Loose-Leaf-Punched-Supplement and Hand Inserter

In all Plastico-Bound books, pages may be added as needed by means of the exclusive Plastico hand inserter illustrated here. To remove page pull sheet upward at the upper left corner as illustrated.

Demonstrating that pages can be added from time to time as needed, in all Plastico-Bound books — after they have been distributed to the users.

This additional feature lends loose-leaf flexibility to permanent bindings and furnishes a further reason for Plastico preference.
IMPORTANT

Note that the 1976 Catalog is sub-divided into 10 sections with the first page of each section printed on heavy colored paper, tabbed for ready reference. A few moments spent in becoming familiar with the general contents of each section will greatly facilitate location of desired parts. The 10 sections, together with first page of each section, are listed below.

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**CAUTION!**

Protect your investment. 
Use only Genuine Bally Parts to service Ballygames.

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**YOU CAN BANK ON A BALLY GAME**
## Bally Flipper Type Pinball Games

**Number in parenthesis indicates number of players**

(A) indicates add-a-ball model of preceding game

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# Bally Flipper Type Pinball Games

Number in parenthesis indicates number of players. (A) indicates add-a-ball model of preceding game.

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<td>WIGGLER: See THE WIGGLER</td>
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</table>
LUBRICATION GUIDE

For proper maintenance of Bally game, all moving parts of all units, excepting as noted below, should be lubricated with the light MBI Instrument Grease supplied with games and available through Bally Distributors or the Bally Service Department.

CONTACT PLATES
Contact Plates, either rivet type or printed circuit type, should be lubricated with a very light application of LB550X Oil, which is also available through Bally Distributors or Service Department.

CAUTION
Use of other type lubricant than LB550X Oil on Contact Plates may cause failure in circuitry.

MOTOR GEARS; MOTOR ROTOR BEARINGS
Enclosed motor gears and bearings are factory lubricated, need no further maintenance.

PLUNGERS, SOLENOID
Do not lubricate Solenoid Plungers.

A scheduled and thorough maintenance program will repay many times the cost in trouble-free operation and minimum wear of parts.
COIN HANDLING COMPONENTS
INDEX TO COIN HANDLING COMPONENTS

Alternator Units ........................................ 15-18
Coin-Mechanism Data, International ...................... 19-21
Coin Switch & Rejector Mounting Assys ................... 7-14
Door, Front, New ........................................... 11-14
International Coin-Mechanism Data ....................... 19-21
New Front Door ........................................... 11-14
Rejector Mounting Assys., Coin Switch & .................. 7-14
COIN-SWITCH & REJECTOR MOUNTING ASSY.
AS-277-137  SEE NOTES A, B

COIN SWITCH WIRE  M-666-13
COIN GUIDE  P-6694-SERIES  SEE NOTE B
COIN GUIDE  P-6695
COIN RETURN GUIDE ASSY.  A-2719-3
COIN GUIDE SPACER  SEE NOTE B

SLUG REJECTOR MOUNTING BRACKET  P-6046-8

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
NOTE A
Coin-Switch & Receptor Mounting Assy. AS-277-137, illustrated on page 7, was used only with
Single Coin Chute.
EXPRESSWAY, SEA RAY, MARINER
Other Coin Switch & Receptor Mounting Assys. are detailed in NOTE A, page 10.

NOTE B
To determine correct part number, refer to International Coin-Mechanism Data, commencing on page 19.

FASTENERS
Order nuts, screws, washers and other fasteners by name or description with reference to
(A) AS-277-137,
(B) Part fastener secures.
COIN-SWITCH & REJECTOR MOUNTING ASSY.

SEE NOTE A

SPRING SP-399-20

SPRING SP-148

SLUG REJECTOR MOUNT ASSY. A-1388-48

COIN GUIDE P-6695

COIN RETURN GUIDE ASSY. A-2719-3

COIN GUIDE P-6694-SERIES SEE NOTE B

COIN GUIDE SPACER SEE NOTE B

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
NOTE A
COIN-SWITCH & REJECTOR MOUNTING ASSYS.
EXPRESSWAY, SEA RAY, MARINER
With Single Coin Chute ............... AS-277-137
As described, pages 7, 8
With Multiple Coin Chutes .......... AS-277-135
As illustrated, page 9, with
ADDED COMPONENTS (Not shown)
Lockout Wire
FOR COINS Larger
than U.S. Dimes. ................. M-1504
FOR U.S. DIME
and other coins
same size as
or smaller than Dime. ........... M-1504-1
Lockout Wire Bracket .......... P-6629-49

FIREBALL, later games*
See pages 11–14

NOTE B
To determine correct part number, see International Coin-Mechanism Data commencing on page 19

FASTENERS
Order nuts, screws, washers and other fasteners by name or description with reference to
(A) AS-277-135,
(B) Part fastener secures.

LATCH MAGNET ASSY. AS-2517-2
USED WITH COIN SWITCH & REJECTOR MOUNTING ASSY. AS-277-135

1. Magnet Frame .................. P-7225-3
2. Fishpaper Insulator ............. P-150-100
3. Screw, Hexagon Head, Brass ... No. 8-32x3/8 in.
   With External Tooth Lockwasher
4. Coil .............................. FC-33-2600
5. Spring .......................... SP-100-276
6. Lockscrew (2 used) ............. LS-832-3-511
7. Armature (Latch) ............... P-7207-3
8. Armature Plate ................ P-7326
9. Lock-out Strip (NOT SHOWN) ... P-7327

LOCK-OUT STRIP,
WHICH ENGAGES ARMATURE PLATE,
IS NOT INCLUDED
IN LATCH MAGNET ASSY. AS-2517-2

*See chronological list of games, page 1.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
NEW IMPROVED FRONT DOOR
FIREBALL and later games*

Interior View
ALSO SEE PAGE 13

*See chronological list of games, page 1.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
INDEX TO ILLUSTRATION, PAGE 11

1 Screw (Switch Guard) ...................................... LS-832-511
2 Hinge Assy. (Coin Drop) ..................................... LS-832-511

PART OF COIN DROP ASSY.
SINGLE CHUTE GAMES ..................... AS-2601-1
Coin Drop Casting .............................. C-828
Coin Drop Window ............................. S-632-4-511
See International Coin Mechanism Data,
commencing on page 19
Coin Drop Cover Plate ....................... P-582
Coin Entry Plate ............................... S-2000
See International Coin Mechanism Data,
commencing on page 19

2 Hinge Assy. ................................. A-254-111
Reject Button ................................. S-286-32
Replay Button Assy ............................ A-1729-17
Retaining Ring (2) ......................... P-2891-7
Rubber Strip (2) ............................. R-221-8
Screw (10) .................................. LSPR-00832-1104
Spacer, Button .............................. S-2056
Window & Plate Bracket ................. P-7496
DOUBLE CHUTE GAMES .................. AS-2601-2
TRIPLE CHUTE GAMES .................... AS-2601-3

Above 2 Assys. same as AS-2601-1, above,
with variations in quantity
of several components.

3 Screw (Coin Slide) ....................... LS-832-4-511
4 Front Door .............................. A-254-112
(Door Only) .................................. A-256-112
5 Hinge Assy. (Door) ...................... MS-832-4-610
6 Screw, Button Head (3) ............... MS-832-4-610
7 Coin Slide Assy. ............................. A-3051-11
Assy. with slot to receive "ear"
in opposite Assy. ......................... A-3051-11
Assy. with "ear" ............................ A-3716-SERIES
See International Coin Mechanism Data,
commencing on page 19

8 Clip .............................. C-271-2
1/8 in. inside dimension
3/16 in. inside dimension .......... C-271-3
1/4 in. inside dimension .......... C-271-4

9 Screw (6) ................................ LS-832-4-511
10 Screw (lockdown) ...................... LS-832-4-511
11 Screw (Lamp Socket) ................. LS-832-4-511
12 Lamp Socket ...................... E-120-162
13 Insulator .............................. P-150-78
14 Lamp .............................. E-125-122
15 Back Plate ...................... P-7492
16 Pivot Bracket Assy .................. AS-2488
Bracket ...................... P-7497
Pin .................................. S-2055
Retaining Ring (2) ................. P-2891-5

17 Screw, Parker Kalon, ............................ No. 8-32 x 1/4 in.
Swage Form (4) ..................... No. 8-32 x 1/4 in.
18 Replacer Assy ............................. P-7600
19 Reject Lever & Pivot Assy ........ AS-2487
Bracket ...................... P-7497
Pin .................................. S-2055
Reject Lever Assy ..................... A-3443
Retaining Ring (2) ................. P-2892-5

20 Slug Rejector ............................. LS-832-3-511

ITEMS 22-25 ARE PART OF
Coin Switch-Rejector Mount Assy. ........ AS-277-138
21 Coin Guide ............................. P-6694-SERIES
Mounted under Coin Switch .............. P-6694-SERIES
See International Coin Mechanism Data,
commencing on page 19
22 Constant with all coins .......... P-6695
23 Coin Guide Spacer ................. M-181-22
24 Coin Switch & Wire Assy. .......... LS-832-4-511
25 Lockout Wire ............................. P-6629-49
For variable numbers, items 24, 27, 23, above,
See International Coin Mechanism Data,
commencing on page 19
26 Lockout Wire Bracket .......... P-6629-49
27 Rejector Mount Assy ................. A-1388-48
28 Screw (2) .................................. LSPR-00540-1103
29 Screw (2) .................................. LSPR-00832-1104
30 Screw (2) .................................. MSSR-00440-1112
31 Coin Guide ............................. SP-148
32 Rejector Mount Assy ................. A-1388-48
33 Screw, Parker Kalon, ................. No. 8-32 x 1/4 in.
Swage Form (6) ..................... No. 8-32 x 1/4 in.
34 Latch Magnet Assy. ................. P-7713
35 Similar to illustration, page 10, with
Armature .............................. P-7207-6
Coil ................................ FC-33-2600
Insulator .............................. P-150-124
Magnet Frame ...................... P-7225-3
Screw .............................. LSOC-00832-2006
Spring, Extension ................. SP-100-294
36 Screw, Parker Kalon, ................. No. 8-32 x 1/4 in.
Swage Form (6) ..................... No. 8-32 x 1/4 in.
37 Lockout Strip ...................... P-7327-1
38 Nut ................................ P-832-1111
39 Switch Guard ...................... P-7716
40 Screw, .............................. No. 5-40 x 3/4 in.
Thread Cutting ...................... P-137-5
41 Switch Plate (Spring) ........ P-137-5
42 Anti-Tilt Switching ............... P-137-5
See page 116
43 Plate .............................. P-126-155
44 Lock Hardware (Supplied with item 50)
45 Lock Cam ............................. P-4005-1
46 Lock ................................ P-6264-96
47 Screw, Parker Kalon, ................. No. 8-32 x 1/4 in.
Swage Form (6) ..................... No. 8-32 x 1/4 in.
48 Screw (4) ................................ LS-832-4-511
49 Lock Spacer ................. P-6264-96
50 Lock with 2 keys) ................. P-108-22

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
NEW IMPROVED FRONT DOOR
FIREBALL and later games*

Interior View
ALSO SEE PAGE 11

*See chronological list of games, page 1.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
INDEX TO ILLUSTRATION, PAGE 13

1. Retaining Ring ........................................ P-2891-7
2. Spacer ................................................. S-231-791
3. Replay Button Assy .................................... A-1729-17
4. Coin Drop Casting ..................................... C-828
5. Coin Reject Button .................................... S-286-32
6. Retaining Ring ......................................... P-2897-7
7. Coin Drop Cover Plate ................................ P-7601
Coin Entry Plate
See International Coin-Mechanism Data, commencing on page 19
8. Coin Drop Window
See International Coin-Mechanism Data, commencing on page 19
9. Window & Plate Bracket ................................. P-7496
10. Screw .................................................. LS-832-4-511
11. Hinge Assy. (Coin Drop) .............................. A-254-111
12. Screw (3) ............................................... LS-832-4-511
13. Screw, Parker Kalon, Swage Form .................... No. 8-32 x ½ in.
14. Screw (4) ............................................... LS-832-4-511
15. Front Door (Door only) ................................ A-344
16. Back Plate ............................................. P-7892
17. Coin Slot Cover ........................................ P-6888-31
18. Screw, Parker Kalon, Swage Form .................... No. 8-32 x ½ in.
19. Coin Return Cover Plate ............................... P-7712
20. Screw, Parker Kalon, Swage Form .................... No. 8-32 x ½ in.
21. Coin Return Cup ...................................... C-827
22. Coin Return Door ...................................... P-7493.

FASTENERS
Order nuts, screws, washers, not listed,
by name or description
with reference to part fastener secures.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
ALTERNATOR UNITS

2 COINS PER PLAY

*Starred components constitute Drive Pawl Assy. AS-2293-2 and may be purchased separately or as complete Assy. AS-2293-2.

SCREWS, WASHERS
Screws and washers should be ordered by name or description with reference to (a) name of game, (b) Alternator, (c) part which fastener secures.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
ALTERNATOR UNITS

2 COINS PER PLAY

SKYROCKET through* EL TORO . . . . . . . . AS-1900-123
As illustrated, page 15

LITTLE JOE, through* OLD CHICAGO . AS-1900-146
Same as AS-1900-147,
described on page 18, except
Ratchet . . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-704-2
Spring, Extension
(ITEM 15) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . SP-100-80

CAPT. FANTASTIC . . . . . . . . . . . . . . . . . . . . . . . . . AS-1900-185
Same as AS-1900-146, above, except
Drive Pawl Assy. . . . . . . . . . . . . . . . . . . . . . . AS-2293-5
Drive Pawl . . . . . . . . . . . . . . . . . . . . . . . . . . . . C-435-6
Plunger . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S-496-160
Roll Pin . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . P-1637-43
Washer (Disc) . . . . . . . . . . . . . . . . . . . . . . . . . . . P-801-35

*See chronological list of games, page 1.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
ALTERNATOR UNITS
3 COINS PER PLAY

STOP PLATE
ON OPPOSITE SIDE OF ASSY.
P-5222-1

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

17
ALTERNATOR UNIT
3 COINS PER PLAY

ZIP-A-DOO through*** EL TORO ......... AS-1900-122
As illustrated, page 17
with variations from AS-1900-147 noted
in listing below.

LITTLE JOE, later games*** .......... AS-1900-147
As illustrated, page 17
with variations from AS-1900-147 noted
in listing below.

ADDED TO AS-1900-147
Connector,
  Female ........................................ E-136-17
  Male ......................................... E-140-2

① NOT VISIBLE AT POSITION 1 ARE:
(a) Between Ratchet and Base Plate:
  Bushing ..................................... S-231-730
(b) Back of Base Plate
  Washer, Plain
    In AS-1900-122 ....................... PW-8-10
    In AS-1900-147 ....................... PW-8-12
  Elastic Stop Nut ........................ M-319-6

② Rocker Arm .............................. C-703-1

③ Hairpin Washer ....................... M-254-1
   Also used with Hold Pawl

④ Switch Plate (Spring) ............... P-137-13

⑤ Switch .................................. ASW-M-100-1

⑥ Coll Bracket Assy. ................. A-613-95

⑦ Coll .................................. CD-29-1600

⑧ Roll Pin*† .............................. P-1637-43*†

⑨ Plunger
    In AS-1900-122 ....................... S-496-181*
    In AS-1900-147 ....................... S-496-1601

⑩ Drive Pawl
    In AS-1900-122 ....................... C-435-7*
    In AS-1900-147 ....................... C-435-6†

⑪ Shoulder Stud ....................... S-2028

⑫ Base Plate Assy.
    In AS-1900-122 ....................... A-2214-28
    In AS-1900-147 ....................... A-2214-31

⑬ Hairpin Washer ....................... M-254
⑭ Spring, Extension .................. SP-100-121
⑮ Spring, Extension .................. SP-100-258
⑯ Hold Pawl ............................ C-708
⑰ Ratchet ............................... C-704-1

*Single-starred components
constitute Drive Pawl Assy, AS-2293-6
and may be purchased separately
or as complete Assy.
† Dagger-referenced components
constitute Drive Pawl Assy, AS-2293-5
and may be purchased separately
or as complete Assy.
***See chronological list of games, page 1

SCREWS, WASHERS
Order by name or description
with reference to
(a) Assy. No.,
(b) Part which fastener secures.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
INTERNATIONAL COIN-MECHANISM DATA

Listed alphabetically by nation

Parts listed in following pages are specialized to particular nations and coins in FIREBALL and later games*. Specialized coin-mechanism parts, MARINER and earlier games*, may be ordered by name or description with reference to nation, coin, name of game. Availability of earlier parts is not guaranteed. Other coin-mechanism parts appear on pages 7–20.

**AUSTRALIA**

<table>
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<th>Item</th>
<th>Part No.</th>
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<tr>
<td>All items refer to 20c coin</td>
<td>C-826-18</td>
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<tr>
<td>Coin Drop Window</td>
<td>P.7601-12</td>
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<tr>
<td>Coin Guide</td>
<td>P.6694-1</td>
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<td>Also see item 7, page 12</td>
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<tr>
<td>Coin Guide Spacer</td>
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<tr>
<td>Coin Slide Assy.</td>
<td>A-3716-1</td>
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<tr>
<td>Coin Switch Assy.</td>
<td>AS-2744</td>
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<tr>
<td>Coin Switch</td>
<td>E-108-86</td>
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<td>Coin Switch Wire</td>
<td>M-666-13</td>
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<td>Retaining Ring</td>
<td>P-3389-6</td>
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<td>Coin Wire</td>
<td>M-1504-2</td>
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<tr>
<td>Slug Rejector</td>
<td>M-1400-44</td>
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**BELGIUM**

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<td>Coin Drop Window</td>
<td>C-826-89</td>
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<td>1 PLAY</td>
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<td>2 x 5 FR.</td>
<td>C-826-89</td>
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<td>10 FR</td>
<td>C-826-88</td>
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<td>Coin Entry Plate</td>
<td>P.7601-4</td>
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<td>Coin Guide</td>
<td>P.7601-14</td>
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<td>EITHER ABOVE COIN</td>
<td>P.6694</td>
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<tr>
<td>Coin Guide Spacer</td>
<td>P-6431-3</td>
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<tr>
<td>10 FR</td>
<td>P-6431-6</td>
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<td>Coin Wire</td>
<td>M-1400-10</td>
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<td>Slug Rejector</td>
<td>M-1400-52</td>
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**FINLAND**

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<td>P.7601-6</td>
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<td>Coin Guide</td>
<td>P.6694</td>
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<td>Also see item 25, page 12</td>
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<tr>
<td>Coin Guide Spacer</td>
<td>P-6431-3</td>
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<td>Coin Slide Assy.</td>
<td>A-3716-1</td>
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<tr>
<td>Coin Switch Assy.</td>
<td>AS-2744</td>
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<td>M-1504</td>
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<td>Slug Rejector</td>
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**FRANCE**

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<td>2 PLAYS</td>
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<tr>
<td>1 FR</td>
<td>P.7601-6</td>
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<td>Coin Entry Plate</td>
<td>P.6684</td>
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<td>Coin Guide</td>
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<tr>
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**GERMANY**

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<tr>
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<tr>
<td>2 DM</td>
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<tr>
<td>1 DM</td>
<td>P.7601-6</td>
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<td>2 DM</td>
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<td>ANY ABOVE COIN</td>
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**DENMARK**

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**ENGLAND**

See UNITED KINGDOM

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

---

*See chronological list of games, page 1.
<table>
<thead>
<tr>
<th>COUNTRY</th>
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<td>5 N.P. OR 1/</td>
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UNITED STATES
All listings refer to Quarter Dollar coin* 
Coin Drop Window 
2 PLAYS 
QUARTER ............... C-826-50
Coin Entry Plate ........ P-7601-4
Coin Guide ............... P-6694 
Also see item 25, page 12 
Coin Guide Spacer .......... P-6431-3 
Coin Slide Assy ............ A-3716-6 
Also see item 7, page 12 
Coin Switch Assy ........... AS-2744 
Detailed under AUSTRALIA
Coin Wire ................. M-1504 
Slug Rejector ............ M-1400-62 

*Parts for other U.S. coins may be ordered by name or description with reference to coin.
CIRCUIT CONTROL COMPONENTS

ELECTRONIC PARTS: See Page 204

Flasher Unit ............................................. 107, 108
Race Unit .................................................. 109

Relays,
  "G" Type .................................................. 49-91
  Trip ......................................................... 43-48

Score Motor Assys. ....................................... 29-42

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Stepping Units,
  Continuous ............................................. 97, 98
  Full Step Reset ........................................ 99-102
  Match (00-90) ......................................... 93-95
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Switch Actuators ....................................... 27

TRANSFORMER:

SKYROCKET through *
  OLD CHICAGO ......................................... E-122-195

CAPT. FANTASTIC, later games
  50 cycles ............................................. E-122-123
  60 cycles ............................................. E-122-124
Illustrated in the following pages are switches which are not specifically called out elsewhere in the catalog. If part number is not known for a desired switch, order by name with reference to (a) name of game, (b) name of unit on which switch is used, (c) function of switch.

**BREAK SWITCHES**

**NORMALLY CLOSED**

- **ASW-A2-4**
  ROLLOVER BUTTON

- **ASW-A2-26**
  ROLLOVER WIRE

- **ASW-A20-9**
  MUSHROOM BUMPER

**MAKE SWITCHES**

**NORMALLY OPEN**

- **ASW-A1-1**
  HOLE KICKER

- **ASW-A1-2**
  SLINGSHOT KICKER SCORING

- **ASW-A1-3**
  BALL RETURN

- **ASW-A1-4**
  ROLLOVER BUTTON

- **ASW-A1-5**
  ROLLOVER WIRE

- **ASW-A1-29**
  ROLLOVER WIRE

- **ASW-A1-72**
  SLINGSHOT SCORING

**SHOWN IN CLOSED POSITION NORMALLY HELD OPEN BY SLINGSHOT KICKER ARM**

*When ordering part, specify part no. and name of game*
SWITCHES

MAKE-BEFORE-BREAK SWITCH

MAKE-MAKE SWITCHES
NORMALLY OPEN

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
SWITCH ACTUATORS

ASW-BO-3
(LEAF SPRING .008 THICK)

ASW-BO-4
(LEAF SPRING .010 THICK)

ASW-BO-5

ASW-BO-6

C-709
C-709-1
C-709-2

C-769
C-769-1
C-769-2
C-769-3
C-769-4

C-812-4
C-812-5
C-812-6

C-813
C-813-1

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

27
SCORE MOTOR ASSYS.

FRONT VIEW

HEXAGON SHAFT
10-11 CAMS S-1947
12-13 CAMS S-1947-5

WASHER
(3 USED)
P:801-102

P-6698
SIDE PLATE

RETAINING RING
AT EACH END OF
HEXAGON SHAFT
P-2691-8

SPRING
(COMPRESSION)
SP-200-31

SUPPORT BRACKET
10-11 CAMS: P-6629-2
12-13 CAMS: P-6629-43

P-1637-4
ROLL PIN

SPACER
S-1949

P-6698-1
SIDE PLATE

TOP VIEW

SWITCH
BRACKET
10-11 CAMS
P-126-537
12-13 CAMS
P-126-591

E-119-354
MOTOR
SEE NOTE C

Hinge Mounting Bracket
P-6629-8

NYLINER
C-537-5

S-739-171
ROD

Motor Shield P-7681

P-6316-4
RETAINING RING

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

29
SCORE MOTOR ASSYS.

CAM
See page 31.

SCREW
Order by name or description with reference to (a) name of game, (b) Score Motor Assy., (c) part which screw secures and (for switch screws) (d) related Cam number, counting from Motor end of Assy.

SWITCH
See page 31.

SWITCH ACTUATOR
See page 27.

SWITCH PLATE (SPRING)
P.137-5, unless otherwise indicated.

NOTE B
Turn ¼ turn clockwise to release, ¾ turn clockwise to secure.

NOTE C
Motor E-119-460 is used in areas operating on 50 cycles current.

Motor E-119-460 is recommended replacement for Motors E-119-411 and E-119-372, formerly used in 50 cycles areas.

E.119-354 MOTOR PARTS

<table>
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<td>Gear, First</td>
<td>G.4111-1</td>
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<td>Gear, Intermediate (Double Gears)</td>
<td>G.5818-1</td>
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<tr>
<td>Gear &amp; Shaft</td>
<td>G.7300-1 X 1/4</td>
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<tr>
<td>Rotor &amp; Shaft</td>
<td>ZRST-1415-31-9</td>
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<tr>
<td>Stator</td>
<td>ZS-1707-2531</td>
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</table>

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
SCORE MOTOR CAMS & SWITCHES

Switching components are listed from Motor end of Score Motor Assy., from top to bottom of related Cam.

SKYROCKET
CAM 1 .................. P-1365-537
Switch,
Top ................. ASW-C3X-3
Next 3 below ...... ASW-C2X-2
Bottom ............. ASW-C2X-3
Switch Screw ...... MS-540-34-110
CAM 2 .................. P-1365-577
Switch,
Top ................. ASW-C1X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-14-110
CAM 3 .................. P-1365-564
Switching same as with CAM 2
CAM 4 .................. P-1365-565
Switch,
Top ................. ASW-C1X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-20-110
CAM 5 .................. P-1365-566
Switch,
Top ................. ASW-C2X-1
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-14-110
CAM 6 .................. P-1365-567
Switch,
Top ................. ASW-C2X-2
Next below ...... ASW-C2X-1
Next below ...... ASW-C1X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-24-110
CAM 7 .................. P-1365-568
Switch,
Top ................. ASW-C2X-2
Middle .......... ASW-C2X-1
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-18-110
CAM 8 .................. P-1365-569
Switch,
Top ................. ASW-C2X-2
Next 3 below ...... ASW-C1X-2
Next 3 below ...... ASW-C1X-1
Switch Screw ...... MS-540-36-110
CAM 9 .................. P-1365-570
Switching same as with CAM 2
CAM 10 ............... P-1365-546
Switch,
Top ................. ASW-C2X-2
Middle .......... ASW-C2X-1
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-28-110
CAM 11 ............... P-1365-574
Switch,
Top ................. ASW-C1X-19
Switch Screw ...... MS-540-8-110
Switch Plate (11 used) .... P-137-5

FOUR MILLION B.C.
CAM 1 .................. P-1365-537
Switch,
Top ................. ASW-C3X-2
Next below ...... ASW-C3X-3
Next below ...... ASW-C2X-2
Bottom ............. ASW-C2X-3
Switch Screw ...... MS-540-36-110
CAM 2 .................. P-1365-577
Switch,
Top ................. ASW-C1X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-14-110
CAM 3 .................. P-1365-564
Switch,
Top ................. ASW-C2X-2
Next 2 below ...... ASW-C2X-1
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-24-110
CAM 4 .................. P-1365-566
Switch,
Top ................. ASW-C1X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-24-110
CAM 5 .................. P-1365-566
Switch,
Top ................. ASW-C2X-1
Next 2 below ...... ASW-C2X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-24-110
CAM 6 .................. P-1365-567
Switch,
Top ................. ASW-C2X-2
Next below ...... ASW-C2X-1
Next 3 below ...... ASW-C1X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-36-110
CAM 7 .................. P-1365-569
Switch,
Top ................. ASW-C2X-2
Middle .......... ASW-C2X-1
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-18-110
CAM 8 .................. P-1365-569
Switch,
Top ................. ASW-C2X-2
Next 2 below ...... ASW-C2X-1
Next 3 below ...... ASW-C1X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-20-110
CAM 9 .................. P-1365-570
Switching same as with CAM 2
CAM 10 ............... P-1365-546
Switch,
Top ................. ASW-C2X-2
Middle .......... ASW-C2X-1
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-24-110
CAM 11 ............... P-1365-574
Switch,
Top ................. ASW-C1X-19
Switch Screw ...... MS-540-8-110
Switch Plate (11 used) .... P-137-5

EXPRESSWAY
CAM 1 .................. P-1365-537
Switch,
Top ................. ASW-C3X-3
Next 3 below ...... ASW-C2X-2
Bottom ............. ASW-C2X-3
Switch Screw ...... MS-540-34-110
CAM 2 .................. P-1365-577
Switch,
Top ................. ASW-C1X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-18-110
CAM 3 .................. P-1365-564
Switch,
Top ................. ASW-C1X-2
Bottom ............. ASW-C1X-1
Switch Screw ...... MS-540-14-110
CAM 4 .................. P-1365-565
Switching same as with CAM 2
CAM 5 .................. P-1365-566
Switch,
Top ................. ASW-C2X-2
Bottom ............. ASW-C2X-1
Switch Screw ...... MS-540-16-110
CAM 6 .................. P-1365-567
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Bottom ............. ASW-C2X-1
Switch Screw ...... MS-540-22-110
CAM 7 .................. P-1365-568
Switch,
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Bottom ............. ASW-C2X-1
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CAM 8 .................. P-1365-569
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CAM 10 ............... P-1365-574
Switch,
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Switch Plate (11 used) .... P-137-5

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
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When ordering part, specify part no. and name of game.
## Score Motor Cams & Switches

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When ordering part, specify part no. and name of game

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When ordering part, specify part no. and name of game.
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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

36
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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**
SCORE MOTOR CAMS & SWITCHES

ROGO

CAM 1 ........................ P.1365-537
Switch,
Top ........................ ASW-CX1-3
Next 2 below ................. ASW-CX1-12
Next below ................. ASW-CX1-11
Bottom ...................... ASW-CX1
Switch Screw (2) .......... MSSR-00540-1132
CAM 2 ........................ P.1365-577
Switch,
Top ........................ ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1124
CAM 3 ........................ P.1365-564
Switching same as with CAM 2
CAM 4 ........................ P.1365-565
Switch,
Top ........................ ASW-CX1-11
Next 2 below ................. ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1124
CAM 5 ........................ P.1366-366
Switching same as with CAM 4
CAM 6 ........................ P.1365-567
Switch,
Top ........................ ASW-CX1-12
Next below ................. ASW-CX1-11
Next below ................. ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1130
CAM 7 ........................ P.1365-568
Switching same as with CAM 4
CAM 8 ........................ P.1365-569
Switch,
Top ........................ ASW-CX1-12
Next below ................. ASW-CX1-11
Next 2 below ................. ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1142
CAM 9 ........................ P.1365-546
Switch,
Top ........................ ASW-CX2-12
Next below ................. ASW-CX2-11
Next 2 below ................. ASW-CX2-2
Bottom ...................... ASW-CX2
Switch Screw (2) .......... MSSR-00540-1120
CAM 10 ............................ P.1365-574
Switch,
Top ........................ ASW-CX1-2
Bottom ...................... ASW-CX2
Switch Screw (2) .......... MSSR-00540-1114
Switch Plate (10 used) ........ P.137.5

BON VOYAGE

CAM 1 ........................ P.1365-537
Switch,
Top ........................ ASW-CX1-2
Next below ................. ASW-CX1-3
Next 3 below ................. ASW-CX1-12
Bottom ...................... ASW-CX1-3
Switch Screw (2) .......... MSSR-00540-1136
CAM 2 ........................ P.1365-577
Switch,
Top ........................ ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1120
CAM 3 ........................ P.1365-564
Switch,
Top ........................ ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1136
CAM 4 ........................ P.1365-565
Switching same as with CAM 3
CAM 5 ........................ P.1365-566
Switch,
Top ........................ ASW-CX1-11
Next 3 below ................. ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1130
CAM 6 ........................ P.1365-567
Switch,
Top ........................ ASW-CX1-11
Middle ....................... ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1120
CAM 7 ........................ P.1365-568
Switch,
Top ........................ ASW-CX1-12
Next 4 below ................. ASW-CX1-11
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1126
CAM 8 ........................ P.1365-569
Switch,
Top ........................ ASW-CX1-12
Next below ................. ASW-CX1-11
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1136
CAM 9 ........................ P.1365-570
Switch,
Top ........................ ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1126
CAM 10 ........................ P.1365-546
Switch,
Top ........................ ASW-CX1-12
Next below ................. ASW-CX1-11
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1126
CAM 11 ........................ P.1365-574
Switch ASW-CX1-19
Switch Screw (2) .......... MSSR-00540-1108
Switch Plate (11 used) ........ P.137.5

BOOMERANG

CAM 1 ........................ P.1365-537
Switch,
Top ........................ ASW-CX1-3
Next below ................. ASW-CX1-12
Next below ................. ASW-CX1-11
Bottom ...................... ASW-CX1
Switch Screw (2) .......... MSSR-00540-1128
CAM 2 ........................ P.1365-577
Switch,
Top ........................ ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1120
CAM 3 ........................ P.1365-564
Switch,
Top ........................ ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1130
CAM 4 ........................ P.1365-565
Switching same as with CAM 3
CAM 5 ........................ P.1365-566
Switch,
Top ........................ ASW-CX1-11
Next 3 below ................. ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1130
CAM 6 ........................ P.1365-567
Switch,
Top ........................ ASW-CX1-11
Middle ....................... ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1120
CAM 7 ........................ P.1365-568
Switch,
Top ........................ ASW-CX1-12
Next 4 below ................. ASW-CX1-11
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1130
CAM 8 ........................ P.1365-569
Switch,
Top ........................ ASW-CX1-11
Next 2 below ................. ASW-CX1-2
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1126
CAM 9 ........................ P.1365-570
Switch,
Top ........................ ASW-CX1-2
Next below ................. ASW-CX1-11
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1136
CAM 10 ........................ P.1365-546
Switch,
Top ........................ ASW-CX1-12
Next below ................. ASW-CX1-11
Bottom ...................... ASW-CX1-1
Switch Screw (2) .......... MSSR-00540-1134
CAM 11 ........................ P.1365-574
Switch ASW-CX1-19
Switch Screw (2) .......... MSSR-00540-1108
Switch Plate (11 used) ........ P.137.5

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WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
SCORE MOTOR CAMS & SWITCHES

FLICKER
CAM 1 .................... P-1365-537
Switch,
   Top .................. ASW-C2X-3
   Middle ................. ASW-C2X-12
   Bottom ............... ASW-C2X-3
Switch Screw (2) .... MSSR-00540-1124
CAM 2 .................... P-1365-577
Switch,
   Top .................. ASW-C1X-2
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1120
CAM 3 .................... P-1365-564
Switching same as with CAM 2
CAM 4 .................... P-1365-565
Switching same as with CAM 2
CAM 5 .................... P-1365-566
Switch,
   Top .................. ASW-C2X-11
   Bottom ............... ASW-C2X-1
Switch Screw (2) .... MSSR-00540-120
CAM 7 .................... P-1365-568
Switch,
   Top .................. ASW-C2X-11
   Next 3 below ......... ASW-C1X-2
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1130
CAM 8 .................... P-1365-569
Switch,
   Top .................. ASW-C2X-11
   Next 3 below ......... ASW-C1X-2
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1130
CAM 9 .................... P-1365-570
Switch Screw (2) .... MSSR-00540-1110
CAM 10 .................. P-1365-546
Switch,
   Top .................. ASW-C2X-12
   Bottom ............... ASW-C2X
Switch Screw (2) .... MSSR-00540-1144
CAM 11 .................. P-1365-574
Switch,
   C1X-19 ............... C1X-19
Switch Screw (2) .... MSSR-00540-1108
Switch Plate (11) .... P-137-5

AIR ACES
CAM 1 .................... P-1365-537
Switch,
   Top .................. ASW-C2X-3
   Next Below .......... ASW-C2X-12
   Next below .......... ASW-C2X-11
   Bottom ............... ASW-C1X
Switch Screw (2) .... MSSR-00540-1130
CAM 2 .................... P-1365-577
Switch,
   Top .................. ASW-C1X-2
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1130
CAM 3 .................... P-1365-564
Switch,
   Top .................. ASW-C1X-2
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1128
CAM 4 .................... P-1365-565
Switch,
   Top .................. ASW-C2X-11
   Next 3 below ......... ASW-C1X-2
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1120
CAM 6 .................... P-1365-567
Switch,
   Top .................. ASW-C2X-12
   Next 2 below ......... ASW-C1X-1
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1130
CAM 7 .................... P-1365-568
Switching same as with CAM 4
CAM 8 .................... P-1365-569
Switch,
   Top .................. ASW-C2X-12
   Next 2 below ......... ASW-C1X-1
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1120
CAM 9 .................... P-1365-570
Switch,
   Top .................. ASW-C2X-12
   Next 2 below ......... ASW-C1X-1
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1130
CAM 10 .................. P-1365-546
Switch,
   Top .................. ASW-C2X-12
   Bottom ............... ASW-C2X
Switch Screw (2) .... MSSR-00540-1114
CAM 11 .................. P-1365-574
Switch,
   Top .................. ASW-C1X-2
   Bottom ............... ASW-C1X-19
Switch Screw (2) .... MSSR-00540-1114
Switch Plate (11) .... P-137-5

KNOCKOUT
CAM 1 .................... P-1365-537
Switch,
   Top .................. ASW-C2X-3
   Next 2 below ......... ASW-C2X-12
   Bottom ............... ASW-C2X-3
Switch Screw (2) .... MSSR-00540-1126
CAM 2 .................... P-1365-577
Switch,
   Top .................. ASW-C1X-2
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1120
CAM 3 .................... P-1365-564
Switch,
   Top .................. ASW-C3X-2
   Next 2 below ......... ASW-C1X-2
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1126
CAM 4 .................... P-1365-565
Switch,
   Top .................. ASW-C2X-11
   Next 2 below ......... ASW-C1X-1
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1126
CAM 5 .................... P-1365-566
Switching same as with CAM 4
CAM 6 .................... P-1365-567
Switch,
   Top .................. ASW-C2X-12
   Next below .......... ASW-C2X-11
   Bottom ............... ASW-C1X-2
Switch Screw (2) .... MSSR-00540-1126
CAM 7 .................... P-1365-568
Switch,
   Top .................. ASW-C2X-12
   Next below .......... ASW-C2X-11
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1126
CAM 8 .................... P-1365-569
Switch,
   Top .................. ASW-C2X-12
   Next below .......... ASW-C2X-11
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1126
CAM 9 .................... P-1365-570
Switch,
   Top .................. ASW-C2X-12
   Next below .......... ASW-C2X-11
   Bottom ............... ASW-C1X-1
Switch Screw (2) .... MSSR-00540-1126
CAM 10 .................. P-1365-546
Switch,
   Top .................. ASW-C2X-12
   Bottom ............... ASW-C2X
Switch Screw (2) .... MSSR-00540-1114
CAM 11 .................. P-1365-574
Switch,
   Top .................. ASW-C1X-2
   Bottom ............... ASW-C1X-19
Switch Screw (2) .... MSSR-00540-1114
Switch Plate (11) .... P-137-5

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

39
### WIZARD

<table>
<thead>
<tr>
<th>Switch</th>
<th>Cam 1</th>
<th>P-1365-537</th>
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<tbody>
<tr>
<td>Top</td>
<td>ASW-C3X-3</td>
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<td>Next 3 below</td>
<td>ASW-C2X-12</td>
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<tr>
<td>Next below</td>
<td>ASW-C2X-11</td>
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<td>Bottom</td>
<td>ASW-C1X-10</td>
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<td>Switch Screw (2)</td>
<td>MSSR-00540-1140</td>
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<th>P-1365-577</th>
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<tbody>
<tr>
<td>Top</td>
<td>ASW-C1X-2</td>
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<td>Bottom</td>
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#### CAM 3

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<tbody>
<tr>
<td>Top</td>
<td>ASW-C3X-2</td>
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<tr>
<td>Next 4 below</td>
<td>ASW-C1X-2</td>
</tr>
<tr>
<td>Bottom</td>
<td>ASW-C1X-1</td>
</tr>
<tr>
<td>Switch Screw (2)</td>
<td>MSSR-00540-1144</td>
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#### CAM 4

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</thead>
<tbody>
<tr>
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<tr>
<td>Next 5 below</td>
<td>ASW-C1X-2</td>
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<td>Bottom</td>
<td>ASW-C1X-1</td>
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<tr>
<td>Switch Screw (2)</td>
<td>MSSR-00540-1144</td>
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#### CAM 5

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<tbody>
<tr>
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<td>Next 5 below</td>
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<tr>
<td>Bottom</td>
<td>ASW-C1X-1</td>
</tr>
<tr>
<td>Switch Screw (2)</td>
<td>MSSR-00540-1144</td>
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#### CAM 6

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<tbody>
<tr>
<td>Top</td>
<td>ASW-C2X-12</td>
</tr>
<tr>
<td>Next below</td>
<td>ASW-C2X-11</td>
</tr>
<tr>
<td>Next 4 below</td>
<td>ASW-C1X-2</td>
</tr>
<tr>
<td>Bottom</td>
<td>ASW-C1X-1</td>
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<tr>
<td>Switch Screw (2)</td>
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#### CAM 7

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<tr>
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<td>Next below</td>
<td>ASW-C2X-11</td>
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<tr>
<td>Next 4 below</td>
<td>ASW-C1X-2</td>
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<tr>
<td>Bottom</td>
<td>ASW-C1X-1</td>
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<td>Switch Screw (2)</td>
<td>MSSR-00540-1130</td>
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#### CAM 9

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<td>ASW-C2X</td>
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<tr>
<td>Switch Screw (2)</td>
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#### CAM 10

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<td>ASW-C2X</td>
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<tr>
<td>Switch Screw (2)</td>
<td>MSSR-00540-1110</td>
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#### CAM 11

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<tbody>
<tr>
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<td>ASW-C3X-2</td>
</tr>
<tr>
<td>Bottom</td>
<td>ASW-C3X-1</td>
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<tr>
<td>Switch Screw (2)</td>
<td>MSSR-00540-1123</td>
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#### CAM 12

<table>
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<th>Switch</th>
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<tr>
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<tr>
<td>Bottom</td>
<td>ASW-C2X</td>
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</table>

#### WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

**CONTINUED ON NEXT PAGE**
SCORE MOTOR CAMS & SWITCHES

FLIP-FLOP

CAM 1 .................. P. 1365-537
Switch, Top .................. ASW-C3X-3
Next below ................. ASW-C2X-12
Bottom .................. ASW-C2X-11
Switch Screw (2) .......... MSSR-00540-1142
Switch, Top 2 ................. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1120
CAM 3 .................. P. 1365-564
Switch, Top .................. ASW-C3X-2
Next 4 below .............. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1138
CAM 4 .................. P. 1365-565
Switch, Top .................. ASW-C2X-11
Next 5 below .............. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1130
CAM 6 .................. P. 1365-567
Switch, Top .................. ASW-C2X-12
Next below ................. ASW-C2X-11
Next 3 below .............. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1136
CAM 7 .................. P. 1365-568
Switching same as with CAM 4
CAM 8 .................. P. 1365-569
Switch, Top .................. ASW-C2X-12
Next below ................. ASW-C2X-11
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1134
CAM 9 .................. P. 1365-570
Switch .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1108
CAM 10 .................. P. 1365-546
Switch, Top .................. ASW-C2X-12
Bottom .................. ASW-C2X
Switch Screw (2) .......... MSSR-00540-1114
CAM 11 .................. P. 1365-574
Switch, Top .................. ASW-C1X-2
Bottom .................. ASW-C1X-19
Switch Screw (2) .......... MSSR-00540-1114
CAM 12 .................. P. 1365-547
Switch, Top 2 ................. ASW-C2X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1122
Switch Plate (12 used) .... P. 137-5

HOKUS POKUS

CAM 1 .................. P. 1365-537
Switch, Top .................. ASW-C3X-2
Next below ................. ASW-C3X-3
Next below ................. ASW-C2X-12
Bottom .................. ASW-C2X-3
Switch Screw (2) .......... MSSR-00540-1126
CAM 2 .................. P. 1365-577
Switch, Top 2 ................. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1120
CAM 3 .................. P. 1365-564
Switch, Top .................. ASW-C3X-2
Middle .................. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1122
CAM 4 .................. P. 1365-565
Switch, Top 2 ................. ASW-C3X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1116
CAM 6 .................. P. 1365-567
Switch, Top 2 ................. ASW-C3X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1120
CAM 7 .................. P. 1365-568
Switching same as with CAM 4
CAM 8 .................. P. 1365-569
Switch, Top 2 ................. ASW-C2X-12
Next below ................. ASW-C2X-11
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1128
CAM 9 .................. P. 1365-789
Switch.................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1108
CAM 10 .................. P. 1365-546
Switch .................. ASW-C2X
Switch Screw (2) .......... MSSR-00540-1110
CAM 11 .................. P. 1365-574
Switch .................. ASW-C1X-19
Switch Screw (2) .......... MSSR-00540-1108
Switch Plate (11) .......... P. 137-5

OLD CHICAGO

CAM 1 .................. P. 1365-537
Switch, Top 2 ................. ASW-C3X-2
Next below ................. ASW-C3X-3
Bottom .................. ASW-C2X-2
Switch Screw (2) .......... MSSR-00540-1134
CAM 2 .................. P. 1365-577
Switch, Top 3 ................. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1138
CAM 3 .................. P. 1365-564
Switch, Top .................. ASW-C3X-2
Next 4 below .............. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1118
CAM 4 .................. P. 1365-565
Switch, Top 2 ................. ASW-C2X-11
Next 3 below .............. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1132
CAM 6 .................. P. 1365-567
Switch, Top 2 ................. ASW-C3X-2
Next 2 below .............. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1132
CAM 7 .................. P. 1365-568
Switch, Top .................. ASW-C2X-11
Next 2 below .............. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1124
CAM 8 .................. P. 1365-569
Switch, Top .................. ASW-C3X-3
Next 2 below .............. ASW-C2X-12
Next below ................. ASW-C2X-11
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1130
CAM 9 .................. P. 1365-670
Switch, Top .................. ASW-C1X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1114
CAM 10 .................. P. 1365-546
Switch, Top .................. ASW-C2X-12
Bottom .................. ASW-C2X
Switch Screw (2) .......... MSSR-00540-1114
CAM 12 .................. P. 1365-547
Switch, Top 2 ................. ASW-C2X-2
Bottom .................. ASW-C1X-1
Switch Screw (2) .......... MSSR-00540-1122
Switch Plate (16) .......... P. 137-5

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

41
SCORE MOTOR CAMS & SWITCHES

CAPT. FANTASTIC

CAM 1 .................. P-1365-537
Switch,
Top 2 .................. ASW-C3X-2
Next below ............. ASW-C3X-3
Next below ............. ASW-C2X-12
Bottom ................. ASW-C2X-3
Switch Screw (2) .... MSSR-0054-1108
CAM 2 .................. P-1365-577
Switch,
Top 2 .................. ASW-C1X-2
Bottom ................. ASW-C1X-1
Switch Screw (2) .... MSSR-0054-1120
CAM 3 .................. P-1365-564
Switch,
Top 2 .................. ASW-3X-2
Next 3 below .......... ASW-C1X-2
Bottom ................. ASW-C10-11
Switch Screw (2) .... MSSR-0054-1140
CAM 4 .................. P-1365-565
Switch,
Top .................... ASW-C2X-11
Next 2 below .......... ASW-C1X-2
Bottom ................. ASW-C1X-1
Switch Screw (2) .... MSSR-0054-1124
CAM 5 .................. P-1365-566
Switch,
Top 2 .................. ASW-C3X-2
Next below ............. ASW-C1X-2
Bottom ................. ASW-C1X-1
Switch Screw (2) .... MSSR-0054-1128
CAM 6 .................. P-1365-567
Switch,
Top 2 .................. ASW-C3X-2
Next below ............. ASW-C3X-3
Next below ............. ASW-C2X-11
Bottom ................. ASW-C1X-1
Switch Screw (2) .... MSSR-0054-1134
CAM 7 .................. P-1365-568
Switch,
Top .................... ASW-C3X-2
Next below ............. ASW-C3X-3
Next below ............. ASW-C2X-11
Bottom ................. ASW-C1X-1
Switch Screw (2) .... MSSR-0054-1126
CAM 8 .................. P-1365-569
Switch,
Top .................... ASW-C3X-3
Middle ................ ASW-C2X-12
Bottom ................. ASW-C2X
Switch Screw (2) .... MSSR-0054-1122
CAM 9 .................. P-1365-789
Switch ................ ASW-C1X-1
Switch Screw (2) .... MSSR-0054-1108
CAM 10 ................ P-1365-546
Switch,
Top .................... ASW-C2X-12
Bottom ................. ASW-C2X
Switch Screw (2) .... MSSR-0054-1114
CAM 11 ................ P-1365-574
Switch,
Top 2 .................. ASW-C1X-2
Bottom ................. ASW-C1X-15
Switch Screw (2) .... MSSR-0054-1120
Switch Plate (11) .... P-137-5

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
TRIP RELAYS, MOTORIZED
Typical Coil & Switch Assy.

PIVOT BRACKET P-6821

LATCH PLATE ASSY.
A-261-13

LATCH PLATE ASSY.
A-261-15 OR A-261-18
SEE PAGE 44

WHITE SPRING IS SP-115

RELAY BRACKET P-6822
(FOR 2 COILS)

RELAY BRACKET P-6822-1
(FOR 3 COILS)

RED SPRING IS SP-100-164

ARMATURE ASSY.
A-261-12

ARMATURE ASSY.
A-261-11

BRACKET & STUD ASSY.
SEE PAGE 44

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
TRIP RELAYS, MOTORIZED
Coil & Switch Assys.

Game to game variations in Coil & Switch Assy., Motorized Trip Relay, are described in this and following pages. Switching components are listed from Motor end and from top to bottom of related Relay.

EL TORO
As illustrated, page 43, with
Coil (9 used) .......... D-28-500
Latch Plate Assy.
ILLUSTRATED AT RIGHT
(9 used) ............ A-261-13
Sw & Bracket Assy.
Bracket & Stud Assy. .... A-3120-3
Switching components
Switch
LISTED BELOW
UNDER RELATED RELAYS
Switch Actuator
SEE PAGE 27
Switch Screw
LISTED BELOW
UNDER RELATED RELAYS
Switch Plate (10 used) . P-137-5
INDEX CAM
Switch,
Top ............... ASW-C2X-1
Middle ................ ASW-C1X-2
Bottom ............ ASW-BO
Switch Screw ........ MS-540-18-110
E RELAY
Switch,
Top ............... ASW-B-1
Middle ................ ASW-B-3
Bottom ......... ASW-B-20
Switch Screw ........ MS-540-28-110
L RELAY
Sw & Actuators same as in E RELAY
T RELAY
Switching same as in L RELAY
1ST O RELAY
Switch,
Top ............... ASW-B-1
Middle ................ ASW-B-3
Bottom ......... ASW-B-30
Switch Screw ........ MS-540-28-110
R RELAY
Switching same as in 1ST O RELAY
2ND O RELAY
Switching same as in E RELAY
EL TORO RELAY
Switch,
Top 4 ............... ASW-B-1
Bottom ................ ASW-B-20
Switch Screw ........ MS-540-40-110
TILT RELAY
Switch,
Top 2 ............... ASW-B-1
Bottom ................ ASW-B-20
Switch Screw ........ MS-540-34-110
GAME OVER RELAY
Switch,
Top ............... ASW-B-1
Next Below ............ ASW-B-3
Next 3 Below ......... ASW-B-20
Switch Screw ........ MS-540-40-110

MONTE CARLO
As illustrated, page 43, with
Coil (16 used) .......... C-28-500
Latch Plate Assy.
ILLUSTRATED AT RIGHT
(16 used) ............ A-261-13
Sw & Bracket Assy.
Bracket & Stud Assy. .... A-3120-31
Switching Components
Switch
LISTED BELOW
UNDER RELATED RELAYS
Switch Actuator
SEE PAGE 27
Switch Screw
LISTED BELOW
UNDER RELATED RELAYS
RESET INDEX CAM
Switch,
Top ............... ASW-C2X-1
Middle ................ ASW-C1X-5
Bottom ............ ASW-BO
Switch Screw (2) .. MS-540-18-110
1
Switch,
Top 3 ............... ASW-B-1
Bottom ................ ASW-B-3
Switch Screw (2) .. MS-540-40-110
3
5
7
9
2
4
6
8
10
Switching in each above Relay
same as in 1 RELAY
BONUS 6-10
3-switch bank
Switch (each of 3) ........ ASW-B-3
Switch Screw (2) .. MS-540-28-110
5-switch bank
Switch,
Top ............... ASW-B-1
Next 2 below ............ ASW-B-3
Bottom 2 .......... ASW-B-20
Switch Screw (2) .. MS-540-40-110
ALL ODDS
2-switch bank
Switch,
Top ............... ASW-B-1
Bottom ................ ASW-B-3
Switch Screw (2) .. MS-540-22-110
5-switch bank
Switch,
Top ............... ASW-B-1
Next Below ............ ASW-B-3
Bottom ................ ASW-B-20
Switch Screw (2) .. MS-540-40-110

CONTINUED
ON
NEXT PAGE

LATCH PLATE ASSY.
A-261-13

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

44
TRIP RELAYS, MOTORIZED
Coil & Switch Assys.

HI-LO ACE
As Illustrated page 43 with
Coil (17 used) ............... D-28-500
Latch Plate Assy.
(ILLUSTRATED, PAGE 44)
(17 used) ............... A-261-13
Switch & Bracket Assy.
Bracket & Stud Assy ....... A-3120-4
Switching components
Switch
LISTED BELOW
UNDER RELATED RELAYS
Switch Actuator
SEE PAGE 27
Switch Plate (20 used) ...... P-137-5
Switch Screw
LISTED BELOW
UNDER RELATED RELAYS
INDEX CAM
Switch,
Top .................. ASW-C2X-1
Middle ................ ASW-C1X-5
Bottom
(CAM FOLLOWER) ....... ASW-BO
Switch Screw .......... MSSR-00540-1118
1 (ACE)
Switch,
Top .................. ASW-B-1
Next 2 below ............ ASW-B-3
Bottom ................ ASW-B-20
Switch Screw .......... MSSR-00540-1134
2 (HIGH SPECIAL)
4-Switch Stack
Same as in 1 (ACE) Relay
5-Switch Stack
Switch,
Top 3 .................. ASW-B-1
Bottom 2 ................ ASW-B-20
Switch Screw .......... MSSR-00540-1140
3 (LOW SPECIAL)
Same as 2 (HIGH SPECIAL) Relay
4 (I)
Switch,
Top .................. ASW-B-1
Bottom 3 ................ ASW-B-3
Switch Screw .......... MSSR-00540-1134
5 (3)
Switch,
Top .................. ASW-B-1
Next 2 below .......... ASW-B-3
Bottom ................ ASW-B-20
Switch Screw .......... MSSR-00540-1134
6 (4)
7 (5)
8 (6)
9 (7)
10 (8)
Switching in each above five relays:
same as in 5 (3) Relay

HI-LO ACE
(CONTINUED)
11 (9)
Same as in 4 (2) Relay
12 (10)
13 (JACK)
14 (QUEEN)
15 (KING)
Switching in each above four Relays
Same as in 5 (3) Relay.
16 (GO)
Switch,
Top .................. ASW-B-1
Next Below ............... ASW-B-3
Bottom 3 ................ ASW-B-20
Switch Screw .......... MSSR-00540-1140
17 (100,000 POINT)
3-Switch Stack
Switch,
Top .................. ASW-B-1
Bottom 2 ................ ASW-B-20
Switch Screw .......... MSSR-00540-1128
4-Switch Stack
Switch,
Each of 4 ............... ASW-B-1
Switch Screw .......... MSSR-00540-1128

BON VOYAGE
RESET INDEX CAM
Switch,
Top .................. ASW-C2X-1
Middle ................ ASW-C1X-5
Bottom
(CAM FOLLOWER) ....... ASW-BO
Switch Screw (2) .... MSSR-00540-1122
CAM 1 (B)
Switch,
Top 2 .................. ASW-B-1
Next below ............... ASW-B-3
Bottom 2 ................ ASW-B-20
Switch Screw (2) .... MSSR-00540-1140
CAM 2 (O)
CAM 3 (N)
CAM 4 (V)
CAM 5 (O)
CAM 6 (Y)
CAM 7 (A)
CAM 8 (G)
CAM 9 (E)
Switching with above 8 Cams
is same as with CAM 1
CAM 10 (B-E)
Switch,
Top 3 .................. ASW-B-1
Bottom ................ ASW-B-20
Switch Screw (2) .... MSSR-00540-1134
CAM 11 (GAME OVER)
Switch,
Top .................. ASW-B-1
Next below ............... ASW-B-3
Bottom 3 ................ ASW-B-20
Switch Screw (2) .... MSSR-00540-1140

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

45
TRIP RELAYS, MOTORIZED
Typical Reset Assy.

E-119-362
SEE NOTE C
ROLL PIN IN MOTOR SHAFT (NOT VISIBLE)
P-1637-58
ROLL PIN P-1637-17

C-706-2 CAM WITH HOLE FOR P-1637-17 ROLL PIN
SHAFT SEE PAGE 48

C-706-1 CAM (SHORT) SHAFT SEE PAGE 48

C-706 CAM (LONG)
CAM & HUB ASSY. SEE PAGE 48

BEARING BRACKET P-6824 END PLATE ASSY. SEE PAGE 48
END PLATE ASSY. A-3095

P-2891-9 RETAINING RING
THUMB SCREW M-961 (2 USED)

C-537-11 NYLINDER
SPRING SP-464
NOT VISIBLE
S-1958 CLUTCH RACE

P-801-157 WASHER
P-801-524 WASHER
C-537-23 NYLINDER

CLUTCH PAWL ASSY. A-800-141

NOTE C
For areas requiring 50 cycles motor, Motor E-119-385 is used.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
47
TRIP RELAYS, MOTORIZED
Reset Assys.

EL TORO
As illustrated, page 47, with
Cam & Hub Assy ............ A-800-153
End Plate Assy,
(Remote from Motor) ... A-3095-3
Reset Cam (illustrated at right)
(9 used) ................. C-706
Shaft, Cam. ............... S-1961-9
Tie Bar .................. S-1962-9

MONTE CARLO
Same as in EL TORO, excepting
Reset Cam (illustrated at right)
(16 used) .............. C-706
(1 used) .............. C-706-4
(1 used) .............. C-706-5
Shaft, Cam ............. S-1961-16
Tie Bar (2 used) ........ S-1962-16

ODDS & EVENS
Same as in MONTE CARLO

HI-LO ACE
As illustrated, page 47, with
Cam & Hub Assy ............ A-800-153
End Plate Assy,
(Remote from Motor) ... A-3095-3
Reset Cam (illustrated at right)
(16 used) .............. C-706
(1 used) (ADAPTER) .... C-706-4
(1 used) .............. C-706-5
Shaft, Cam ............. S-1961-17
Tie Bar (2 used) ........ S-1962-17

BON VOYAGE
As illustrated, page 47, with
Cam & Hub Assy ............ A-800-153
End Plate Assy,
(Remote from Motor End) A-3095-3
Reset Cam (illustrated at right)
(10 used) .............. C-706
(1 used) (ADAPTER) ... C-706-4
(1 used) .............. C-706-5
Shaft, Cam ............. S-1961-11
Tie Rod (2) ............ S-1962-11

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

48
"G" TYPE RELAYS
"G" Type Interlock Relays shown on page 87

SWITCH ACTUATOR
SEE PAGE 27

ARMATURE
SEE PAGE 50

SPRING
SEE TABLE BELOW

SPRING RETAINER
BRACKET
SEE PAGE 50

FRAME
SEE PAGE 50

EYELET
GROMMET
SEE PAGE 50

SWITCHING
SEE PAGE 50

SWITCH BASE
SEPARATOR
SEE NOTE BELOW

COIL
PART NUMBER
MARKED ON WRAPPER

SWITCH BASE SEPARATORS
Switch Base Separators, used only as required, are 9/16 in.
by 5/16 in. with 2 holes for switch screw.
1/32 in. thick (approximately) . . . SMB-1
1/16 in. thick (approximately) . . . SMB-2

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<thead>
<tr>
<th>SPRING TABLE</th>
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<tr>
<td>Red</td>
<td>SP-199-29</td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>SP-199-30</td>
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</table>

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
"G" TYPE RELAYS

KEY TO SWITCH LISTING
Switches are listed below in numerical order, commencing with Switch Plate end of each switch-stack.
When 2 switch-stacks are used, stack nearest to Relay Mounting Board is Stack A. Second stack is Stack B.

FASTENERS
Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Relay, (c) part fastener secures.

SKYROCKET

Single Relays
(Back Cabinet Insert)
GAME OVER ............ AS-2651-2
Interlock Relay: see page 88

(Mounting Board)
2ND COIN ............. AS-2651-1
Interlock Relay: see page 88

(Playfield Panel)
FREE BALL GATE
& RELAY ASY ........... AS-2308-12
Bracket .................. P-6015-1
Relay Assy ............. AS-2656-1
As illustrated, page 49,
with variable components
listed below
Armature............... A-3509
Frame ................... P-7472
Spring Retainer ........ P-7491
Switch,
1st .................... ASW-R1-1
2nd ..................... ASW-R1-3
3rd ..................... ASW-R2-1
Switch Plate ........... P-137-12
OPEN BOTTOM GATE
& AS-2659-1
As illustrated, page 49,
with variable components listed below
Armature ................. P-7469
Frame ................... P-7472-1
Spring Retainer ........ P-7491
Switch,
1st .................... ASW-R1X-1
2nd ..................... ASW-R1X-3
3rd ..................... ASW-R1X-1
Switch Plate ........... P-137-14

SKYROCKET

6 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
LEFT RED THUMPER BUMPER
Armature ................. P-7469
Frame ................... P-7472-1
Spring Retainer ........ P-7491
Switch,
1st .................... ASW-R1-4
2nd ..................... ASW-R1X-1
3rd ..................... ASW-R1-1
BLUE THUMPER BUMPER
Same as
LEFT RED THUMPER BUMPER
RIGHT RED THUMPER BUMPER
Same as
LEFT RED THUMPER BUMPER
RED THUMPER BUMPER LIGHT
Same as
LEFT RED THUMPER BUMPER
EXCEPT
Switch,
1st .................... ASW-R3-1
2nd ..................... ASW-R1-3
3rd ..................... ASW-R1-1
BLUE THUMPER BUMPER LIGHT
Same as
RED THUMPER BUMPER LIGHT
POST
Same as
LEFT RED THUMPER BUMPER
except
Switch,
1st .................... ASW-R2-1
2nd ..................... ASW-R1X-1
3rd ..................... ASW-R1-1
Switch Plate (6) ........ P-137-14

17 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
OPEN TOP GATE
Armature ................. P-7469
Frame ................... P-7472-1
Spring Retainer ........ P-7491
Switch,
1st, 2nd ................ ASW-R1-4
3rd ..................... ASW-R1-1
3000 POINTS
Same as OPEN TOP GATE, except
Switch,
1st .................... ASW-R2-1
2nd, 3rd ................ ASW-R1-3
4th ..................... ASW-R1-1
SKYROCKET TARGET
Same as OPEN TOP GATE, except
Switch,
1st, 2nd ................ ASW-R1-3
3rd ..................... ASW-R1-1

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

50
SKY ROCKET

17 Bank (CONTINUED)

SKY ROCKET MOTOR

Same as OPEN TOP GATE, except

Switch,
1st .................................. ASW-R2-1
2nd .................................. ASW-R1X-1
3rd .................................. ASW-R1-1

SKY ROCKET SCORE

Same as OPEN TOP GATE, except

Switch,

Stack A,
1st .................................. ASW-R2-1
2nd, 3rd, 4th ........................ ASW-R1-3

Stack B .................................. ASW-R1-1

LEFT EJECT HOLE

Same as OPEN TOP GATE, except

Switch,
1st, 2nd, 3rd ........................ ASW-R1-3
4th .................................. ASW-R1-1

RIGHT EJECT HOLE

Same as LEFT EJECT HOLE

BALL INDEX

Same as SKY ROCKET SCORE

EXTRA BALL

Same as 3000 POINT

OUT-HOLE

Same as OPEN TOP GATE, except

Switch,

Stack A,
1st .................................. ASW-R2-1
2nd .................................. ASW-R2-1
3rd, 4th ............................... ASW-R1-3

Stack B .................................. ASW-R1-3

TILT

Same as OPEN TOP GATE, except

Switch,

Stack A,
1st .................................. ASW-R2-1
2nd .................................. ASW-R2-1
3rd, 4th ............................... ASW-R1-1

Stack B .................................. ASW-R1-1

RESET

Same as OPEN TOP GATE, except

Switch,

Stack A,
1st .................................. ASW-R2-1
2nd .................................. ASW-R2-1
3rd, 4th ............................... ASW-R1-3

Stack B .................................. ASW-R1-1

CREDIT

Same as OPEN TOP GATE

3RD COIN CHUTE

Armature .................................. P-7492
Eevet (2) .................................. M-122-19
Frame .................................. P-7472-2
Grommet (2) ............................. R-111-29
Switch,
1st, 2nd, 3rd ........................ ASW-R1-3
4th .................................. ASW-R1-1

2ND COIN CHUTE

Same as 3RD COIN CHUTE

COIN

Same as 2ND COIN CHUTE, except

Switch,

Stack A,
1st, 2nd, 3rd, 4th ........................ ASW-R1-3

Stack B .................................. ASW-R1-1

SKY ROCKET

17 Bank (CONTINUED)

LOCK

Same as OPEN TOP GATE, except

Switch,
1st .................................. ASW-R2-1
2nd, 3rd, 4th ........................ ASW-R1-3
4th .................................. ASW-R1-1

Switch Plate (23) .................. P-137-14

FOUR MILLION B.C.

Single Relays

(Mounting Board)

GAME OVER .......................... AS-2651-1
Interlock Relay: see page 88

(Playfield Panel)

GATE BRACKET & RELAY ASSY ........ AS-2308-13
Bracket .................................. P-6015-1
Relay .................................. AS-2666-2
As illustrated, page 49,
with variable components
listed below
Armature .................................. A-2501
Frame .................................. P-7572-1
Spring Retainer .................. P-7491
Switch,
1st .................................. ASW-R3-1
2nd, 3rd ............................... ASW-R2-1
4th .................................. ASW-R1-3

Switch Plate .......................... P-137-14

OPEN GATE

As illustrated, page 49,
with variable components listed below
Armature .................................. P-7491
Frame .................................. P-7572-1
Spring Retainer .................. P-7491
Switch,
1st .................................. ASW-R3-1
2nd, 3rd ............................... ASW-R2-1
4th .................................. ASW-R1-3

Switch Plate .......................... P-137-14

4 Bank (Playfield Panel)

Relays as illustrated, page 49,
with variable components listed below
RAMP BLUE .................................. AS-2659-182
Armature .................................. P-7492
Frame .................................. P-7572-1
Spring Retainer .................. P-7491
Switch,
1st .................................. ASW-R3-1
2nd, 3rd ............................... ASW-R2-1
4th .................................. ASW-R1-3

RAMP RED

Same as RAMP BLUE, except
Switch,
1st, 2nd ............................... ASW-R1-1

RAMP GREEN

Same as RAMP BLUE, except
Switch,
1st .................................. ASW-R3-1
2nd, 3rd ............................... ASW-R1-3

OPEN FLIPPER TARGET

Same as CLOSE FLIPPER TARGET, except
Switch,
1st .................................. ASW-R2-1
2nd, 3rd ............................... ASW-R1-3
4th .................................. ASW-R1-1

ADVANCE BALL

Same as CLOSE FLIPPER TARGET, except
Switch,
1st .................................. ASW-R1-4
2nd, 3rd, 4th ........................ ASW-R1-3
5th .................................. ASW-R1-1

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

5 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below

10 POINT

Armature .................................. P-7491
Eyelet (2) .................................. M-122-19
Frame .................................. P-7572-1
Grommet (2) ............................. R-111-29
Spring Retainer .................. P-7491

Switch,
1st, 2nd, 3rd ........................ ASW-R1-3
4th .................................. ASW-R1-1

100 POINT

Same as 10 POINT, except
Switch,

Stack A,
1st .................................. ASW-R2-1
2nd .................................. ASW-R1-1

1000 POINT

Same as 100 POINT; except
Switch,

Stack A,
1st .................................. ASW-R1-1
2nd .................................. ASW-R1-2

NO. 1 SCORE RESET

Armature .................................. P-7491
Frame .................................. P-7572-1
Spring Retainer .................. P-7491
Switch,
1st .................................. ASW-R1-3
2nd .................................. ASW-R1-2

NO. 2 SCORE RESET

Same as NO. 1 SCORE RESET
Switch Plate (10) .................. P-137-14

5 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

TAR PIT ............... AS-2561-1

Interlock Relay: see page 88

CLOSE FLIPPER TARGET

Armature .................................. P-7491
Frame .................................. P-7572-2
Spring Retainer .................. P-7491
Switch,
1st .................................. ASW-R2-1
2nd, 3rd ............................... ASW-R1-3
4th .................................. ASW-R1-1

OPEN FLIPPER TARGET

Same as CLOSE FLIPPER TARGET, except
Switch,
1st .................................. ASW-R1-3
2nd, 3rd, 4th ........................ ASW-R1-3
5th .................................. ASW-R1-1

51
"G" TYPE RELAYS

FOUR MILLION B.C.

5 Bank (Mounting Board)
(CONTINUED FROM PAGE 51)
ERUPT VOLCANO
Same as CLOSE FLIPPER TARGET, except
Switch,
1st .......................... ASW-R2-1
2nd, 3rd .......................... ASW-R1-4
4th .......................... ASW-R1X-1
5th .......................... ASW-R1-3
6th .......................... ASW-R1-1
Switch Plate (5) .......................... P-137-14

6 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
BLUE THUMPER BUMPER
Armature .......................... P-7469
Frame .......................... P-7472-1
Spring Retainer .......................... P-7491
Switch,
1st .......................... ASW-R1-4
2nd .......................... ASW-R1X-1
3rd .......................... ASW-R1-1
GREEN THUMPER BUMPER
Same as BLUE THUMPER BUMPER
RED THUMPER BUMPER
Same as BLUE THUMPER BUMPER
BLUE THUMPER BUMPER LIGHT
Same as BLUE THUMPER BUMPER, except
Switch,
1st .......................... ASW-R3-1
2nd .......................... ASW-R1-3
3rd .......................... ASW-R1-5
GREEN THUMPER BUMPER LIGHT
Same as
BLUE THUMPER BUMPER LIGHT
RED THUMPER BUMPER LIGHT
Same as
BLUE THUMPER BUMPER LIGHT
Switch Plate (6) .......................... P-137-14

15 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
VOLCANO EJECT
Armature .......................... P-7469
Frame .......................... P-7472-1
Spring Retainer .......................... P-7491
Switch,
1st, 2nd .......................... ASW-R1-1
3rd, 4th, 5th .......................... ASW-R1-3
6th .......................... ASW-R1-1
VOLCANO HOLE
Same as VOLCANO EJECT, except
Switch,
Stack A
1st, 2nd, 3rd, 4th .......................... ASW-R1-3
Stack B
1st .......................... ASW-R1X-1
2nd .......................... ASW-R1-3
3rd .......................... ASW-R1-5
CLOSE FLIPPER
Same as VOLCANO EJECT, except
Switch,
1st .......................... ASW-R2-1-7
2nd .......................... ASW-R1-3
3rd .......................... ASW-R1-5

15 Bank (Continued)
BALL RELEASE
Same as VOLCANO EJECT, except
Switch,
1st, 2nd, 3rd .......................... ASW-R1-3
4th .......................... ASW-R1-1
BALL INDEX
Same as VOLCANO EJECT, except
Switch,
1st .......................... ASW-R2-1
2nd .......................... ASW-R1-3
3rd .......................... ASW-R1-5
OUTHOLE
Same as VOLCANO EJECT, except
Switch,
1st .......................... ASW-R3-1
2nd, 3rd, 4th .......................... ASW-R1-3
5th .......................... ASW-R1-1
3rd BALL
Same as VOLCANO EJECT, except
Switch,
1st .......................... ASW-R2-1
2nd .......................... ASW-R1-3
3rd, 4th .......................... ASW-R1-3
5th .......................... ASW-R1-5
RESET
Same as VOLCANO EJECT, except
Switch,
Stack A
1st .......................... ASW-R3-1
2nd, 3rd .......................... ASW-R2-1
4th .......................... ASW-R1-3
Stack B
1st, 2nd .......................... ASW-R1-3
3rd .......................... ASW-R1-1
PLAYER RESET
Same as VOLCANO EJECT, except
Switch,
1st .......................... ASW-R3-1
2nd, 3rd .......................... ASW-R2-1
4th .......................... ASW-R1-3
5th .......................... ASW-R1-1
3RD COIN CHUTE
Armature .......................... P-7469
Eyelet (2) .......................... M-122-19
Frame .......................... P-7472-2
Grommet (2) .......................... R-111-29
Spring Retainer .......................... P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th .......................... ASW-R1-3
Stack B
1st .......................... ASW-R1-3
2nd .......................... ASW-R1-1
2ND COIN CHUTE
Same as 3RD COIN CHUTE, except
Switch,
1st, 2nd, 3rd .......................... ASW-R1-3
4th .......................... ASW-R1-1

FOUR MILLION B.C.

15 Bank (Continued)
COIN
Same as 3RD COIN CHUTE, except
Switch,
Stack A
1st, 2nd, 3rd, 4th .......................... ASW-R1-3
Stack B
1st .......................... ASW-R1-3
3rd .......................... ASW-R1-1
LOCK
Same as VOLCANO EJECT, except
Switch,
1st .......................... ASW-R2-1
2nd, 3rd .......................... ASW-R1-3
4th .......................... ASW-R1-5
Switch Plate (19) .......................... P-137-14

EXPRESSWAY

Single Relays (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
ADVANCE BONUS HOLE .......................... AS-2661-1
Armature .......................... P-7469
Frame .......................... P-7472-1
Spring Retainer .......................... P-7491
Switch,
1st .......................... ASW-R2-1
2nd, 3rd, 4th, 5th .......................... ASW-R1-3
6th .......................... ASW-R1-1
Switch Plate .......................... P-137-14
EXTRA BALL .......................... AS-2659-49
Same as ADVANCE BONUS HOLE, except
Switch,
1st .......................... ASW-R2-1
2nd .......................... ASW-R1-3
3rd .......................... ASW-R1-5
Switch Plate .......................... P-137-14

4 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below
10 POINT
Armature .......................... P-7469
Eyelet (2) .......................... M-122-19
Frame .......................... P-7472-2
Grommet (2) .......................... R-111-29
Spring Retainer .......................... P-7491
Switch,
Stack A
1st .......................... ASW-R1-4
3rd .......................... ASW-R1-1
2nd, 3rd .......................... ASW-R1X-1
4th .......................... ASW-R1-3
Stack B
1st .......................... ASW-R1-1

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
### EXPRESSWAY

#### 4 Bank (Back Cabinet Insert)
*(CONTINUED FROM PAGE 52)*

<table>
<thead>
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<th>Point</th>
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<td>Same as 10 POINT, except</td>
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<tr>
<td></td>
<td>Stack A</td>
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</tr>
<tr>
<td></td>
<td>1st, 2nd, 3rd</td>
<td>ASW-R1X-1</td>
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<td>4th</td>
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<td>1000</td>
<td>Same as 10 POINT, except</td>
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<tr>
<td></td>
<td>Stack B</td>
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</tr>
<tr>
<td></td>
<td>1st</td>
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<td>2nd</td>
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<td>Frame</td>
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<td>Spring Retainer</td>
<td>P-7491</td>
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<tr>
<td></td>
<td>Switch</td>
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</tr>
<tr>
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<td>1st, 2nd, 3rd, 4th</td>
<td>ASW-R1X-1</td>
</tr>
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<td>Switch Plate (7)</td>
<td>P-137-14</td>
</tr>
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</table>

#### 4 Bank (Playfield Panel)

Relays as illustrated, page 49, with variable components listed below:

- LEFT THUMPER BUMPER
  - Armature: P-7469
  - Frame: P-7472-1
  - Spring Retainer: P-7491
- Switch, 1st, 2nd, 3rd, 4th: ASW-R1X-1
- Switch Plate (4): P-137-14

#### 11 Bank (Mounting Board)

Relays as illustrated, page 49, with variable components listed below:

- 1ST E MUSHROOM BUMPER
  - Armature: P-7469
  - Frame: P-7472-1
  - Spring Retainer: P-7491
- Switch, 1st, 2nd, 3rd: ASW-R1:4
- X MUSHROOM BUMPER
- P MUSHROOM BUMPER
- R TARGET
- 2ND B TARGET
- 1ST S TARGET
- 2ND S TARGET

#### 14 Bank (CONTINUED)

Relays as illustrated, page 49, with variable components listed below:

- 3RD COIN CHUTE
  - Armature: P-7469
  - Eyerlet (2): M-122-19
  - Frame: P-7472-2
  - Grommet (2): R-111-29
  - Spring Retainer: P-7491
- Switch, 1st, 2nd, 3rd: ASW-R1:3
- Stack A
  - 1st, 2nd, 3rd: ASW-R1-3

### EXPRESSWAY

#### 14 Bank (CONTINUED)

Relays as illustrated, page 49, with variable components listed below:

- 3RD COIN CHUTE
  - Armature: P-7469
  - Eyerlet (2): M-122-19
  - Frame: P-7472-2
  - Grommet (2): R-111-29
  - Spring Retainer: P-7491
- Switch, 1st, 2nd, 3rd: ASW-R1:3
- Stack A
  - 1st, 2nd, 3rd: ASW-R1-3

### SEA RAY

#### Single Relays
*(Back Cabinet Insert)*

- **PLAYER**: AS-2659-57
- As illustrated, page 49, with variable components listed below:
  - Armature: P-7469
  - Eyerlet: P-7472-1
  - Spring Retainer: P-7491
  - Switch, 1st, 2nd, 3rd, 4th: ASW-R3:1
  - Switch Plate: AS-2651-2
- Interlock Relay: see page 88

#### 5 Bank (Back Cabinet Insert)

Relays as illustrated, page 49, with variable components listed below:

- 10 POINT
  - Armature: P-7469
  - Eyerlet (2): M-122-19
  - Frame: P-7472-2
  - Grommet (2): R-111-29
  - Spring Retainer: P-7491
  - Switch, Stack A
    - 1st, 2nd, 3rd: ASW-R1:4
- Interlock Relay: see page 88

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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

53
"G" TYPE RELAYS

SEA RAY

5 Bank (CONTINUED)
100 POINT
Same as 10 POINT
1000 POINT
Same as 10 POINT, except
Switch,
  Stack A
    1st, 2nd, 3rd . . . . . . ASW-R1X-1
    4th . . . . . . ASW-R1-3
  Stack B
    1st . . . . . . ASW-R1X-1
    2nd . . . . . . ASW-R1-1
SCORES RESET
Armature . . . . . . . . P-7469
Frame . . . . . . . . . . . P-7472-1
Spring Retainer . . . . P-7491
Switch,
  Stack A
    1st, 2nd, 3rd, 4th . . . . . . ASW-R1X-1
  Stack B
    Same as Stack A
PLAYER
Same as SCORES RESET, except
Switch,
  1st, 2nd, 3rd . . . . . . ASW-R3-1
  4th . . . . . . ASW-R1-5
Switch Plate (9) . . . . . . P-137-14

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
LEFT ALLEY
Armature . . . . . . . . P-7469
Frame . . . . . . . . . . . P-7472-1
Spring Retainer . . . . P-7491
Switch,
  1st, 2nd, 3rd, 4th, 5th . . . ASW-R1-3
UP POST
Same as LEFT ALLEY, except
Switch,
  1st, 2nd . . . . . . ASW-R2-1
ADVANCE BONUS
Same as LEFT ALLEY, except
Switch,
  1st . . . . . . ASW-R1-4
  2nd . . . . . . ASW-R1X-1
  3rd . . . . . . ASW-R1-1
UP POST MUSHROOM BUMPER
Same as LEFT ALLEY, except
Switch,
  1st, 2nd . . . . . . ASW-R2-1
  3rd, 4th . . . . . . ASW-R1-1
  5th . . . . . . ASW-R1-1
EXTRA BALL TARGET
Same as LEFT ALLEY, except
Switch,
  1st, 2nd . . . . . . ASW-R1X-1
  3rd . . . . . . ASW-R1-1
GATE TARGET
Same as LEFT ALLEY, except
Switch,
  1st . . . . . . ASW-R1X-1
  2nd . . . . . . ASW-R1-4
  3rd . . . . . . ASW-R1-1
Switch Plate (6) . . . . . . P-137-14

SEA RAY

6 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
LEFT BLUE THUMPER BUMPER
Armature . . . . . . . . P-7569
Frame . . . . . . . . . . . P-7472-1
Spring Retainer . . . . P-7491
Switch,
  1st . . . . . . ASW-R1-4
  2nd . . . . . . ASW-R1X-1
  3rd . . . . . . ASW-R1-1
RED THUMPER BUMPER
Same as LEFT BLUE THUMPER BUMPER
RIGHT BLUE THUMPER BUMPER
Same as LEFT BLUE THUMPER BUMPER
BLUE THUMPER BUMPER LIGHT
Same as LEFT BLUE THUMPER BUMPER
except
Switch,
  1st . . . . . . ASW-R3-1
  2nd . . . . . . ASW-R1-3
  3rd . . . . . . ASW-R1-5
THUMPER BUMPER LIGHT
Same as BLUE THUMPER BUMPER LIGHT
POS T
Same as LEFT BLUE THUMPER BUMPER, except
Switch,
  1st . . . . . . ASW-R2-1
  2nd . . . . . . ASW-R1X-1
  3rd . . . . . . ASW-R1-5
Switch Plate (6) . . . . . . P-137-14

SEA RAY

14 Bank (CONTINUED)
OUT HOLE
Same as TOP HOLE
TILT
Same as TOP HOLE, except
Switch,
  1st . . . . . . ASW-R3-1
  2nd . . . . . . ASW-R2-1
  3rd, 4th . . . . . . ASW-R1-3
  5th . . . . . . ASW-R1-5
RESET
Same as TOP HOLE, except
Switch,
  1st . . . . . . ASW-R3-1
  2nd, 3rd . . . . . . ASW-R2-1
  4th . . . . . . ASW-R1-3
  5th . . . . . . ASW-R1-1
CREDIT
Same as TOP HOLE, except
Switch,
  1st, 2nd . . . . . . ASW-R1-4
  3rd . . . . . . ASW-R1-1
3RD COIN CHUTE
Armature . . . . . . . . P-7469
Eyelet (2) . . . . . . . M-122-19
Frame . . . . . . . . . . . P-7472-2
Grommet (2) . . . . . . . R-111-29
Spring Retainer . . . . P-7491
Switch,
  1st, 2nd, 3rd . . . . . . ASW-R1-3
  4th . . . . . . ASW-R1-1
2ND COIN CHUTE
Same as 3RD COIN CHUTE
COIN
Same as 3RD COIN CHUTE, except
Switch,
  1st . . . . . . ASW-R1-3
  2nd . . . . . . ASW-R1-1
LOCK
Same as TOP HOLE, except
Switch,
  1st . . . . . . ASW-R2-1
  2nd, 3rd . . . . . . ASW-R1-3-7
  4th . . . . . . ASW-R1-5
Switch Plate (15) . . . . . . P-137-14

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

54
"G" TYPE RELAYS

MARINER

Single Relay (Mounting Board)
GAME OVER ................ AS 2651
Interlock Relay: see page 88

5 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below

10 POINT
Armature ................ P-7469
Eyelet (2) ................ M-122-19
Frame ................ P-7472-2
Grommet (2) .......... R-111-29
Spring Retainer ........ P-7491
Switch,
Stack A
1st 2nd, 3rd, 4th ASW-R1-4
2nd, 3rd, 4th ASW-R1X-1

Stack B ASW-R1-1

100 POINT
Same as 10 POINT
1000 POINT
Same as 10 POINT, except
Switch,
Stack A
1st, 2nd, 3rd ASW-R1X-1
4th ASW-R1-3

Stack B
1st ASW-R1X-1
2nd ASW-R1-1

NO 1 SCORE RESET
Armature ................ P-7469
Frame ................ P-7472-1
Spring Retainer ........ P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th ASW-R1X-1

Stack B
Same as Stack A

NO 2 SCORE RESET
Same as NO. 1 SCORE RESET
Switch Plate (10) ........ P-137-14

6 Bank (Playfield Panel)
Same as 6 Bank (Playfield Panel)
SEA RAY, page 54

7 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

LEFT ALLEY
Armature ................ P-7469
Frame ................ P-7472-1
Spring Retainer ........ P-7491
Switch,
1st, 2nd, 3rd, 4th, 5th . ASW-R1-3

UP POST
Same as LEFT ALLEY, except
Switch,
1st, 2nd ASW-R2-1
ADVANCE BONUS
Same as LEFT ALLEY, except
Switch,
1st ASW-R1-4
2nd ASW-R1X-1
3rd ASW-R1-1

MARINER

14 Bank (CONTINUED)
TILT
Same as TOP HOLE, except
Switch,
1st ASW-R2-1
2nd ASW-R2-1
3rd ASW-R1-3
4th ASW-R1-1

CREDIT
Same as TOP HOLE, except
Switch,
1st ASW-R2-1
2nd ASW-R1-3
3rd ASW-R1-1

3RD COIN SWITCH
Armature ................ P-7469
Eyelet (2) ................ M-122-19
Frame ................ P-7472-2
Grommet (2) .......... R-111-29
Spring Retainer ........ P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th ASW-R1X-1

Stack B
Same as Stack A

NO 2 SCORE RESET
Same as NO. 1 SCORE RESET
Switch Plate (10) ........ P-137-14

SMALL INDEX
Same as TOP HOLE, except
Switch,
1st ASW-R2-1
2nd ASW-R1X-1
3rd ASW-R1-3

RIGHT ALLEY
Same as TOP HOLE
OUT HOLE
Same as TOP HOLE, except
Switch,
1st, 2nd ASW-R2-1
3rd, 4th ASW-R1-1

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

55
“G” TYPE RELAYS

FIREBALL

Single Relays (Mounting Board)
GAME OVER.............. AS-2651
Interlock Relay: see page 88
TARGET.............. AS-2660-8
As illustrated, page 49,
with variable components listed below
Armature.............. P-7469
Frame.............. P-7472-1
Spring Retainer.............. P-7491
Switch,
1st.................. ASW-R1X-1
2nd, 3rd, 4th, 5th.............. ASW-R1-4
5th.................. ASW-R1-1
Switch Plate.............. P-137-14

5 Bank (Back Cabinet Insert)
Same as 5 Bank (Back Cabinet Insert)
MARINE, page 55

7 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
WOTAN
Armature.............. P-7469
Frame.............. P-7472-1
Spring Retainer.............. P-7491
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-3
ODIN
Same as WOTAN, except
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-3
WOTAN EJECT
Same as WOTAN, except
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-3
ODIN EJECT
Same as WOTAN, except
Switch,
Stack A
1st, 2nd.............. ASW-R2-1
3rd, 4th.............. ASW-R1-3
Stock B
1st.............. ASW-R2-1
2nd.............. ASW-R1-3
3rd.............. ASW-R1-1
WOTAN MUSHROOM BUMPER
Same as WOTAN, except
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-4
Center MUSHROOM BUMPER
Same as WOTAN, except
Switch,
1st, 2nd, 3rd, 4th, 5th.............. ASW-R1-4
ODIN MUSHROOM BUMPER
Same as WOTAN MUSHROOM BUMPER
Switch Plate (B).............. P-137-14

FIREBALL

7 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
LIGHT YELLOW THUMPER BUMPER
Armature.............. P-7469
Frame.............. P-7472-1
Spring Retainer.............. P-7491
Switch,
1st.................. ASW-R3-1
2nd.................. ASW-R1-3
3rd.................. ASW-R1-5
LIGHT NO. 3 ROLLER
Same as LIGHT YELLOW THUMPER BUMPER, except
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-3
ODIN
Same as WOTAN, except
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-3
WOTAN EJECT
Same as WOTAN, except
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-3
ODIN EJECT
Same as WOTAN, except
Switch,
Stack A
1st, 2nd.............. ASW-R2-1
3rd, 4th.............. ASW-R1-3
Stock B
1st.............. ASW-R2-1
2nd.............. ASW-R1-3
3rd.............. ASW-R1-1
WOTAN MUSHROOM BUMPER
Same as WOTAN, except
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-4
Center MUSHROOM BUMPER
Same as WOTAN, except
Switch,
1st, 2nd, 3rd, 4th, 5th.............. ASW-R1-4
ODIN MUSHROOM BUMPER
Same as WOTAN MUSHROOM BUMPER
Switch Plate (B).............. P-137-14

15 Bank (CONTINUED)
LOCK
Same as CREDIT, except
Switch,
1st.................. ASW-R2-1
2nd, 3rd.................. ASW-R1-3-7
4th.................. ASW-R1-5
RESET
Same as CREDIT, except
Switch,
1st.................. ASW-R3-1
2nd.................. ASW-R2-1-7
3rd.................. ASW-R2-1
4th, 5th.................. ASW-R1-3
6th.................. ASW-R1-1
OUT HOLE
Same as CREDIT, except
Switch,
1st.................. ASW-R3-1
2nd, 3rd.................. ASW-R1-3
4th.................. ASW-R1-1
BALL INDEX
Same as CREDIT, except
Switch,
1st.................. ASW-R1-3
2nd.................. ASW-R1-5
TILT
Same as CREDIT, except
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-3
3RD BALL
Same as CREDIT, except
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-3
BALL RELEASE
Same as CREDIT, except
Switch,
1st.................. ASW-R2-1
2nd, 3rd, 4th, 5th, 6th, 7th.............. ASW-R1-3
PLAYER RESET
Same as CREDIT, except
Switch,
1st.................. ASW-R3-1
2nd, 3rd.................. ASW-R2-1
4th.................. ASW-R1-3
5th.................. ASW-R1-1

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ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
“G” TYPE RELAYS

FIREBALL

15 Bank (CONTINUED)
OPEN FLIPPERS
Same as CREDIT, except Switch,
1st ........................ ASW-R1-3
2nd ........................ ASW-R1-1
EXIT ALLEY
Same as CREDIT, except Switch,
1st ........................ ASW-R2-1
2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-1
ON KICKER
Same as CREDIT, except Switch,
1st, 2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-1
Switch Plate (17) ................. P.137-14

EL TORO

4 Bank (Playfield Panel)
Relays as illustrated, page 49, with variable components listed below

10 POINT
Armature .................. P.7469
Eyelet (2) .................. M.122-19
Frame ..................... P.7472-2
Grommet (2) ............... R.111-29
Spring Retainer ........... P.7491

Stack A
1st ........................ ASW-R1-4
2nd, 3rd ................... ASW-R1X-1
4th ........................ ASW-R1-3

Stack B
1st ........................ ASW-R1X-1
2nd ........................ ASW-R1-1

100 POINT
Same as 10 POINT, except Switch,
Stack B .................... ASW-R1

1000 POINT
Same as 10 POINT, except Switch,
Stack A
1st, 2nd, 3rd, 4th .......... ASW-R1X-1
4th ........................ ASW-R1-3

SCORE RESET
Armature .................. P.7469
Frame ..................... P.7472-1
Spring Retainer ........... P.7491
Switch,
1st, 2nd, 3rd, 4th ............ ASW-R1X-1
Switch Plate (7) ............... P.137-14

EL TORO

4 Bank (Playfield Panel)
Relays as illustrated, page 49, with variable components listed below

LEFT GREEN THUMPER BUMPER
Armature .................. P.7469
Frame ..................... P.7472-1
Spring Retainer ........... P.7491
Switch,
1st ........................ ASW-R1-4
2nd ........................ ASW-R1X-1
3rd ........................ ASW-R1-1

YELLOW THUMPER BUMPER
Same as LEFT GREEN THUMPER BUMPER
GREEN THUMPER BUMPER
Same as LEFT GREEN THUMPER BUMPER
GREEN THUMPER BUMPER
LIGHT
Same as LEFT GREEN THUMPER BUMPER

Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-5
Switch Plate (4) ................. P.137-14

15 Bank (Mounting Board)
Relays as illustrated, page 49, with variable components listed below

EXTRA BALL
Armature .................. P.7469
Frame ..................... P.7472-1
Spring Retainer ........... P.7491
Switch,
1st, 2nd .................... ASW-R2-1
3rd ........................ ASW-R1-3
4th ........................ ASW-R1-1
NO. 3 ROLLOVER LIGHT
Same as EXTRA BALL, except
Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-6
NO. 2 ROLLOVER LIGHT
Same as NO. 3 ROLLOVER LIGHT
NO. 1 ROLLOVER LIGHT
Same as NO. 3 ROLLOVER LIGHT
NO. 3 MUSHROOM BUMPER
Same as EXTRA BALL, except
Switch,
1st, 2nd .................... ASW-R1-4
3rd ........................ ASW-R1-1
NO. 2 MUSHROOM BUMPER
Same as NO. 3 MUSHROOM BUMPER
NO. 1 MUSHROOM BUMPER
Same as NO. 3 MUSHROOM BUMPER
BALL INDEX
Same as EXTRA BALL, except
Switch,
1st, 2nd .................... ASW-R1-3
3rd ........................ ASW-R1-5
OUTHOLE
Same as EXTRA BALL, except
Switch,
1st, 2nd .................... ASW-R2-1
3rd, 4th, 5th ............... ASW-R1-3
6th ........................ ASW-R1-1

3RD COIN CHUTE
Armature .................. P.7469
Eyelet (2) .................. M.122-19
Frame ..................... P.7472-2
Grommet (2) ............... R.111-29
Spring Retainer ........... P.7491
Switch,
Same as CREDIT, except
2ND COIN CHUTE
Same as 3RD COIN CHUTE

COIN
Same as 3RD COIN CHUTE, except
Switch,
Stack A
1st, 2nd, 3rd, 4th ............ ASW-R1-3
Stack B
1st ........................ ASW-R1-3
2nd ........................ ASW-R1-1
LOCK
Same as EXTRA BALL, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd .................... ASW-R1-3
4th ........................ ASW-R1-5
Switch Plate (16) ............... P.137-14

LITTLE JOE

Single Relays (Mounting Board)
Relays as illustrated, page 49, with variable components listed below

DELAY ..................... AS.2716
Lamp ..................... E.126-44
Lamp Socket ............... E.120-43
Lockwasher ................. M.1700-5
Relay ..................... AS.2659-110
Armature .................. P.7469
Frame ..................... P.7472-1
Spring Retainer ........... P.7491
Switch,
1st ........................ ASW-R2-1
2nd ........................ ASW-R1-1
Switch Plate ............... P.137-14
GAME OVER .................. AS.2651-18
Interlock Relay: see page 88

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
“G” TYPE RELAYS

LITTLE JOE

Single Relays (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below

DOWN POST
Armature .................. P-7469
Frame ..................... P-7472-1
Spring Retainer .......... P-7491
Switch,
1st ........................ ASW-R1-4
2nd ........................ ASW-R1-1
Switch Plate .......................... P-137-14
GATE RELAY ASSY. AS-2308-14
Bracket ..................... P-6015-1
Relay
Same as DOWN POST, except
Switch,
1st ........................ ASW-R1-3
2nd ........................ ASW-R1-4

3 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

EXTRA BALL TARGET
Armature .................. P-7469
Frame ..................... P-7472-1
Spring Retainer .......... P-7491
Switch,
1st ........................ ASW-R2-1
2nd ........................ ASW-R1-4
3rd ........................ ASW-R1X-1
4th ........................ ASW-R1-5
OPEN GATE TARGET
Same as EXTRA BALL TARGET
MUSHROOM BUMPER
Same as EXTRA BALL TARGET, except
Switch,
1st ........................ ASW-R2-1
2nd ........................ ASW-R1-4
3rd ........................ ASW-R1X-1
4th ........................ ASW-R1-5
Switch Plate (3) ............ P-137-14

5 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below

10 POINT
Armature .................. P-7469
Eyelet (2) .................. M-122-19
Frame ..................... P-7472-2
Grommet (2) ............... R-111-29
Spring Retainer .......... P-7491
Switch,
Stack A
1st, 2nd, 3rd .......... ASW-R1X-1
4th ........................ ASW-R1-3
Stack B
1st ........................ ASW-R1-4
2nd ........................ ASW-R1-1
100 POINT
Same as 10 POINT, except
Switch,
Stack A
1st ........................ ASW-R1-4
2nd, 3rd .................. ASW-R1X-1
4th ........................ ASW-R1-3
Stack B
ASW-R1-1

8 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

1ST DICE NO. 1
Armature .................. P-7469
Frame ..................... P-7472-1
Spring Retainer .......... P-7491
Switch,
1st, 2nd, 3rd, 4th, 5th, 6th ASW-R1-3
1ST DICE NO. 2
Same as 1ST DICE NO. 1, except
Switch,
Stack A
1st, 2nd, 3rd, 4th .......... ASW-R1-3
Stack B
1st, 2nd .................. ASW-R1-3
3rd ........................ ASW-R1-5

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ON
NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

58
"G" TYPE RELAYS

LITTLE JOE
16 Bank (CONTINUED)

RESET
Same as CREDIT, except
Switch,

Stack A
1st .......................... ASW-R3-1
2nd .......................... ASW-R1-1
3rd, 4th ........................ ASW-R1-X-1

Stack B
1st .......................... ASW-R2-1
2nd .......................... ASW-R1
3rd .......................... ASW-R1-1

PLAYER RESET
Same as CREDIT, except
Switch,

OUTDOOR
Same as CREDIT, except
Switch,

Stack A
1st .......................... ASW-R2-1
2nd .......................... ASW-R1-1

Stack B
1st, 2nd ........................ ASW-R1-3
3rd .......................... ASW-R1-1

BALL INDEX
Same as CREDIT, except
Switch,

TILT
Same as CREDIT, except
Switch,

EXTRA BALL
Same as CREDIT, except
Switch,

TOTAL 4
Same as CREDIT, except
Switch,

TOTAL 9
Same as TOTAL 4

TOP AREA EXIT
Same as CREDIT, except
Switch,

EJECT HOLE
Same as CREDIT, except
Switch,

10 POINT
Armature ...................... P. 7469
Eyelet (2) ..................... M-122-19
Frame ........................ P. 7472-2
Grommet (2) .................. R-111-29
Spring Retainer ............... P. 7491

Stack A
1st, 2nd, 3rd ........................ ASW-R1-1
4th .......................... ASW-R1-3

Stack B
1st .......................... ASW-R1-4
2nd .......................... ASW-R1-1

100 POINT
Same as 10 POINT, except
Switch,

Stack A
1st .......................... ASW-R1-4
2nd, 3rd ........................ ASW-R1-3
4th .......................... ASW-R1-1

Stack B
1st .......................... ASW-R1-1

1000 POINT
Same as 10 POINT, except
Switch,

Stack A
1st .......................... ASW-R1-4
2nd, 3rd ........................ ASW-R1-3
4th .......................... ASW-R1-1

Stack B
1st .......................... ASW-R1-1

6 Bank (Mounting Board)
Same as 10 POINT, except
Switch,

1st, 2nd, 3rd, 4th, 5th ........................ ASW-R1-3

TOTAL 1
Same as TOTAL 4

TOTAL 7 OR 11
Same as CREDIT, except
Switch,

1st, 2nd ........................ ASW-R3-1
3rd .......................... ASW-R1-3

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

PLAYER RESET
Armature ...................... P. 7469
Frame ........................ P. 7472-1
Spring Retainer ............... P. 7491

Switch,

Delays .................. AS 2716

Switch Plate (20) ............. P. 137-14

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

COIN
Armature ...................... AS-7469
Eyelet (2) ..................... M-122-19
Frame ........................ P. 7472-2
Grommet (2) .................. R-111-29
Spring Retainer ............... P. 7491

Switch,

Stack A
1st, 2nd, 3rd ........................ ASW-R1-3

Stack B
1st .......................... ASW-R1-1

5 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below

10 POINT
Armature ...................... P. 7469
Eyelet (2) ..................... M-122-19
Frame ........................ P. 7472-2
Grommet (2) .................. R-111-29
Spring Retainer ............... P. 7491

Switch,

Stack A
1st, 2nd, 3rd ........................ ASW-R1-X-1
4th .......................... ASW-R1-3

Stack B
1st .......................... ASW-R1-4
2nd .......................... ASW-R1-1

100 POINT
Same as 10 POINT, except
Switch,

Stack A
1st .......................... ASW-R1-4
2nd, 3rd ........................ ASW-R1-3
4th .......................... ASW-R1-1

Stack B
1st .......................... ASW-R1-1

1000 POINT
Same as 10 POINT, except
Switch,

Stack A
1st .......................... ASW-R1-4
2nd, 3rd ........................ ASW-R1-3
4th .......................... ASW-R1-1

Stack B
1st .......................... ASW-R1-1

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

PLAYBACK
Armature ...................... P. 7469
Frame ........................ P. 7472-1
Spring Retainer ............... P. 7491

Switch,

Switch Plate (20) ............. P. 137-14

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

START TARGETS
Same as PLAYER RESET, except
Switch,

1st, 2nd, 3rd ........................ ASW-R2-1
4th .......................... ASW-R1-5

EXTRA BALL TARGET
Same as START TARGETS

COLLECT
Same as PLAYER RESET, except
Switch,

1st, 2nd, 3rd ........................ ASW-R2-1
4th .......................... ASW-R1-3

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

RIGHT RED THUMPER BUMPER
LEFT RED THUMPER BUMPER
LEFT BLUE THUMPER BUMPER

Above 4 Relays are identical

Armature ...................... P. 7469
Frame ........................ P. 7472-1
Spring Retainer ............... P. 7491

Switch,

1st, 2nd, 3rd ........................ ASW-R1-4

DOWN POST
Same as

RIGHT RED THUMPER BUMPER, except

Switch,

1st, 2nd, 3rd ........................ ASW-R-3

13 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

COIN
Armature ...................... AS-7469
Eyelet (2) ..................... M-122-19
Frame ........................ P. 7472-2
Grommet (2) .................. R-111-29
Spring Retainer ............... P. 7491

Switch,

Stack A
1st, 2nd, 3rd, 4th ........................ ASW-R1-3

Stack B
1st .......................... ASW-R1-1

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

59
**“G” TYPE RELAYS**

**SPACE TIME**

13 Bank (CONTINUED)

2ND COIN CHUTE

Same as Stack B, Coin

3RD COIN CHUTE

Same as Coin, except Switch,

- **Stack B** ............... ASW-R1-1

**CREDIT**

Armature .................. P 7469

Frame ....................... P 7472-1

Spring Retainer ............ P 7491

Switch,

- 1st ........................ ASW-R2-1
- 2nd, 3rd .................... ASW-R1-4
- 4th ........................ ASW-R1-1

**LOCK**

Same as CREDIT, except Switch,

- 1st ........................ ASW-R2-1
- 2nd, 3rd .................... ASW-R1-3-7
- 4th ........................ ASW-R1-5

**RESET**

Same as CREDIT, except Switch,

- **Stack A** ............... ASW-R2-1
- 2nd, 3rd, 4th ................ ASW-R1-4

**Stack B**

- 1st, 2nd .................. ASW-R1-3
- 3rd ........................ ASW-R1-1

**OUTHOLE**

Same as CREDIT, except Switch,

- **Stack A** ............... ASW-R2-1
- 2nd, 3rd, 4th ................ ASW-R1-3

**Stack B**

- 1st, 2nd .................. ASW-R1-3
- 3rd ........................ ASW-R1-1

**BALL INDEX**

Same as CREDIT, except Switch,

- 1st, 2nd .................. ASW-R1-3
- 3rd ........................ ASW-R1-5

**TILT**

Same as CREDIT, except Switch,

- 1st ........................ ASW-R2-1
- 2nd, 3rd .................... ASW-R1-3
- 4th ........................ ASW-R1-5

**EXTRA BALL**

Same as CREDIT, except Switch,

- 1st ........................ ASW-R2-1
- 2nd, 3rd .................... ASW-R1-3
- 4th ........................ ASW-R1-5

**LEFT HOLE**

Same as CREDIT, except Switch,

- 1st, 2nd, 3rd, 4th, 5th ... ASW-R1-3
- 6th ........................ ASW-R1-1

**RIGHT HOLE**

Same as LEFT HOLE

**LEFT ALLEY**

Same as CREDIT, except Switch,

- 1st, 2nd .................. ASW-R1-3
- 4th ........................ ASW-R1-1

Switch Plate (17) ........ P 137-14

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**MONTE CARLO**

**Single Relays**

(Mounting Board)

GAME OVER ................... AS 2651-31

Interlock Relay: see page 88

(Playfield Panel)

GATE RELAY ASSY ........ AS-2308-15

Bracket .................... P 6015-1

Relay ....................... AS 2656-4

As illustrated, page 49

With variable components listed below

Armature .................. A 3509

Frame ....................... P 7472-1

Spring Retainer ............ P 7491

Switch,

- 1st ........................ ASW-R2-1
- 2nd ........................ ASW-R1-3
- 3rd ........................ ASW-R1-5

Switch Plate ................. P 137-14

**3 Bank** (Back Cabinet Insert)

Interlock Relays: see page 88

**5 Bank** (Back Cabinet Insert)

Same as 5 Bank (Back Cabinet Insert), SPACE TIME, page 59

**6 Bank** (Playfield Panel)

Relays as illustrated, page 49

With variable components listed below

LEFT THUMPER BUMPER

CENTER THUMPER BUMPER

RIGHT THUMPER BUMPER

Above 3 Relays are identical

Armature .................. P 7469

Frame ....................... P 7472-1

Spring Retainer ............ P 7491

Switch,

- 1st ........................ ASW-R1-4
- 2nd ........................ ASW-R1X-1
- 3rd ........................ ASW-R1-1

LOWER GATE MUSHROOM BUMPER

TOP GATE MUSHROOM BUMPER

Above 2 Relays are identical

Same as LEFT THUMPER BUMPER, except Switch,

- 1st, 2nd .................. ASW-R1-4
- 3rd ........................ ASW-R1-1

DOWN POST

Same as LEFT THUMPER BUMPER except Switch,

- 1st ........................ ASW-R1X-1
- 2nd ........................ ASW-R1-1

Switch Plate (6) ........... P 137-14

**16 Bank** (Mounting Board)

Relays as illustrated, page 49,

With variable components listed below

COIN

Armature .................. P 7469

Eyelet (2) .................. M 122-19

Frame ....................... P 7472-2

Grommet (2) ................ R 111-29

Spring Retainer ............ P 7491

Switch,

- **Stack A** ............... ASW-R1-3
- **Stack B** ............... ASW-R1-1

Switch Plate (17) ........ P 137-14

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**MONTE CARLO**

16 Bank (CONTINUED)

2ND COIN CHUTE

Same as Stack B, Coin

3RD COIN CHUTE

Same as Coin, except Switch,

- 1st, 2nd .................. ASW-R1-3
- 3rd ........................ ASW-R1-1

**LOCK**

Same as CREDIT, except Switch,

- 1st ........................ ASW-R2-1
- 2nd, 3rd .................... ASW-R1-3-7
- 4th ........................ ASW-R1-5

**RESET**

Same as CREDIT, except Switch,

- **Stack A** ............... ASW-R3-1
- 2nd, 3rd, 4th ................ ASW-R1-3

**Stack B**

- 1st ........................ ASW-R2-1
- 2nd, 3rd .................... ASW-R1-3

**PRINTED CIRCUIT**

Face Plate .................. P 1274-1

**DE LUXE BUMPER**

Same as DELUXE, page 57

**OUTHOLE**

Same as CREDIT, except Switch,

- **Stack A** ............... ASW-R2-1
- 2nd, 3rd, 4th ................ ASW-R1-3

**Stack B**

- 1st ........................ ASW-R2-1
- 2nd, 3rd .................... ASW-R1-3

**BALL INDEX**

Same as CREDIT, except Switch,

- 1st, 2nd .................. ASW-R1-3

**EXTRA BALL**

Same as CREDIT, except Switch,

- **Stack A** ............... ASW-R2-1
- **Stack B** ............... ASW-R1-3

**PRINTED CIRCUIT**

Face Plate .................. P 1274-1

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**CONTINUED ON NEXT PAGE**

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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

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“G” TYPE RELAYS

**MONTE CARLO**

16 Bank (CONTINUED)
BONUS CONTROL
Same as CREDIT, except
Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-5
PLAYER RESET
Same as CREDIT, except
Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
ODDS HOLE
Same as CREDIT, except
Switch,
Stack A
1st, 2nd, 3rd, 4th ...... ASW-R1-3
Stack B
1st ........................ ASW-R2-1
2nd, 3rd ........................ ASW-R1-3
EVENS HOLE
Same as ODDS HOLE
END SUPER BONUS
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd ........................ ASW-R1-1
Switch Plate (22)  .......... P-137-14

**ODDS & EVENS**

Single Relays
(Mounting Board)
DELAY ........................ AS-2716
Same as DELAY,
Single Relay (Mounting Board)
LITTLE JOE, page 57
GAME .......................... AS-2651-17
Interlock Relay: see page 89
(Playfield Panel)
GATE RELAY ASSY  ........ AS-2308-14
Same as GATE RELAY ASSY,
Single Relay (Playfield Panel)
LITTLE JOE, page 58

4 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below
10 POINT
Armature .................. P-7469
Eyelet (2) .................. M-122-19
Frame ...................... P-7472-2
Grommet (2) .............. R-111-29
Spring Retainer .......... P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th ...... ASW-R1X-1
4th ........................ ASW-R1-3
Stack B
1st ........................ ASW-R1-4
2nd ........................ ASW-R1-1
100 POINT
Same as 10 POINT, except
Switch,
Stack A
1st ........................ ASW-R1-4
2nd, 3rd ........................ ASW-R1X-1
4th ........................ ASW-R1-3
Stack B ........................ ASW-R1-1

11 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
COIN
Armature .................. P-7469
Eyelet (2) .................. M-122-19
Frame ...................... P-7472-2
Grommet (2) .............. R-111-29
Spring Retainer .......... P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th ...... ASW-R1-3
Stack B
1st, 2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-1
2ND COIN CHUTE
Same as COIN, except
Switch
Same as Stack B, COIN

11 Bank (CONTINUED)
3RD COIN CHUTE
Same as 2ND COIN CHUTE
CREDIT
Armature .................. P-7469
Frame ...................... P-7472-1
Spring Retainer .......... P-7491
Switch
Same as Stack B, COIN
LOCK
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ........................ ASW-R1-3
4th ........................ ASW-R1-5
RESET
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd, 4th ...... ASW-R1-3
5th ........................ ASW-R1-3
6th ........................ ASW-R1-1
OUTHOLE
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd, 4th ...... ASW-R1X-1
3rd, 4th, 5th, 6th ...... ASW-R1-3
6th ........................ ASW-R1-1
BALL INDEX
Same as CREDIT, except
Switch,
1st, 2nd ........................ ASW-R1-3
3rd, 4th ........................ ASW-R1-5
5000 POINT
Same as CREDIT
ODDS HOLE
EVENS HOLE
Above 2 Relays are identical
Same as CREDIT, except
Switch,
Stack A
1st, 2nd, 3rd, 4th ...... ASW-R2-1
2nd, 3rd, 4th ...... ASW-R1-3
Stack B
1st ........................ ASW-R1X-1
2nd, 3rd, 4th ...... ASW-R1-3
4th ........................ ASW-R1-1
Switch Plate (14)  .......... P-137-14

**TIME ZONE**

Single Relays
(Back Cabinet Insert)
2ND COIN  .......... AS-2651-2
Interlock Relay: see page 89
(Mounting Board)
DELAY
Same as DELAY,
Single Relay (Mounting Board),
LITTLE JOE, page 57
GAME OVER  .......... AS-2651-8
Interlock Relay: see page 89
(Playfield Panel)
GATE RELAY ASSY  .... AS-2308-14
Same as GATE RELAY ASSY,
Single Relay (Playfield Panel),
LITTLE JOE, page 58

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

61
“G” TYPE RELAYS

TIME ZONE
4 Bank (Mounting Board)
Relays as illustrated, page 49
with variable components listed below
TUNNEL
Armature .................. P-7469
Frame .................. P-7422-1
Spring Retainer .................. P-7491
Switch, 1st .................. ASW-R1X-1
2nd .................. ASW-R1-5
START TARGETS
Same as TUNNEL, except
Switch, 1st, 2nd .................. ASW-R1-4
3rd .................. ASW-R1-1
EXTRA BALL TARGET
Same as START TARGETS
COLLECT
Same as TUNNEL, except
Switch, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
10 POINT
Armature .................. P-7469
Eyelet (2) .................. M-122-19
Frame .................. P-7422-1
Grommet (2) .................. R-111-29
Spring Retainer .................. P-7491
Switch, Stack A
1st, 2nd, 3rd, 4th .................. ASW-R1X-1
4th .................. ASW-R1-3
Stack B
1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
100 POINT
Same as 10 POINT, except
Switch, Stack A
1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
100 POINT
Score Reset
Armature .................. P-7469
Frame .................. P-7422-1
Spring Retainer .................. P-7491
Switch, Stack A
1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th

TIME ZONE
6 Bank (Back Cabinet Insert)
(CONTINUED FROM COLUMN ONE)
PLAYER NO. 1
Same as SCORES RESET, except
Switch, 1st, 2nd, 3rd .................. ASW-R3
4th .................. ASW-R1-3
PLAYER NO. 2
Same as SCORES RESET, except
Switch, 1st, 2nd, 3rd, 4th ........... ASW-R3
Switch Plate (10) .................. P-137-14
6 Bank (Playfield Panel)
Same as 6 Bank (Playfield Panel),
SPACE TIME, page 59
13 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
COIN
Armature .................. P-7469
Eyelet (2) .................. M-122-19
Frame .................. P-7422-1
Grommet (2) .................. R-111-29
Spring Retainer .................. P-7491
Switch, Stack A
1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
Stack B
1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
2ND COIN CHUTE
Same as COIN, except
Switch, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
3RD COIN CHUTE
Same as 2ND COIN CHUTE
CREDIT
Armature .................. P-7469
Frame .................. P-7422-1
Spring Retainer .................. P-7491
Switch, Same as 2ND COIN CHUTE
LOCK
Same as CREDIT, except
Switch, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
RESET
Same as CREDIT, except
Switch, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th

TIME ZONE
13 Bank (CONTINUED)
RESET
Same as CREDIT, except
Switch, Stack A
1st, 2nd, 3rd, 4th ........... ASW-R2-1
2nd, 3rd, 4th ........... ASW-R1-3
Stack B
1st, 2nd, 3rd ........... ASW-R1-3
3rd ........... ASW-R1-1
BALL INDEX
Same as CREDIT, except
Switch, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
TILT
Same as CREDIT, except
Switch, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
LEFT SIDE
Same as CREDIT, except
Switch, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
RIGHT SIDE
Same as LEFT SIDE
LEFT ALLEY
Same as CREDIT, except
Switch, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
40 POINT
Score Reset
Armature .................. P-7469
Frame .................. P-7422-1
Spring Retainer .................. P-7491
Switch, Stack A
1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
NIP-IT
Single Relays (Mounting Board)
DELAY ................. AS 2716
Same as DELAY
Single Relay (Mounting Board)
LITTLE JOE, page 57
GAME OVER .............. AS-2651-24
Interlock Relays: see page 89
OPEN FLIPPERS ............. AS-2659-115
As illustrated, page 49,
with variable components listed below
Armature .................. P-7469
Frame .................. P-7422-1
Spring Retainer .................. P-7491
Switch, Stack A
1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
Score Reset
Armature .................. P-7469
Frame .................. P-7422-1
Spring Retainer .................. P-7491
Switch, Stack A
1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th
CONTINUED
ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

62
“G” TYPE RELAYS

NIP-IT

5 Bank (Back Cabinet Insert)
Relays as illustrated, page 49
with variable components listed below

10 POINT
- Armature ................. P-7469
- Eyelet (2) ............. M-122-19
- Frame .................. P-7472-2
- Grommet (2) ........ R-111-29
- Spring Retainer ..... P-7491

Switch,
Stack A
1st, 2nd, 3rd .......... ASW-R1X-1
4th ...................... ASW-R1-3
Stack B
1st ........................ ASW-R1-4
2nd ........................ ASW-R1-1

100 POINT
Same as 10 POINT, except
Switch,
Stack A
1st ........................ ASW-R1-4
2nd, 3rd ............... ASW-R1X-1
4th ...................... ASW-R1-3
Stack B
1st ........................ ASW-R1-2
2nd ........................ ASW-R1-1

1000 POINT
Same as 10 POINT, except
Switch,
Stack B
1st ........................ ASW-R1X-1
2nd ...................... ASW-R1-1
NO. 1 SCORE RESET
- Armature ................. P-7469
- Frame .................. P-7472-1
- Spring Retainer ..... P-7491

Switch,
Stack A
1st, 2nd, 3rd, 4th .... ASW-R1X-1
Stack B
Same as Stack A
NO. 2 SCORE RESET
Same as NO. 1 SCORE RESET
Switch Plate (10) .......... P-137-14

7 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
LEFT YELLOW THUMPER BUMPER
RIGHT YELLOW THUMPER BUMPER
BOTTOM RED THUMPER BUMPER
TOP RED THUMPER BUMPER
Above 4 Relays are identical
- Armature ................. P-7469
- Frame .................. P-7472-1
- Spring Retainer ..... P-7491
Switch,
1st ........................ ASW-R1-4
2nd ........................ ASW-R1X-1
3rd ........................ ASW-R1-1

LIGHT RED THUMPER BUMPERS
LIGHT YELLOW THUMPER BUMPERS
Above 2 Relays are identical
Same as
LEFT YELLOW THUMPER BUMPER
except
Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-5

7 Bank (CONTINUED)
BALL GRABBER
Same as
LEFT YELLOW THUMPER BUMPER
except
Switch,
1st, 2nd .................. ASW-R1X-3
3rd ........................ ASW-R1-5
Switch Plate (7) ........ P-137-14

8 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
OPEN GATE
- Armature ................. P-7469
- Frame .................. P-7472-1
- Spring Retainer ..... P-7491
Switch,
1st ........................ ASW-R1X-1
2nd ...................... ASW-R1-5

500 POINT
Same as OPEN GATE, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ............... ASW-R1-3
4th ...................... ASW-R1-1
BONUS SCORE
Same as OPEN GATE, except
Switch,
Stack A
1st, 2nd .................. ASW-R2-1
3rd, 4th ................ ASW-R1-3
Stack B
Same as 500 POINT
GATE TARGET
Same as OPEN GATE, except
Switch,
1st, 2nd .................. ASW-R1-4
3rd ........................ ASW-R1-1
MUSHROOM BUMPER
Same as OPEN GATE, except
Switch,
1st ........................ ASW-R1X-1
2nd ........................ ASW-R1-4
3rd ........................ ASW-R1-1

ADVANCE BONUS
Same as MUSHROOM BUMPER
BONUS TARGET
Same as OPEN GATE, except
Switch,
1st ........................ ASW-R1-4
2nd ........................ ASW-R1-1

BONUS HOLE
Same as OPEN GATE, except
Switch,
1st, 2nd .................. ASW-R3-1
3rd, 4th, 5th .......... ASW-R1-3
6th ........................ ASW-R1-5
Switch Plate (9) ........ P-137-14

15 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
COIN
- Armature ................. P-7469
- Eyelet (2) ............. M-122-19
- Frame .................. P-7472-2
- Grommet (2) ........ R-111-29
- Spring Retainer ..... P-7491

Switch,
Stack A
1st, 2nd, 3rd, 4th .... ASW-R1-3
Stack B
1st ........................ ASW-R1-3
2nd ........................ ASW-R1-1

2ND COIN CHUTE
Same as Stack B, COIN
3RD COIN CHUTE
Same as COIN, except
Switch,
Stack B ................. ASW-R1-1

CREDIT
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ............... ASW-R1-3
4th ........................ ASW-R1-1

RESET
Same as CREDIT, except
Switch,
Stack A
1st ........................ ASW-R3-1
2nd, 3rd, 4th .... ASW-R1-3
Stack B
1st ........................ ASW-R2-1
2nd ........................ ASW-R2-1-7
3rd ...................... ASW-R1-3
4th ........................ ASW-R1-1

OUT HOLE
Same as CREDIT, except
Switch,
1st ........................ ASW-R3-1
2nd, 3rd ............... ASW-R1-3
4th ........................ ASW-R1-1

BALL INDEX
Same as CREDIT, except
Switch,
1st, 2nd .................. ASW-R2-1
3rd, 4th ............... ASW-R1-3
5th ........................ ASW-R1-5

TILT
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1-7
2nd, 3rd, 4th, 5th .... ASW-R1-3
6th ........................ ASW-R1-5

---

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

63
“G” TYPE RELAYS

NIP-IT

15 Bank (CONTINUED)
2ND BALL
Same as CREDIT, except
Switch,
1st, 2nd .................. ASW-R3
3rd ........................ ASW-R2-1
4th, 5th .................... ASW-R1-3
6th ........................ ASW-R1-1

BALL RELEASE
Same as CREDIT, except
Switch,
1st, 2nd, 3rd ................. ASW-R1-3
4th ........................ ASW-R1-1

PLAYER RESET
Same as CREDIT, except
Switch,
1st ........................ ASW-R3-1
2nd, 3rd ........................ ASW-R2-1
4th ........................ ASW-R1-3
5th ........................ ASW-R1-1

TOP HOLE
Same as BALL RELEASE

LEFT ALLEY
Same as BALL RELEASE

5000 SCORE
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd, 4th ........................ ASW-R1-3
5th ........................ ASW-R1-1

Switch Plate (18) .................. P-137-14

HI-LO ACE

Single Relays
(Mounting Board)
GAME .......................... AS-2651-33
TILT ........................ AS-2651-25

Above 2 Relays are Interlock Relays: see page 89
(Playfield Panel)
DOWN POST .................. AS-2659-81
Same as DOWN POST,
Single Relay (Playfield Panel),
LITTLE JOE, page 58
GATE RELAY ASSY .......... AS-2308-14
Same as GATE RELAY ASSY,
Single Relay (Playfield Panel),
LITTLE JOE, page 58

4 Bank (Back Cabinet Insert),
Same as 4 Bank (Back Cabinet Insert),
ODDS & EVENS, page 61

7 Bank (Playfield Panel)
Same as 7 Bank (Playfield Panel),
LITTLE JOE, page 58

HI-LO ACE

14 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

COIN
Armature .................. P-7469
Eyelet (2) .................. M-122-19
Frame ........................ P-7472-1
Grommet (2) .................. R-111-29
Spring Retainer ............... P-7491

Switch,
Stack A
1st, 2nd, 3rd, 4th ........................ ASW-R1-3

2nd COIN CHUTE
Same as Stack B, COIN

3RD COIN CHUTE
Same as Stack B, COIN

CREDIT
Armature .................. P-7469
Frame ........................ P-7472-1
Spring Retainer ............... P-7491

Switch,
Same as Stack B, COIN

LOCK
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ........................ ASW-R1-3
4th ........................ ASW-R1-5

RESET
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ........................ ASW-R1-3
4th ........................ ASW-R1-5

OUTHOLE
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd, 4th ........................ ASW-R1-3
5th ........................ ASW-R1-1

BALL INDEX
Same as CREDIT, except
Switch,
1st, 2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-5

DELAY
Same as DELAY,
Single Relay (Mounting Board)
LITTLE JOE, page 57
5000 POINT
Same as CREDIT, except
Switch,
1st, 2nd, 3rd ........................ ASW-R2-1
4th, 5th ........................ ASW-R1-3
6th ........................ ASW-R1-1

500 POINT
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ........................ ASW-R1-3

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

64
"G" TYPE RELAYS

CIRCUS

5 Bank (Back Cabinet Insert)
(CONTINUED FROM PAGE 64)
NO. 1 SCORE RESET
Armature ................ P 7469
Frame .................. P 7472-1
Spring Retainer .......... P 7491
Switch, Stack A
1st, 2nd, 3rd, 4th .......... ASW-R1X-1
Stack B
Same as Stack A
NO. 2 SCORE RESET
Same as NO. 1 SCORE RESET
Switch Plate (10) .......... P 137-14

5 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
DOUBLE BONUS
Armature ................. P 7469
Frame .................. P 7472-1
Spring Retainer .......... P 7491
Switch,
1st, 2nd ................ ASW-R1-4
3rd, 4th ................ ASW-R1-3
500 POINT
Same as DOUBLE BONUS, except
Switch,
1st, 2nd ................ ASW-R1-3
3rd ........................ ASW-R1-1
EXTRA BALL
Same as DOUBLE BONUS, except
Switch,
1st, 2nd, 3rd ............. ASW-R1-3
LEFT EXTRA BALL TARGET
RIGHT EXTRA BALL TARGET
Above 2 Relays are identical
Same as DOUBLE BONUS, except
Switch,
1st, 2nd, 3rd ............. ASW-R1-4
4th ........................ ASW-R1-1
Switch Plate (5) .......... P 137-14

8 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
BONUS ADVANCE
Armature ................. P 7469
Frame .................. P 7472-1
Spring Retainer .......... P 7491
Switch,
1st ........................ ASW-R1X-1
2nd ........................ ASW-R1-1
THUMPER BUMPER
Same as BONUS ADVANCE, except
Switch,
1st ........................ ASW-R1-4
2nd ........................ ASW-R1X-1
3rd ........................ ASW-R1-1
ALTERNATOR
Same as BONUS ADVANCE, except
Switch,
1st, 2nd .................. ASW-R3-1
TOP CENTER LANE
Same as BONUS ADVANCE, except
Switch,
1st, 2nd, 3rd ............. ASW-R1-3

CIRCUS

8 Bank (CONTINUED)
LEFT LANE
Same as BONUS ADVANCE, except
Switch,
1st, 2nd ........................ ASW-R1-4
3rd ........................ ASW-R1-1
RIGHT LANE
Same as LEFT LANE
LIGHT LEFT LANE
Same as BONUS ADVANCE, except
Switch,
1st ........................ ASW-R3-1
2nd, 3rd ........................ ASW-R1-3
4th ........................ ASW-R1-5
LIGHT RIGHT LANE
Same as LIGHT LEFT LANE
Switch Plate (B) .......... P 137-14

14 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
COIN
Armature ................. P 7469
Frame .................. P 7472-1
Spring Retainer .......... P 7491
Switch,
Stack A
1st, 2nd, 3rd, 4th ........ ASW-R1-3
Stack B
1st, 2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-1
2ND COIN CHUTE
Same as Stack B, COIN
3RD COIN CHUTE
Same as COIN, except
Switch,
Stack B .................. ASW-R1-1
CREDIT
Armature ................. P 7469
Frame .................. P 7472-1
Spring Retainer .......... P 7491
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ........................ ASW-R1-4
4th ........................ ASW-R1-1
LOCK
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ........................ ASW-R1-7
4th ........................ ASW-R1-5
RESET
Same as CREDIT, except
Switch,
Stack A
1st ........................ ASW-R3-1
2nd, 3rd, 4th ........................ ASW-R1-3
Stack B
1st, 2nd ........................ ASW-R2-1-7
3rd ........................ ASW-R2-1
4th ........................ ASW-R1-1
DELAY .................. AS-2716
Same as DELAY,
Single Relay (Mounting Board)
LITTLE JOE, page 57

14 Bank (CONTINUED)
OUTHOLE
Same as CREDIT, except
Switch,
Stack A
1st, 2nd .................. ASW-R2-1
3rd, 4th .................. ASW-R1-3
Stack B
1st, 2nd .................. ASW-R1-3
3rd ........................ ASW-R1-1
BALL INDEX
Same as CREDIT, except
Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-5
TILT
Same as CREDIT, except
Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
4th ........................ ASW-R1-5
BONUS SCORE
Same as CREDIT, except
Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
4th ........................ ASW-R1-5
BONUS ZERO
Same as CREDIT, except
Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
3rd, 4th ........................ ASW-R1-3
PLAYER RESET
Same as CREDIT, except
Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3

BIG SHOW
Single Relay (Mounting Board)
GAME OVER ................ AS-2651-31
Interlock Relay: see page 89

3 Bank (Back Cabinet Insert)
Interlock Relays: see page 89

5 Bank (Mounting Board)
Same as 5 Bank (Mounting Board),
CIRCUS, column 1, this page

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

65
“G” TYPE RELAYS

**BIG SHOW**

6 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below

<table>
<thead>
<tr>
<th>10 POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armature</td>
</tr>
<tr>
<td>Eyelet (2)</td>
</tr>
<tr>
<td>Frame</td>
</tr>
<tr>
<td>Grommet (2)</td>
</tr>
<tr>
<td>Spring Retainer</td>
</tr>
<tr>
<td>Switch,</td>
</tr>
<tr>
<td>Stack A</td>
</tr>
<tr>
<td>1st, 2nd, 3rd</td>
</tr>
<tr>
<td>4th</td>
</tr>
<tr>
<td>Stack B</td>
</tr>
<tr>
<td>1st</td>
</tr>
<tr>
<td>2nd</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>100 POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as 10 POINT, except</td>
</tr>
</tbody>
</table>

**Switch,**

| Stack A  |
| 1st       | ASW-R1-4 |
| 2nd, 3rd  | ASW-R1X-1 |
| 4th       | ASW-R1-3 |

**Stack B**

| 1st       | ASW-R2-1 |
| 2nd       | ASW-R1X-1 |
| 3rd       | ASW-R1-1 |

**SCORES RESET**

| Armature | P-7469 |
| Frame   | P-7472-1 |
| Spring Retainer | P-7491 |
| Switch,  |
| Stack A  |
| 1st, 2nd, 3rd, 4th | ASW-R1X-1 |

**Stack B**

| Same as Stack A |

**2ND PLAYER (A)**
Same as SCORES RESET, except

| Switch,  |
| 1st, 2nd, 3rd | ASW-R3-1 |
| 4th         | ASW-R1-3 |

**2ND PLAYER (B)**
Same as SCORES RESET, except

| Switch,  |
| 1st, 2nd, 3rd, 4th | ASW-R3-1 |

| Switch Plate (10) | P-137-14 |

**8 Bank (Playfield Panel)**
Same as **8 Bank** (Playfield Panel),
CIRCUS, page 65

**BIG SHOW**

13 Bank (Mounting Board)

| COIN       |
| Armature   | P-7469 |
| Eyelet (2) | M-122-19 |
| Frame      | P-7472-2 |
| Grommet (2)| R-111-29 |
| Spring Retainer | P-7491 |
| Switch,    |
| Stack A  |
| 1st, 2nd, 3rd, 4th | ASW-R1-3 |
| Stack B  |
| 1st       | ASW-R1-3 |

**2ND COIN CHUTE**
Same as COIN, except

| Switch,  |
| 1st, 2nd | ASW-R1-3 |
| 3rd       | ASW-R1-1 |

**3RD COIN CHUTE**
Same as 2ND COIN CHUTE

**CREDIT**

| Armature | P-7469 |
| Frame   | P-7472-1 |
| Spring Retainer | P-7491 |
| Switch,  |
| 1st, 2nd | ASW-R1-4 |
| 3rd       | ASW-R1-1 |

**LOCK**
Same as CREDIT, except

| Switch,  |
| 1st       | ASW-R2-1 |
| 2nd, 3rd  | ASW-R1X-1 |
| 4th       | ASW-R1-5 |

**RESET**
Same as CREDIT, except

| Switch,  |
| Stack A  |
| 1st, 2nd | ASW-R3-1 |
| 2nd, 3rd | ASW-R2-1 |
| 3rd, 4th | ASW-R1-3 |

| Stack B  |
| 1st, 2nd | ASW-R2-1 |
| 3rd       | ASW-R1-1 |

**DELAY**
Same as DELAY

**Single Relay (Mounting Board)**

| LITTLE JOE, page 57 |
| OUTHOLE |

| Same as CREDIT, except |

**Switch,**

| Stack A  |
| 1st, 2nd | ASW-R2-1 |
| 3rd       | ASW-R1-3 |

**Stack B**

| 1st, 2nd | ASW-R1-3 |
| 3rd       | ASW-R1-1 |

**BALL INDEX**
Same as CREDIT, except

| Switch,  |
| 1st       | ASW-R3-1 |
| 2nd       | ASW-R1X-1 |
| 3rd       | ASW-R1-5 |

---

**BIG SHOW**

13 Bank (CONTINUED)

| TILT       |
| Same as CREDIT, except |

| Switch,  |
| 1st       | ASW-R3-1 |
| 2nd       | ASW-R2-1 |
| 3rd       | ASW-R1-3 |
| 4th       | ASW-R1-5 |

**EXTRA BALL**
Same as CREDIT, except

| Switch,  |
| 1st, 2nd | ASW-R2-1 |
| 4th       | ASW-R1-3 |
| 5th       | ASW-R1-5 |

**BONUS SCORE**
Same as CREDIT, except

| Switch,  |
| 1st       | ASW-R1-3 |
| 4th       | ASW-R1-5 |

**BONUS ZERO**
Same as CREDIT, except

| Switch,  |
| 1st       | ASW-R3-1 |
| 2nd       | ASW-R2-1 |
| 3rd, 4th, 5th | ASW-R1-3 |

| Switch Plate (16) | P-137-14 |

**CHAMP**

**Single Relay (Mounting Board)**

| GAME OVER   |
| AS 2651-24 |

| Interlock Relay: see page 89 |

**4 Bank (Back Cabinet Insert)**

| Interlock Relays: see page 89 |

**5 Bank (Back Cabinet Insert)**
Same as **5 Bank** (Back Cabinet Insert),
NIP-IT, page 63

**5 Bank (Playfield Panel)**
Relays as illustrated, page 49,
with variable components listed below

**BONUS ADVANCE**

| Armature | P-7469 |
| Frame   | P-7472-1 |
| Spring Retainer | P-7491 |
| Switch,  |
| 1st       | ASW-R1X-1 |
| 2nd       | ASW-R1-1 |
| YELLO WTHUMPER BUMPER |
| GREEN THUMPER BUMPER |

| Above 2 Relays are identical |

| Same as BONUS ADVANCE, except |

| Switch,  |
| 1st       | ASW-R1-4 |
| 2nd       | ASW-R1X-1 |
| 3rd       | ASW-R1-1 |

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**CONTINUED ON NEXT PAGE**

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
"G" TYPE RELAYS

CHAMP

5 Bank (Playfield Panel)
(CONTINUED FROM PAGE 66)

15,000 BONUS
Same as BONUS ADVANCE, except Switch,
1st, 2nd, 3rd, 4th, 5th ... ASW-R1-3

SPINNER
Same as BONUS ADVANCE, except Switch,
1st .................. ASW-R1-4
2nd .................. ASW-R1X-1
3rd .................. ASW-R1-3
4th .................. ASW-R1-1

Switch Plate (5) .......... P-137-14

7 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

DOUBLE BONUS
Armature ................. P-7469
Frame .................. P-7472-1
Spring Retainer .......... P-7491

Switch,
1st ........................ ASW-R1-3

SPECIAL
Same as DOUBLE BONUS, except Switch,
1st ........................ ASW-R1X-1
2nd ........................ ASW-R1-1

YELLOW LANE 500
GREEN LANE 500

Above 2 Relays are identical
Same as DOUBLE BONUS, except Switch,
1st ........................ ASW-R1-4
2nd, 3rd .................. ASW-R1-3
4th ........................ ASW-R1-1

LIGHT YELLOW LANE
LIGHT GREEN LANE

Above 2 Relays are identical
Same as DOUBLE BONUS, except Switch,
1st ........................ ASW-R3-1
2nd, 3rd .................. ASW-R1-3
4th ........................ ASW-R1-5

TOP HOLE
Same as DOUBLE BONUS, except Switch,
1st ........................ ASW-R1-3
6th ........................ ASW-R1-5

Switch Plate (7) .......... P-137-14

14 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

COIN
Armature ................. P-7469
Eyelet (2) ................. M-122-19
Frame .................. P-7472-2
Grommet (2) ............... R-111-29
Spring Retainer .......... P-7491

Switch,
Stack A
1st, 2nd, 3rd, 4th .... ASW-R1-3

Stack B
1st, 2nd .................. ASW-R1-3
3rd ........................ ASW-R1-1

CHAMP

14 Bank (CONTINUED)

2ND COIN CHUTE
Same as Stack B, COIN
3RD COIN CHUTE
Same as COIN, except Switch,

Stack B ........................ ASW-R1-1

CREDIT
Armature ................. P-7469
Frame .................. P-7472-1
Spring Retainer .......... P-7491

Switch,
1st ........................ ASW-R2-1
2nd, 3rd .................. ASW-R1-4
4th ........................ ASW-R1-1

LOCK
Same as CREDIT, except Switch,
1st ........................ ASW-R2-1
2nd, 3rd .................. ASW-R1-37
4th ........................ ASW-R1-5

RESET
Same as CREDIT, except Switch,

Stack A
1st ........................ ASW-R3-1
2nd, 3rd, 4th .............. ASW-R1-3

Stack B
1st, 2nd .................. ASW-R2-17
3rd ........................ ASW-R2-1
4th ........................ ASW-R1-1

DELAY .................... AS-2716

Same as DELAY,

Single Relay (Mounting Board),
LITTLE JOE, page 57

OUTHOLE
Same as CREDIT, except Switch,

Stack A
1st, 2nd .................. ASW-R2-1
3rd, 4th .................. ASW-R1-3

Stack B
1st, 2nd .................. ASW-R1-3
3rd ........................ ASW-R1-1

BALL INDEX
Same as CREDIT, except Switch,
1st ........................ ASW-R3-1
2nd ......................... ASW-R1-3
3rd ........................ ASW-R1-5

TILT
Same as CREDIT, except Switch,
1st ........................ ASW-R2-17
2nd ........................ ASW-R2-1
3rd, 4th, 5th .............. ASW-R1-3
6th ........................ ASW-R1-5

EXTRA BALL
Same as CREDIT, except Switch,
1st, 2nd .................. ASW-R2-1
3rd ........................ ASW-R1-3
4th ........................ ASW-R1-5

BONUS SCORE
Same as CREDIT, except Switch,
1st, 2nd .................. ASW-R1-3
4th ........................ ASW-R1-1

CHAMP

14 Bank (CONTINUED):

BONUS ZER0
Same as CREDIT, except Switch,
1st ........................ ASW-R3-1
2nd, 3rd .................. ASW-R2-1
3rd, 4th, 5th .............. ASW-R1-3

PLAYER RESET
Same as CREDIT, except Switch,
1st ........................ ASW-R3-1
2nd ........................ ASW-R1-1

Switch Plate (18) ......... P-137-14

TWIN WIN

Single Relay (Mounting Board)
GAME OVER ............... AS-2651-24

Interlock Relays: see page 89
GREEN SPECIAL LIGHT .... AS-2659-126

As illustrated, page 49,
with variable components listed below

Armature ................. P-7469
Frame .................. P-7472-1
Spring Retainer .......... P-7491

Switch,
1st, 2nd .................. ASW-R1-3
3rd ........................ ASW-R1-5

Switch Plate .......... P-137-14

SPECIAL CONTROL
Same as GREEN SPECIAL LIGHT
except Switch,
1st, 2nd .................. ASW-R2-1
3rd ........................ ASW-R1-5

4 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below

2ND COIN ................ AS-2651-35

Interlock Relays: see page 89

2ND PLAYER (A)
Armature ................. P-7469
Frame .................. P-7472-1
Spring Retainer .......... P-7491

Switch,
1st, 2nd, 3rd, 4th .... ASW-R3
5th, 6th .................. ASW-R1-3

2ND PLAYER (B)
Same as 2ND PLAYER (A), except Switch,
1st, 2nd, 3rd, 4th, 5th, 6th, ASW-R3

2ND PLAYER (C)
Same as 2ND PLAYER (B)
Switch Plate (4) .......... P-137-14

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

67
“G” TYPE RELAYS

TWIN WIN

7 Bank (Playfield Insert)
Relays as illustrated, page 49,
with variable components listed below

10 POINT
Armature .................. P-7469
Eyelet (2) .................. M-122-19
Frame .................. P-7472-2
Grommet (2) .............. R-111-29
Spring Retainer ............. P-7491
Switch, Stack A
1st, 2nd, 3rd .......... ASW-R1X-1
4th .................. ASW-R1-3
Stack B
1st .................. ASW-R1-4
2nd .................. ASW-R1-1

100 POINT
Same as 10 POINT, except
Switch, Stack A
1st ........................ ASW-R1-4
2nd, 3rd .................. ASW-R1X-1
4th .................. ASW-R1-3
Stack B
1st .................. ASW-R2-1
2nd .................. ASW-R1-1

1000 POINT
Same as 10 POINT, except
Switch, Stack B
1st, 2nd .................. ASW-R1X-1
3rd .................. ASW-R1-1

NO. 1 SCORE RESET
Armature .................. P-7469
Frame .................. P-7472-1
Spring Retainer ............. P-7491
Switch, Stack A
1st, 2nd, 3rd, 4th .... ASW-R1X-1
Stack B
Same as Stack A

NO. 2 SCORE RESET
Same as NO. 1 SCORE RESET, except
Switch, Stack B
1st, 2nd .................. ASW-R1X-1
YELLOW LAP ADVANCE
GREEN LAP ADVANCE
Above 2 Relays are identical
Same as NO. 1 SCORE RESET, except
Switch, 1st, 2nd, 3rd, 4th ASW-R1X-1
3rd .................. ASW-R1-1
Switch Plate (12) ........ P-137-14

8 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
SPECIAL
Armature .................. P-7469
Frame .................. P-7472-1
Spring Retainer ............. P-7491
Switch, 1st, 2nd ASW-R1-3
3rd .................. ASW-R1-1

TWIN WIN

8 Bank (Mounting Board)
(CONTINUED FROM COLUMN 1)

EXTRA BALL
Same as SPECIAL, except
Switch,
1st, 2nd, 3rd ........ ASW-R2-1
4th, 6th ................ ASW-R1-3
6th .................. ASW-R1-5
EXTRA BALL LIGHT
Same as SPECIAL, except
Switch,
1st, 2nd, 3rd .......... ASW-R1-3
YELLOW SPECIAL LIGHT
Same as SPECIAL, except
Switch,
1st, 2nd, 3rd ........ ASW-R1-3
3rd .................. ASW-R1-5
YELLOW BONUS ZERO
GREEN BONUS ZERO
Above 2 Relays are identical
Same as SPECIAL, except
Switch,
1st, 2nd .................. ASW-R2-1
3rd, 4th ................ ASW-R1-3
LEFT EXTRA BALL MUSHROOM BUMPER
RIGHT EXTRA BALL MUSHROOM BUMPER
Above 2 Relays are identical
Same as SPECIAL, except
Switch,
1st, 2nd, 3rd ........ ASW-R1-4
4th .................. ASW-R1-1
Switch Plate (B) ........ P-137-14

15 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below

COIN
Armature .................. P-7469
Eyelet (2) .................. M-122-19
Frame .................. P-7472-2
Grommet (2) .............. R-111-29
Spring Retainer ............. P-7491
Switch, Stack A
1st, 2nd, 3rd, 4th .... ASW-R1X-1
Stack B
1st ........................ ASW-R1-3
2nd .................. ASW-R1-1

2ND COIN CHUTE
Same as COIN, except
Switch,
1st, 2nd ........ ASW-R1-3
3rd .................. ASW-R1-1
3RD COIN CHUTE
Same as 2ND COIN CHUTE

CREDIT
Armature .................. P-7469
Frame .................. P-7472-1
Spring Retainer ............. P-7491
Switch,
1st, 2nd ........ ASW-R1-1
3rd .................. ASW-R1-1
LOCK
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ................ ASW-R1-3
4th .................. ASW-R1-5
RESET
Same as CREDIT, except
Switch, Stack A
1st .................. ASW-R1-4
2nd, 3rd ................ ASW-R1X-1
3rd, 4th ................ ASW-R1-1
3RD COIN CHUTE
Same as CREDIT, except
Switch,
1st ........................ ASW-R2-1
2nd, 3rd ................ ASW-R1-3
4th .................. ASW-R1-1

8 Bank (Mounting Board)
(CONTINUED FROM COLUMN 2)

DELAY .............. AS-2716
Same as DELAY

Single Relay (Mounting Board)
LITTLE JOE, page 57

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

68
**TWIN WIN**

15 Bank (Mounting Board)

OUTHOLE

Same as CREDIT, except

Switch,

Stack A

1st ........................ ASW-R2-1
2nd, 3rd, 4th, ........................ ASW-R1-3

Stack B

1st, 2nd ........................ ASW-R2-1
3rd ........................ ASW-R1-1

BALL INDEX

Same as CREDIT, except

Switch,

1st ........................ ASW-R3-1
2nd ........................ ASW-R1-3
3rd ........................ ASW-R1-5

TILT

Same as CREDIT, except

Switch,

1st ........................ ASW-R3-1
2nd ........................ ASW-R2-17
3rd, 4th ........................ ASW-R1-3
5th ........................ ASW-R1-5

BALL SHOOTER

Same as CREDIT, except

Switch,

1st, 2nd, 3rd ........................ ASW-R1-3
3rd ........................ ASW-R1-1

YELLOW HOLE

Same as CREDIT, except

Switch,

1st, 2nd, 3rd, 4th ........................ ASW-R1-3
4th ........................ ASW-R1-1

GREEN HOLE

Same as YELLOW HOLE

YELLOW BONUS

Same as CREDIT, except

Switch,

1st ........................ ASW-R2-1
2nd, 3rd, 4th, 5th ........................ ASW-R1-3
6th ........................ ASW-R1-1

GREEN BONUS

Same as YELLOW BONUS

Switch Plate (18) ........................ P-137-14

**SKY KINGS**

4 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,
with variable components listed below

<table>
<thead>
<tr>
<th>Component</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armature</td>
<td>P-7469</td>
</tr>
<tr>
<td>Eyelet (2)</td>
<td>M-122-19</td>
</tr>
<tr>
<td>Frame</td>
<td>P-7472-2</td>
</tr>
<tr>
<td>Grommet (2)</td>
<td>R-111-29</td>
</tr>
</tbody>
</table>

Switch,

Stack A

1st, 2nd, 3rd ........................ ASW-R1X-1
4th ........................ ASW-R1-3

Stack B

1st ........................ ASW-R1-4
2nd ........................ ASW-R1-1

100 POINT

Same as 10 POINT, except

Switch,

Stack A

1st ........................ ASW-R1-4
2nd, 3rd ........................ ASW-R1X-1
4th ........................ ASW-R13

Stack B

1st ........................ ASW-R2-1
2nd ........................ ASW-R1-1

1000 POINT

Same as 10 POINT, except

Switch,

Stack B

1st ........................ ASW-R1X-1
2nd ........................ ASW-R1-1

SCORE RESET

Armature ........................ P-7469
Frame ........................ P-7472-1
Spring Retainer ........................ P-7491

Switch,

1st, 2nd, 3rd, 4th ........................ ASW-R1X-1

5 Bank (Playfield Panel)

Same as 5 Bank (Playfield Panel), CHAMP, page 66

7 Bank (Mounting Board)

Relays as illustrated, page 49,
with variable components listed below

DOUBLE BONUS

Armature ........................ AS-2659-151
Frame ........................ P-7469
Spring Retainer ........................ P-7491

Switch,

1st ........................ ASW-R1X-1
2nd, 3rd ........................ ASW-R1-1

SPECIAL

Same as DOUBLE BONUS, except

Switch,

1st ........................ ASW-R1X-1
2nd, 3rd ........................ ASW-R1-1

YELLOW LANE 500 ........................ AS-2659-152

Same as DOUBLE BONUS, except

Switch,

1st ........................ ASW-R1-4
2nd, 3rd ........................ ASW-R1-3
4th ........................ ASW-R1-1

GREEN LANE 500 ........................ AS-2659-152

Same as YELLOW LANE 500

**SKY KINGS**

7 Bank (CONTINUED)

LIGHT YELLOW LANE ........................ AS-2659-153

Same as DOUBLE BONUS, except

Switch,

1st ........................ ASW-R3-1
2nd, 3rd ........................ ASW-R1-3
4th ........................ ASW-R1-5

LIGHT GREEN LANE ........................ AS-2659-153

Same as LIGHT YELLOW LANE

TOP HOLE ........................ AS-2681-6

Same as DOUBLE BONUS, except

Switch,

1st, 2nd, 3rd, 4th, 5th ........................ ASW-R1-3
6th ........................ ASW-R1-5

Switch Plate (7) ........................ P-137-14

14 Bank (Mounting Board)

Relays as illustrated, page 49,
with variable components listed below

COIN ........................ AS-2662-135

Armature ........................ P-7469
Eyelet (2) ........................ M-122-19
Frame ........................ P-7472-2
Grommet (2) ........................ R-111-29
Spring Retainer ........................ P-7491

Switch,

Stack A

1st, 2nd, 3rd, 4th ........................ ASW-R1-3

Stack B

1st ........................ ASW-R1-3

2ND COIN CHUTE ........................ AS-2659-142

Same as CREDIT, except

Switch,

1st, 2nd, 3rd ........................ ASW-R1-3
3rd ........................ ASW-R1-1

3RD COIN CHUTE ........................ AS-2659-142

Same as 2ND COIN CHUTE

CREDIT ........................ AS-2659-150

Armature ........................ P-7469
Frame ........................ P-7472-1
Spring Retainer ........................ P-7491

Switch,

Same as 2ND COIN CHUTE

LOCK ........................ AS-2659-140

Same as CREDIT, except

Switch,

1st ........................ ASW-R2-1
2nd, 3rd ........................ ASW-R1-37
4th ........................ ASW-R1-5

RESET ........................ AS-2662-137

Same as CREDIT, except

Switch,

Stack A

1st ........................ ASW-R3-1
2nd, 3rd ........................ ASW-R2-1
3rd, 4th ........................ ASW-R1-3

Stack B

1st ........................ ASW-R2-17
2nd ........................ ASW-R2-1
3rd ........................ ASW-R1-1

DELAY ........................ AS-2716

Same as DELAY,

Single Relay (Mounting Board)

LITTLE JOE, page 57

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When ordering part, specify part no. and name of game
“G” TYPE RELAYS

SKY BANKS

14 Bank (CONTINUED)
OUTHOLE .......................... AS-2662-136
Same as CREDIT, except
Switch,
Stack A
1st, 2nd .................................. ASW-R2-1
3rd, 4th .................................. ASW-R1-3
Stack B
1st, 2nd, 3rd, 4th .......................... ASW-R1-3
BALL INDEX .......................... AS-2669-153
Same as LIGHT YELLOW LANE,
7 Bank (Mounting Board),
SKY KINGS, page 69
SINGLE EXTRA BALL .......................... AS-2659-149
Same as CREDIT, except
Switch,
1st, 2nd .................................. ASW-R2-1
3rd .................................. ASW-R1-3
4th .................................. ASW-R1-1
BONUS SCORE .......................... AS-2660-12
Same as CREDIT, except
Switch,
1st, 2nd, 3rd, 4th, 5th .......................... ASW-R1-3
5th .................................. ASW-R1-1
BONUS ZERO .......................... AS-2660-15
Same as CREDIT, except
Switch,
1st .................................. ASW-R3-1
2nd .................................. ASW-R2-1
3rd, 4th, 5th .................................. ASW-R1-3
MULTIPLE EXTRA BALL .......................... AS-2659-148
Same as CREDIT, except
Switch,
1st .................................. ASW-R2-1
2nd .................................. ASW-R1X-1
3rd .................................. ASW-R1-1
5000 .................................. AS-2659-150
Same as CREDIT,
14 Bank (Mounting Board),
SKY KINGS, page 69
Switch Plate (17) .......................... P-137-14

AMIGO

Single Relay (Mounting Board)
GAME OVER .......................... AS-2651-24
Interlock Relay: see page 89
4 Bank (Back Cabinet Insert)
Interlock Relays: see page 89
5 Bank (Back Cabinet Insert)
Same as 5 Bank (Back Cabinet Insert)
NIP-IT, page 63
7 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
ADVANCE BONUS
LEFT THUMPER BUMPER
CENTER THUMPER BUMPER
RIGHT THUMPER BUMPER
Above 4 Relays are identical
Armature .................................. P-7469
Frame .................................. P-7472-1
Spring Retainer .......................... P-7401
Switch,
1st .................................. ASW-R1-4
2nd .................................. ASW-R1X-1
3rd .................................. ASW-R1-1

7 Bank (CONTINUED)
EXTRA BALL LIGHT
Same as ADVANCE BONUS, except
Switch,
1st, 2nd .................................. ASW-R1-3
SPECIAL LIGHT
Same as ADVANCE BONUS, except
Switch,
1st .................................. ASW-R1X-1
FREE BALL GATE
Same as ADVANCE BONUS, except
Switch,
1st .................................. ASW-R1X-1
2nd .................................. ASW-R1-5
Switch Plate (7) .......................... P-137-14

8 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
LIGHT LEFT
THUMPER BUMPER LANE
LIGHT RIGHT
THUMPER BUMPER LANE
Above 2 Relays are identical
Armature .................................. P-7469
Frame .................................. P-7472-1
Spring Retainer .......................... P-7491
Switch,
1st .................................. ASW-R3-1
2nd .................................. ASW-R1-3
3rd .................................. ASW-R1-5
DOUBLE BONUS
Same as LIGHT LEFT
THUMPER BUMPER LANE, except
Switch,
1st, 2nd .................................. ASW-R1-3
SPINNER LIGHT
Same as LIGHT LEFT
THUMPER BUMPER LANE
SPINNER
Same as LIGHT LEFT
THUMPER BUMPER LANE, except
Switch,
1st .................................. ASW-R1-4
2nd .................................. ASW-R1-1
500 POINT
Same as LIGHT LEFT
THUMPER BUMPER LANE, except
Switch,
1st .................................. ASW-R2-1
2nd, 3rd .................................. ASW-R1-3
4th .................................. ASW-R1-1
EXTRA BALL TARGET
Same as LIGHT LEFT
THUMPER BUMPER LANE, except
Switch,
1st, 2nd .................................. ASW-R1-4
3rd .................................. ASW-R1-1

8 Bank (CONTINUED)
HOLE
Same as LIGHT LEFT
THUMPER BUMPER LANE, except
Switch,
Stack A
1st, 2nd, 3rd, 4th .......................... ASW-R1-3
Stack B
1st .................................. ASW-R1-3
2nd .................................. ASW-R1-1
Switch Plate (9) .......................... P-137-14

14 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
COIN .......................... AS-2662-128
Armature .................................. P-7469
Eyelit (2) .................................. M-122-19
Frame .................................. P-7472-2
Grommet (2) .................................. R-111-29
Spring Retainer .......................... P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th .................................. ASW-R1-3
Stack B
1st .................................. ASW-R1-3
3rd .................................. ASW-R1-1
2ND COIN CHUTE .......................... AS-2659-142
Same as 2ND COIN,
14 Bank (Mounting Board),
SKY KINGS, page 69
CREDIT .......................... AS-2659-141
Armature .................................. P-7469
Frame .................................. P-7472-1
Spring Retainer .......................... P-7491
Switch,
1st .................................. ASW-R2-1
2nd, 3rd .................................. ASW-R1-4
4th .................................. ASW-R1-1
LOCK .......................... AS-2659-140
Same as LOCK,
14 Bank (Mounting Board),
SKY KINGS, page 69
RESET .......................... AS-2662-127
Same as CREDIT, except
Switch,
Stack A
1st .................................. ASW-R3-1
2nd, 3rd, 4th .................................. ASW-R1-3
Stack B
1st, 2nd .................................. ASW-R2-1
3rd .................................. ASW-R1-1
4th .................................. ASW-R1-4
DELAY .......................... AS-2716
Same as DELAY,
Single Relay (Mounting Board)
LITTLE JOE, page 57
OUTHOLE .......................... AS-2662-153
Same as CREDIT, except
Switch,
Stack A
1st .................................. ASW-R2-1
2nd, 3rd, 4th .................................. ASW-R1-3
Stack B
1st, 2nd .................................. ASW-R1-3
3rd .................................. ASW-R1-1

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

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AMIGO

14 Bank (CONTINUED)

BOW INDEX ............................. AS-2661-7
Same as CREDIT, except
Switch,
1st .................. ASW-R3-1
2nd .................. ASW-R2-1
3rd, 4th, 5th ........... ASW-R1-3
6th .................. ASW-R1-5
TILT .................. AS-2661-8
Same as CREDIT, except
Switch,
1st ................ ASW-R2-17
2nd, 3rd, 4th, 5th .... ASW-R1-3
6th ................ ASW-R1-5
EXTRA BALL .................. AS-2659-49
Same as EXTRA BALL,
Single Relay (Mounting Board),
EXPRESSWAY, page 52
BONUS SCORE ........................ AS-2659-135
Same as CREDIT, except
Switch,
1st, 2nd, 3rd .......... ASW-R1-3
4th .................. ASW-R1-1
BONUS ZERO .................. AS-2659-168
Same as CREDIT, except
Switch,
1st ................ ASW-R3-1
2nd ................ ASW-R1-1
3rd, 4th .................. ASW-R1-3
DOWN POST .................. AS-2659-167
Same as CREDIT, except
Switch,
1st ................ ASW-R1X-1
2nd ................ ASW-R1-4
PLAYER RESET .................. AS-2659-136
Same as CREDIT, except
Switch,
1st ................ ASW-R3-1
2nd ................ ASW-R1-1
Switch Plate (16) ........ P-137-14

DELTA QUEEN

Single Relays
(Back Cabinet Insert)

100,000 POINT ........................ AS-2651-28
Interlock Relay: see page 89
(Mounting Board)
GAME OVER .......................... AS-2651-6
Interlock Relay: see page 89

4 Bank (Back Cabinet Insert)
Same as 4 Bank (Back Cabinet Insert),
ODDS & EVENS, page 61

5 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
GAME .......................... AS-2651-17
TILT AS-2651-38
Above 2 Relays are Interlock Relays: see page 89

DELTA QUEEN

5 Bank (CONTINUED)

4X
Same as 2X, except
Switch,
1st, 2nd .................. ASW-R1-3
3rd .................. ASW-R1-5
SPECIAL
Same as 2X, except
Switch,
1st ................ ASW-R3-1
2nd ................ ASW-R2-1
3rd ................ ASW-R1-1
Switch Plate (5) ........ ASW-137-14

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
LIGHT LEFT THUMPER BUMPER
LIGHT RIGHT THUMPER BUMPER

Above 2 Relays are identical

Armature .................. P-7469
Frame .................. P-7472-1
Spring Retainer .................. P-7491
Switch,
1st ................ ASW-R3-1
2nd ................ ASW-R1-3
3rd ................ ASW-R1-5
CREDIT
Same as
LIGHT LEFT THUMPER BUMPER,
except
Switch,
1st, 2nd .................. ASW-R1-3
3rd .................. ASW-R1-1
3RD COIN SWITCH
Armature .................. P-7469
Eyelot (2) .................. M-122-19
Frame .................. P-7472-2
Grommet (2) ................ R-111-29
Spring Retainer .................. P-7491
Switch,
Same as CREDIT
2ND COIN CHUTE
Same as 3RD COIN CHUTE COIN

Above 5 Relays are identical

Armature .................. P-7469
Frame .................. P-7472-1
Spring Retainer .................. P-7491
Switch,
1st ................ ASW-R1-1
2nd ................ ASW-R1-3
3rd ................ ASW-R1-1
Switch Plate (7) ........ P-137-14

8 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
ADVANCE BONUS
LEFT THUMPER BUMPER
CENTER THUMPER BUMPER
RIGHT THUMPER BUMPER
ROLLOVER BUTTON

Above 5 Relays are identical

Armature .................. P-7469
Frame .................. P-7472-1
Spring Retainer .................. P-7491
Switch,
1st ................ ASW-R1-1
2nd ................ ASW-R1X-1
3rd ................ ASW-R1-1

DELTA QUEEN

8 Bank (CONTINUED)

“A”
Same as ADVANCE BONUS, except
Switch,
1st, 2nd .................. ASW-R2-1
2nd, 3rd .................. ASW-R1-3
4th .................. ASW-R1-5
“B”
Same as “A”
TOP CENTER LANE
Same as ADVANCE BONUS, except
Switch,
Stack A
1st, 2nd .................. ASW-R1-4
3rd, 4th .................. ASW-R1-3
Stack B
1st ................ ASW-R1-4
2nd ................ ASW-R1-1
Switch Plate (9) ........ P-137-14

14 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
500 POINT
Armature .................. P-7469
Frame .................. P-7472-1
Spring Retainer .................. P-7491
Switch,
1st ................ ASW-R3-1
2nd, 3rd .................. ASW-R2-1
4th, 5th .................. ASW-R1-3
6th ................ ASW-R1-1
BONUS SCORE
Same as 500 POINT, except
Switch,
Stack A
1st, 2nd .................. ASW-R2-1
3rd, 4th .................. ASW-R1-3
Stack B
1st ................ ASW-R2-1
3rd ................ ASW-R1-1
ALTERNATOR
Same as 500 POINT, except
Switch,
Stack A
1st, 2nd, 3rd, 4th ........ ASW-R3-1
5th ................ ASW-R1-3
LOCK
Same as 500 POINT, except
Switch,
Stack A
1st, 2nd, 3rd, 4th....... ASW-R2-1
2nd, 3rd .................. ASW-R1-3
4th ................ ASW-R1-5
RESET
Same as 500 POINT, except
Switch,
Stack A
1st, 2nd, 3rd, 4th .... ASW-R3-1
2nd, 3rd .................. ASW-R2-1
3rd ................ ASW-R1-1

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
"G" TYPE RELAYS

DELTA QUEEN

14 Bank (CONTINUED)

DELAY ................. AS 2716
Same as DELAY,
Single Relay (Mounting Board),
LITTLE JOE, page 57
OUTMILE
Same as 500 POINT, except
Switch,
Stack A
1st .................. ASW-R1-2
2nd, 3rd, 4th ........ ASW-R1-3
Stack B
1st .................. ASW-R1-2
2nd .................. ASW-R1-3
3rd .................. ASW-R1-1
BALL INDEX
Same as 500 POINT, except
Switch,
1st .................. ASW-R3-1
2nd, 3rd, 4th ........ ASW-R1-3
5th .................. ASW-R1-1
EXTRA BALL
Same as 500 POINT, except
Switch,
1st, 2nd, 3rd ........ ASW-R2-1
4th .................. ASW-R1-3
5th .................. ASW-R1-5
CONTROL
Same as 500 POINT, except
Switch,
1st .................. ASW-R3-1
2nd, 3rd, 4th ........ ASW-R2-1
4th .................. ASW-R1-3
5th .................. ASW-R1-5
OUT BONUS
Same as 500 POINT, except
Switch,
1st, 2nd ............ ASW-R1-3
3rd .................. ASW-R1-1
BONUS HOLE
Same as 500 POINT, except
Switch,
1st, 2nd, 3rd ........ ASW-R1-3
4th .................. ASW-R1-1
CENTER HOLE
Same as 500 POINT, except
Switch,
1st, 2nd, 3rd, 4th .... ASW-R1-3
5th .................. ASW-R1-1
Switch Plate (17) ......... P-137-14

ROGO

5 Bank (Back Cabinet Insert)
Same as 5 Bank (Back Cabinet Insert),
NIP IT, page 63

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
LIGHT RIGHT THUMPER BUMPER .. AS 2659-139
LIGHT LEFT THUMPER BUMPER .. AS 2659-139

Above 2 Relays are identical
Armature ............. P-7469
Frame ................. P-7472-1
Spring Retainer ...... P-7491
Switch, 1st ............ ASW-R3-1
2nd .................. ASW-R1-3
3rd .................. ASW-R1-5
EXTRA BALL TARGET .. AS 2659-137
Same as
LIGHT RIGHT THUMPER BUMPER
except
Switch,
1st, 2nd ............ ASW-R1-4
3rd .................. ASW-R1-1
PLAYER RESET ........ AS 2659-136
Same as PLAY PLAYER RESET
14 Bank (Mounting Board),
AMIGO, page 71
BONUS SCORE ........ AS 2659-135
Same as BONUS SCORE,
14 Bank (Mounting Board),
AMIGO, page 71
BONUS ZERO .......... AS 2652-123
Same as
LIGHT RIGHT THUMPER BUMPER,
except
Switch,
Stack A
1st .................. ASW-R1-3
2nd, 3rd, 4th ......... ASW-R1-3
Stack B
1st .................. ASW-R2-1
2nd, 3rd ............. ASW-R1-3
Switch Plate (7) ...... P-137-14

6 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
RIGHT THUMPER BUMPER, AS 2659-134
LEFT THUMPER BUMPER, AS 2659-134

Above 2 Relays are identical
Armature ............. P-7469
Frame ................. P-7472-1
Spring Retainer ...... P-7491
Switch, 1st ............ ASW-R1-4
2nd, 3rd, 4th ......... ASW-R1-1
5000 POINT .......... AS 2660-12
Same as BONUS SCORE,
14 Bank (Mounting Board),
AMIGO, page 70
ADVANCE ............. AS 2659-133
Same as
RIGHT THUMPER BUMPER,
except
Switch,
1st, 2nd ............ ASW-R1-4
3rd .................. ASW-R1-1
4th .................. ASW-R1-1

6 Bank (Playfield Panel)
(CONTINUED FROM COLUMN 2)
TOP HORSE SHOE ...... AS 2659-132
Same as
RIGHT THUMPER BUMPER,
except
Switch, 1st ............ ASW-R3-1
2nd, 3rd ............. ASW-R1-3
4th .................. ASW-R1-1
TOP LANE ............. AS 2660-11
Same as
RIGHT THUMPER BUMPER,
except
Switch, 1st, 2nd, 3rd .... ASW-R1-4
4th .................. ASW-R1X-1
5th .................. ASW-R1-1
Switch Plate (6) ...... P-137-14

14 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
COIN ................ AS 2662-128
Same as COIN,
14 Bank (Mounting Board),
AMIGO, page 70
2ND COIN CHUTE ...... AS 2659-142
Same as 2ND COIN CHUTE,
14 Bank (Mounting Board),
SKY KINGS, page 69
3RD COIN CHUTE ...... AS 2662-129
Armature ............. P-7469
Eyelet (2) ............ M-122-19
Frame ................ P-7472-2
Grommet (2) .......... R-111-29
Spring Retainer ...... P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th .... ASW-R1-3
Stack B
1st .................. ASW-R1-1
CREDIT ............... AS 2659-141
Same as CREDIT
14 Bank (Mounting Board),
AMIGO, page 70
LOCK ................ AS 2659-140
Same as LOCK,
14 Bank (Mounting Board),
SKY KINGS, page 67
RESET ............... AS 2662-127
Same as RESET,
14 Bank (Mounting Board),
AMIGO, page 67
DELAY ............... AS 2716
Same as DELAY,
Single Relay (Mounting Board),
LITTLE JOE, page 57

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

72
"G" TYPE RELAYS

ROGO
14 Bank (CONTINUED)
OUTHOLE .................. AS-2662-126
Armature ................. P-7469
Frame .................. P-7472-1
Spring Retainer ........ P-7491
Switch,
Stack A
1st, 2nd .................. ASW-R2-1
3rd, 4th .................. ASW-R1-3
Stack B
1st, 2nd .................. ASW-R1-3
3rd, 4th .................. ASW-R1-1
BALL INDEX .................. AS-2659-139
Same as
LIGHT RIGHT THUMPER BUMPER,
6 Bank (Mounting Board),
ROGO, page 72
TILT ........................ AS-2661-4
Same as OUTHOLE, except
Switch,
1st ........................ ASW-R2-17
2nd ........................ ASW-R2-1
3rd, 4th, 5th ............... ASW-R1-3
6th ........................ ASW-R1-5
EXTRA BALL .................. AS-2659-146
Same as OUTHOLE, except
Switch,
1st, 2nd .................. ASW-R2-1
3rd, 4th .................. ASW-R1-3
6th ........................ ASW-R1-1
LEFT HOLE .................. AS-2662-124
Same as OUTHOLE, except
Switch,
Stack A
1st, 2nd, 3rd, 4th .......... ASW-R1-3
Stack B
1st, 2nd .................. ASW-R1-3
3rd, 4th .................. ASW-R1-1
RIGHT HOLE .................. AS-2662-124
Same as LEFT HOLE
LEFT ALLEY ................ AS-2661-5
Same as OUTHOLE, except
Switch,
1st, 2nd, 3rd, 4th, 5th .... ASW-R1-3
6th ........................ ASW-R1-1
Switch Plate (20) ........... P-137-5

BON VOYAGE

Single Relays
(Back Cabinet Insert)
100,000 .................. AS-2651-41
Interlock Relay: see page 90
(Mounting Board)
GAME .......................... AS-2651-17
Interlock Relay: see page 90

4 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below
10 POINT .................. AS-2662-122
Armature .................. P-7469
Eyelet (2) .................. M-122-19
Frame .................. P-7472-2
Grommet (2) ............... R-111-29
Spring Retainer ........ P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th ....... ASW-R1X-1
Stack B
1st ........................ ASW-R1-4
2nd ........................ ASW-R1-1
100 POINT .................. AS-2662-168
Same as 10 POINT, except
Switch,
Stack A
1st ........................ ASW-R1-4
2nd, 3rd .................. ASW-R1X-1
4th ........................ ASW-R1-3
Stack B
1st ........................ ASW-R1-1
1000 POINT .................. AS-2662-120
Same as 10 POINT, except
Switch,
Stack B
1st ........................ ASW-R1X-1
2nd, 3rd .................. ASW-R1X-1
4th ........................ ASW-R1-3
Score Reset .................. AS-2659-154
Armature .................. P-7469
Frame .................. P-7472-1
Spring Retainer ........ P-7491
Switch,
1st, 2nd, 3rd, 4th .......... ASW-R1X-1
Switch Plate (7) ........... P-137-14

5 Bank (Playfield Panel)
SPINNER .................. AS-2659-184
Same as DOWN POST,
14 Bank (Mounting Board),
AMIGO, page 71
LEFT THUMPER BUMPER .... AS-2659-134
RIGHT THUMPER BUMPER .... AS-2659-134
Above 2 Relays are identical
Same as RIGHT THUMPER BUMPER,
6 Bank (Playfield Panel),
ROGO, page 72
500 POINT .................. AS-2659-150
Same as CREDIT,
14 Bank (Mounting Board),
SKY KINGS, page 69

BON VOYAGE

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
COIN .................. AS-2662-128
Same as COIN,
14 Bank (Mounting Board),
AMIGO, page 71
2ND COIN CHUTE ........ AS-2659-142
Same as 2ND COIN CHUTE,
14 Bank (Mounting Board)
SKY KINGS, page 69
3RD COIN CHUTE ........ AS-2659-142
Same as 3RD COIN CHUTE
CREDIT .................. AS-2659-150
Same as CREDIT,
14 Bank (Mounting Board)
SKY KINGS, page 69
LOCK .................. AS-2659-140
Same as LOCK,
14 Bank (Mounting Board)
SKY KINGS, page 69
RESET .................. AS-2662-170
Armature .................. P-7469
Frame .................. P-7472-1
Spring Retainer ........ P-7491
Switch,
Stack A
1st ........................ ASW-R2-1
2nd, 3rd .................. ASW-R2-1
3rd ........................ ASW-R1-3
Stack B
1st ........................ ASW-R1-1
100 POINT .................. AS-2662-169
Same as RESET, except
Switch,
Stack A
1st, 2nd, 3rd ............. ASW-R2-1
3rd, 4th .................. ASW-R1-3
Stack B
1st, 2nd .................. ASW-R1-3
3rd, 4th .................. ASW-R1-1
BALL INDEX .................. AS-2660-16
Same as RESET, except
Switch,
1st ........................ ASW-R3-1
2nd, 3rd, 4th ............. ASW-R1-3
5th ........................ ASW-R1-5
DEMAND .................. AS-2716
Same as DELAY
Single Relay (Mounting Board),
LITTLE JOE, page 57
NO. 1 BONUS .................. AS-266-135
Same as BONUS SCORE,
14 Bank (Mounting Board),
AMIGO, page 71
NO. 2 BONUS .................. AS-2659-132
Same as TOP HORSE SHOE,
6 Bank (Playfield Panel),
ROGO, page 72

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

73
### BON VOYAGE

14 Bank (CONTINUED)

<table>
<thead>
<tr>
<th>Switch</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPOT</td>
<td>AS-2660-12</td>
</tr>
<tr>
<td>Same as BONUS SCORE, 14 Bank (Mounting Board), SKY KINGS, page 70</td>
<td></td>
</tr>
<tr>
<td>3000 POINT</td>
<td>AS-2659-195</td>
</tr>
<tr>
<td>Same as RESET, except Switch, 1st</td>
<td>ASW-R2-1</td>
</tr>
<tr>
<td>2nd, 3rd</td>
<td>ASW-R1-3</td>
</tr>
<tr>
<td>4th</td>
<td>ASW-R1-1</td>
</tr>
<tr>
<td>SPECIAL</td>
<td>AS-2660-12</td>
</tr>
<tr>
<td>Same as SPOT</td>
<td>P-137-14</td>
</tr>
</tbody>
</table>

### BOOMERANG

**Single Relay** (Mounting Board)

- GAME OVER | AS-2651-24
- Interlock Relays: see page 90

4 Bank (Back Cabinet Insert)

- Interlock Relays: see page 90

5 Bank (Back Cabinet Insert)

- Same as 5 Bank (Back Cabinet Insert), NIP IT, page 63

5 Bank (Mounting Board)

- Relays as illustrated, page 49, with variable components listed below

<table>
<thead>
<tr>
<th>Special</th>
<th>AS-2659-117</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as SPECIAL, 7 Bank (Mounting Board), SKY KINGS, page 69</td>
<td></td>
</tr>
<tr>
<td>DOUBLE BONUS</td>
<td>AS-2659-179</td>
</tr>
<tr>
<td>Armature</td>
<td>P-7469</td>
</tr>
<tr>
<td>Frame</td>
<td>P-7472-1</td>
</tr>
<tr>
<td>Spring Retainer</td>
<td>P-7491</td>
</tr>
<tr>
<td>Switch, 1st, 2nd</td>
<td>ASW-R1-3</td>
</tr>
<tr>
<td>CREDIT</td>
<td>AS-2659-150</td>
</tr>
<tr>
<td>Same as CREDIT</td>
<td>AS-2659-136</td>
</tr>
</tbody>
</table>

14 Bank (Mounting Board), SKY KINGS, page 69

| TOP HOLE | AS-2659-178 |
| Same as DOUBLE BONUS, except Switch, 1st, 2nd, 3rd | ASW-R1-3 |
| 4th | ASW-R1-5 |
| Switch Plate | P-137-14 |

8 Bank (Playfield Panel)

- Relays as illustrated, page 49, with variable components listed below

| SPINNER | AS-2659-147 |
| Armature | P-7469 |
| Frame | P-7472-1 |
| Spring Retainer | P-7491 |
| Switch, 1st | ASW-R1-4 |
| 2nd | ASW-R1X-1 |
| 3rd | ASW-R1-3 |
| 4th | ASW-R1-1 |
| Ball Index | AS-2659-139 |
| Same as LIGHT RIGHT THUMPER BUMPER | |
| 6 Bank (Mounting Board), ROGO, page 72 |

**BONUS** (CONTINUED)

- 15,000 BONUS | AS-2659-175 |
| Same as SPINNER, except Switch, 1st, 2nd, 3rd, 4th | ASW-R1-3 |
| “A” | AS-2659-174 |
| “B” | AS-2659-174 |
| “C” | AS-2659-174 |
| “D” | AS-2659-174 |

Above 4 Relays are identical

- Same as SPINNER, except Switch, 1st, 2nd | ASW-R3-1 |
| 3rd | ASW-R1-3 |
| 4th | ASW-R1-5 |

THUMPER BUMPER

- Same as RIGHT THUMPER BUMPER, 6 Bank (Playfield Panel), ROGO, page 72 |

Switch Plate | P-137-14 |

13 Bank (Mounting Board)

| COIN | AS-2662-128 |
| Same as COIN, 14 Bank (Mounting Board), AMIGO, page 70, 2ND COIN CHUTE | AS-2659-142 |
| Same as 2ND COIN CHUTE, 14 Bank (Mounting Board), SKY KINGS, page 69, 3RD COIN CHUTE | AS-2659-129 |
| Same as 3RD COIN CHUTE, 14 Bank (Mounting Board), ROGO, page 72, CREDIT | AS-2659-141 |
| Same as CREDIT, 14 Bank (Mounting Board), AMIGO, page 70 |
| LOCK | AS-2659-140 |
| Same as LOCK, 14 Bank (Mounting Board), SKY KINGS, page 69, RESET | AS-2662-127 |
| Same as RESET, 14 Bank (Mounting Board), AMIGO, page 70, DELAY | AS-2716 |
| Same as DELAY, Single Relay (Mounting Board), LITTLE JOE, page 57, OUTHOLE | AS-2662-126 |
| Same as OUTHOLE, 14 Bank (Mounting Board), ROGO, page 72, BALL INDEX | AS-2659-139 |
| Same as BALL INDEX | AS-2659-139 |

- 6 Bank (Mounting Board), ROGO, page 72, TILT | AS-2661-9 |

- As illustrated, page 49, with variable components listed below

| Armature | A-7469 |
| Frame | P-7472-1 |
| Spring Retainer | P-7491 |
| Switch, 1st | ASW-R3-1 |
| 2nd | ASW-R2-17 |
| 3rd | ASW-R2-1 |
| 4th, 5th | ASW-R1-3 |
| 6th | ASW-R1-5 |

### FLYER

**Single Relay** (Mounting Board)

- GAME OVER | AS-2651-24 |
- Interlock Relays: see page 90 |

3 Bank (Back Cabinet Insert)

- Interlock Relays: see page 90

4 Bank (Back Cabinet Insert)

- Special | AS-2659-117 |
- As SPECIAL |

7 Bank (Mounting Board), SKY KINGS, page 69

| DOUBLE BONUS | AS-2659-179 |
| Same as DOUBLE BONUS, 5 Bank (Mounting Board), BOOMERANG, column 1, this page |
| 500 POINT | AS-2659-150 |
| Same as CREDIT, 14 Bank (Mounting Board), SKY KINGS, page 69, TOP HOLE | AS-2659-178 |
| Same as TOP HOLE, 5 Bank (Mounting Board), BOOMERANG, column 1, this page |

6 Bank (Back Cabinet Insert)

- Relays as illustrated, page 49, with variable components listed below

| 10 POINT | AS-2662-122 |
| Same as 10 POINT, 4 Bank (Back Cabinet Insert), BON VOYAGE, page 73 |

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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

74
"G" TYPE RELAYS

FLICKER

6 Bank (CONTINUED) .................................. AS-2662-162
Armature ........................................ P-7469
Eyelet (2) ........................................... M-122-19
Frame .............................................. P-7472-2
Grommet (2) ....................................... R-111-19
Spring Retainer ................................ P-7491
Switch, Stack A
1st .................................................. ASW-R2-1
2nd, 3rd ........................................... ASW-R1X-1
4th ................................................ ASW-R1-3
Stack B
1st .................................................. ASW-R1-4
2nd ................................................ ASW-R1-1

1000 POINT ....................................... AS-2662-120
Same as 1000 POINT ............................... AS-2662-120

4 Bank (Back Cabinet Insert), BON VOYAGE, page 73
SCORES RESET .................................. AS-2662-119
Armature ........................................ P-7469
Frame .............................................. P-7472-1
Spring Retainer ................................ P-7491
Switch, Stack A
1st, 2nd, 3rd, 4th ................................. ASW-R1X-1
Stack B
Same as Stack A ................................. ASW-R1X-1

2ND PLAYER (A) ................. AS-2665-176
Same as SCORES RESET, except
Switch, 1st, 2nd, 3rd ............................ ASW-R3
4th ................................................ ASW-R1-3
2ND PLAYER (B) ................. AS-2665-177
Same as 2ND PLAYER (A), except
Switch, 1st, 2nd, 3rd, 4th .................... ASW-R3
Switch Plate (10) ....................... P-137-14

8 Bank (Playfield Panel)
Same as 8 Bank (Playfield Panel)
BOOMERANG, page 74

13 Bank (Mounting Board) ..........
COIN ............................................. AS-2662-135
2ND COIN CHUTE ................. AS-2669-142
3RD COIN CHUTE ................. AS-2669-142
CREDIT ........................................ AS-2669-150
LOCK .......................................... AS-2669-140

Above 5 Relays same as first 5 Relays,
14 Bank (Mounting Board), SKY KINGS, page 69
RESET .......................................... AS-2662-163
As illustrated, page 49,
with variable components listed below
Armature ........................................ P-7469
Frame .............................................. P-7472-1
Spring Retainer ................................ P-7491
Switch, Stack A
1st ................................................ ASW-R3-1
2nd .............................................. ASW-R2-1
3rd, 4th ........................................ ASW-R1-3
Stack B
1st, 2nd ...................................... ASW-R2-1
3rd ............................................. ASW-R1-1

100 POINT .................................. AS-2662-445
Same as 10 POINT, except
Switch, Stack A
1st ................................................ ASW-R3-1
2nd .............................................. ASW-R1-3
Stack B
1st ................................................ ASW-R1-6
2nd .............................................. ASW-R1-6

100 POINT .................................. AS-2662-251
Same as 10 POINT, except
Switch, Stack B
1st ................................................ ASW-R1X-1
2nd ............................................. ASW-R1-6

AIR ACES

Single Relay (Mounting Board)
GAME OVER ........................ AS-2661
Interlock Relay: see page 90

5 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below
10 POINT ................................ AS-2662-253
Armature ........................................ P-7469-6
Eyelet (2) ........................................ M-122-19
Frame .............................................. P-7472-10
Grommet (2) .................................. R-111-29
Spring Retainer ................................ P-1562
Switch, Stack A
1st, 2nd, 3rd ................................. ASW-R1X-1
4th ............................................. ASW-R1-3
Stack B
1st ................................................ ASW-R1-3
2nd .............................................. ASW-R1-6

100 POINT .................................. AS-2662-445
Same as 10 POINT, except
Switch, Stack A
1st ................................................ ASW-R3-1
2nd .............................................. ASW-R1-3
4th ............................................. ASW-R1-3
Stack B
1st ................................................ ASW-R1-6
2nd .............................................. ASW-R1-6

AIR ACES

5 Bank (CONTINUED)
No. 1 SCORE RESET ................ AS-2662-250
Armature ........................................ P-7469-6
Frame .............................................. P-7472-7
Spring Retainer ................................ P-1562
Switch, Stack A
1st, 2nd, 3rd, 4th ........................... ASW-R1X-1
Stack B
Same as Stack A

No. 2 SCORE RESET ................ AS-2662-250
Same as No. 1 SCORE RESET
Switch Plate (B) ....................... P-137-14

6 Bank (Mounting Board)
SPECIAL ................................. AS-2669-148
Same as MULTIPLE EXTRA BALLS
14 Bank (Mounting Board), SKY KINGS, page 70
500 .............................................. AS-2660-19
As illustrated, page 49,
with variable components listed below
Armature ........................................ P-7469
Frame .............................................. P-7472-1
Spring Retainer ................................ P-7481
Switch, 1st, 2nd, 3rd ............................ ASW-R2-1
3rd .............................................. ASW-R1-4
4th .............................................. ASW-R1-3
5th ................................................ ASW-R1-1
ADVANCE BONUS .......................... AS-2665-134
Same as RIGHT THUMPER BUMPER,
6 Bank (Playfield Panel), ROGO, page 72
TARGETS DOWN ........................ AS-2662-153
Same as OUTFINGHOLE,
14 Bank (Mounting Board), AMIGO, page 70
DOUBLE BONUS ........................... AS-2665-139
Same as LIGHT RIGHT THUMPER BUMPER,
6 Bank (Mounting Board), ROGO, page 72
SPECIAL LIGHT ......................... AS-2659-151
Same as DOUBLE BONUS
7 Bank (Mounting Board), SKY KINGS, page 69
Switch Plate (7) ....................... P-137-14

7 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
LIGHT TOP LEFT HOLE ... AS-2659-203
LIGHT TOP RIGHT HOLE ... AS-2659-203
Above 2 Relays are identical
Armature ........................................ P-7469
Frame .............................................. P-7472-1
Spring Retainer ................................ P-7491
Switch, 1st ...................................... ASW-R1-3
2nd .............................................. ASW-R1-5
LEFT TOP HOLE ........................ AS-2660-12
Same as BONUS SCORE,
14 Bank (Mounting Board)
SKY KINGS, page 70
RIGHT TOP HOLE .......................... AS-2660-12
Same as LEFT TOP HOLE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

75
"G" TYPE RELAYS

AIR ACES

14 Bank (CONTINUED)

EXTRA BALL ............. AS-2660-21
Same as RESET, except
Switch,
1st, 2nd, 3rd .......... ASW-R2-1
4th ........................ ASW-R1-3
5th ........................ ASW-R1-5
BONUS SCORE ........... AS-2659-135
Same as BONUS SCORE,
14 Bank (Mounting Board),
AMIGO, page 71
BONUS ZERO ............. AS-2660-16
Same as BONUS ZERO,
14 Bank (Mounting Board),
SKY KINGS, page 70
PLAYER RESET ......... AS-2659-136
Same as PLAYER RESET,
14 Bank (Mounting Board),
AMIGO, page 71
Switch Plate (18) ....... P-137-14

KNOCKOUT

Single Relays

GAME OVER .............. AS-2651-31
Interlock Relay: see page 90
SPECIAL ................. AS-2659-211
As illustrated, page 49,
with variable components listed below
Armature ............... P-7469
Frame .................. P-7472-1
Spring Retainer ......... P-7491
Switch,
Stack A
1st ........................ ASW-R2-1
2nd, 3rd, 4th .......... ASW-R1-3
Stack B
1st ........................ ASW-R2-17
2nd ........................ ASW-R2-1
3rd ........................ ASW-R1-1
OUTHOLE ............... AS-2662-136
Same as OUTHOLE,
14 Bank (Mounting Board),
SKY KINGS, page 70
BALL INDEX ............ AS-2659-153
Same as BALL INDEX,
7 Bank (Mounting Board),
SKY KINGS, page 69
TILT ..................... AS-2661-4
Same as TILT,
14 Bank (Mounting Board),
ROGO, page 73

6 Bank (Back Cabinet Insert)

CONTINUED FROM COLUMN 2)

100 POINT ............. AS-2662-168
1000 POINT ............ AS-2662-128
Above 2 Relays
same as Relays with same names,
4 Bank (Back Cabinet Insert)
BON VOYAGE, page 73
SCORES RESET ........ AS-2662-119
2ND PLAYER (A) ........ AS-2659-126
2ND PLAYER (B) ....... AS-2659-177
Above 3 Relays
same as Relays with same names,
6 Bank (Back Cabinet Insert)
FLICKER, page 75
Switch Plate (10) ....... P-137-14

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
DOUBLE BONUS ........ AS-2659-151
Same as DOUBLE BONUS,
7 Bank (Mounting Board)
SKY KINGS, page 69
500 POINT ............. AS-2662-200
Armature ............... P-7469
Frame .................. P-7472-1
Spring Retainer ......... P-7491
Switch,
Stack A
1st ........................ ASW-R2-1
2nd, 3rd, 4th .......... ASW-R1-3
Stack B
1st ........................ ASW-R2-1
3rd ........................ ASW-R1-3
6 Bank (Playfield Panel),
ROGO, page 72
LEFT TARGET .......... AS-2659-213
Same as 600 POINT, except
Switch,
1st, 2nd, 3rd .......... ASW-R1-4
3rd ........................ ASW-R1-3
RIGHT TARGET ........ AS-2659-213
Same as LEFT TARGET,
HOLE .................. AS-2662-201
Same as 600, except
Switch,
Stack A
1st, 2nd, 3rd, 4th .... ASW-R1-3
Switch Plate (8) ....... P-137-14

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
"G" TYPE RELAYS

KNOCKOUT

8 Bank (Playfield Panel)
BONUS ADVANCE ........ AS-2659-117
Same as SPECIAL,
7 Bank (Mounting Board),
SKY KINGS, page 69
RIGHT THUMPER BUMPER . AS-2659-134
LEFT THUMPER BUMPER . AS-2659-134
Above 2 Relays are identical
Same as RIGHT THUMPER BUMPER,
6 Bank (Playfield Panel),
ROGO, page 72
TOP CENTER LANE .... AS-2662-197
As illustrated, page 49,
with variable components listed below
Armature ............... P-7469
Frame ................ P-7472-1
Spring Retainer .......... P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th .... ASW-R1-3
Stack B
1st, 2nd, 3rd, 4th .... ASW-R1-3
LEFT LANE ............. AS-2659-134
RIGHT LANE .......... AS-2659-134
Above 2 Relays are identical
Same as RIGHT THUMPER BUMPER,
6 Bank (Playfield Panel),
LIGIHT LEFT LANE .... AS-2662-198
Same as TOP CENTER LANE, except
Switch,
Stack A
1st, 2nd, 3rd, 4th .... ASW-R3-1
4th .................. ASW-R1-3
Stack B
1st, 2nd, 3rd, 4th .... ASW-R1-3
2nd .................. ASW-R1-5
LIGHT RIGHT LANE .... AS-2662-198
Same as LIGHT LEFT LANE
Switch Plate (11) .......... P-137-14

14 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
2ND COIN SET UP ........ AS-2659-231
Armature ............... P-7469
Eyelet (2) .............. M-122-19
Frame ................ P-7472-2
Grommet (2) ........... R-111-29
Spring Retainer .......... P-7491
Switch,
1st .................. ASW-R3-1
2nd .................. ASW-R1-5
COIN .................. AS-2662-135
Same as COIN,
14 Bank (Mounting Board)
SKY KINGS, page 69
2ND COIN CHUTE ....... AS-2659-131
Same as 2ND COIN SET UP, except
Switch,
1st .................. ASW-R2-1
2nd, 3rd, 4th .... ASW-R1-3
4th .................. ASW-R1-1

KNOCKOUT (CONTINUED)

14 Bank (Mounting Board)
3RD COIN CHUTE ........ AS-2659-232
Same as 2ND COIN SET UP, except
Switch,
1st, 2nd, 3rd ........ ASW-R1-3
4th ................ ASW-R1-1
CREDIT ............... AS-2659-150
LOCK ................ AS-2659-140
Above 2 Relays
Same as 2 Relays with same names,
14 Bank (Mounting Board),
SKY KINGS, page 69
RESET ............... AS-2662-127
Same as RESET,
14 Bank (Mounting Board),
AMIGO, page 70
DELAY ............... AS-2716
Same as DELAY,
Single Relay (Mounting Board),
LITTLE JOE, page 57
OUTHOLE ........... AS-2662-204
Armature ............... P-7469
Frame ................. P-7472-1
Spring Retainer .......... P-7491
Switch,
1st .................. ASW-R3-1
2nd .................. ASW-R2-1
3rd, 4th ............ ASW-R1-3
Stack A
1st, 2nd, 3rd, 4th .... ASW-R1-3
3rd .................. ASW-R1-1
BALL INDEX .......... AS-2659-220
Same as OUTHOLE, except
Switch,
1st .................. ASW-R3-1
2nd .................. ASW-R2-1
3rd .................. ASW-R1-3
4th ................ ASW-R1-5
TILT ................. AS-2662-203
Same as OUTHOLE, except
Switch,
Stack A
1st .................. ASW-R3-1
2nd .................. ASW-R2-1
3rd .................. ASW-R1-3
4th ................ ASW-R1-5
EXTRA BALL ........ AS-2659-148
Same as EXTRA BALL,
14 Bank (Mounting Board),
ROGO, page 73
BONUS SCORE ........ AS-2659-135
Same as BONUS SCORE,
14 Bank (Mounting Board),
AMIGO, page 71
BONUS ZERO ........ AS-2662-202
Same as OUTHOLE, except
Switch,
Stack A
1st .................. ASW-R3-1
2nd, 3rd, 4th .... ASW-R1-3
Stack B
1st .................. ASW-R2-1
2nd .................. ASW-R1-3
Switch Plate (19) .......... P-137-14

WIZARD

Single Relays
(Mounting Board)
GAME OVER ........ AS-2651-50
Interlock Relay: see page 90
(Playfield Panel)
RIGHT AND LEFT
THUMPER BUMPER .... AS-2659-134
Same as RIGHT THUMPER BUMPER,
6 Bank (Playfield Panel),
ROGO, page 72

4 Bank (Back Cabinet Insert)
Interlock Relays: see page 90

5 Bank (Back Cabinet Insert)
Same as 5 Bank (Back Cabinet Insert)
AIR ACES, page 75

6 Bank (Playfield Panel)
WITH INTERLOCK RELAYS
BONUS ADVANCE ........ AS-2659-117
Same as SPECIAL,
7 Bank (Mounting Board),
SKY KINGS, page 69
FLIP RESET ........ AS-2662-197
Same as TOP CENTER LANE,
8 Bank (Playfield Panel),
KNOCKOUT, column 1, this page
NO. 1 FLIP ........ AS-2651-45
NO. 2 FLIP ........ AS-2651-45
NO. 3 FLIP ........ AS-2651-45
NO. 4 FLIP ........ AS-2651-45
Above 4 Relays are Interlock Relays
see page 90
Switch Plate (7) .......... P-137-14

6 Bank (Playfield Panel)
WITHOUT INTERLOCK RELAYS
NO. 1 ................ AS-2659-219
NO. 2 ............... AS-2659-219
NO. 3 ................ AS-2659-219
NO. 4 ................ AS-2659-219
Above 4 Relays are identical
As illustrated, page 49,
with variable components listed below
Armature ............... P-7469
Frame ................. P-7472-1
Spring Retainer .......... P-7491
Switch,
1st, 2nd, 3rd .... ASW-R1-4
3rd, 4th ........ ASW-R1-3
4th ................ ASW-R1-5
TOP THUMPER BUMPER .... AS-2659-134
Same as RIGHT THUMPER BUMPER,
6 Bank (Playfield Panel),
ROGO, page 72
LIGHT SPINNER ........ AS-2659-139
Same as
LIGHT RIGHT THUMPER BUMPER,
6 Bank (Mounting Board),
ROGO, page 72
Switch Plate (6) .......... P-137-14

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

77
"G" TYPE RELAYS

WIZARD

7 Bank (Mounting Board)
LIGHT THUMPER BUMPER. AS-2659-139
Same as LIGHT RIGHT THUMPER BUMPER.
6 Bank (Mounting Board),
ROGO, page 72
DOUBLE BONUS .......... AS-2659-126
Same as GREEN SPECIAL LIGHT,
Single Relay (Mounting Board),
TWIN WIN, page 67
500 ................. AS-2659-135
5000 ................. AS-2659-135
CENTER TARGET .......... AS-2659-135
Above 3 Relays are identical
Same as BONUS SCORE,
14 Bank (Mounting Board),
AMIGO, page 71
LIGHT CENTER TARGET. AS-2659-139
Same as LIGHT RIGHT THUMPER BUMPER.
6 Bank (Mounting Board),
ROGO, page 72
RIGHT LANE ............ AS-2662-217
As illustrated, page 49,
with variable components listed below
Armature ............... P-7469
Frame .................. P-7472-1
Spring Retainer .......... P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th ......... ASW-R1-3
Stack B
1st, 2nd, 3rd .......... ASW-R1-3
4th .......... ASW-R1-1
Switch Plate (8) ........ P-137-14

15 Bank (Mounting Board)
2ND COIN SET UP ........ AS-2659-231
Same as 2ND COIN SET UP,
14 Bank (Mounting Board),
KNOCKOUT, page 77
COIN ........................ AS-2662-218
As illustrated, page 49,
with variable components listed below
Armature ............... P-7469
Eyelet (2) ............... M-122-19
Frame .................. P-7472-2
Grommet (2) ............. R-111-29
Spring Retainer .......... P-7491
Switch,
Stack A
1st, 2nd, 3rd, 4th ......... ASW-R1-3
Stack B
1st, 2nd, 3rd .......... ASW-R1-3
4th .......... ASW-R1-1
2ND COIN CHUTE .......... AS-2659-131
Same as 2ND COIN,
14 Bank (Mounting Board),
KNOCKOUT, page 77
3RD COIN CHUTE .......... AS-2662-135
Same as COIN,
14 Bank (Mounting Board),
SKY KINGS, page 69
CREDIT ........................ AS-2659-141
Same as CREDIT,
14 Bank (Mounting Board),
AMIGO, page 70
LOCK ........................ AS-2659-140
Same as LOCK,
14 Bank (Mounting Board),
SKY KINGS, page 69

WIZARD

15 Bank (CONTINUED)
RESET .................. AS-2662-127
Same as RESET,
14 Bank (Mounting Board),
AMIGO, page 70
DELAY .................. AS-2716
Same as DELAY,
Single Relay (Mounting Board),
LITTLE JOE, page 57
OUTHOLE ........................ AS-2662-219
Same as COIN, column 1, except
Armature ............... P-7469
Frame .................. P-7472-1
Spring Retainer .......... P-7491
Switch,
Stack A
1st, 2nd .......... ASW-R1-1
3rd, 4th .......... ASW-R1-3
BALL INDEX .............. AS-2659-229
Same as BALL INDEX,
14 Bank (Mounting Board),
KNOCKOUT, page 77
TILT ........................ AS-2662-220
Same as OUTHOLE, above, except
Switch,
Stack A
1st ........................ ASW-R2-17
2nd, 3rd, 4th .......... ASW-R1-3
Stack B .................. ASW-R1-5
EXTRA BALL .............. AS-2659-207
Same as OUTHOLE, above, except
Switch,
1st ................. ASW-R2-1
2nd .......... ASW-R1-3
3rd .......... ASW-R1-5
BONUS SCORE .............. AS-2659-135
Same as BONUS SCORE,
14 Bank (Mounting Board),
AMIGO, page 71
BONUS ZERO ................ AS-2662-202
Same as BONUS ZERO,
14 Bank (Mounting Board),
KNOCKOUT, page 77
PLAYER RESET .............. AS-2659-136
Same as PLAYER RESET,
14 Bank (Mounting Board),
AMIGO, page 71
HOLE ........................ AS-2662-201
Same as HOLE,
6 Bank (Mounting Board),
KNOCKOUT, page 76
Switch Plate (23) ........ P-137-14

HI-DEAL

Single Relays (Mounting Board)
GAME ........................ AS-2651-53
GAME OVER ........................ AS-2651-54
Above 2 Relays are Interlock Relays: see page 90

HI-DEAL

4 Bank (Mounting Board)
Relays as illustrated, page 49
with variable components listed below
SPECIAL .................. AS-2659-291
Armature ............... P-7469-6
Frame .................. P-7472-9
Spring Retainer .......... P-1552
Switch,
1st, 2nd, 3rd .......... ASW-R1-3
4th .......... ASW-R1-5
DOUBLE BONUS .............. AS-2659-292
Same as SPECIAL, except
Switch,
1st, 2nd, 3rd .......... ASW-R3-6
4th .......... ASW-R1-6
500 AND ADVANCE BONUS . AS-2659-293
Same as SPECIAL, except
Switch,
Stack A
1st ........................ ASW-R3-6
2nd, 3rd .......... ASW-R2-5
3rd, 4th .......... ASW-R1-3
Stack B .................. ASW-R1-3
Switch Plate (6) ........ P-137-14

5 Bank (Back Cabinet Insert)
Relays as illustrated, page 49,
with variable components listed below
10 POINT .................. AS-2662-253
Same as 10 POINT,
5 Bank (Back Cabinet Insert),
AIR ACES, page 75
100 POINT .................. AS-2662-252
Armature ............... P-7469-6
Eyelet (2) ............... M-122-19
Frame .................. P-7472-9
Grommet (2) ............. R-111-29
Spring Retainer .......... P-1552
Switch,
Stack A
1st, 2nd, 3rd .......... ASW-R1X-1
3rd, 4th .......... ASW-R1-3
Stack B .................. ASW-R1-6
1000 POINT .................. AS-2662-251
Same as 1000 POINT,
5 Bank (Back Cabinet Insert),
AIR ACES, page 75
SCORE RESET .............. AS-2659-300
Armature ............... P-7469-6
Frame .................. P-7472-9
Spring Retainer .......... P-1552
Switch,
1st, 2nd, 3rd, 4th .......... ASW-R1X-1

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

78
"G" TYPE RELAYS

**HI-DEAL**

5 Bank (Back Cabinet Insert)  
(CONTINUED FROM PAGE 78)

100,000 POINT  AS 2659-290  
Same as SCORE RESET, except  
Switch,  
1st  ASW-R3-6  
2nd  ASW-R2-5  
3rd  ASW-R1-3  
4th  ASW-R1-5  
Switch Plate (as required) P-137-14

5 Bank (Playfield Panel)  
Relays as illustrated, page 49, with variable components, listed below  
ACE  AS 2662-293  
KING  AS 2662-293  
QUEEN  AS 2662-293  
JACK  AS 2662-293  
TEN  AS 2662-293

Above 5 Relays are identical  
Armature  P 7469-6  
Frame  P 7472-9  
Spring Retainer  P 1552  
Switch,  
Stack A  
1st  ASW-R3-6  
2nd  ASW-R2-5  
3rd, 4th  ASW-R1-3  
Stack B  ASW-R1-5  
Switch Plate (as required) P-137-14

13 Bank (Mounting Board)  
Relays as illustrated, page 49, with variable components listed below  
2ND COIN SET UP  AS 2659-251  
Armature  P 7469-6  
Eyelet (2)  M 122-19  
Frame  P 7472-10  
Grommet (2)  R 111-29  
Spring Retainer  P 1552  
Switch,  
1st  ASW-R3-6  
2nd  ASW-R1-5  
COIN  AS 2662-258  
Same as 2ND COIN SET UP, except  
Switch,  
Stack A  
1st, 2nd, 3rd, 4th  ASW-R1-3  
Stack B  ASW-R1-6  
2ND COIN CHUTE  AS 2659-253  
Same as 2ND COIN SET UP, except  
Switch,  
1st  ASW-R2-5  
2nd, 3rd  ASW-R1-3  
4th  ASW-R1-6  
3RD COIN CHUTE  AS 2659-261  
Same as 2ND COIN SET UP, except  
Switch,  
1st, 2nd, 3rd  ASW-R1-3  
4th  ASW-R1-6  
CREDIT  AS 2659-285  
Armature  P 7469-6  
Frame  P 7472-9  
Spring Retainer  P 1552  
Switch,  
1st, 2nd, 3rd  ASW-R1-3  
4th  ASW-R1-6

**HI-DEAL**

13 Bank (CONTINUED)  
LOCK  AS 2659-258  
Same as CREDIT, except  
Switch,  
1st  ASW-R2-5  
2nd, 3rd  ASW-R1-3  
RESET  AS 2662-286  
Same as CREDIT, except  
Switch,  
Stack A  
1st, 2nd  ASW-R2-5  
3rd, 4th  ASW-R1-3  
Stack B  
1st  ASW-R2-17  
2nd  ASW-R2-5  
3rd  ASW-R1-6

**BOW AND ARROW**

Single Relay (Mounting Board)  
GAME OVER  AS 2651-55  
Interlock Relay: see page 90

4 Bank (Back Cabinet Insert)  
Interlock Relays: see page 90

5 Bank (Back Cabinet Insert)  
10 POINT  AS 2662-292  
As illustrated, page 49, with variable components, listed below  
Armature  P 7469-6  
Eyelet (2)  M 122-19  
Frame  P 7472-10  
Grommet (2)  R 111-29  
Spring Retainer  P 1552

Switch,  
Stack A  
1st, 2nd  ASW-R1X-1  
3rd, 4th  ASW-R1-3  
Stack B  
1st  ASW-R2-5  
2nd, 3rd  ASW-R1-6  
100 POINT  AS 2662-253  
Same as 10 POINT,  
5 Bank (Back Cabinet Insert),  
AIR ACES, page 75

1000 POINT  AS 2662-251  
Same as 1000 POINT,  
5 Bank (Back Cabinet Insert),  
AIR ACES, page 75

NO. 1 SCORE RESET  AS 2662-250  
Same as NO. 1 SCORE RESET,  
5 Bank (Back Cabinet Insert),  
AIR ACES, page 75

NO. 2 SCORE RESET  AS 2662-250  
Same as NO. 1 SCORE RESET  
Switch Plate (as required) P-137-14

5 Bank (Mounting Board)  
500 POINT  AS 2659-265  
Same as CREDIT,  
13 Bank (Mounting Board), HI-DEAL, column 1, this page

BONUS HOLE SCORE  AS 2662-285  
Same as BONUS SCORE,  
13 Bank (Mounting Board),  
HI-DEAL, column 2, this page

5000 BONUS HOLE  AS 2662-289  
As illustrated, page 49, with variable components listed below  
Armature  P 7469-6  
Frame  P 7472-9  
Spring Retainer  P 1552

Switch,  
Stack A  
1st, 2nd  ASW-R2-5  
3rd, 4th  ASW-R1-3  
Stack B  
1st  ASW-R1-3  
2nd  ASW-R1-6  
TOP HOLE  
AND CENTER TARGET  AS 2662-259

Same as 5000 BONUS HOLE, except  
Switch,  
Stack A  
1st  ASW-R2-5  
2nd, 3rd  ASW-R1-3  
Stack B  
1st  ASW-R1-3  
2nd  ASW-R1-6

Switch Plate (as required) P-137-14

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WHEN ORDERING PART NO. AND NAME OF GAME
“G” TYPE RELAYS

BOW AND ARROW

5 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
- DOUBLE BONUS . AS-2659-287
- Armature P-7469-6
- Frame . P-7472-9
- Spring Retainer . P-1552
Switch
- 1st, 2nd . ASW-R3-6
- 3rd . ASW-R1-3
- A . AS-2662-288
- B . AS-2662-288
- C . AS-2662-288
- D . AS-2662-288

Above 4 Relays are identical
Same as DOUBLE BONUS, except
Switch
- Stack A
- 1st, 2nd, 3rd . ASW-R3-6
- 4th . ASW-R1-3
- Stack B . ASW-R1-5
Switch Plate (as required) . P-137-14

14 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
- 2ND COIN SET UP . AS-2659-251
- Same as 2ND COIN SET UP,
- 13 Bank (Mounting Board),
  HI-DEAL, page 79
- COIN . AS-2662-257
- Armature . P-7469-6
- Eyelet (2) . M-122-19
- Frame . P-7472-10
- Grommet (2) . R-111-29
- Spring Retainer . P-1552
Switch
- Stack A
- 1st, 2nd, 3rd, 4th . ASW-R1-3
- Stack B
- 1st . ASW-R1-3
- 2nd, 3rd . ASW-R1-3
- 4th . ASW-R1-3

OUT HOLE . AS-2662-290
Same as CREDIT, except
Switch
- Stack A
- 1st, 2nd . ASW-R2-6
- 3rd, 4th . ASW-R1-3
- Stack B
- 1st . ASW-R2-6
- 2nd, 3rd . ASW-R1-3
- 4th . ASW-R1-6

BALL INDEX . AS-2659-257
Same as CREDIT, except
Switch
- Stack A
- 1st, 2nd, 3rd . ASW-R2-6
- 4th . ASW-R1-3
- Stack B
- 1st . ASW-R2-6
- 2nd . ASW-R1-3

TILT . AS-2662-291
Same as CREDIT, except
Switch
- Stack A
- 1st, 2nd . ASW-R1-6
- 3rd . ASW-R1-3
- Stack B
- 1st . ASW-R1-6

OUT BONUS SCORE . AS-2662-285
Same as CREDIT, except
Switch
- Stack A
- 1st, 2nd . ASW-R2-5
- 3rd, 4th . ASW-R1-3
- Stack B
- 1st . ASW-R2-5

Switch Plate (as required) . P-137-14

FLIP-FLOP

6 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below
- LEFT AND RIGHT HOLES . AS-2659-260
- FLIP RESET . AS-2659-260

Above 2 Relays are identical
Armature . P-7469-6
Frame . P-7472-9
Spring Retainer . P-1552
Switch
- 1st, 2nd, 3rd . ASW-R1-3
- 4th . ASW-R1-6

PLAYER RESET . AS-2659-286
Same as PLAYER RESET

5 Bank (Mounting Board),
BOW AND ARROW, page 79

500 POINT . AS-2659-286
Same as CREDIT,

14 Bank (Mounting Board),
BOW AND ARROW, column 1, this page
MUSHROOM BUMPER . AS-2662-433
Same as LEFT AND RIGHT HOLES,
except
Switch
- Stack A
- 1st, 2nd, 3rd, 4th . ASW-R1-3
- Stack B . ASW-R1-6

CAM . AS-2662-593
Same as LEFT AND RIGHT HOLES,
except
Switch
- Stack A
- 1st, 2nd, 3rd, 4th . ASW-R3-6
- Stack B . ASW-R3-6
Switch Plate (as required) . P-137-14

8 Bank (Playfield Panel)
Relays as illustrated, page 49,
with variable components listed below
- NO. 1 TARGET . AS-2659-438
- NO. 2 TARGET . AS-2659-438
- NO. 3 TARGET . AS-2659-438
- NO. 4 TARGET . AS-2659-438

Above 4 Relays are identical
Armature . P-7469-6
Frame . P-7472-9
Spring Retainer . P-1552
Switch
- 1st . ASW-R1-3
- 2nd, 3rd . ASW-R1-3
- 4th . ASW-R1-6

NO. 1 FLIP . AS-2662-277
- NO. 2 FLIP . AS-2662-277
- NO. 3 FLIP . AS-2662-277
- NO. 4 FLIP . AS-2662-277

Above 4 Relays are identical
Same as NO. 1 TARGET, except
Switch
- Stack A
- 1st, 2nd . ASW-R1-3
- 3rd, 4th . ASW-R1-3
- Stack B . ASW-R1-3
Switch Plate (as required) . P-137-14

FLIP-FLOP

Single Relay (Mounting Board)
GAME OVER . AS-2651-63
Interlock Relay: see page 91

4 Bank (Back Cabinet Insert)
Interlock Relays: see page 91

5 Bank (Back Cabinet Insert)
Same as 5 Bank (Back Cabinet Insert),
AIR ACES, page 75

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WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

80
“G” TYPE RELAYS

FLIP-FLOP
14 Bank (Mounting Board)
COIN .......................... AS-2662-257
Same as COIN,
14 Bank (Mounting Board),
BOW AND ARROW, page 80
2ND COIN CHUTE ............. AS-2659-253
Same as 2ND COIN CHUTE,
13 Bank (Mounting Board),
HI-DEAL, page 79
CREDIT ........................ AS-2659-256
Same as CREDIT,
14 Bank (Mounting Board)
BOW AND ARROW, page 80
LOCK .......................... AS-2659-258
Same as LOCK,
13 Bank (Mounting Board),
HI-DEAL, page 79
RESET ........................ AS-2662-283
Same as RESET,
14 Bank (Mounting Board),
BOW AND ARROW, page 80
DELAY ........................ AS-2716-2
Same as DELAY,
13 Bank (Mounting Board),
HI-DEAL, page 79
OUTHOLE ...................... AS-2662-255
As illustrated, page 49,
with variable components listed below
Armature .......................... P.7469 6
Frame .......................... P.7472 9
Spring Retainer ............... P.1552
Switch,
Stack A
1st ................................ ASW-R2-5
2nd, 3rd, 4th ................. ASW-R1-3
Stack B
1st, 2nd .......................... ASW-R1-3
3rd ................................ ASW-R1-6
B.BALL INDEX .................. AS-2659-452
As illustrated, page 49,
with variable components listed below
Armature .......................... P.7469 6
Frame .......................... P.7472 9
Spring Retainer ............... P.1552
Switch,
Stack A
1st ................................ ASW-R2-5
2nd, 3rd, 4th ................. ASW-R1-3
Stack B
1st ................................ ASW-R2-5
2nd, 3rd, 4th ................. ASW-R1-3
EXTRA BALL ................. A.S-2659-255
Same as EXTRA BALL,
14 Bank (Mounting Board),
BOW AND ARROW, page 80
BONUS SCORE ................ AS-2659-260
Same as LEFT AND RIGHT HOLES,
6 Bank (Mounting Board),
FLIP FLOP, page 80
BONUS ZERO .................. AS-2662-295
Same as SERIES,
4 Bank (Mounting Board),
HI-DEAL, page 78
500 scores ..................... AS-2659-256
Same as CREDIT,
14 Bank (Mounting Board),
BOW AND ARROW, page 80

FLIP-FLOP (CONTINUED)
14 Bank (CONTINUED) ........ AS-2659-285
Same as CREDIT,
13 Bank (Mounting Board),
HI-DEAL, page 79
Switch Plate (as required) .... P-137-14

HOKUS POKUS

HOKUS POKUS
Single Relays
(Back Cabinet Insert)
2ND COIN .......................... AS-2651-56
Interlock Relay: see page 97
(Mounting Board)
GAME OVER .................. AS-2651-55
Interlock Relay: see page 97
(Playfield Panel)
FREE GATE, RELAY ASSY, AS-2308-18
Base Plate-Bearing Assy ... A-3789
Hub-Roll Pin Assy .......................... A-3788
Relay .......................... AS-2656-6
As illustrated, page 49,
with variable components listed below
Armature Assy ................. P-3509-2
Frame .......................... P.7472 9
Spring Retainer ............... P.1552
Switch,
1st ................................ ASW-R3-6
2nd, 3rd, 4th ................. ASW-R1-6
Switch Plate
Retaining Ring ............... P.6316-6
Set Screw ................. M-1369
Shaft ........................ S-737-58

4 Bank (Playfield Panel)
A ................................... AS-2659-288
B ................................... AS-2659-288
C ................................... AS-2659-288
D ................................... AS-2659-288

Above 4 Relays are identical
As illustrated, page 49,
with variable components listed below
Armature .......................... P.7469 6
Frame .......................... P.7472 9
Spring Retainer ............... P.1552
Switch,
1st ................................ ASW-R3-6
2nd, 3rd, 4th ................. ASW-R1-6
Switch Plate (4) ............. P-137-14

5 Bank (Back Cabinet Insert)
10 POINT .......................... AS-2662-253
Same as 10 POINT,
5 Bank (Back Cabinet Insert)
AIR ACES, page 75
100 POINT .......................... AS-2662-252
Same as 100 POINT,
5 Bank (Back Cabinet Insert),
HI-DEAL, page 79
1000 POINT .......................... AS-2662-251
Same as 1000 POINT,
5 Bank (Back Cabinet Insert),
AIR ACES, page 75
SCORES RESET ................. AS-2662-250
Same as NO. 1 SCORE RESET,
5 Bank (Back Cabinet Insert),
AIR ACES, page 75

5 Bank (Back Cabinet Insert)
1st, 2nd, 3rd, 4th ................. ASW-R3-6
Stack B
1st ................................ ASW-R1-6

Doubles Bonus ................ AS-2662-314
Same as ABCD SERIES, except
Switch,
Stack A
1st, 2nd, 3rd, 4th ................. ASW-R1-3
Stack B
1st ................................ ASW-R1-3

Alternate ................ AS-2662-315
Same as ABCD SERIES, except
Switch,
Stack A
1st, 2nd, 3rd, 4th ................. ASW-R1-3

11 Bank (Mounting Board)
COIN .......................... AS-2659-261
Same as 3RD COIN CHUTE,
13 Bank (Mounting Board),
HI-DEAL, page 79
2ND COIN CHUTE ................ AS-2659-253
CREDIT .......................... AS-2659-285
LOCK .......................... AS-2659-258
Above 3 Relays
same as 3 Relays with same names,
13 Bank (Mounting Board),
HI-DEAL, page 79

CONTINUED
ON NEXT PAGE

81
"G" TYPE RELAYS

HOKUS POKUS

11 Bank (Mounting Board)

RESET .......................... AS-2662-287
As illustrated, page 49,
with variable components listed below
Armature ........................ P-7469-6
Frame ................................ P-7472-9
Spring Retainer ..................... P-1552
Switch,
Stack A ............................ ASW-R3-6
1st .................................. ASW-R2-3
2nd .................................. ASW-R1-3
Stack B ............................ ASW-R2-17
1st .................................. ASW-R1-6
2nd .................................. DELAY

Same as DELAY,
13 Bank (Mounting Board),
HI-DEAL, page 79
OUTHOLE ........................ AS-2662-290
BALL INDEX ........................ AS-2659-257

Above 2 Relays

same as 2 Relays with same names,
14 Bank (Mounting Board),
BOW AND ARROW, page 80
TILT .............................. AS-2659-456

Same as RESET, except
Switch,
1st .................................. ASW-R3-6
2nd .................................. ASW-R2-17
3rd .................................. ASW-R1-5
4th .................................. ASW-R1-3
EXTRA BALL ........................ AS-2662-312

Same as RESET, except
Switch,
Stack A ............................ ASW-R2-5
1st, 2nd, 3rd, 4th .............. ASW-R1-3
Stack B ............................ ASW-R2-5
1st .................................. ASW-R1-5
BONUS SCORE ...................... AS-2662-313

Same as ABCD SERIES,
5 Bank (Mounting Board),
HOKUS POKUS, page 81

OLD CHICAGO

4 Bank (Back Cabinet Insert)

1ST PLAYER 1000,000 ........ AS-2662-543
2ND PLAYER 100,000 ........ AS-2662-543
3RD PLAYER 100,000 ........ AS-2662-543
4TH PLAYER 100,000 ........ AS-2662-543

Above 4 Relays are identical
As illustrated, page 49,
with variable components listed below
Armature ........................ P-7469-6
Frame ................................ P-7472-7
Spring Retainer ..................... P-1552
Switch,
Stack A ............................ ASW-R2-5
1st, 2nd, 3rd, 4th .............. ASW-R1-3
Stack B ............................ ASW-R2-5
1st, 2nd, 3rd, 4th .............. ASW-R1-3

Switch Plate (4) .................. P-137-14

OLD CHICAGO

4 Bank (Playfield Panel)

Relays as illustrated, page 49,
with variable components listed below
SPINNER ........................ AS-2659-252
Armature ........................ P-7469-6
Frame ................................ P-7472-9
Spring Retainer ..................... P-1552
Switch,
1st, 2nd ............................ ASW-R1X-1
3rd .................................. ASW-R1-3
DROP TARGET SPECIAL ........ AS-2659-260
Same as LEFT AND RIGHT HOLES,
6 Bank (Mounting Board),
FLIP FLOP, page 80
ALTERNATOR ...................... AS-2662-266
Same as SPINNER, except
Switch,
Stack A ............................ ASW-R3-6
1st, 2nd, 3rd, 4th .............. ASW-R3-6
Stack B ............................ ASW-R3-6
1st, 2nd, 3rd ....................... ASW-R3-6
TOP HOLE ........................ AS-2662-259

Same as TOP HOLE AND CENTER TARGET,
5 Bank (Mounting Board),
BOW AND ARROW, page 79
Switch Plate (as required) .......... P-137-14

5 Bank (Back Cabinet Insert)

Relays as illustrated, page 49,
with variable components listed below
10 POINT ........................ AS-2662-294
Armature ........................ P-7469-6
Eyelet (2) ........................ M-122-19
Frame ................................ P-7472-8
Grommet (2) ........................ R-111-29
Spring Retainer ..................... P-1552
Switch,
Stack A ............................ ASW-R1X-1
1st, 2nd, 3rd ....................... ASW-R1-3
4th .................................. ASW-R1-3
Stack B ............................ ASW-R1-3
1st .................................. ASW-R1-6
2nd .................................. ASW-R1-6
100 POINT ........................ AS-2662-524

Same as 10 POINT, except
Switch,
Stack A ............................ ASW-R1X-1
1st, 2nd, 3rd ....................... ASW-R1-3
3rd 4th ............................. ASW-R1-3
Stack B ............................ ASW-R1X-1
1st .................................. ASW-R1-6
2nd .................................. ASW-R1-6
1000 POINT ........................ AS-2662-525

Same as 10 POINT, except
Switch,
Stack A ............................ ASW-R1X-1
1st .................................. ASW-R1-6
2nd .................................. ASW-R1-6
100 POINT ........................ AS-2662-250
NO. 1 SCORE RESET ............. AS-2662-250
NO. 2 SCORE RESET ............. AS-2662-250
Above 2 Relays are identical
Same as NO. 1 SCORE RESET,
5 Bank (Back Cabinet Insert),
AIR ACES, page 75
Switch Plate (as required) .......... P-137-14

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

82
CAPT. FANTASTIC

Single Relay (Playfield Panel)
As illustrated, page 49,
with variable components listed below

**ALTERNATOR** ........ AS-2662-533
Armature ............... P-7469-6
Frame .................. P-7472-7
Spring Retainer ........ P-1552
Switch, Stack A 1st, 2nd, 3rd .... ASW-R3-6
4th ................... ASW-R1-3
Stack B 1st, 2nd .......... ASW-R3-6
3rd .................. ASW-R2-5
4th ................... ASW-R1-3
Switch Plate (2) ....... P-137-14
TARGETS DOWN .......... AS-2662-532
Same as ALTERNATOR, except Frame ........ P-7472-9
Switch, Stack A 1st ........ ASW-R2-5
2nd, 3rd, 4th .......... ASW-R1-3
Stack B 1st, 2nd, 3rd .... ASW-R1-3
4th ................... ASW-R1-6
TARGET NO. 1 SEQUENCE . AS-2659-427
Same as ALTERNATOR, except Switch,
1st, 2nd, 3rd .......... ASW-R1-3
4th ................... ASW-R1-5
Switch Plate (1) ........ P-137-14
TARGET NO. 2 SEQUENCE . AS-2662-531
Same as ALTERNATOR, except Eyelot (2) ........ M-122-19
Grommet (2) .......... R-111-29
Frame ................. P-7472-8
Switch, Stack A 1st, 2nd, 3rd, 4th .......... ASW-R1-3
Stack B ................ ASW-R1-5

4 Bank (Back Cabinet Insert)
Same as 4 Bank (Back Cabinet Insert)
OLD CHICAGO, page 82

5 Bank (Back Cabinet Insert),
Same as 5 Bank (Back Cabinet Insert),
OLD CHICAGO, page 82

7 Bank (Mounting Board)
Relays as illustrated, page 49,
with variable components listed below 300 & 3 ADVANCE .... AS-2659-293
Same as 500 AND ADVANCE BONUS, 4 Bank (Mounting Board),
HI-DEAL, page 78
BOTTOM LINE GATE 300 . AS-2662-626
Same as ALTERNATOR, above, except Frame ........ P-7472-9
Switch, Stack A 1st ........ ASW-R3-6
2nd .................. ASW-R2-5
3rd, 4th .......... ASW-R1-3
Stack B ................ ASW-R1-6

7 Bank (CONTINUOUS)
A ........................ AS-2662-527
Same as ALTERNATOR, column one, except Switch,
Stack A 1st, 2nd .......... ASW-R3-6
3rd, 4th .......... ASW-R1-3
Stack B 1st ........... ASW-R2-5
2nd ................... ASW-R1-5
B ........................ AS-2662-528
Same as ALTERNATOR, column one, except Switch,
Stack A 1st, 2nd .......... ASW-R3-6
3rd, 4th .......... ASW-R1-3
Stack B ................ ASW-R1-5
500 ................... AS-2662-529
Same as ALTERNATOR, column one, except Frame ........ P-7472-9
Switch, Stack A 1st ........ ASW-R3-6
2nd, 3rd .......... ASW-R2-5
Stack B 1st ........... ASW-R2-5
2nd ................... ASW-R1-6
OVER THE TOP DELAY . AS-2716-3
Same as OVER THE TOP DELAY,
7 Bank (Mounting Board),
OLD CHICAGO, page 82
GAME OVER .......... AS-2651-61
Interlock Relay: see page 91

14 Bank (Mounting Board)
Relays as illustrated, page 49,
ASSYS. USED AS REQUIRED
2ND COIN CHUTE ASSY... AS-2865-2
Molex Connectors
Plug .................. E-660-1200
Terminal ............... E-661-0001
Relay ................. AS-2659-253
Same as 2ND COIN CHUTE
13 Bank (Mounting Board),
HI-DEAL, page 79
3RD COIN CHUTE ASSY... AS-2665-3
Same as 2ND COIN CHUTE ASSY, above except Relay ................. AS-2662-258
Same as 2ND COIN CHUTE
13 Bank (Mounting Board),
HI-DEAL, page 79
2 COIN-3 PLAY ASSY. . AS-2665
Same as 2ND COIN CHUTE, above, except Relay ................. AS-2662-251
Same as 2ND COIN SET UP
13 Bank (Mounting Board),
HI-DEAL, page 79

CAPT. FANTASTIC

14 Bank (CONTINUOUS)
COIN .................. AS-2662-511
Armature ............... P-7469-6
Eyetel (2) .............. M-122-19
Frame .................. P-7472-7
Grommet (2) .......... R-111-29
Spring Retainer ........ P-1552
Switch, Stack A 1st, 2nd, 3rd, 4th .... ASW-R1-3
Stack B 1st ........... ASW-R2-5
2nd ................... ASW-R1-6
CREDIT ................. AS-2662-285
Same as BONUS SCORE,
13 Bank (Mounting Board),
HI-DEAL, page 79
LOCK .................. AS-2659-411
Armature ............... P-7469-6
Frame ................. P-7472-7
Spring Retainer ........ P-1552
Switch, Stack A 1st, 2nd, 3rd, 4th .... ASW-R1-3
Stack B 1st ........... ASW-R2-5
2nd ................... ASW-R1-6
RESET ................. AS-2662-260
Same as LOCK, above, except Switch,
Stack A 1st, 2nd, 3rd, 4th .... ASW-R3-6
3rd, 4th .......... ASW-R1-3
Stack B ................ ASW-R1-6
DELAY ................ AS-2716-2
Same as DELAY,
13 Bank (Mounting Board),
HI-DEAL, page 79
OUTHOLE ............... AS-2662-530
Same as LOCK, above, except Switch,
Stack A 1st, 2nd, 3rd, 4th .......... ASW-R3-6
3rd, 4th .......... ASW-R1-3
Stack B ................ ASW-R1-6
BALL INDEX ............ AS-2659-257
Same as BALL INDEX,
14 Bank (Mounting Board)
BOW AND ARROW, page 80
TILT ................... AS-2659-410
Same as LOCK, above, except Switch,
1st ................... ASW-R2-17
2nd, 3rd .......... ASW-R1-3
4th ................... ASW-R1-5
EXTRA BALL ............. AS-2669-256
Same as EXTRA BALL,
14 Bank (Mounting Board),
BOW AND ARROW, page 80
BONUS SCORE ............ AS-2662-259
Same as TOP HOLE AND CENTER TARGET,
5 Bank (Mounting Board),
BOW AND ARROW, page 79
PLAYER RESET ........... AS-2659-250
Same as LOCK, above, except
Frame .................. P-7472-7
Switch, 1st ............... ASW-R3-6
2nd ................... ASW-R1-3
3rd ................... ASW-R1-6
Switch Plate (as required).... P-137-14

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

83 (Pages 84-86 reserved.)
"G" TYPE INTERLOCK RELAYS
Other "G" Type Relays shown on page 49

SWITCH BASE SEPARATORS
Switch Base Separators, used only as required, are 9/16 in. by 5/16 in. with 2 holes for switch screw.
1/32 in. thick (approximately) . . . SMB-1
1/16 in. thick (approximately) . . . SMB-2

<table>
<thead>
<tr>
<th>SPRING TABLE</th>
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<tbody>
<tr>
<td>COLOR</td>
</tr>
<tr>
<td>Natural (not dyed)</td>
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<tr>
<td>Red</td>
</tr>
<tr>
<td>Green</td>
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WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
**SKYROCKET**

Single Relays
(Back Cabinet Insert)

<table>
<thead>
<tr>
<th>Type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2ND COIN</td>
<td>AS-2651-2</td>
</tr>
<tr>
<td>As illustrated, page 87, with variable components listed below</td>
<td></td>
</tr>
<tr>
<td>Armature</td>
<td></td>
</tr>
<tr>
<td>Latch Relay</td>
<td>A-3518</td>
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<tr>
<td>Trip Relay</td>
<td>P-7469-1</td>
</tr>
<tr>
<td>Frame</td>
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<tr>
<td>Frame Relay</td>
<td>P-7471</td>
</tr>
<tr>
<td>Trip Relay</td>
<td>P-7473</td>
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<tr>
<td>Spring Retainer (2)</td>
<td>P-7491</td>
</tr>
<tr>
<td>Switch, 1st</td>
<td>ASW-R3-1</td>
</tr>
<tr>
<td>2nd, 3rd</td>
<td>ASW-R2-1</td>
</tr>
<tr>
<td>4th</td>
<td>ASW-R1-3</td>
</tr>
<tr>
<td>Switch Plate</td>
<td>P-137-12</td>
</tr>
</tbody>
</table>

**EXPRESSWAY**

Used in 14 Bank (Mounting Board), EXPRESSWAY, page 53

<table>
<thead>
<tr>
<th>Type</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>GAME OVER</td>
<td>AS-2651-5</td>
</tr>
<tr>
<td>Same as 2ND COIN, Single Relay (Back Cabinet Insert), SKYROCKET, column 1, except Switch,</td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>ASW-R3-1</td>
</tr>
<tr>
<td>2nd, 3rd</td>
<td>ASW-R2-1</td>
</tr>
<tr>
<td>4th, 5th</td>
<td>ASW-R3-7</td>
</tr>
<tr>
<td>Switch Plate</td>
<td>P-137-14</td>
</tr>
</tbody>
</table>

**FOUR MILLION B.C.**

Single Relay
(Mounting Board)

<table>
<thead>
<tr>
<th>Type</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>GAME OVER</td>
<td>AS-2651-1</td>
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<tr>
<td>Same as GAME OVER, Single Relay (Mounting Board), SKYROCKET, above</td>
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<table>
<thead>
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<th>Type</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>Used in 5 bank (Mounting Board), FOUR MILLION B.C., page 51</td>
<td></td>
</tr>
<tr>
<td>TAR PIT</td>
<td>AS-2651-3</td>
</tr>
<tr>
<td>Same as 2ND COIN, Single Relay (Back Cabinet Insert)</td>
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<tr>
<td>SKYROCKET, above, except Switch, Stack A</td>
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</tr>
<tr>
<td>1st, 2nd</td>
<td>ASW-R3-1</td>
</tr>
<tr>
<td>3rd, 4th</td>
<td>ASW-R2-1</td>
</tr>
<tr>
<td>Stack B</td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>ASW-R3-1</td>
</tr>
<tr>
<td>2nd</td>
<td>ASW-R2-1</td>
</tr>
<tr>
<td>3rd, 4th</td>
<td>ASW-R1-3</td>
</tr>
</tbody>
</table>

**LITTLE JOE**

Single Relay (Mounting Board)

GAME OVER ........ AS-2651-18
Same as 2ND COIN, Single Relay (Back Cabinet Insert)

<table>
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<tbody>
<tr>
<td>SKYROCKET, column 1, except Switch, 1st</td>
<td>ASW-R3-1</td>
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<td>2nd, 3rd</td>
<td>ASW-R2-1</td>
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<tr>
<td>4th</td>
<td>ASW-R1-3</td>
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<tr>
<td>5th</td>
<td>ASW-R1-3-7</td>
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<tr>
<td>Switch Plate</td>
<td>P-137-14</td>
</tr>
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</table>

**SPACE TIME**

Single Relay (Mounting Board)

GAME OVER ........ AS-2651-8
Same as 2ND COIN, Single Relay (Back Cabinet Insert), SKYROCKET, column 1, except Switch

<table>
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<tbody>
<tr>
<td>1st</td>
<td>ASW-R3-1</td>
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<tr>
<td>2nd, 3rd</td>
<td>ASW-R2-1</td>
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<tr>
<td>4th</td>
<td>ASW-R1-3</td>
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<tr>
<td>5th</td>
<td>ASW-R3-7</td>
</tr>
<tr>
<td>Switch Plate</td>
<td>P-137-14</td>
</tr>
</tbody>
</table>

**MONTE CARLO**

Single Relay (Mounting Board)

GAME OVER ........ AS-2651-31
Same as 2ND COIN, Single Relay (Back Cabinet Insert), SKYROCKET, column 1, except Switch

<table>
<thead>
<tr>
<th>Type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>ASW-R3-1</td>
</tr>
<tr>
<td>2nd, 3rd</td>
<td>ASW-R2-1</td>
</tr>
<tr>
<td>4th, 5th</td>
<td>ASW-R1-3-7</td>
</tr>
<tr>
<td>Switch Plate</td>
<td>P-137-14</td>
</tr>
</tbody>
</table>

**SEA RAY**

Single Relays
(Back Cabinet Insert)

<table>
<thead>
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<th>Type</th>
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<tbody>
<tr>
<td>2ND COIN</td>
<td>AS-2651-2</td>
</tr>
<tr>
<td>Same as 2ND COIN, Single Relay (Back Cabinet Insert), SKYROCKET, column 1, above (Mounting Board)</td>
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<tr>
<td>GAME OVER</td>
<td>AS-2651-6</td>
</tr>
<tr>
<td>Same as 2ND COIN, Single Relay (Back Cabinet Insert), SKYROCKET, column 1, except Switch, Stack A</td>
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<tr>
<td>1st</td>
<td>ASW-R3-1</td>
</tr>
<tr>
<td>2nd, 3rd, 4th</td>
<td>ASW-R2-1</td>
</tr>
<tr>
<td>5th</td>
<td>ASW-R3-7</td>
</tr>
<tr>
<td>Switch Plate</td>
<td>P-137-14</td>
</tr>
</tbody>
</table>

**ODDS & EVENS**

Single Relay (Mounting Board)

GAME ............ AS-2651-17
Same as 2ND COIN, Single Relay (Back Cabinet Insert), SKYROCKET, Column 1, this page Switch

<table>
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<tbody>
<tr>
<td>1st</td>
<td>ASW-R3-1</td>
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<tr>
<td>2nd, 3rd</td>
<td>ASW-R2-1</td>
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<tr>
<td>4th</td>
<td>ASW-R1-3</td>
</tr>
<tr>
<td>Switch Plate</td>
<td>P-137-14</td>
</tr>
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</table>

**MARINER**

Single Relay
(Mounting Board)

GAME OVER ........ AS-2651-5
Same as GAME OVER, SEA RAY, above

**CONTINUED ON NEXT PAGE**
"G" TYPE INTERLOCK RELAYS

TIME ZONE
Single Relays
(Back Cabinet Insert)
2ND COIN .................. AS-2651-2
Same as 2ND COIN,
Single Relay (Back Cabinet Insert),
SKYROCKET, page 88
(Mounting Board)
GAME OVER .................. AS-2651-8
Same as GAME OVER,
Single Relay (Mounting Board),
SPACE TIME, page 88

NIP-IT
Single Relay (Mounting Board)
GAME OVER .................. AS-2651-24
Same as 2ND COIN,
Single Relay (Back Cabinet Insert),
SKYROCKET, page 88, except
Switch,
1st .......................... ASW-R1-3
2nd, 3rd ........................ ASW-R2-2
4th, 5th, 6th ........................ ASW-R1-3
Switch Plate .................. P-137-14
TILT .......................... AS-2651-25
Same as 2ND COIN,
Single Relay (Back Cabinet Insert),
SKYROCKET, page 88, except
Switch,
1st, 2nd, 3rd ........................ ASW-R2-2
4th .......................... ASW-R1-3
5th, 6th .......................... ASW-R1-3
Switch Plate .................. P-137-14

HI-LO ACE
Single Relays (Mounting Board)
GAME .................. AS-2651-33
Same as 2ND COIN,
Single Relay (Back Cabinet Insert),
SKYROCKET, page 88, except
Switch,
1st .......................... ASW-R3-1
2nd, 3rd ........................ ASW-R2-2
4th, 5th, 6th ........................ ASW-R1-3
Switch Plate .................. P-137-14

CIRCUS
Single Relay (Mounting Board)
GAME OVER .................. AS-2651-31
Same as GAME OVER,
Single Relay (Mounting Board),
MONTE CARLO, page 88

BIG SHOW
Single Relay (Mounting Board)
GAME OVER .................. AS-2651-31
Same as GAME OVER,
Single Relay (Mounting Board),
MONTE CARLO, page 88

BIG SHOW
3 Bank (Back Cabinet Insert)
2ND COIN .................. AS-2651-2
Same as 2ND COIN,
Single Relay (Back Cabinet Insert),
SKYROCKET, page 88
1ST PLAYER 100,000 ........ AS-2651-28
2ND PLAYER 100,000 ........ AS-2651-28
Above 2 Relays are identical
Same as 4TH PLAYER 100,000,
3 BANK (Back Cabinet Insert),
MONTE CARLO, page 88

CHAMP
Single Relay (Mounting Board)
GAME OVER .................. AS-2651-24
Same as GAME OVER,
Single Relay (Mounting Board),
NIP-IT, column 1, this page

Used in 4 Bank (Back Cabinet Insert),
TWIN WIN, page 67
2ND COIN .................. AS-2651-35
Same as 2ND COIN,
Single Relay (Back Cabinet Insert),
SKYROCKET, page 88, except
Switch,
1st, 2nd ........................ ASW-R1-3
3rd, 4th, 5th, 6th ........................ ASW-R1-3
Switch Plate .................. P-137-14

SKY KINGS
Single Relay (Back Cabinet Insert),
100,000 POINT .................. AS-2651-28
Same as 4TH PLAYER 100,000,
3 Bank (Back Cabinet Insert),
MONTE CARLO, page 88
Single Relays (Mounting Board)
GAME .................. AS-2651-17
Same as GAME,
Single Relay (Mounting Board),
ODDS & EVENS, page 88
GAME OVER .................. AS-2651-39
Same as 2ND COIN,
Single Relay (Back Cabinet Insert),
SKYROCKET, page 88, except
Switch,
1st .......................... ASW-R3-1
2nd, 3rd, 4th, 5th, 6th ........................ ASW-R1-3
Switch Plate .................. P-137-14

DELTA QUEEN
Same as in CHAMP,
column 2, this page

AMIGO
Single Relays (Back Cabinet Insert),
SKYROCKET, page 88, except
Switch,
1st, 2nd, 3rd, 4th ........................ ASW-R1-3
5th .......................... ASW-R1-3
6th .......................... ASW-R1-3
Switch Plate .................. P-137-14

ROGO
Single Relay (Mounting Board),
GAME OVER .................. AS-2651-1
Same as GAME OVER,
Single Relay (Mounting Board),
SKYROCKET, page 88
4 Bank (Back Cabinet Insert),
Same as 4 Bank (Back Cabinet Insert),
CIRCUS, column 1, this page

When ordering part, specify part no. and name of game
"G" TYPE INTERLOCK RELAYS

**BON VOYAGE**

Single Relays
(Back Cabinet Insert)
100.000 .................. AS-2651-41
Same as 2nd COIN,
Single Relay (Back Cabinet Insert),
SKY ROCKET, page 88, except Switch,
Stack A
1st, 2nd, 3rd, 4th ........ ASW-R2-1
Stack B
1st .................................. ASW-R2-1
2nd .................................. ASW-R1-3
Switch Plate (2) ................. P-137-14
(Mounting Board)
GAME .................. AS-2651-17
Same as GAME,
Single Relay (Mounting Board),
ODDS & EVENS, page 88

Used in 4 Bank (Mounting Board),
BON VOYAGE, page 73
TILT .......................... AS-2651-25
Same as TILT,
Single Relay (Mounting Board),
HI-LO ACE, page 89

**BOOMERANG**

Single Relay (Mounting Board)
GAME OVER ........................ AS-2651-24
Same as GAME OVER,
Single Relay (Mounting Board),
NIP-IT, page 89
4 Bank (Back Cabinet Insert)
Same as 4 Bank (Back Cabinet Insert),
CIRCUS, page 89

**FLICKER**

Single Relay (Mounting Board)
GAME OVER ........................ AS-2651-24
Same as GAME OVER,
Single Relay (Mounting Board),
NIP-IT, page 89
3 Bank (Back Cabinet Insert),
Same as 3 Bank (Back Cabinet Insert),
BIG SHOW, page 89

**AIR ACES**

Single Relay (Mounting Board),
GAME OVER ........................ AS-2651
Same as GAME OVER,
Single Relay (Mounting Board),
SEA RAY, page 88

**KNOCKOUT**

3 Bank (Back Cabinet Insert)
2ND COIN ........................ AS-2651-2
Same as 2ND COIN,
Single Relay (Back Cabinet Insert),
SKY ROCKET, page 88
1ST PLAYER 100,000 ........ AS-2651-44
2ND PLAYER 100,000 ........ AS-2651-44
Above 2 Relays are identical
Same as 2ND COIN,
Single Relay (Mounting Board),
SKY ROCKET, page 88, except Switch,
Stack A
1st, 2nd, 3rd, 4th ........ ASW-R2-1
Stack B
1st .................................. ASW-R2-1
3rd .................................. ASW-R1-3
Switch Plate (2) ................. P-137-14

**WIZARD**

Single Relay (Mounting Board)
GAME OVER ........................ AS-2651-50
As illustrated, page 87,
with variable components listed below
Armature,
Latch .......................... A-3518-1
Trip .................................. P-7469-7
Frame
Relay (basic) ................. P-7471-1
Trip .................................. P-7473-1
Spring Retainer (2) ........ P-1552
Switch,
1st .................................. ASW-R3-6
2nd, 3rd .................................. ASW-R2-5
4th, 5th .................................. ASW-R3-7
Switch Plate ................. P-137-14

4 Bank (Back Cabinet Insert)
4TH PLAYER 100,000 ........ AS-2651-52
3RD PLAYER 100,000 ........ AS-2651-52
2ND PLAYER 100,000 ........ AS-2651-52
1ST PLAYER 100,000 ........ AS-2651-52
Above 4 Relays are identical
Same as GAME OVER, above, except Switch,
1st, 2nd, 3rd, 4th, 5th ........ ASW-R2-5
6th .................................. ASW-R1-3
Switch Plate ................. P-137-14

Used in 6 Bank (Back Cabinet Insert)
WITH INTERLOCK RELAYS,
WIZARD, page 77
NO. 1 FLIP ........................ AS-2651-45
NO. 2 FLIP ........................ AS-2651-45
NO. 3 FLIP ........................ AS-2651-45
NO. 4 FLIP ........................ AS-2651-45
Same as 2ND COIN,
Single Relay (Back Cabinet Insert)
SKY ROCKET, page 88, except Switch,
Stack A
1st .................................. ASW-R3-1
2nd, 3rd, 4th .................................. ASW-R2-1
Stack B
1st, 2nd, 3rd, 4th ........ ASW-R1-3
Switch Plate (2) ................. P-137-14

**HI-DEAL**

Single Relays (Mounting Board)
GAME .................. AS-2651-53
Same as GAME OVER,
Single Relay (Mounting Board),
WIZARD, column 2, except Switch,
1st .................................. ASW-R3-6
2nd, 3rd .................................. ASW-R2-5
4th, 5th .................................. ASW-R1-3
GAME OVER ........................ AS-2651-64
Same as GAME, above, except Switch,
1st .................................. ASW-R3-6
2nd .................................. ASW-R2-5
3rd .................................. ASW-R1-3
4th, 5th .................................. ASW-R1-37

**BOW AND ARROW**

Single Relay (Mounting Board)
GAME OVER ........................ AS-2651-55
Same as GAME OVER,
Single Relay (Mounting Board),
WIZARD, column 2, except Switch,
1st .................................. ASW-R3-6
2nd, 3rd .................................. ASW-R2-5
4th, 5th .................................. ASW-R1-37
4 Bank (Back Cabinet Insert),
Same as 4 Bank (Back Cabinet Insert),
WIZARD, column 2

**FLIP FLOP**

Single Relay (Mounting Board)
GAME OVER ........................ AS-2651-63
Same as GAME OVER,
Single Relay (Mounting Board),
WIZARD, column 2, except Switch,
1st .................................. ASW-R3-6
2nd, 3rd .................................. ASW-R2-5
4th .................................. ASW-R1-37
4 Bank (Back Cabinet Insert),
Same as 4 Bank (Back Cabinet Insert),
WIZARD, column 2

**HOKUS POKUS**

Single Relays
(Back Cabinet Insert)
2ND COIN ........................ AS-2651-56
Same as GAME OVER,
Single Relay (Mounting Board),
WIZARD, page 90, except Switch, Column 2, except
1st, 2nd .................................. ASW-R3-6
3rd, 4th .................................. ASW-R2-5
5th .................................. ASW-R1-3
(Mounting Board)
GAME OVER ........................ AS-2651-55
Same as GAME OVER,
Single Relay (Mounting Board),
BOW AND ARROW, above

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

CONTINUED

ON NEXT PAGE
"G" TYPE INTERLOCK RELAYS

OLD CHICAGO

Included in
7 Bank (Mounting Board)
OLD CHICAGO, page 82
GAME OVER ......... AS-2651-61
Same as GAME OVER,
Single Relay (Mounting Board),
WIZARD, page 99, except
Frame,
Latch (basic relay) .... P-7471-2
Switch,
Stack A
1st, 2nd ............. ASW-R3-6
3rd, 4th ............. ASW-R2-8
Stack B
1st ................ ASW-R2-5
2nd, 3rd ............. ASW-R1-37
Switch Plate (2) ....... P-137-14

CAPT. FANTASTIC

Included in
7 Bank (Mounting Board),
CAPT. FANTASTIC, page 83
GAME OVER ............ AS-2651-61
Same as GAME OVER,
OLD CHICAGO, above

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

MATCH (00-90) UNITS
New Type column 3, page 94

TO SILENCE BELL
Loosen Bell by turning in counter-clockwise direction. Lower Bell to bottom of slot in mounting bracket. Tighten Bell by turning in clockwise direction.

ADJUSTMENTS
See adjustment instructions, page 97.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

93
**MATCH (00-90) UNITS**

**FASTENERS**
Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Unit, (c) part fastener secures.

---

**SKYROCKET**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-438</th>
</tr>
</thead>
<tbody>
<tr>
<td>As illustrated, page 93, with Bracket, Mounting</td>
<td>P-5052-31</td>
</tr>
<tr>
<td>Coil</td>
<td>C-26-1100</td>
</tr>
<tr>
<td>Contact Plate (wired)</td>
<td>W-1034-11</td>
</tr>
<tr>
<td>Plunger</td>
<td>S-496-100</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1060</td>
</tr>
<tr>
<td>Spring, Extension (red)</td>
<td>SP-100-125</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-18</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-527</td>
</tr>
</tbody>
</table>

---

**FOUR MILLION B.C.**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-404</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in SKYROCKET, except Contact Plate (wired)</td>
<td>W-1034-9</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-501</td>
</tr>
</tbody>
</table>

---

**EXPRESSWAY**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-445</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in SKYROCKET, except Contact Plate (wired)</td>
<td>W-1123-10</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-501</td>
</tr>
</tbody>
</table>

---

**SEA RAY**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-456</th>
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</thead>
<tbody>
<tr>
<td>Same as in SKYROCKET, except Contact Plate (wired)</td>
<td>W-1123-12</td>
</tr>
<tr>
<td>Plunger</td>
<td>S-496-162</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1060</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-19</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-654</td>
</tr>
</tbody>
</table>

---

**MARINER**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-464</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in SKYROCKET, except Contact Plate (wired)</td>
<td>W-1123-12</td>
</tr>
<tr>
<td>Plunger</td>
<td>S-496-100</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1050</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-18</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-501</td>
</tr>
</tbody>
</table>

---

**FIREFALL**

| Same as in FOUR MILLION B.C. |

---

**EL TORO**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-490</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in SKYROCKET, except Contact Plate (wired)</td>
<td>W-1034-14</td>
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**LITTLE JOE**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-490</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in EL TORO, except Contact Plate (wired)</td>
<td>W-1034-9</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-501</td>
</tr>
</tbody>
</table>

---

**SPACE TIME**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-499</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in EL TORO, except Contact Plate (wired)</td>
<td>W-1034-16</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-501</td>
</tr>
</tbody>
</table>

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**MONTE CARLO**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-516</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in EL TORO, except Coil</td>
<td>B-27-1300</td>
</tr>
<tr>
<td>Contact Plate (wired)</td>
<td>W-1123-17</td>
</tr>
<tr>
<td>Plunger</td>
<td>S-496-162</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1060</td>
</tr>
<tr>
<td>Spring, Extension (black)</td>
<td>SP-100-120</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-19</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-614</td>
</tr>
</tbody>
</table>

---

**ODDS & EVENS**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-487</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in MONTE CARLO, except Coil</td>
<td>B-26-1100</td>
</tr>
<tr>
<td>Contact Plate (wired)</td>
<td>W-1123-14</td>
</tr>
<tr>
<td>Spring, Extension (red)</td>
<td>SP-100-125</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-682</td>
</tr>
</tbody>
</table>

---

**TIME ZONE**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-498</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in MONTE CARLO, except Contact Plate (wired)</td>
<td>W-1123-16</td>
</tr>
<tr>
<td>Plunger</td>
<td>S-496-100</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1050</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-28</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-627</td>
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**NIP-IT**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-512</th>
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<tbody>
<tr>
<td>Same as in MONTE CARLO, except Contact Plate (wired)</td>
<td>W-1034-17</td>
</tr>
<tr>
<td>Plunger</td>
<td>S-496-100</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1050</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-18</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-501</td>
</tr>
</tbody>
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**HI-LO ACE**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-518</th>
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<tbody>
<tr>
<td>Same as in MONTE CARLO, except Contact Plate (wired)</td>
<td>W-1034-12</td>
</tr>
<tr>
<td>Plunger</td>
<td>S-496-100</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1050</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-18</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-627</td>
</tr>
</tbody>
</table>

---

**CIRCUS**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-530</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in MONTE CARLO, except Contact Plate (wired)</td>
<td>W-1034-18</td>
</tr>
<tr>
<td>Plunger</td>
<td>S-496-100</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1050</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-18</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-501</td>
</tr>
</tbody>
</table>

---

**BIG SHOW**

Same as in HI-LO ACE

---

**CHAMP**

Same as in MONTE CARLO, except Match Unit | AS 827-549 |
Contact Plate (wired) | W-1034-9 |
Plunger | S-496-100 |
Ratchet & Shaft | C-1050 |
Spring, Extension | Black, SP-100-120 |
Red | SP-100-125 |
Step-up Arm Assy | A-1765-18 |
Wiper Assy | AS-1046-501 |

---

**TWIN WIN**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 827-551</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as in MONTE CARLO, except Contact Plate (wired)</td>
<td>W-1034-19</td>
</tr>
<tr>
<td>Plunger</td>
<td>S-496-100</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1050</td>
</tr>
<tr>
<td>Spring, Extension</td>
<td>Black, SP-100-120</td>
</tr>
<tr>
<td>Red</td>
<td>SP-100-125</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-18</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>AS-1046-627</td>
</tr>
</tbody>
</table>

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**SKY KINGS**

<table>
<thead>
<tr>
<th>Match Unit</th>
<th>AS 1900-165</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as Score Counter Unit, illustrated, page 111, except Base Plate Assy</td>
<td>A-2214-30</td>
</tr>
<tr>
<td>Bracket Mounting</td>
<td>P-6512-1</td>
</tr>
<tr>
<td>Bushing</td>
<td>(Used with Shoulder Stud)</td>
</tr>
<tr>
<td>Contact Plate (wired)</td>
<td>Attached to Base Plate</td>
</tr>
<tr>
<td>Opposite W-999-28</td>
<td>W-999-29</td>
</tr>
<tr>
<td>Elastic Stop Nut</td>
<td>(Used with Shoulder Stud)</td>
</tr>
<tr>
<td>Eyelet (3)</td>
<td>M-122-22</td>
</tr>
<tr>
<td>Grommet (3)</td>
<td>R-111-29</td>
</tr>
<tr>
<td>Reel Lock</td>
<td>NOT USED</td>
</tr>
<tr>
<td>Shoulder Stud</td>
<td>S-2028</td>
</tr>
<tr>
<td>Spacer (black)</td>
<td>(Between 2 Contact Plates)</td>
</tr>
<tr>
<td>Stop Plate</td>
<td>P-5222-1</td>
</tr>
<tr>
<td>Switch</td>
<td>NOT USED</td>
</tr>
<tr>
<td>Wiper Assy</td>
<td>Used with W-999-28</td>
</tr>
<tr>
<td>Used with W-999-29</td>
<td>A-1618-4</td>
</tr>
</tbody>
</table>

---

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

94
MATCH (00-90) UNITS

AMIGO
Same as in CHAMP, page 94

DELTA QUEEN
Match Unit ............. AS-1900-159
Same as in SKY KINGS, page 94, except
Ratchet ............... C.704-2
Switch ............... ASW-M100 2
Switch Plate .......... P.137-13

ROGO
Match Unit ............. AS-1900-168
Same as in SKY KINGS, page 94, except
Ratchet ............... C.704-2
Switch ............... ASW-M200 2
Switch Plate .......... P.137-13

BON VOYAGE

BOOMERANG
Match Unit ............. AS-1900-171
Same as in SKY KINGS, page 94, except
Base Plate Assy. ....... A-2214-24
Rocker Arm ............. NOT USED
Several Minor components, NOT USED

FLICKER
Match Unit ............. AS-1900-170
Same as in SKY KINGS, page 94, except
Base Plate Assy. ....... A-2214-24
Rocker Arm ............. NOT USED
Several minor components, NOT USED

AIR ACES
Match Unit ............. AS-1900-175
Same as in SKY KINGS, page 94, except
Base Plate Assy. ....... A-2214-24
Rocker Arm ............. C.703-1
Several minor components, NOT USED
Switch ............... ASW-M100 2
Switch Plate .......... P.137-13

KNOCKOUT

WIZARD
WIZARD
Same as in BON VOYAGE

HI-DEAL
Match Unit ............. AS-827-611
Same as in EL TORO, page 94, except
Coil ................... B-27-1300
Contact Plate (wired) ... W-1034-20
Spring, Extension (black) ... SF-100-120

BOW AND ARROW

FLIP-FLOP
Same as in BON VOYAGE

HOKUS POKUS through*

CAPT. FANTASTIC
Same as in AIR ACES

*See chronological list of games, pages 1, 2

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
Check unit manually by operating Plunger. After Index Pawl drops into position at base of ratchet-tooth (point at which straight and angular edges of tooth meet), Step-up Arm should over-ride approximately 1/64 in. before being stopped by Step-up Arm Stop ("ear" formed in Base Plate). Bend Stop one way or another to reduce or increase over-ride to approximately 1/64 in. Index Pawl should then properly drop into base of tooth, without binding, when Plunger is lightly operated (without pushing Plunger all the way in). Adjust Stop-Plate against top of Step-up Arm so that unit will step when Step-up Arm is operated manually.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

97
# STEPPING UNITS, CONTINUOUS

## FASTENERS
Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Unit, (c) part fastener secures.

### LITTLE JOE

<table>
<thead>
<tr>
<th>Component</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd Dice Unit</td>
<td>AS-827-489</td>
</tr>
<tr>
<td>As illustrated, page 97, with</td>
<td></td>
</tr>
<tr>
<td>Coil</td>
<td>B-26-1100</td>
</tr>
<tr>
<td>Contact Plate (wired)</td>
<td>W-1123-15</td>
</tr>
<tr>
<td>Switch</td>
<td>ASW-U20</td>
</tr>
<tr>
<td>Wiper Assy.</td>
<td>AS-1046-689</td>
</tr>
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### KNOCKOUT

<table>
<thead>
<tr>
<th>Component</th>
<th>Part No.</th>
</tr>
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<tbody>
<tr>
<td>Center Lane Unit</td>
<td>AS-827-592</td>
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<tr>
<td>As illustrated, page 97, with</td>
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</tr>
<tr>
<td>Coil</td>
<td>8-27-1300</td>
</tr>
<tr>
<td>Contact Plate (wired)</td>
<td>W-1123-18</td>
</tr>
<tr>
<td>Wiper Assy.</td>
<td>AS-1046-781</td>
</tr>
</tbody>
</table>

---

When ordering part, specify part no. and name of game.
Operating Reset Plunger by hand until Ratchet resets to zero position, i.e., until resetting movement stops. Then operate Step-up Plunger, and while holding Step-up Plunger in, check to see that Reset Pawl rests at base of ratchet-tooth (point at which straight and angular edges of tooth meet). If Reset Pawl is not at base of tooth, adjust Spring-Stop (P-3384) until Ratchet moves into position to permit Pawl properly to engage tooth, as described. Then check unit manually by operating Step-Up Plunger. After Reset Pawl drops into position described above, Step-Up Arm should over-ride approximately 1/64 in. before being stopped by Step-Up Arm Stop ("ear" formed in Base Plate). Bend Stop one way or another to reduce or increase over-ride to approximately 1/64 in. Reset Pawl should then properly drop into base of tooth, without binding, when Reset Plunger is lightly operated (without pushing Plunger all the way in).

When ordering parts, specify part no. and name of game.
STEPPING UNITS, FULL RESET

FASTENERS
Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Unit, (c) part fastener secures.

SKYROCKET
Ball Count Unit ............... AS-827-437
As illustrated, page 99, with
Contact Plate (wired) ........ W-1043-13
Ratchet & Shaft ............. C-1090-10
Spring, Extension, ......... Black ............. SP-100-120
Green ............. SP-100-113
Step-up Arm Assy. ........... A-1765-8
Switch, End of stroke (Make) .... ASW-U10
Zero, Break ............. ASW-U20-2
Transfer .................. ASW-U30
Switch Mounting Bracket ........... P-126-247
Switch Plate, Flat ........... P-126-154
Spring .................. P-137-5
Wiper Assy. ............. AS-1046-618

FOUR MILLION B.C.
Ball Count Unit ............... AS-827-439
Same as Ball Count Unit, SKYROCKET, except:
Contact Plate (Wired) ........ W-1043-17
Ratchet & Shaft ............. C-1090-6
Wiper Assy. ............. AS-1046-648
Coin Unit ............. AS-827-417
Same as Ball Count Unit, SKYROCKET, except:
Contact Plate (wired) ........ W-923-208
Ratchet & Shaft ............. C-1090-3-34
Switch Pin .................. M-740
Spring, Extension (2) ........ SP-100-120
Step-up Arm Assy. ........... A-1765-4
Switch, Limit (Break) ....... ASW-U2-5
Wiper Assy. ............. AS-1024-108
Player-up Unit ........ AS-827-403
Same as Ball Count Unit, SKYROCKET, except:
Bushing (with Contact Strip) S-231-332
Contact Plate (wired) ........ W-923-207
Contact Strip Assy. ........ A-1119-77
Ratchet & Shaft ............. C-1090-3
Spring, Retaining ......... SP-433
Switch, Build-up (no blade) .... ASW-U0
End of Stroke (Break) .......... ASW-U20
Zero (Break) ............. ASW-U2
Wiper Assy. ............. AS-1046-620

EXPRESSWAY
Ball Count Unit ............... AS-827-427
Same as Ball Count Unit, SKYROCKET, except:
Contact Plate (wired) ........ W-1043-15
Ratchet & Shaft ............. C-1090-5
Switch, Zero, Break .......... ASW-U2
Make .................. ASW-U1-1
Wiper Assy. ............. AS-1046-626
Name Unit ............. AS-827-446
Same as Ball Count Unit, SKYROCKET, except:
Contact Plate (wired) ........ W-1077-7
Switch, End of stroke .......... ASW-U20
Wiper Assy. ............. AS-1046-650

MARINER
Ball Count Unit ............... AS-827-463
Same as Ball Count Unit, SKYROCKET, except:
Contact Plate (wired) ........ W-1043-17
Ratchet & Shaft ............. C-1090-600
Switch, Break-Break .......... ASW-U22
End of stroke .......... ASW-U10
Wiper Assy. ............. AS-1046-648
Coin Unit ............. AS-827-460
Same as Ball Count Unit, SKYROCKET, except:
Contact Plate (wired) ........ W-923-260
Ratchet & Shaft ............. C-1090-334
Ratchet Pin ............. M 740
Spring Extension (2) ........ SP-100-120
Step-up Arm Assy. ........... A-1765-4
Switch, Limit (Break) ....... ASW-U2-5
Wiper Assy. ............. AS-1024-108
Player-up Unit ........ AS-827-461
Same as Ball Count Unit, SKYROCKET, except:
Bushing (with Contact Strip), S-231-332
Contact Plate (wired) ........ W-923-207
Contact Strip Assy. ........ A-1119-77
Ratchet & Shaft ............. C-1090-3
Spring, Retaining ......... SP-433
Switch, Break Break .......... ASW-U22
Wiper Assy. ............. AS-1046-620

FIREBALL
Ball Count Unit
Coin Unit
Above 2 Units same as in MARINER
Player-up Unit ........... AS-827-467
Same as Ball Count Unit, SKYROCKET, except
Bushing (with Contact Strip), S-231-332
Contact Plate (wired) ........ W-923-207
Contact Strip Assy. ........ A-1119-77
Ratchet & Shaft ............. C-1090-300
Spring, Retaining ......... SP-433
Switch, Break-Break .......... ASW-U22
End of stroke .......... ASW-U20
Wiper Assy. ............. AS-1046-620

EL TORO
Ball Count Unit ............. AS-827-407
Same as Ball Count Unit, SKYROCKET, except
Contact Plate (wired) ........ W-1043-15
Ratchet & Shaft ............. C-1090-5
Switch, Build-up (no blade) .... ASW-U0
Zero (Break) ............. ASW-U2
Wiper Assy. ............. AS-1046-626

LITTLE JOE

SPACE TIME

MONTE CARLO
Units same as in MARINER

TIME ZONE
Ball Count Unit ............. AS-827-469
Same as Ball Count Unit, SKYROCKET, except
Ratchet & Shaft ............. C-1090-1000
Switch, Break-Break .......... ASW-U22
End of stroke .......... ASW-U10

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

100
STANDING UNITS, FULL RESET

NIP-IT
Ball Count Unit
Same as in Mariner
Bonus Unit .................. AS-827-513
Same as Ball Count Unit, SKY ROCKET, page 100, except
Contact Plate (wired) ...... W-1072-26
Ratchet & Shaft .......... C-1050-1000
Spring, Extension (2) ... SP-100-120
Switch, End of Stroke ASW-U20
Zero, Break ASW-U2
Make ASW-U1-2
Wiper Assy. ASW-1046-698
Coin Unit
Same as in MARINER, page 100
Player-up Unit
Same as in FIREBALL, page 100

TWIN WIN
Ball Count Unit
Same as in TIME ZONE

AMIGO
Ball Count Unit
Same as in CIRCUS
Coin Unit
Player-Up Unit
Above 2 Units same as in MARINER, page 100

DELTA QUEEN
Bonus Unit .................. AS-827-562
Same as Ball Count Unit, SKYROCKET, page 100, except
Bracket .................. P-5052-30
Contact Plate (wired) ... W-1072-27
Eyelet (3 used) ............. M-122-19
Grommet (3 used) ......... R-111-29
Plate, Shock Mounting ... P-4640-2
Ratchet & Shaft .......... C-1050-941
Spring, Extension (2) ... SP-100-120
Switch, End of stroke ASW-U20
Limit (Break) ASW-U1-11
Wiper Assy. ASW-1046-750

ROGO

BOOMERANG
Units same as in MARINER, page 100

FLICKER
Ball Count Unit
Same as in TIME ZONE, page 100

AIR ACES
Units same as in MARINER, page 100

KNOCKOUT
Ball Count Unit
Same as in TIME ZONE, page 100
Hole Unit .................. AS-827-594
Same as Ball Count Unit, SKYROCKET, page 100, except
Contact Plate (wired) ... W-1072-43
Ratchet & Switch .......... C-1050-200
Switch, End of Stroke ASW-22
Wiper Assy. ASW-1046-782

WIZARD
Units same as in MARINER, page 100

BOW AND ARROW

FLIP FLOP
Ball Count Unit .................. AS-827-604
Same as Ball Count Unit, SKYROCKET, page 100, except
Contact Plate (wired) ...... W-1043-27
Ratchet & Shaft .......... C-1050-600
Switch, Break-Break ASW-U22
End of stroke ASW-U10
Wiper Assy. ASW-1046-791

HOKUS POKUS
Ball Count Unit .................. AS-827-616
Same as Ball Count Unit, SKYROCKET, page 100, except
Contact Plate (wired) ...... W-1043-28
Switch, Break-Break ASW-U22
End of stroke ASW-U10
Wiper Assy. ASW-1046-801

OLD CHICAGO
Ball Count Unit .................. AS-827-622
Same as Ball Count Unit, SKYROCKET, page 100, except
Contact Plate (wired) ...... W-1043-29
Ratchet & Shaft .......... C-1050-600
Soldering Terminal ........ P-405-14
Switch, Break-Break ASW-U22
End of stroke ASW-U10
Wiper Assy. ASW-1046-802

CAPT. FANTASTIC
Ball Count Unit .................. AS-827-629
Same as Ball Count Unit, SKYROCKET, page 100, except
Coil, Reset CD-29-1600
Contact Plate (wired) ..... W-1043-31
Ratchet & Shaft .......... C-1050-0600
Switch, Break-Break ASW-U22
End of Stroke ASW-U10
Wiper Assy. ASW-1046-809

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

101
# STEPPING UNITS, FULL RESET

## CAPT. FANTASTIC

<table>
<thead>
<tr>
<th>Component</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>Coin Unit</td>
<td>AS-827-626</td>
</tr>
<tr>
<td>Same as Ball Count Unit, SKYROCKET, page 100, except</td>
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</tr>
<tr>
<td>Coil, Reset</td>
<td>CD-29-1600</td>
</tr>
<tr>
<td>Contact Plate (wired)</td>
<td>W-923-260</td>
</tr>
<tr>
<td>Ratchet &amp; Shaft</td>
<td>C-1060-334</td>
</tr>
<tr>
<td>Ratchet Pin</td>
<td>M-740</td>
</tr>
<tr>
<td>Spring, Extension (2)</td>
<td>SP 100-120</td>
</tr>
<tr>
<td>Step-up Arm Assy</td>
<td>A-1765-4</td>
</tr>
<tr>
<td>Switch</td>
<td>ASW-U2-5</td>
</tr>
<tr>
<td>Wiper Assy.</td>
<td>AS-1024-108</td>
</tr>
<tr>
<td>Player-up Unit</td>
<td>AS-827-624</td>
</tr>
<tr>
<td>Same as Ball Count Unit, SKYROCKET, page 100, except</td>
<td></td>
</tr>
<tr>
<td>Bushing</td>
<td>S-231-332</td>
</tr>
<tr>
<td>Coil, Reset</td>
<td>CD-29-1600</td>
</tr>
<tr>
<td>Contact Plate (wired)</td>
<td>W-923-440</td>
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<tr>
<td>Contact Strip Assy</td>
<td>A-1119-84</td>
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<td>SP-433</td>
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<td>Switch</td>
<td>ASW-U22</td>
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<tr>
<td>Wiper Assy.</td>
<td>AS-1046-805</td>
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</tbody>
</table>

When ordering part, specify part no. and name of game.
Operate Reset Plunger by hand until Ratchet resets to zero position, i.e., until resetting movement stops. Then operate Step-up Plunger and, while holding Step-up Plunger in, check to see that Reset Pawl rests at base of ratchet-tooth (point at which straight and angular edges of tooth meet). If Reset Pawl is not at base of tooth, adjust Spring-Stop (P-3384) until Ratchet moves into position to permit Pawl properly to engage tooth, as described. Then check unit manually by operating Step-Up Plunger. After Reset Pawl drops into position described above, Step-up Arm should over-ride approximately 1/64 in. before being stopped by Step-Up Arm Stop ("ear" formed in Base Plate). Bend Stop one way or another to reduce or increase over-ride to approximately 1/64 in. Reset Pawl should then properly drop into base of tooth, without binding, when Reset Plunger is lightly operated (without pushing Plunger all the way in).

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**
## FASTENERS
Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name of Unit, (c) part fastener secures.

### EXPRESSWAY
**Bonus Unit** ............... AS-827-444
As illustrated, page 103, with
Bracket,
Support .................. P-4640-2
Unit Mounting .............. P-5052-30
Contact Plate (wired) ...... W-1072-20
Eyelet (3 used) ............. M-129-19
Grommet (3 used) .......... R-111-29
Ratchet & Shaft .......... C-1050-10
Spring, Extension 
Black .................. SP-100-120
Green .................. SP-100-113
Switch,
End of Stroke ........... ASW-U20
Zero, 
Break .................. ASW-U2-24
Transfer ................ ASW-U3-9
Switch Mounting Bracket ... P-126-247
Switch Plate, 
Flat .................. P-126-154
Spring .................. P-137-5
Wiper Assy ............. AS-1046-629

### HI-LO ACE
**Ball Count Unit** .......... AS-827-517
Same as **Bonus Unit**, EXPRESSWAY,
except
Contact Plate (wired) ...... W-1043-19
Ratchet & Shaft .......... C-1050-800
Switch, Zero, 
Make ................ ASW-U1
Transfer ................ ASW-U3-2

### CIRCUS
**Big Show** ............... AS-827-529
Same as **Bonus Unit**, EXPRESSWAY,
except
Contact Plate (wired) ...... W-1072-27
Ratchet & Shaft .......... C-1050-1901
Switch,
End of stroke ........... ASW-U20
Limit ................ ASW-U1-11
Zero, 
Break ................ ASW-U2-19
Build-up (no blade) ...... ASW-U0
Wiper Assy .......... AS-1046-728

### AMIGO
**Bonus Unit** ............... AS-827-568
Same as **Bonus Unit**, EXPRESSWAY,
except
Contact Plate (wired) ...... W-1043-24
Ratchet & Shaft .......... C-1050-800
Spring, Extension (2 used) .. SP-100-120
Switch,
End of stroke ........... ASW-U20
Zero, 
Make ................ ASW-U1
Transfer ................ ASW-U3-2
Wiper Assy .......... AS-1046-756

### SEA RAY
**MARINER** ............... AS-827-455
Same as **Bonus Unit**, EXPRESSWAY,
except
Contact Plate (wired) ...... W-1072-16
Switch,
End of Stroke ........ ASW-U20
Zero, 
Wiper Assy .......... AS-1046-630

### ODDS & EVENS
**Ball Count Unit** .......... AS-827-486
Same as **Bonus Unit**, EXPRESSWAY,
except
Contact Plate (wired) ...... W-1043-19
Ratchet & Shaft .......... C-1050-800
Switch,
Break ................ ASW-U2-12
Make ................ ASW-U1
Zero, 
Make ................ ASW-U1
Transfer ................ ASW-U3-2
Wiper Assy .......... AS-1046-681

### DELTA QUEEN
**Ball Count Unit** .......... AS-827-561
Same as **Bonus Unit**, EXPRESSWAY,
except
Contact Plate (wired) ...... W-1043-19
Ratchet & Shaft .......... C-1050-800
Switch,
Make ................ ASW-U1-27
Zero, 
Make ................ ASW-U1
Transfer ................ ASW-U3-2
Wiper Assy .......... AS-1046-681

### TWIN WIN
**Bonus Unit** ............... AS-827-552
Same as **Bonus Unit**, EXPRESSWAY,
except
Contact Plate (wired) ...... W-1072-32
Ratchet & Shaft .......... C-1050-1000
Switch, Zero 
Break ................ ASW-U2-19
Build-up (no blade) ...... ASW-U0
Wiper Assy .......... AS-1046-704

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**CONTINUED ON NEXT PAGE**

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

104
STEPPING UNITS, SINGLE STEP RESET

ROGO
Bonus Unit ............... AS-827-570
Same as Bonus Unit, EXPRESSWAY, page 104, except
Contact Plate (wired) .... W-1072-38
Ratchet & Shaft ........ C-1050-2002
Switch, End of Stroke .... ASW-U20
Limit .................. ASW-U1-11
Zero, Break ............. ASW-U2-19
Build-up (no blade) .... ASW-U0
Wiper Assy ................ AS-1046-753

BON VOYAGE
Ball Count Unit
Same as in DELTA QUEEN, page 104

BOOMERANG
Bonus Unit ............... AS-827-578
Same as Bonus Unit, EXPRESSWAY, page 104, except
Contact Plate (wired) .... W-1072-40
Ratchet & Shaft ........ C-1050-1547
Switch, End of stroke .... ASW-U1-14
Limit (Make) ............ ASW-U1-10
With Lifter ............. ASW-U1-11
Without Lifter .......... ASW-U1-12
Zero, Break ............. ASW-U2-19
Transfer, Wiper Assy ... ASW-U3-2
.......................... AS-1046-799

FLICKER
Bonus Unit ............... AS-827-583
Same as Bonus Unit, EXPRESSWAY, page 104, except
Contact Plate (wired) .... W-1072-41
Ratchet & Shaft ........ C-1050-2000
Switch, End of Stroke .... ASW-U20
Limit, Break ............. ASW-U2-19
Build-up (no blade) .... ASW-U0
Wiper Assy ................ AS-1046-739

HOKUS POKUS
Bonus Unit ............... AS-827-615
Same as Bonus Unit, EXPRESSWAY, page 104, except
Contact Plate (wired) .... W-1072-50
Ratchet & Shaft ........ C-1050-1500
Switch, Limit, Break ...... ASW-U2-19
Transfer ................ ASW-U3-2
Wiper Assy ................ AS-1046-800

HI-DEAL
Ball Count Unit
Same as in DELTA QUEEN, page 104
Bonus Unit ............... AS-827-612
Same as Bonus Unit, EXPRESSWAY, page 104, except
Contact Plate (wired) .... W-1072-49
Ratchet & Shaft ........ C-1050-1549
Switch, End of stroke .... ASW-U1-14
Limit (Make), With Lifter .... ASW-U1-10
Without Lifter .......... ASW-U1-11
Zero, Break ............. ASW-U2-19
Transfer, Wiper Assy ... ASW-U3-2
.......................... AS-1046-799

OLD CHICAGO
Bonus Unit ............... AS-827-621
Same as Bonus Unit, EXPRESSWAY, page 104, except
Contact Plate (wired) .... W-1072-47
Ratchet & Shaft ........ C-1050-1044
Switch, Limit, Make .......... ASW-U1-14
Transfer ................ ASW-U3-4
Zero, Break ............. ASW-U2-19
Transfer ................ ASW-U3-2
Wiper Assy ................ AS-1046-794

CAPT. FANTASTIC
Bonus Unit ............... AS-827-628
Same as Bonus Unit, EXPRESSWAY, page 104, except
Coil, Reset ............. CD-29-1600
Contact Plate (wired) .... W-1072-50
Ratchet & Shaft ........ C-1050-1500
Switch, Limit, Make .......... ASW-U1-14
Transfer ................ ASW-U3-2
Zero, Break ............. ASW-U2-19
Transfer ................ ASW-U3-2
Wiper Assy ................ AS-1046-800

AIR ACES
Bonus Unit ............... AS-827-583
Same as Bonus Unit, EXPRESSWAY, page 104, except
Contact Plate (wired) .... W-1072-41
Ratchet & Shaft ........ C-1050-2000
Switch, End of Stroke .... ASW-U20
Limit, Break ............. ASW-U2-19
Build-up (no blade) .... ASW-U0
Wiper Assy ................ AS-1046-739

BOW AND ARROW
Bonus Unit ............... AS-827-610
Same as Bonus Unit, EXPRESSWAY, page 104, except
Contact Plate (wired) .... W-1072-47
Ratchet, Limit (Make) .... C-1050-1046
Switch, With 1/4 in. Lifter ..... ASW-U1-10
With 5/16 in. Lifter ..... ASW-U1-4
Without Lifter .......... ASW-U1-11
Zero, Break ............. ASW-U2-19
Transfer, Wiper Assy ... ASW-U3-2
.......................... AS-1046-794

FLIP FLOP
Bonus Unit ............... AS-827-603
Same as Bonus Unit, EXPRESSWAY, page 104, except
Contact Plate (wired) .... W-1072-46
Ratchet & Shaft ........ C-1050-1903
Switch, End of Stroke .... ASW-U20
Limit, Make .......... ASW-U1-4
Transfer ................ ASW-U3-4
Zero, Break ............. ASW-U2-19
Build-up (no blade) .... ASW-U0
Wiper Assy ................ AS-1046-790

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

105
FLASHER UNITS

Assys. listed at right are identical, except for differences noted in listing on page 108

1. Lockscrew ....................... LS-1032-6-511
2. Washer, Steel .................... P-800-6
3. Spring, Compression ............. SF-230
4. Cup Washer ....................... P-2203
5. Washer, Nylon ................... P-801-357
6. Washer, Bakelite ................ P-801-167
7. Wiper Assy ....................... AS-1046-642
8. Washer, Leather ................ P-801-379
9. Key Washer ...................... P-163-30
10. Same as item 5

SKYROCKET
Skyrocket Unit ................. AS-1889-5
FOUR MILLION B.C.
Volcano Unit .................. AS-1889-6
FIREBALL
Odin Bonus Unit ............... AS-1889-6
SPACE TIME
Flasher Target Unit .......... AS-1889-6
TIME ZONE
Flasher Target Unit .......... AS-1889-6
BOW AND ARROW
Flash Motor Unit ............. AS-1889-9

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
RESISTOR (not shown)
IN AS-1889-5 .................. NOT USED
IN AS-1889-6 .................. NOT USED
IN AS-1889-9 .................. E-115-147

11 Contact Plate (wired)
IN AS-1889-5 .................. W-1072-18
IN AS-1889-6 .................. W-1072-19
IN AS-1889-9 .................. W-1072-48

12 Mounting Bracket Assy., A-3465

13 Motor Shield
IN AS-1889-5 .................. NOT USED
IN AS-1889-6 .................. P-7681-1
IN AS-1889-9 .................. NOT USED

14 Motor
IN AS-1889-5 .................. E-119-410
IN AS-1889-6 .................. E-119-410
IN AS-1889-9 .................. E-119-463

15 Grommet (3 used) .............. R-111-7
16 Shoulder Bushing (3 used) .... S-156-486
17 Magnet Frame Support ........ P-7637-3

18 Latch Magnet Assy.............. AS-2517-3
19 Magnet Frame Assy.............. A-3324
20 Insulator ...................... P-150-95
21 Coil ......................... FC-32-2100
22 Armature Latch ............... P-7207-4
23 Spring, Extension ............. SP-100-294

FASTENERS
Order screws, washers by name or description with reference to
(a) Name of game,
(b) Assy. No.,
(c) Part which fastener secures

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
SPINNER UNIT

SPINNER GATE ASSY.
See Playfield Charts

CHAMP

SKY KINGS
Spinner Unit ................. AS-1900-157
Same as Score Counter Unit, page 111, excepting
Base Plate Assy ............. A-2214-24
FASTENERS
Order by name or description, specifying AS-1900-157 and part fastener screws
Hair Pin
(1 used) .................... M-254
(2 used) .................... M-254-1
Reel Lock .................. NOT USED
Retaining Ring .............. NOT USED
Spring, Torsion ............. NOT USED
Stop Plate .................. P-5222-1
ONLY SWITCH USED IS
Switch ..................... ASW-M-100-2

BON VOYAGE
Spinner Unit ................. AS-1900-172
Same as Spinner Unit, CHAMP, excepting
Contact Plate (wired)
Attached to Base Plate ..... W-999-33
Opposite W-999-33 .......... W-999-34
FASTENERS: refer to AS-1900-172
Switch ........................ NOT USED
Switch Plate .................. NOT USED
Wiper Assy.
Used with W-999-33 .......... A-1618-3
Used with W-999-34 .......... A-1618-4

BOOMERANG

FLICKER

BOW AND ARROW
Spinner Unit ................. AS-1900-157
Same as Spinner Unit, CHAMP

OLD CHICAGO
Spinner Unit .................. AS-1900-180
Same as Spinner Unit, BON VOYAGE, excepting
Contact Plate (wired)
Attached to Base Plate ..... W-999-37
Opposite W-999-37 .......... W-999-38
Wiper Assy.
Used with W-999-37 .......... AS-1618-3
Used with W-999-38 .......... AS-1618-4

RACE UNIT

RACE LAP COUNTERS
See page 112

TWIN WIN
Car Race Unit
YELLOW CAR ............... AS-1900-158
Same as Score Counter Unit, page 111, excepting
FASTENERS
Order by name or description, specifying AS-1900-158 and part fastener screws
Hair Pin
(1 used) .................... M-254
(2 used) .................... M-254-1
Stop Plate .................. P-5222-1
ONLY SWITCHES USED ARE
Switch
Upper ...................... ASW-M300-2
Lower ...................... ASW-A20-7
Switch Plate
With ASW-A20-7 ............ P-137-5
With ASW-M-300-2 .......... P-137-13
GREEN CAR
Same as YELLOW CAR

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

109
COUNTING COMPONENTS

Car-Race Laps Counter ........................................ 112
Replay Counters .................................................. 113-115
Score Counters .................................................... 111-112

TOTAL PLAY COUNTER ("METER"): E-130-10
SNAP-OUT SCORE COUNTER UNITS

CONTACT PLATE ASSY.
A-2212-7

ROCKER ARM
C-703-1

SWITCH

HAIRPIN
M-254-1

COIL BRACKET ASSY.
A-613-95

HAIRPIN
M-254

COIL
CD-29-1600

ROLL PIN
P-1637-43*

S-496-160*

C-435-6*

PLUNGER

DRIVE PAWL

AS-2293-5*

Drive Pawl Assy.

FASTENERS

Order fasteners (nuts, screws, washers, etc.) by name or description with reference to (a) name of part which fastener secures, (b) Score Counter, (c) name of game.

*Starred components of AS-2293-5
May be purchased separately.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

111
SCORE COUNTER

NOTE A
Score Counter Units are illustrated, page 105, without Number Wheel. However, Number Wheel listed below is included in each complete Score Counter Unit.
Black numerals on white, 3 in. dia. C 720-508

NOTE B

5TH DIGIT COUNTER
Dummy Wheel P-7331

SKYROCKET through*
SPACE TIME
00-90 ............... AS-1900-105
100-999 ............. AS-1900-104
1000-9000 .......... AS-1900-105
10000-90000 ........ AS-1900-106
As illustrated, page 111

MONTE CARLO and
ODDS & EVENS
Same as in SKYROCKET, above, except
10000-90000 .............. AS-1900-149
Same as AS-1900-106, SKYROCKET except
Switch .................. ASW-M300-2

TIME ZONE and*
NIP-IT
Same as in SKYROCKET, above

HI-LO ACE through*
CHAMP
Same as in MONTE CARLO, above

TWIN WIN
Same as in SKYROCKET, above

SKY KINGS through*
FLICKER
Same as in MONTE CARLO, above

AIR ACES
Same as in SKYROCKET, above

KNOCKOUT and
WIZARD
Same as in MONTE CARLO, above

HI-DEAL
Same as in MONTE CARLO, above, except
10000-90000 .............. AS-1900-179
Same as AS-1900-149, MONTE CARLO, except
Switch (ADDED)
End of stroke (Blade) .... ASW-A10-43

BOW AND ARROW through*
HOKUS POKUS
Same as in MONTE CARLO, above

*CONTINUED FROM COLUMN 1

OLD CHICAGO and
CAPT. FANTASTIC
Same as in MONTE CARLO, column 1, except
10000-90000 .............. AS-1900-184
Same as AS-1900-149, MONTE CARLO, except
Switch, End of stroke .... ASW-A11-8

CAR-RACE

LAPS COUNTER

YELLOW PLAYER
First Digit ........ AS-1900-105
Second Digit ...... AS-1900-106
As illustrated, page 111

GREEN PLAYER
Same as YELLOW PLAYER

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

112
Operate Reset Plunger by hand until Ratchet resets to zero position, i.e., until resetting movement stops. Then operate Step-up Plunger and, while holding Step-up Plunger in, check to see that Reset Pawl rests at base of ratchet-tooth (point at which straight and angular edges of tooth meet). If Reset Pawl is not at base of tooth, adjust Spring-Stop (P-3384) until Ratchet moves into position to permit Pawl properly to engage tooth, as described. Then check unit manually by operating Step-Up Plunger. After Reset Pawl drops into position described above, Step-Up Arm should override approximately 1/64 in., before being stopped by Step-up Arm Stop ("ear" formed in Base Plate). Bend Stop one way or another to reduce or increase override to approximately 1/64 in. Reset Pawl should then properly drop into base of tooth, without binding, when Reset Plunger is lightly operated (without pushing Plunger all the way in).

SCREWS
Order screws by name or description with reference to (a) name of game, (b) Replay Counter, (c) part screw secures.
NOTE A
Replay Counter Assy. is illustrated without Number Wheel. Complete
Replay Counter includes Number Wheel & Hub Assy., AS-1565,
illustrated page 115.

NOTE B

SKYROCKET through*
MONTE CARLO AS-797-183
As illustrated, page 113, with
Plunger, Step-up S-496-100
Switch,
Limit (Break) ASW-U2-5
Step up Arm (Make) ASW-U1-14
Zero,
Break ASW-U2
Spacer (no blade) ASW-U0
Switch Mounting Plate P-126-247
Switch Plate,
Flat P-126-154
Spring P-137-5

ODDS & EVENS AS-797-231
Same as in SKYROCKET, above, except
Switch,
Step-up Arm (Make) ASW-U1-9
Break ASW-U2-12
Break-Break ASW-U22

TIME ZONE, NIP-IT
Same as in SKYROCKET, above

HI-LO ACE AS-797-265
Same as in SKYROCKET, above, except
Switch, Zero
(Break-Break) ASW-U22

CIRCUS, BIG SHOW
Same as in SKYROCKET, above

CHAMP AS-707-282
Same as in SKYROCKET, above, except
Switch, Step-up Arm
(Make-Break) ASW-U-12

TWIN WIN AS-797-285
Same as in SKYROCKET, above, except
Switch,
End of Stroke (Break) ASW-U2-12
Step-up Arm (Make) ASW-U1-9

SKY KINGS AS-797-295
Same as in SKYROCKET, above, except only switches used are
Switch,
Break ASW-U2-5
Break-Break ASW-U22
Make-Break ASW-U1-14

NOTE B
(CONTINUED FROM COLUMN 1)

AMIGO
Same as in SKYROCKET, column 1

DELTA QUEEN through*
BON VOYAGE
Same as in HI-LO ACE, column 1

BOOMERANG through*
AIR ACES
Same as in SKY KINGS, column 1

KNOCKOUT, WIZARD
Same as in HI-LO ACE, column 1

HI-DEAL through*
HOKUS POKUS AS-797-353
Same as in SKYROCKET, column 1, except
Plunger Assy., Step-up AS-1366-4
Plunger S-496-141
Washer, Large (10 used) P-801-172
Snap P-448-6
Only switches used are
Switch,
Break ASW-U2-5
Break Break ASW-U22
Make ASW-U1-14

NOTE B
(CONTINUED FROM COLUMN 2)

OLD CHICAGO AS-797-384
Same as in SKYROCKET, column 1, except
Plunger Assy., Step-up AS-1366-4
Same as in HI-DEAL, column 2
Spring, Extension SP-100-120
(Sp-200-113 NOT USED
Switch
Same as in HI-DEAL, column 2

CAPT. FANTASTIC AS-797-383
Same as in SKYROCKET, column 1, except
Coil, Reset CD-29-1500
Plunger Assy., Step-up AS-1366-4
Same as in HI-DEAL, column 2
Switch
Same as in HI-DEAL, column 2

*See Chronological list of games, pages 1, 2.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

114
NUMBER WHEEL & HUB ASSY. AS-1565

NUMBER WHEEL
P. 1376-1

WASHER
P-258-23

HUB
C-260

WASHER
P-310-14

WASHER
P-2451

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

115
ANTI-TILT COMPONENTS
ANTI-TILT COMPONENTS

TERMINAL TT-10

SWITCH
ASW-A1X

SOLDER LUG
P-268

SPRING PLATE
P-137-5

SCREW
MS-540-7-110

RETAINER
P-3705-1

BALL
M-168-26

NOT INCLUDED IN ASSY.

BALL TILT ASSYS.

SKYROCKET through* SEA RAY ........ AS-1588-1
AS illustrated above

MARINER through* HOKUS POKUS .... AS-1588-4
Same as AS-1588-1, above, except
   Ball (not included in Assy.) ....... M-168-50
   Plate, Flat (Added) ............. P-126-154
   Retainer (7-7/8 in. long) ......... P-7791
   Switch .......................... ASW-AO-5
   Switch Screw (2) ................ MSSR-00540-1106
   Terminal ........................ P-8000-910
OLD CHICAGO, later games* ......... AS-1588-5
Same as AS-1588-4, above, except
   Terminal ........................ NOT USED

SLAM SWITCH ASSY.

HI-DEAL, later games*
Slam Switch & Bracket Assy. ........ AS-982-1053
Bracket .......................... P-126-408
Switch .......................... ASW-A20-26
Switch Plate ........................ P-137-5
Switch Screw (2) ................. MSSR-00540-1107

PLUMB BOB

SKYROCKET through* SEA RAY
As illustrated above
MARINER, later games*
Similar to illustration above, excepting
   Contact Bracket ................ P-7750
   Hanger ........................ P-7783

*See chronological list of games, pages 1, 2.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

118
ANTI-TILT COMPONENTS
Front Door

SKYROCKET through* MARINER
Tilt Switch & Bracket Assy. ............... AS-982-762
Bracket .................................. P-126-185
Insulator .................................. P-150-77
Plate ....................................... P-126-154
Switch ...................................... ASW-A20
Switch Plate, Flat ......................... P-126-473
Spring ..................................... P-137-5
Switch Screw (2) ......................... MSSR-00540-1114

FIREBALL through* WIZARD
MOUNTED DIRECTLY ON DOOR
Switch, Divider ............................. ASW-A0-10
Tilt (Make) ................................ ASW-A1-09
Switch Guard ............................... P-126-678
Switch Plate, Flat ......................... P-126-153
Spring ..................................... P-137-5
Switch Screw (2) .......................... SFPBR-00832-1110

HI-DEAL, later games*
Tilt Switch & Bracket Assy. ............... AS-982-1065
Bracket .................................... P-126-29
Plate ....................................... P-126-154
Switch ...................................... ASW-A20-26
Switch Plate, Spring ...................... P-137-5
Switch Screw (2) ......................... MSSR-00540-1107

Mounting Board

SKYROCKET through* EL TORO
Tilt Switch & Bracket Assy. ............... AS-982-258
Back-up Plate ............................. P-126-473
Bracket .................................... P-126-29
Insulator .................................. P-150-77
Screw, Parker Kalon, Round Head, Sheet Metal, Type Z (2) ............. No. 4 x 7/8 in.
Switch ...................................... ASW-A20
Switch Plate ............................... P-137-5

LITTLE JOE, later games*
Tilt Switch & Bracket Assy. ............... AS-982-941
Bracket .................................... P-126-29
Switch ...................................... ASW-A1-25
Switch Plate, Flat ......................... P-126-154
Spring ..................................... P-137-5
Switch Screw (2) ......................... MSSR-00540-1108

Playfield

SWITCH
ASW-A1
BRACKET
P-126-408

SCREW
MS-540-10-110

SPRING PLATE
P-137-5

PLATE
P-126-473

TILT-SWITCH & BRACKET ASSY.
AS-982-460

*See chronological list of games, pages 1, 2.
SOUND COMPONENTS

Bell: see page 93
Chime Assy. ................................................. 122
Gong Assys. .................................................. 123
Horn Assy .................................................... 123
Knocker Assy. ................................................ 123
Sounder Assys. ............................................. 123
SOUND COMPONENTS  
CHIME ASSY. AS-2564

1. Canoe Clip (2 used) .......... M-1538
2. Chime Bar,
   Large .................. P-7341
3. Medium .................. P-7340
4. Small .................. P-7339
5. Coil (3 used) ............. CC-31-2000
6. Coil Bracket (6 used) ..... P-108-53
   EACH BRACKET SECURED TO
   MOUNTING BRACKET BY 2 SCREW,
   PARKER KALON, SWAGE FORM
   ........................ No. 8-32 x 3/8 in.
7. Elastic Stop Nut (6 used) .. M-319-6
8. Grommet (6 used) .......... R-111-39
9. Mounting Bracket Assy ... A-3293
10. Plug Bumper (3 used) ..... R-231-14
11. Sound Box ............... C-881
12. Striker & Bushing Assy ... A-550-6

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

122
SOUND COMPONENTS
GONG ASSYS.

GONG ASSY. AS-385-8

BELL P-748-5
SECURED BY
NUT N-1032-1110
NO. 10 LOCK WASHER
PLAIN WASHER PW-10
LARGE WASHER P-801-15

BRACKET ASSY.
A-166-6

COIL BRACKET
SECURED BY
LOCScrew
LS-632-4-510

PLUNGER & RIVET ASSY.
A-316-22

COIL
CB-31-2000

COIL BRACKET
P-108-42

GROMMET R-111-31

HORN ASSY.

HORN ASSY. AS-2854-1
Bracket ........................................... P-126-726
Connector, Male .............................. E-140-2
Horn, 6V. A.C., ................................ M-1795
Screw .............................................. LSPR-832-1103

KNOCKER ASSY.

KNOCKER ASSY. AS-2404-7
Similar to Kickback Assy.
page 183 with
Coil ................................................. A-27-1300
Coil Bracket ...................................... P-108-53
SECURED TO KICKER FRAME
BY 2 SCREW ................................. SFPR-00832-110-
Kicker Frame .................................. P-7378-1
Plug Bumper ...................................... R-231-11
Plunger & Striker Assy. ...................... A-550-5

SOUNDER ASSY.

SOUNDER ASSY. AS-731-9

NUT N-832-1110
NO. 8 SPLIT LOCK WASHER

PLUNGER ASSY.
A-316-25

SP-200-7
SPRING
(NOT VISIBLE)

COIL
C-27-1000

CORE PLUG ASSY. A-613-91
MOUNTING BRACKET P-7377

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
PLAYFIELD PANEL CHARTS

Miscellaneous Playfield Components are shown on Playfield Charts in the following pages.

As new games are introduced, additional Charts will be supplied by means of Supplements.

Playfield components are detailed in Playfield section, commencing on page 156.

IMPORTANT

Note that in addition to showing Playfield components, most Charts also serve as a convenient index to important internal parts. For example, the following is quoted from SPACE TIME Chart, page 132.

15 Bumper Cap ........ C-719-16
Details of Bumper Assys.,
page 167

*See chronological list of games, page 6.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

124
FOUR MILLION B.C. Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A R-521-5, 3 in
B R-521-3, 2 in, (4)
C R-521-2, 1½ in, (4)
D R-521-4, 2½ in, (2)
E R-521-6, 3½ in, (2)
F R-521-1, 1 in, (4)
G R-243, 5/16 in, (3)

OTHER PARTS
1 Bottom Arch P-5871-38
2 Shooter Gauge P-6358-10
3 Side Rail, left CA-1208-11
4 Side Rail, right CA-1208-10
5 Inner Rail A-2900-27
6 Guide Rail A-2900-26
7 Guide Rail A-2890-74
8 Light Shields (set) C-719-16
9 Bumper Cap, blue C-719-13
10 Bumper Cap, green C-719-12
11 Bumper Cap, red R-392
12 Rollover Button C-387-5

PARTS RELATED TO ROLLOVER
See item 14, page 125

13 Flipper Shaft, right AS-2214-6
14 Flipper Shaft, left AS-2214-7

FLIPPER DETAILS, page 175

15 Rollover Wire M-1336-15
16 Rollover Wire M-1336-16
17 Rollover Wire M-1336-2

BRACKETS FOR ABOVE:
See page 191

SWITCHES FOR ABOVE:
See pages 25, 26

18 Ball Guide Wire M-121-29
19 Ball Guide Wire M-121-33
20 Ball Guide Wire M-121-34
21 Ball Guide Wire M-121-35
22 Mushroom Bumper AS-2291
Cap, yellow C-616-3
Eyelet M-122-13
Post C-617-8
Retaining Ring P-2891-4
Rubber Ring R-392
Spring SP-200-163
23 Target Assy., red AS-982-723
As detailed, item 22, page 125

24 Ball Gate & Wire AS-2250-27
Bracket P-5867-11
Wire M-1272-25

25 Ball Gate & Wire AS-2250-25
Bracket P-5867-2
Wire M-1272-5

26 Ball Gate & Wire AS-2250-5
Bracket P-5867-2
Wire, Actuating* M-1272
Swinging M-1272-1

27 Ball Stop A-2898-31
28 Chrome Plate P-5899-13
29 Chrome Plate P-5899-28
30 Chrome Plate P-5899-31
31 Chrome Plate P-5899-11
32 Ball Separator A-3111-1

ACTUATING MECHANISM, 196
33 Ramp Hood P-6629-62
34 Ramp Support, rear P-7715
35 Ramp Channel P-6629-61
36 Ramp Support, front A-3523
37 Rollover Wire M-1336-10

ALSO SEE PARTS LISTED
UNDER ITEM 17 ABOVE

38 Ball Guide Wire M-121-36*

MOVEABLE POSTS
*Not included in Assy.
EXPRESSWAY Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A R-115-4, Rebound
B R-521-3, 2 in. (2)
C R-521-1, 1 in. (2)
D R-243, 5/16 in. (4)
E R-521-5, 3 in.
F R-521-6, 3 3/8 in. (2)
G R-406-3, Flipper (2)
H R-521-4, 2 1/8 in.

OTHER PARTS
1 Top Arch
2 Bottom Arch
3 Shooter Gauge
4 Side Rail, left
5 Side Rail, right
6 Inner Rail
7 Protective Angle
8 Ball Rebound
9 Detailed, item 8, page 125
10 Ball Gate
11 Ball Gate Cover
12 Light Shield (set)
12 Bumper Cap, green
13 Bumper Cap, yellow
14 Rollover Button

PARTS RELATED TO ROLLOVER BUTTON
Bushings
Push-on Fastener
Switch
Switch Stop Bracket
Washer

15 Flipper, white

FLIPPER UNIT: Page 175
16 Rollover Wire
17 Rollover Wire
18 Rollover Wire
19 Rollover Wire

BRACKETS FOR 16, 17, 18:
See page 191

SWITCHES FOR 16, 17, 18:
See pages 25, 26

19 Mushroom Bumper, yellow
Detailed, item 22, page 126
20 Mushroom Bumper, orange
Same as AS-2291, above, excepting
Cap, orange

21 Bumper (Play-More Post)

PLAY-MORE POST: page 185
22 Ball Guide Wire
23 Ball Guide Wire
24 Target Assy.
Detailed, item 22, page 125

127
SEA RAY and MARINER Playfield Chart

RUBBER PARTS
Dimensions are inside diameters.
Numbers in parentheses indicate quantity used, if in excess of one.

A R-115-4 Rebound
B R-521-1, 1 in. (8)
C R-521-2, 1¼ in. (2)
D R-521-3, 2 in. (3)
E R-521-6, 3½ in. (2)
F R-243, 5/16 in. (15)
G R-406-3, Yellow (2)

OTHER PARTS
1 Top Arch ...................... P-6833-61
2 Bottom Arch .................. P-6871-38
3 Shooter Gauge ................ P-5369-10
4 Side Rail, Left .............. CA-1208-2
5 Side Rail, Right ............ CA-1208-1
6 Inner Rail .................... CA-1208-9
7 Rebound Assy ............... AS-493-3
8 Ball Gate ...................... A-1475-1
9 Ball Gate Cover ............ P-2996-5
10 Light Shields (set) ........ A-2890-76
11 Bumper Cap, Red .......... C-719-12
12 Bumper Cap, Blue .......... C-719-16
13 Guide Rail ................... C-693-1
14 Guide Rail ................... C-694-1
15 Rollover Button .......... C-387-5

PARTS RELATED TO ROLLOVER BUTTON
Bushings ....................... S-1599-1
Push-on Fassteer ............ M-298-9
Switch ......................... ASW-A14-4
Switch Stop Bracket ....... P-126-562
Washer ......................... P-801-125

16 Flipper White .............. C-611-5
FLIPPER DETAIL: PAGE 176
17 Bumper ...................... C-810

POST DETAIL: PAGE 184
18 Protective Angle .......... P-7639
19 Ball Guide Wire .......... M-121-33
20 Ball Guide Wire .......... M-121-18
21 Gate Assy ................... AS-2250-11
22 Gate Wire .................... M-1336-1
23 Mushroom Bumper .......... AS-2291-4
24 Mushroom Bumper .......... AS-2291-4
25 Rollover Wire .............. M-1336-10
26 Rollover Wire .............. M-1336-2
27 Rollover Wire .............. M-1336-3
28 Target Assv ............... AS-982-699
29 Target Assv ............... AS-982-723

As detailed, item 22, page 126

INDICATES MOVEABLE POST
FOR SCORING ADJUSTMENT
RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A  R-521-3, 2 in. (5)
B  R-521-4, 2½ in.
C  R-521-2, 1½ in. (2)
D  R-521-5, 3 in. (3)
E  R-521-1, 1 in. (4)
F  R-243, 5/16 in. (6)

OTHER PARTS
1  Bottom Arch . P-5831-38
2  Shooter Gauge . P-6359-10
3  Side Rail, left . CA-1208-16
4  Side Rail, right . CA-1208-17
5  Guide Rail . P-6495-72
6  Guide Rail . P-6495-71
7  Light Shields & Bushing, Screened set . A-2890-81
8  Light Shields & Bushing, Clear set . A-2890-82
9  Bumper Cap, yellow . C-719-17
10  Bumper Cap, blue . C-719-16
11  Rollover Button . C-387-5

PARTS RELATED TO ROLLOVER BUTTON
Bush . S-1559-1
Push-on Fastener . M-298-9
Switch, Break (2 used) . ASW-A2-4
Make (6 used) . ASW-A1-4
Switch Stop Bracket With Break Switch . P-126-570
With Make Switch . P-126-562
Washer . P-801-125
12  Flipper and Shaft, right . AS-2214-6
13  Flipper & Shaft, left . AS-2214-7
Items 12, 13 DETAILED ON PAGE 175
14  Rollover Wire . M-1336-2
15  Rollover Wire . M-1336-9
16  Rollover Wire . M-1336-10
17  Rollover Wire . M-1336-13

BRACKETS FOR ITEMS 14, 15, 16, 17:
See page 191

SWITCHES FOR ITEMS 14, 15, 16, 17:
See pages 25, 26

18  Ball Guide Wire . M-121-18
19  Ball Guide Wire . M-121-34
20  Ball Guide Wire . M-121-37
21  Ball Guide Wire . M-121-38
22  Ball Gate & Wire Assy . AS-2250-12
Detailed Item 24, page 125
23  Ball Gate & Wire Assy . AS-2250-24
Bracket . P-5887-12
Wire . M-1272-17
24  Ball Gate & Wire Assy . AS-2250-29
Bracket . P-5887-12
Wire . M-1272-29
25  Chrome Plated . P-5899-7
26  Mushroom Bumper . AS-2291-10
Cap, blue . C-616-10
Eyelet . M-122-13
Post . C-617-8
Retaining Ring . P-2991-4
Rubber Ring . R-392
Spring . SP-200-162
27  Mushroom Bumper . . AS-2291-11
Same as Item 26, above, excepting Cap, yellow . C-616-17

28  Guide Rail . P-6244-52
29  Gate Wire . M-1335-1
30  Protective Wire . P-7639
31  Stiffener Bracket . P-1973-295
(NOT SHOWN IN CHART)
32  Ramp Hood . P-7803
33  Ramp End . P-7800
(UNDER HOOD)
34  Ramp Support (Front) . P-7806
35  Ramp Support (Rear) . A-3569
(NOT VISIBLE IN CHART)
(LOCATED ON BOTTOM OF PANEL)
36  Spinner Assy . AS-2699

ILLUSTRATED, PAGE 193
EL TORO Playfield Chart

RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R-521-3, 2 in. (3)
B  R-521-1, 1 in. (2)
C  R-521-2, 1½ in. (3)
D  R-521, ½ in.
E  R-521-5, 3 in. (2)
F  R-406-3, yellow (2)
G  R-243-2, 5/16 in. (5)
H  R-243, 5/16 in. (14)

OTHER PARTS

1  Top Arch .................. P-5839-62
2  Bottom Arch ................ P-5871-38
3  Shooter Gauge .............. P-6359-10
4  Side Rail, left ............. CA-1208-2
5  Side Rail, right ............ CA-1208-1
6  Inside Rail .................. CA-1208-14
7  Ball Gate, right ........... A-1475-4
8  Ball Gate, left ............. A-1475-1
9  Ball Gate Cover ............. P-2996-5
10 Light Shield (set) ........... A-2890-79
11 Bumper Cap, green ......... C-719-12
12 Bumper Cap, yellow .......... C-719-17
13 Guide Rail (3 used) .......... C-693-5
14 Guide Rail (4 used) .......... C-694-5
15 Guide Rail (2 used) .......... C-695-5
16 Flipper, white ............. C-611-5
   Flipper Unit, page 175
17 Protective Angle ............ P-7639
18 Ball Guide Wire ............. M-121-30
19 Ball Guide Wire ............. M-121-33
20 Ball & Wire Assy ............ AS-2250-24
   As detailed, item 23, page 129
21 Mushroom Bumper Assy. ... AS-2291
   As detailed, item 22, page 120
22 Rollover Wire .............. M-1336-2
23 Rollover Wire (6 used) .... M-1336-3
24 Rollover Wire (7 used) .... M-1336-10

BRACKETS FOR 22, 23, 24:
   See page 191
SWITCHES FOR 22, 23, 24:
   See pages 25, 26

*  INDICATES MOVABLE POST
   FOR SCORING ADJUSTMENT
LITTLE JOE Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A  R-115-4 (Rebound Rubber)
B  R-115-29 (Insulating Sleeve) (5)
C  R-521-2, 1 1/4 in. (2)
D  R-521-4, 2 1/4 in. (3)
E  R-521-5, 3 in. (3)
F  R-521-7, 4 in.
G  R-406-3 (Flipper) (2)

OTHER PARTS
1  Top Arch ................................................. P-5839-59
2  Bottom Arch .............................................. P-5871-38
3  Shooter Gauge ............................................ P-6369-10
4  Side Rail, left ........................................... CA-1206-2
5  Side Rail, right .......................................... CA-1206-1
6  Inner Rail .................................................. CA-1206-18
7  Rebound Assy ............................................. AS-483-3
Detaile, Item 8, page 125
8  Ball Gate .................................................. A-1475-1
9  Ball Gate Cover ........................................... P-2996-5
10 Light Shields (set) ....................................... A-2830-85
11 Bumper Cap, red .......................................... C-719-12
12 Bumper Cap, yellow ....................................... C-719-17

BUMPER DETAIL: PAGE 167

13 Rollover Button .......................................... C-387-5

PARTS RELATED TO ITEM 13
Bushings .................................................... S-1559-1
Push-on Fastener ........................................... M-298-9
Switch ........................................................ ASW-A1-4
Switch Stop Bracket ...................................... P-126-562
Switch Plate (spring) ..................................... P-137-5
Washers ......... Black Oxided ................................ P-801-258
................ Cadmium Plated ............................. P-801-125
14 Ball Guide Wire ......................................... M-121-24
15 Ball Guide Wire ......................................... M-121-34
16 Ball Guide Wire ......................................... M-121-29
17 Rollover Wire ............................................. M-1336-2
18 Rollover Wire ............................................. M-1336-10
19 Rollover Wire ............................................. M-1336-3

PARTS RELATED TO ITEMS 17, 18, 19
Brackets: see page 191
Switch ........................................................ ASW-A1-5
20 Flipper ..................................................... C-611-5

FLIPPER UNIT: PAGE 176
21 Bumper Post ................................................ C-810

POST ASSYS: PAGE 184
22 Mushroom Bumper Assy, Yellow ................................ AS-2291-11
Detaile, Item 27, page 129
23 Gate & Wire Assy ......................................... AS-2250-4
Bracket ........................................................ P-6000
Spring, Torsion ............................................. SP-463-1
Wire Actuating* ............................................ M-1272*
Gate ............................................................ M-1272-6
Barrier Relay Operated .................................... M-1272-1
24 Gate & Wire Assy ......................................... AS-2250-11
Detaile, Item 21, page 128
25 Target Assy, red .......................................... AS-982-699
Detaile, Item 28, page 128
26 Free Gate Wire ............................................. M-1335-1

GATE ASSY: PAGE 195
27 Protective Angle .......................................... P-7639

*Not part of Assy.
RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A  R-521-2, 1 1/8 in. (6)
B  R-521-1, 1 in. (3)
C  R-521-3, 2 in. (2)
D  R-521-4, 2 1/2 in. (2)
E  R-521-5, 3 in. (2)
F  R-406-3 (Yellow) (2)
G  R-243, 5/16 in. (4)

OTHER PARTS
1  Top Arch ................ P-5839-54
2  Bottom Arch ................ P-5871-38
3  Shooter Gauge ................ P-6359-10
4  Side Rail, left ............... CA-1208-15
5  Side Rail, right ............. CA-1208-1
6  Ball Guide, bottom right .... P-6495-66
7  Ball Guide, top right ........ P-6495-66
8  Ball Guide, left ............. P-6495-66
9  Ball Gate, left .............. A-1475-4
10 Ball Gate, right ............ A-1475-1
11 Ball Gate Cover (2 used) . P-2996-5
12 Light Shields (set) .......... A-2890-87
13 Plate ......................... P-5899-29
14 Bumper Cap .................. C-719-12
15 Bumper Cap .................. C-719-16
Details of Bumper Assy., page 167
16 Flipper, white ............... C-611-5
Details of Flipper Assy., page 175
17 Guide Wire .................. M-121-28
18 Guide Wire .................. M-121-18
19 Gate & Wire Assy. ........... AS-2250-28
20 Gate & Wire Assy. ........... AS-2250-28
Bracket ......................... P-5867-14
21 Gate, Spring, Torsion .......... SP-463-1
22 Gate, Actuating* ............. M-1272*
23 Gate, Barrier ................ M-1272-27
24 Gate, Relay Operated .......... M-1272-28
*Not included in Assy.
25 Gate & Wire Assy. ........... AS-2250-4
26 Gate & Wire Assy. ........... AS-2250-4

As detailed, item 23, page 131
21 Gate Bracket ................ P-5867-2
22 Rollover Wire (2 used) ........ M-1336-2
23 Rollover Wire (2 used) ........ M-1336-3
24 Rollover Wire (2 used) ........ M-1336-9
25 Rollover Wire (2 used) ........ M-1336-10
26 Rollover Wire ................. M-1336-13

Brackets for Items 22-26: page 191
Switches for Items 22-26: pages 25, 26
27 Target Assy. (4 used) ........ AS-982-699
As detailed, item 28, page 128
28 Target Assy .................. AS-982-723
As detailed item 22, page 125
29 Window Gasket ................ M-1398
30 Playfield Window ............ M-1499
Details of units with items 29, 30, pages 107, 108
31 Rollover Button (2 used). . C-387-5
Parts related to item 31: see parts listed under item 13, page 131
32 Bumper ....................... C-810
Details of Playmore Post, page 185

*INDICATES MOVABLE POSTS FOR SCORING ADJUSTMENTS
MONTE CARLO, ODDS & EVENS Playfield Chart

RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R-521-3, 2 in.  ——  1
B  R-521-5, 3 in. (3) —— 3
C  R-521-1, 1 in. —— 1
D  R-521-2, ½ in. (4) —— 4
E  R-521-4, ⅛ in. —— 1
F  R-243 —— 1 2
G  R-406-3 (Flipper) (2) ——

OTHER PARTS

1  Top Arch  ...............  P-5839-63
2  Bottom Arch  ............  P-5871-38
3  Shooter Gauge  ..........  P-6359-10
4  Side Rail, left  ..........  CA-1208-15
5  Side Rail, right  ........  CA-1208-1
6  Inner Rail  .............  CA-1208-141
7  Guide Rail Assy  ..........  A-3032-17
8  Light Shield (set)  .......  A-2890-90
9  Bumper Cap, blue  ......  C-719-16
10 Bumper Cap, yellow  ....  C-719-17
Details of Thumper Bumper Assys. appear on page 167, plus
Elastic Stop Nut  ..........  M-319-6
11 Rollover Button, small  ...  C-387-6
12 Rollover Button, large  ..  C-387-5
PARTS RELATED TO ITEMS 11, 12:
See parts listed under item 13,
page 131
13 Ball Gate, left  ..........  A-1475-4
14 Ball Gate, right  ........  A-1475-1
15 Ball Gate Cover  ..........  P-2996-5
16 Flipper  .................  C-611-5
Details of Flipper Assys.
appear on page 175
17 Post, Playmore  ..........  C-810
Details of Post Assys.
appear on page 185
18 Mushroom Bumper, blue  ..  AS-2291-17
Cap & Plunger  .............  C-616-17
Eyelet  ..................  M-122-13
Post  ....................  C-617-8
Ring, Retaining  ...........  P-2891-4
Rubber  ..................  R-392  2
Spring, Compression  .......  SP-200-162
19 Mushroom Bumper, red  ..  AS-2291-18
Same as item 18, excepting
Cap  .....................  C-616-18
PARTS RELATED TO ITEMS 18, 19:
Pal Nut  ..................  M-1314-2
Switch  ..................  ASW-A-209
20 Rollover Wire  ..........  M-1336-10
21 Rollover Wire  ..........  M-1336-2
Brackets for item 20, 21:
page 191
Switches for items 20, 21:
pages 25, 26
22 Gate & Wire Assy  ........  AS-2250-30
Bracket  ..................  P-5867-12
Wire  .....................  M-1272-27
23 Gate & Wire Assy  ........  AS-2250-4
Detailed, item 23, page 131
24 Gate & Wire Assy  ........  AS-2250-24
Detailed, item 23, page 129
25 Protective Angle  .......  P-7639
Rubber Parts

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A R-521-2, 1 1/4 in. (6)
B R-521-3, 1 in. (3)
C R-521-3, 2 in. (2)
D R-521-4, 2 1/2 in. (2)
E R-521-5, 3 in. (2)
F R-406-3 (Yellow) (2)
G R-243, 5/16 in. (4)

Other Parts

1 Top Arch ................. P-5839-54
2 Bottom Arch .............. P-5871-38
3 Shooter Gauge .......... P-6359-10
4 Side Rail, left ........... CA-1208-15
5 Side Rail, right ........ CA-1208-1
6 Ball Guide, bottom right P-6495-66
7 Ball Guide, top right .... P-6495-64
8 Ball Guide, top left ..... P-6495-65
9 Ball Gate, left .......... A-1475-4
10 Ball Gate, right ....... A-1475-1
11 Ball Gate Cover (2 used) P-2996-5
12 Light Shields (set) .... A-2890-87
13 Plate .................. P-5899-29
14 Bumper Cap ............ C-719-12
15 Bumper Cap ............. C-719-16
Details of Bumper Assys., page 167
16 Flipper, white ........... C-611-5
Details of Flipper Assys., page 175
17 Guide Wire .............. M-121-28
18 Guide Wire .............. M-121-18
19 Gate & Wire Assy ....... AS-2250-28
As detailed, Item 23, page 131
20 Gate & Wire Assy ....... AS-2250-4
As detailed, Item 23, page 131
21 Gate Bracket ........... P-5867-2
22 Rollover Wire (2 used) M-1336-2
23 Rollover Wire (2 used) M-1336-3
24 Rollover Wire (2 used) M-1336-9
25 Rollover Wire (2 used) M-1336-10
26 Rollover Wire .......... M-1336-13
Brackets for Items 22-26: page 191
Switches for Items 22-26: pages 25, 26
27 Target Assy, (4 used) ... AS-082-699
As detailed, Item 22, page 128
28 Target Assy ........... AS-082-723
As detailed, Item 22, page 125
29 Window Gasket .......... M-1398
30 Playfield Window ....... M-1499
Details of units with items 29, 30, pages 107, 108
31 Rollover Button (2 used) C-387-5
Parts related to item 31:
see parts listed under item 14,
page 127
32 Bumper ................. C-810
Details of Playmore Post,
page 185

*Indicates movable posts for scoring adjustments
NIP-IT Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R-115-4 Rebound
B  R-521-1, 1 in. (8)
C  R-521-2, 1½ in. (2)
D  R-521-5, 3 in.
E  R-521-6, 3½ in. (2)
F  R-243, 6/16 in. (6)

OTHER PARTS
1  Top Arch .......................... P-5839-60
2  Bottom Arch ........................ P-5871-38
3  Shooter Gauge ........................ P-6359-10
4  Side Rail, Left ........................ CA-1208-13
5  Side Rail, Right ........................ CA-1208-1
6  Inside Rail ........................ CA-1208-20
7  Inside Rail ........................ CA-1208-19
8  Guide Rail ........................ P-6244-53
9  Rebound Assy ........................ AS-493-3

As detailed, item 8, page 125:

10  Bumper Cap, Red ........................ C-719-12
11  Bumper Cap, Yellow ........................ C-719-17

Details of Bumper Assys, page 167:

12  Rollover Button ........................ C-387-5

PARTS RELATED TO ITEM 12:
See parts listed under item 14, page 127:

13  Flipper & Shaft, Right .................. AS-2214-6
14  Flipper & Shaft, Left .................. AS-2214-7

Details of Flipper Assys, page 175:

15  Alligator Cover ........................ M-1639-1

Details of Alligator mechanism (Ball Grabber Assy.)
page 167:

16  Target Assy .......................... AS-982-72

As detailed, item 22, page 129:

17  Rollover Wire ........................ M-1336-18
18  Rollover Wire ........................ M-1336-3
19  Rollover Wire ........................ M-1336-2

PARTS RELATED TO ITEMS 17, 18, 19

Brackets: See page 191:

Switch ........................ ASW-A1-5

20  Ball Guide Wire ........................ M-121-11
21  Ball Guide Wire ........................ M-121-16
22  Ball Guide Wire ........................ M-121-18
23  Ball Guide Wire ........................ M-121-41
24  Ball Guide Wire ........................ M-121-42
25  Ball Gate Assy ........................ AS-2250-19

Bracket ........................ P-5867-11

Wire ........................ M-1272-18

26  Ball Gate & Wire Assy .................. AS-2250-24

As detailed, item 23, page 129:

27  Ball Gate & Wire Assy .................. AS-2250-31

Bracket ........................ P-5867-2

Wire ........................ M-1272-30

28  Mushroom Bumper Assy .................. AS-2291-13

Bumper Rubber ........................ R-392

Cap & Plunger Assy ................ A-3712-2

Eyelet ........................ M-122-13

Post ........................ C-617-8

Push-on Fastener ................ M-298-9

Spring, Compression ................ SP-200-162

PARTS RELATED TO ITEM 28:

Pal Nut ........................ M-1314-2

Switch ........................ ASW-A20-9

29  Gate Wire ........................ M-1335

30  Light Shields (set) ................ A-2890-88

31  Ball Gate ........................ A-1475-1

32  Ball Gate Cover ................ P-2996-5

33  Target Assy ........................ AS-932-699

As detailed, item 28, page 128

135
HI-LO ACE Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R 115-4 (Rebound)
B  R 621-2, 1-1/2 in. (2)
C  R 621-3, 2 in. (2)
D  R 621-1, 1 in. (2)
E  R 521, 3/16 in. (2)
F  R 243, 5/16 in. (20)

OTHER PARTS
1  Top Arch  ...............  P-5839-66
2  Bottom Arch  ..........  P-5871-43
3  Shooter Gauge  ........  P-6359-10
4  Side Rail, right  .....  CA-1208-1
5  Side Rail, left  ......  CA-1208-2
6  Inside Rail  ..........  CA-1208-14
7  Ball Rebound  ........  AS-493-3
   Detailed, item 8, page 125
8  Ball Gate  .............  A-1475-1
9  Ball Gate Cover  ......  P-2996-5
10 Light Shields (set) ..  A-2890-92
11 Plastic Guide  ........  C-695-1
12 Plastic Guide  ........  C-696-1
13 Bumper Cap, blue  ...  A-3713-11
14 Bumper Cap, yellow  ..  A-3713-12
Details of Bumper Assys.
   page 167
15 Ball Guide Wire  ......  M-121-43
16 Ball Guide Wire  ......  M-121-44
17 Ball Guide Wire (3)  ..  M-121-45
18 Ball Guide Wire (2)  ..  M-121-46
19 Guide Rail, left  ....  P-6244-57
20 Guide Rail, right  ...  P-6244-58
21 Rollover Wire (9)  ...  M-1336
22 Rollover Wire (2)  ...  M-1336-1
   Brackets for items 21, 22:
   page 191
Switches for items 21, 22:
   Make (2)  ...............  ASW-A1-5
   Make-Make (9)  ........  ASW-A1-12
23 Target Assy  ..........  AS-982-723
   As detailed, item 22, page 125
24 Target Assy  ..........  AS-982-752
   As detailed, item 23, page 125
25 Ball Gate Assy  .......  AS-2250-11
   As detailed, item 21, page 128
26 Flipper & Pin  ........  AS-2214-19
Details of Flipper Units:
   Page 175
*INDICATES MOVEABLE POST
FOR SCORING ADJUSTMENT
CIRCUS, BIG SHOW Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A R-115-4, Rebound
B R-521-3, 2 in. (4)
C R-521, 3/4 in. (3)
D R-521-1, 1 in. (2)
E R-521-1, 1 1/2 in. (4)
F R-521-5, 3 in. (2)
G R-406-3, Flipper (2)
H R-243, 5/16 in. (10)

1 Top Arch ............................................ P.5839-53
2 Bottom Arch ........................................ P.5871-38
3 Shooter Gauge ...................................... P.6359-10
4 Side Rail, left ...................................... CA-1208-2
5 Side Rail, right ..................................... CA-1208-14
6 Inside Rail ........................................... CA-1208-14
7 Rebound Assy ....................................... AS-493-3
Detailed, Item 8, page 125
8 Ball Gate ............................................. A-1475-1
9 Ball Gate Cover ..................................... P.2966-5
10 Plastic Ball Guide (2) ............................ C.695-1
11 Light Shields, set .................................. A-930-91
12 Bumper Cap, red .................................... A-3738-1
For components related to item 12, see item 14 below
13 Thumper Bumper Cap, green ..................... A-3713-15
Details of Thumper Bumper Assys., page 167
14 Bumper Cap, orange ............................... A-3738-2
Bumper Assy., on which items 12, 14 are used ........................................... AS-2222-5
Base ....................................................... C.115-1
Body ....................................................... C.114
Rubber Ring ........................................... R-521-1
Skirt ...................................................... C.116-3
Spring ..................................................... SP-200-177
Components used with above Assy., but not included in the Assy.
   Lamp ................................................... E-125-22
   Lamp Socket ........................................ E-120-25
   Switch & Bracket Assy AS-982-902
   Bracket .............................................. P.126-19
   Switch ............................................. ASW-A1-89
   Switch Plate, Flat .................................. P.126-154
   Spring ............................................... P.137-5
   Switch Screw (2) ................................. MSSR-00540-1108
15 Rollover Button (6) ............................. C.387-5
For components used with item 15 see item 14, page 127
16 Ball Guide Wire .................................... M.121-43
17 Ball Guide Wire .................................... M.121-44
18 Ball Guide Wire (2) .............................. M.121-45
19 Rollover Wire (3) .................................. M.1336-10
20 Rollover Wire ...................................... M.1336
21 Rollover Wire (2) .................................. M.1336-1
22 Target Assy. (2) .................................... AS-982-807
   Bracket ............................................. P.126-471
   Switch Assy ........................................ A-3359-8
   Switch Plate, Flat .................................. P.126-155
   Spring ............................................... P.137-5
   Switch Screw, ...................................... MSSR-00540-1111
23 Target Assy. (2) .................................... AS-982-818
   Same as item 22, above, excepting Switch Assy. .................. A-3359-7
   Switch Screw (2) ................................. MSSR-00540-1110
24 Flipper (2) ......................................... C.611-5
Details of Flipper Units, page 175

*INDICATES MOVEABLE POSTS FOR SCORING ADJUSTMENTS
TWIN WIN Playfield Chart

RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R-521-4, 2½ in. (4)
B  R-406-3 (Flipper) (4)
C  R-521-6, 3½ in. (2)
D  R-243, 5/16 in. (12)

OTHER PARTS

1  Bottom Arch .................. P-5871-46
2  Side Rail, left .................. CA-1208-11
3  Side Rail, right ................ CA-1208-11
4  Light Shields (set) ............. A-2690-96
5  Bumper Cap, green ............ A-3713-8
6  Bumper Cap, yellow ........... A-3713-12

Details of Thumper Bumper Assy. appear on page 167

7  Ball Guide Wire .............. M-121-29
8  Rollover Wire ................ M-1336-18
9  Rollover Wire ................ M-1336-3
10  Mushroom Bumper Assy., red  AS-2291:1
    Cap & Plunger, red ........... C-616-1
    Eyelet ........................ M-122-13
    Post ........................... C-617-7
    Retaining Ring ............... P-2881-4
    Rubber Ring ................... R-392
    Spring, Compression ........... SP-100-162
11  Mushroom Bumper Assy., green AS-2291-4
    Detailed, item 23, page 126
12  Mushroom Bumper Assy., yellow AS-2291
    Detailed, item 22, page 126
13  Target Assy., red ............ AS-982-699
    Detailed, item 28, page 128
14  Target Assy., white ........... AS-982-792
    Bracket ....................... P-126-471
    Plate ........................ P-126-155
    Switch Plate .................. P-137-5
    Switch Screw ................ MSR-00540-1110
    Target Switch ................ A-3559-7
15  Target Assy., yellow ........... AS-982-812
    Bracket ....................... P-126-471
    Plate ........................ P-126-155
    Switch Plate .................. P-137-5
    Switch Screw ................ MS-540-10-110
    Target Switch Assy. .......... A-3559-3
16  Target Assy. ................ AS-982-1004
    Same as item 14, above, excepting Target Switch ........... A-3559-10
17  Flipper, white (4) .......... AS-2214-19
    Details of Flipper Units, page 175
18  Rubber Disc Assy ............ AS-2898-1
    Details of Spinner Unit, page 193
19  REFERENCE ONLY
    Details of Car-Race Unit, page 109

◯ INDICATES MOVABLE POST FOR SCORING ADJUSTMENT
SKY KINGS Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A R-115-4 (Rebound)
B R-521-1, 1 in.
C R-521-2, 1½ in.
D R-521-6, 3½ in. (2)
E R-521-3, 3/4 in. (2)
F R-521-3, 2 in. (2)
G R-521-4, 2½ in. (2)
H R-406-3 (Flipper) (2)
I R-243, 5/16 in. (1)

OTHER PARTS
1 Top Arch .................. P-5839-65
2 Bottom Arch ................. P-5871-45
3 Shooter Gauge ............... P-6359-12
4 Side Rail, left ............... CA-1208-23
5 Side Rail, right .............. CA-1208-22
6 Inside Rail .................. CA-1208-26
7 Rebound Assy ................ AS-493-3
   Detailed, item 8, page 125
8 Ball Gate .................... A-1475-1
9 Ball Gate Cover .............. P-2896-5
10 Plastic Guide ............... C-694-1
11 Light Shields (set) .......... A-2890-89
12 Bumper Cap, yellow .......... A-3713-12
13 Bumper Cap, green ........... A-3713-8
Details of Bumper Assys, page 167
14 Mushroom Bumper, yellow AS-2291-22
   Detailed, item 14, page 138
   PARTS RELATED TO ITEMS 14, 15
   Pal Nut .................. M-1314-1
   Switch .................. ASW-A20-9
16 Ball Guide Wire (2) ........ M-121-18
17 Ball Guide Wire .............. M-121-28
18 Ball Guide Wire .............. M-121-43
19 Ball Guide Wire .............. M-121-44
20 Ball Guide Wire (2) ........ M-121-53
21 Rollover Wire (2) ........... M-1336-9
22 Rollover Wire ............... M-1336-15
23 Rollover Wire (3) .......... M-1336-16
24 Rollover Wire (4) .......... M-1336-1
   PARTS RELATED TO ITEMS 21, 22, 23, 24
   Bracket: see page 191
   Switch: ASW-A1-5
   Make: ASW-A1-2
25 Target Assy ................ AS-982-699
   Detailed, item 28, page 128
26 Target Assy ................ AS-982-995
   Detailed, item 24, page 138
27 Spinner Gate Assy .......... AS-2250-32
   Detailed, item 25, page 138
   Switch: ASW-A1-118
   Used with item 27 ........ ASW-A1-118
   Spinner Unit (Light Flash):
   See page 109
28 Flipper & Pin Assy (2) .... AS-2214-19
   Details of Flipper Assys,
   appear on page 175

* INDICATES MOVABLE POST
FOR SCORING ADJUSTMENT
AMIGO Playfield Chart

RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R 521-4, 3/8 in. (8)
B  R 521-6, 3/8 in. (2)
C  R 406-3 (Flipper) (2)
D  R 243, 15/16 in. (15)

OTHER PARTS

1  Top Arch .................. P-5839-67
2  Bottom Arch .................. P-5871-45
3  Shooter Gauge .................. P-6358-12
4  Side Rail, right .......... CA-1208-22
5  Side Rail, left .......... CA-1208-23
6  Inner Rail .................. CA-1208-21
7  Ball Gate, left .......... A-1475-4
8  Ball Gate, right ........ A-2996-5
9  Ball Gate Cover .......... C-387-5
10  Rollover Button (4) ........ A-3460-5

For components used with item 10
see item 14, page 127

11  Light Shields (set) .......... A-2890-93
12  Guide Rail, red .......... C-702-1
13  Bumper Cap, blue .......... A-3713-11
14  Bumper Cap, yellow .......... A-3713-12
Details of Bumper Assys., page 167
15  Gate & Wire Assy .......... AS-2950-25
As detailed, item 25, page 126
16  Gate & Wire Assy .......... AS-2950-25
As detailed, item 23, page 129
17  Spinner Gate Assy .......... AS-2950-33
Same as item 26, page 138

excepting

  Spinner Assy ........ A-3460-2
Switch used with
  Spinner Gate .......... ASW-A1-118
18  Target Assy (2) .......... AS-982-723
Detailed, item 22, page 125
19  Target Assy .......... AS-982-740
Same as item 18 above, except
  Target Switch Assy ........ A-3395-4
Detailed, item 13, page 185
20  Target Assy .......... AS-982-752
Detailed, item 13, page 187
21  Rollover Wire .......... M-1336-18
22  Rollover Wire .......... M-1336-1
23  Rollover Wire .......... M-1336-2
24  Rollover Wire .......... M-1336-3
25  Rollover Wire .......... M-1336-4

PARTS RELATED TO ITEMS 21-25:

  Brackets: see page 191
  Switch, \n    Make .......... ASW-A1-5
    Make-Make .......... ASW-A1-5
26  Ball Guide Wire .......... M-121-23
27  Ball Guide Wire .......... M-121-47
28  Ball Guide Wire .......... M-121-18
29  Ball Guide Wire .......... M-121-43
30  Gate Wire .......... M-1335-1
Details of Free Ball Gate
appear on page 195

31  Bumper Post .......... C-610
Details of Play-More Post
appear on page 185
32  Flipper & Pin (2) .......... AS-2214-19
Details of Flipper Units
appear on page 175
33  Ball Return Wire
    (NOT SHOWN) .......... M-1336-19
    Guide Rail .......... P-6244-53

● INDICATES MOVABLE POST
FOR SCORING ADJUSTMENT

141
DELTA QUEEN Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R-115 4 (Rebound)
B  R-521 1, 1 in. (3)
C  R-521 3, 2 in. (2)
D  R-521 2, 1½ in. (3)
E  R-521 4, 2½ in. (2)
F  R-521 5, 3 in. (2)
G  R-406 3 (Flipper) (2)
H  R-243, 5/16 in. (9)

OTHER PARTS
1  Top Arch ...................... P-5839-57
2  Bottom Arch .................. P-5871-47
3  Shooter Gauge ............... P-6359-13
4  Side Rail, left .............. CA-1208-24
5  Side Rail, right ............. CA-1208-22
6  Inside Rail ................... CA-1208-25
7  Rebound Assy ................ AS-493-3
Detailed, item 8, page 125
8  Ball Gate ..................... A-1475-1
9  Ball Gate Cover .............. P-2996-5
10 Plastic Ball Guide .......... C-694-1
11 Plastic Ball Guide .......... C-693-1
12 Bumper Cap, Blue .......... A-3713-11
Details of Thumper Bumper,
page 167
13 Ball Guide Wire ............. M-121-18
14 Ball Guide Wire ............. M-121-43
15 Ball Guide Wire ............. M-121-44
16 Light Shields (set) .......... A-2890-97
17 Rollover Button .............. C-387-5
Parts related to item 17:
see item 14, page 127
18 Rollover Wire ................. M-1336-10
19 Rollover Wire ................. M-1336-2
Parts related to items 18, 19:
Bracket: page 191
Switch,
Make (5) ..................... ASW-A 1-5
Make Make (2) ............... ASW-A 1-2
20 Target Assy ................ AS-982 752
Detailed, item 23, page 125
21 Target Assy ................ AS-982 275
Detailed, item 22, page 125
22 Flipper & Pin Assy .......... AS 2214-19
Flipper units detailed
on page 175
23 Ball Guide Wire (2) ........ M-121-24
24 Ball Guide Wire (2) ........ M-121-53
25 Ball Return Wire .......... M-1338-21
• INDICATES MOVABLE POST
FOR SCORING ADJUSTMENT
ROGO Playfield Chart

RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R 521 2, 1 1/8 in. (4)
B  R 521 1, 1 in. (3)
C  R 521 3, 2 in. (4)
D  R 521 5, 3 in.
E  R 521-4, 2 1/2 in.
F  R 521-6, 3 1/2 in. (2)
G  R 406-3 (Flipper) (2)
H  R 243 (6)

OTHER PARTS

1  Top Arch  .  P 5834-54
2  Bottom Arch  .  P 5871-47
3  Shooter Gauge  .  P 6359-13
4  Side Rail, left  .  CA-1208-23
5  Side Rail, right  .  CA-1208-22
6  Ball Guide  .  P 6495-85
7  Ball Guide  .  P 6495-64
8  Ball Guide  .  P 6495-75
9  Ball Gate, left  .  A-1475-5
10  Ball Gate, right  .  A-1475-1
11  Ball Gate Cover  .  P 2996-5
12  Light Shields (set)  .  A-2890-98
13  Gate  .  P 5887-2
14  Bumper Cap, blue  .  A-3713-11
15  Bumper Cap, red  .  A-3713-7
Bumper detailed, page 167
16  Flipper & Pin Assy  .  AS-2214-19
   Flipper detailed, page 175
17  Ball Guide Wire  .  M 121-18
18  Ball Guide Wire  .  M 121-48
19  Ball Guide Wire  .  M 121-49
20  Ball Guide Wire  .  M 121-50
21  Ball Guide Wire  .  M 121-51
22  Ball Guide Wire  .  M 121-52
23  Ball Guide Wire  .  M 121-53
24  Rollover Wire (2)  .  M 1336-9
25  Rollover Wire  .  M 1336-10
26  Rollover Wire (3)  .  M 1336-2
28  Rollover Wire  .  M 1336-18
29  Rollover Wire  .  M 1336-19

Parts related to items 24-29:
Bracket: page 191
Switch
Make  .  ASWA-7-1
Make Before Break  .  ASWA-7-3
Switch Plate  .  P 137-5
30  Target Assy  .  AS-982-723
Detailed, item 22, page 125
31  Rollover Button  .  C 387-6
Parts related to item 31:
see item 14, page 127
32  Mushroom Bumper  .  AS-2291-1
Detailed, item 10, page 139
33  Plastic Guide (2)  .  C 995-1
34  Gate & Wire Assy  .  AS-2250-28
Detailed, item 19, page 132
35  Gate & Wire Assy  .  AS-2250-4
Detailed, item 23, page 131
36  Ball Guide Wire  .  M 121-28

* INDICATES MOVABLE POST
FOR SCORING ADJUSTMENT
BON VOYAGE Playfield Chart

RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R-115-4 (Rebound)
B  R-521-1, 1 in.
C  R-521-4, 2½ in. (3)
D  R-521-2, 1½ in. (2)
E  R-406-3 (Flipper) (2)
F  R-243, 5/16 in. (19)

OTHER PARTS

1  Top Arch  P-5839-89
2  Bottom Arch  P-5871-47
3  Shooter Gauge  P-6359-13
4  Side Rail  P-6359-22
5  Side Rail  P-6359-24
6  Inside Rail  CA-1208-27
7  Rebound Assy  AS-493-3
Detailed item 8, page 125
8  Ball Gate  A-1475-1
9  Light Shields set  A-2890-106
10  Rollover Button  C-900
Switch used with item 10  ASW-A1-122
11  Bumper Cap, yellow  A-3713-12
12  Bumper Cap, green  A-3713-8
Details of Thumper Bumper Assys., page 167
13  Guide Wire (2)  M-121-30
14  Guide Wire  M-121-48
15  Guide Wire  M-121-49
16  Guide Wire (2)  M-121-45
17  Guide Wire  M-121-43
18  Guide Wire  M-121-44
19  Guide Wire (2)  M-121-53
20  Guide Rail (2)  C-695-1
21  Guide Rail (1)  C-702-1
22  Guide Rail (1)  C-893-1
23  Rollover Wire (4)  M-1336-10
24  Rollover Wire (2)  M-1336-15
25  Rollover Wire (4)  M-1336
Parts related to items 23-25:
Bracket  P-6254
Switch, (10 used)  ASW-A1-15
(5 used)  ASW-A1-29
26  Ball Return Wire  M-1336-21
Parts related to item 26:
Bracket  P-6254-1
Switch  ASW-A1-113
27  Spinner Gate Assy  AS-2250-32
Detailed, with related parts, item 25, page 138
28  Target & Switch Assy  AS-982-699
Detailed, item 28, page 128
29  Target & Switch Assy  AS-982-752
Detailed, item 23, page 125
30  Flipper & Pin Assy  AS-2214-19
Flipper Assy, detailed, page 175
• INDICATES MOVABLE POST FOR SCORING ADJUSTMENT
BOOMERANG, FLICKER Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A R-115-4 (Rebound)
B R-521-1, 1 in.
C R-521-2, 1½ in. (5)
D R-521-5, 3 in. (2)
E R-406-3 (Flippers) (2)
F R-243, 5/16 in. (15)

OTHER PARTS
1 Top Arch ..................  P-5839-88
2 Bottom Arch .................. P-5871-47
3 Shooter Gauge .............. P-6369-13
4 Side Rail .................. CA-1208-24
5 Side Rail .................. CA-1208-22
6 Inner Rail .................. CA-1208-14
7 Rebound Assy. .............. AS-493-3
Detailed, item 8, page 125
8 Ball Gate .................. A-1475-1
9 Ball Gate Cover .............. P-2996-5
10 Light Shield (sets), 8
   BOOMERANG, .......................... A-2890-105
   Clear .................. A-2890-104
   Printed .................. A-2890-106
   FLICKER,
   Clear .................. A-2890-101
   Printed .................. A-2890-102
11 Rollover Button (8) ......... C-900
Parts used with item 11
   Lamp (No. 44) .................. E-125-22
   Lamp Socket .................. E-120-8
   Switch .................. ASW A1-122
12 Bumper Cap  .................
   BOOMERANG (Red) ........... A-3713-7
   FLICKER (Blue) ............... A-3713-11
   Thumper Bumper detail: page 167
13 Guide Wire (2) ................ M-121-24
14 Guide Wire (2) ................ M-121-54
15 Guide Wire (2) ................ M-121-18
16 Guide Wire .................. M-121-43
17 Guide Wire .................. M-121-44
18 Guide Wire (2) ................ M-121-53
19 Rollover Wire (4) ............. M-1338
20 Spinner Gate Assy. .......... AS-2250-32
Detailed, item 25, page 138
Switch used with item 20: ASW A1-118
   Spinner Unit: page 109
21 Flapper & Pin Assy. ........ AS-2214-19
   Flippin Units, detailed: page 175
22 Target Assy., red ............ AS-982-699
   Detailed, item 26, page 128
23 Target Assy., yellow ........ AS-982-740
   Detailed, item 19, page 141
24 Target Assy., white .......... AS-982-806
   Bracket .................. P-126-471
   Plate .................. P-126-155
   Switch Plate ................ P-137-5
   Switch Screw:  MSSR-00640-1111
3 Target Switch Assy. ........... A-3359-12
25 Ball Return Wire ............. M-1338-1
Switch used with item 25: ASW A1-113
- INDICATES MOVABLE POST
FOR SCORING ADJUSTMENT
AIR ACES Playfield Chart

RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A R 115-4 (Rebound)
B R 521-4, 1/2 in. (7)
C R 521-2, 1/8 in. (2)
D R 521-1, 1 in. (6)
E R 521-5, 3 in. (2)
F R 243, 6/16 in. (3)
G R 406-3 (Flipper) (2)

OTHER PARTS

1 Top Arch ................. P 5839-70
2 Bottom Arch ............. P 5871-47
3 Shooter Gauge .......... P 6359-13
4 Side Rail, Left .......... CA 1208-24
5 Side Rail, Right ......... CA 1208-22
6 Inside Rail .............. CA 1208-26
7 Rebound Assy, AS-493-3
   Detailed, Item B, page 125
8 Ball Gate ................. A-1475-1
9 Bumper Cap .............. A-3713-16
Details of Thumper Bumper, page 167
10 Flipper Pin Assy., Right AS-2214-22
11 Flipper Pin Assy., Left  AS-2214-23
   Flipper Units detailed, page 244
12 Rollover Wire Assy. (2) AS-2806-2
   Bracket ................. P 6256-4
   Wire ................. M-1336-2
13 Rollover Wire Assy. (2) AS-2806
   Bracket ................. P 6256-4
   Wire ................. M-1336
14 Guide Wire (2) .......... M-121-18
15 Guide Wire (2) .......... M-121-24
16 Guide Wire .............. M-121-43
17 Guide Wire .............. M-121-44
18 Guide Wire (2) .......... M-121-53
19 Guide Wire (2) .......... M-121-46
20 Flipper Pin Assy. (2) ... AS-2714-21
   Flipper Units detailed, page 175
21 Return Wire Assy. ........ AS-2806-21
   Bracket ................. P 6256-1
   Wire ................. M-1336-21
22 Plastic Shields (Set) ... A-2890-103
23 Drop Target Assy. ...... AS-2795-9
   Detailed, page 171

* INDICATES MOVABLE POST
  FOR SCORING ADJUSTMENT
KNOCKOUT Playfield Chart

RUBBER RINGS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A R 243, 5/16 in. (20)
B R-243, 2, 5/16 in. (dead rubber) (2)
C R-521-3, 2 in. (4)
D R-521-1, 1 in. (2)
E R-521-4, 2½ in. (4)
R R-406-3 (Flipper) (2)

OTHER PARTS
1 Top Arch ................. P-5839-72
2 Bottom Arch ............. P-5871-47
3 Shooter Gauge ........... P-6359-13
4 Side Rail, left .......... CA-1206-15
5 Side Rail, right ........ CA-1206-22
6 Inner Rail ............... CA-1206-28
7 Ball Gate, left .......... A-1475-4
8 Ball Gate, right .......... A-1475-1
9 Plastic Guide (4) ........ C-893-1
10 Plastic Shields (set) .... A-2800-108
11 Rollover Button (12) ... C-900

Parts used with item 11:
- Lamp, No. 44 ........... E-125-22
- Lamp Socket ............ E-120-99
- Switch .................. ASW-A1-122
- Switch Plate ........... P-137-5
- Switch Stop Bracket .... P-126-570
12 Rollover Wire Assy. (6) AS-2806
   Detailed, item 13, page 146
13 Rollover Wire Assy. (2) AS-2806-2
   Detailed, item 12, page 146
14 Guide Wire (2) ........ M-121-59
15 Guide Wire (2) ........ M-121-45
16 Guide Wire ............. M-121-43
17 Guide Wire ............. M-121-44
18 Guide Wire (2) ........ M-121-53
19 Gate & Wire Assy. ...... AS-2250-24
   Detailed, item 23, page 129
20 Spinner Gate Assy., right AS-2250-34
   Bracket ................ P-5867-10
21 Spinner Gate Assy., left AS-2250-35
   Same as item 20, above,
   with vertical wire
   on opposite end
   of horizontal wire
22 Flipper & Pin Assy., (2) AS-2214-21
   Flipper detail, page 175
23 Return Wire Assy ........ AS-2806-21
   Detailed, item 21, page 146
24 Guide Rail .............. A-3032-18
25 Bumper Cap, green ...... A-3713-8
26 Bumper Cap, red ....... A-3713-7
27 Target & Switch Assy. (2) AS-982-723
   Detailed, page 126
28 Gate Bracket ........... P-5887-12
- INDICATES MOVABLE POST
  FOR PLAYFIELD ADJUSTMENT
RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A R-521.4, 2½ in.
B R-521.2, 1½ in. (3)
C R-243.2, 5/16 in. (dead rubber)
D R-521 1, 1 in.
E R-521 ½, 3 in. (2)
F R-406.3 (Flipper) (2)
G R-243, 5/16 in.

OTHER PARTS
1 Top Arch .......................... P-5839-73
2 Bottom Arch ........................ P-5871-47
3 Shooter Gauge ........................ P-6399-13
4 Side Rail, left .................... CA-1208-24
5 Inside Rail ........................ CA-1208-29
6 Side Rail, right ................... CA-1208-22
7 Ball Gate, left .................... A-1475-4
8 Ball Gate, right ................... A-1475-1
9 Rollover Button (8) .............. C-900
Parts used with item 9:
see item 11, page 217
10 Plastic Shields (set) ............... A-2890-111
11 Rollover Wire Assy ................ AS-2806-16
   Bracket ......................... P-6254-1
   Wire ............................. M-1336-16
Switch used with
items 11, 12, 13 ..................... ASW-A1-5
12 Rollover Wire Assy (2) .......... AS-2806-2
   Detailed, item 12, page 146
13 Rollover Wire Assy (2) .......... AS-2806
   Detailed, item 13, page 146
14 Return Wire Assy ................. AS-2806-21
   Detailed, item 21, page 146
15 Ball Guide Wire (2) ............. M-121-33
16 Ball Guide Wire (3) ............. M-121-18
17 Ball Guide Wire .................. M-121-56
18 Ball Guide Wire .................. M-121-43
19 Ball Guide Wire .................. M-121-44
20 Ball Guide Wire (2) ............. M-121-53
21 Bumper Cap, red ................. A-3713-7
22 Bumper Cap, yellow ............. A-3713-12
Thumper Bumpers detailed, page 167
23 Thumper Gate Assy ............... AS-2250-35
   Same as item 21, page 147
Detailed, item 23, page 129
25 Target Switch Assy, white (2)  AS-982-806
   Detailed, item 24, page 145
26 Target Switch Assy, red (4) ..... AS-982-723
   Detailed, item 22, page 125
27 Target Switch Assy, yellow ...... AS-982-740
   Detailed, item 19, page 141
28 Target Switch Assy, white ...... AS-982-818
   Detailed, item 23, page 137
29 Guide Rail Assy .................. A-3032-19
30 Guide Rail Assy .................. A-3032-20
31 Flip Unit Assy .................... AS-2907-2
   Detailed, page 181
32 Flipper & Pin Assy .............. AS-2214-21
Flipper Units detailed, page 175
33 Ball Guide Wire .................. M-121-24
34 Ball Guide Wire .................. M-121-60
   INDICATES MOVABLE POST
   FOR PLAYFIELD ADJUSTMENT
HI-DEAL Playfield Chart

RUBBER RINGS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A  R-521-1, 1 in.
B  R-521-2, 1½ in. (5)
C  R-521-4, 2½ in.
D  R-521-5, 3 in. (2)
E  R-406-3 (Flipper) (2)

OTHER PARTS
1  Arch Rail .......................... M-1774
2  Rail Post .......................... C-907
3  Rail Post Cap ................. C-908
4  Bottom Arch ...................... P-5871-49
5  Shooter Guide .................... P-6359-15
6  Ball Gate, left .................. A-1475-10
7  Ball Gate, right .............. A-1476-9
8  Screened Plastics (set) .......... A-2890-112
9  Rollover Button (10) .......... C-387-6
Parts related to Rollover Button:
see item 14, page 127
10  Thumper Cap (2) ......... A-3713-17
11  Thumper Cap .................. A-3713-22
Thumper Bumper details, page 167
12  Spinner Gate .................. AS-2250-35
   Same as item 21, page 147
   Spinner Switch .................. ASW-A1-130
13  Target Assy., red (5) ........ A-982-723
   Detailed, item 22, page 125
14  Target Assy., white (5) ...... A-982-806
   Detailed, item 24, page 145
15  Rollover Wire Assy. (3) ...... AS-2806
   Detailed, item 13, page 146
16  Rollover Wire Assy. (2) ...... AS-2806-2
   Detailed, item 12, page 146
17  Ball Guide ...................... M-121-34
18  Ball Guide (2) ................. M-121-18
19  Ball Guide ...................... M-121-43
20  Ball Guide ...................... M-121-44
21  Mini-Post Assy. ............... AS-2836
See page 200
22  Flipper & Shaft (2) ........ AS-2214-24
   Flipper detailed, page 175
23  Guide Rail Assy. .............. A-3032-21

mostat INDICATES MOBILE POSTS FOR
ADJUSTMENT:
CONSERVATIVE
MEDIUM
LIBERAL
FLIP FLOP Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.
A R-115-4 (Rebound)
B R-521-1, 1 in. (11)
C R-408-3 (Flipper) (4)
D R-521-4, 2 1/2 in. (2)
E R-243, 5/16 in. (11)

OTHER PARTS
1 Arch Rail .................. M-1774
2 Rail Post .................. C-907
3 Rail Post Cap ............... C-908
Item 2, 3 illustrated, page 200
4 Bottom Arch ............... P-5871-52
5 Side Rail, right ............. CA-1208-33
6 inside Rail ................. CA-1208-26
7 Side Rail, left ............. CA-1208-37
8 Ball Shooter Guide ........ P-6369-18
9 Rebound Assy. ............. AS-493-6
Detailed, item 8, page 125
10 Ball Gate Assy., right .... A-1475-9
11 Top Plastics ............... M-1330-124
12 Light Shields (set) ........ A-2890-109
13 Plastic Guide (2) ......... C-684-5
14 Plastic Guide (2) ......... C-702-1
15 Guide Wire ................. M-121-61
16 Guide Wire (4) ............ M-121-24
17 Rollover Wire Assy. (2) .. AS-2806
Detailed, item 13, page 146
18 Rollover Wire Assy. (2) .. AS-2806-1
Detailed, item 20, page 146
Switch, items 17, 18 .......... ASW-A1-5
19 Rollover Button (8) ....... C-387-6
Parts used with item 19:
Switch .................. ASW-A1-4
Switch Plate .............. P-137-5
Switch Stop Bracket ....... P-126-562
20 Rollover Button (4) ....... C-900
Parts used with item 20:
See item 11, page 147
21 Mushroom Bumper (2) .... AS-2291-2
Cap & Plunger, white . .. C-693-1
Eyelet .................. M-122-13
Post .................. C-617-8
Retaining Ring ............ P-2891-4
Rubber Ring ............... P-392
Spring, Compression ...... SP-200-162
Pal Nut for above .......... M-1314-2
Switch for above:
see pages 25, 26
22 Flipper & Shaft Assy. .... AS-2214-24
Detailed with other Flipper detail, page 175
23 Bumper Cap (2) .......... A-3713-17
Thumper Bumper detailed, page 167
24 Plate (2) ................ P-5899-35
25 Plate (2) ................ P-5899-37
26 Flip Unit Assy. .......... AS-2807-1
Detailed, page 181
27 Guide Wire (2) .......... M-121-32
HOKUS POKUS Playfield Chart

RUBBER PARTS

Dimensions are inside diameters.

A R-521-2, 1 1/2 in.
B R-521-4, 2 1/2 in.
C R-521-5, 3 in.
D R-406-3 (Flapper rubber)

OTHER PARTS

1 Arch Rail ................. M-1774
2 Rail Post ................. C-907
3 Rail Post Cap ............. C-908
4 Bottom Arch .............. P-5871-50
5 Ball Shooter Guide ....... P-6359-18
6 Ball Gate, left .......... A-1475-10
7 Ball Gate, right ......... A-1475-9
8 Light Shield (set) ....... A-2890-114
9 Thumper Cap .............. A-3713-22
Thumper Bumper detail page 157
10 Rollover Button .......... C-900
   Parts used with item 10:
   see item 14, page 127
11 Plastic Guide ............ C-693-1
12 Plastic Guide ............ C-694-1
13 Spinner Gate .............. AS-2250-38
   Spinner Assy ............ AS-2460-5
   Target Holder .......... P-5877-10
   Washer .................... P-801-583
   Wire ....................... M-1272-32
14 Spinner Gate Assy ....... AS-2250-39
   Same as item 13, above,
   reverse position
15 Target Assy .............. AS-982-807
   Same as item 22, page 137
16 Target Assy .............. AS-982-752
   Same as item 23, page 125
17 Rollover Assy .......... AS-2806-1
   Same as item 20, page 150
18 Rollover Assy .......... AS-2806-2
   Same as item 13, page 146
19 Rollover Assy .......... AS-2806-2
   Same as item 12, page 146
20 Rollover Assy .......... AS-2806-23
   Bracket .................. P-6254-1
   Wire ....................... M-1336-23
21 Ball Guide ............... M-121-30
22 Ball Guide ............... M-121-18
23 Ball Guide ............... M-121-43
24 Ball Guide ............... M-121-44
25 Flipper & Shaft .......... AS-2214-24
   Detailed with Flippers,
   page 175
26 Ball Guide ............... M-121-46
27 Mini-Post ............... AS-2836
   See page 199
28 Plastic Guide ............ C-894-5
29 Gate Wire ................. M-1335-1
   Free Gate Relay Assy .... AS-2308-18
   Single Relay (Playfield Panel),
   HOKUS POKUS, page 81

■ INDICATES MOVABLE POSTS FOR

ADJUSTMENTS:

CONS.  MED.  LIB.
OLD CHICAGO Playfield Chart

RUBBER PARTS
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A R-115-4, Rebound
B R-521-2, 1 1/8 in.
C R-521-3, 2 in. (4)
D R-521-4, 2 1/8 in. (4)
E R-521-5, 3 in. (2)
F R-521-6, 3 1/8 in. (2)
G R-406-3, Flipper (2)

OTHER PARTS

1 Arch Rail ................. M-1774
2 Rail Post .................. C-907
3 Rail Post Cap .............. C-908
4 Bottom Arch .............. P-5871-51
5 Shooter Guide ............. P-6359-17
6 Rail, left .................. CA-1208-32
7 Rail, right ................. CA-1208-33
8 Rail, Inside ............... CA-1208-26
9 Rebound Assy .............. AS-493-6
Same as item 8, page 125
10 Ball Gate ................ A-1475-9
11 Light Shields, set ........ A-2890-115
12 Rollover Button .......... C-900
Rollover Switch ............. ASW-A1-122
13 Plastic Guide (2) .......... C-694-5
14 Plastic Guide (3) .......... C-693-5
15 Thumper Bumper Cap (2)  A-3713-23
16 Thumper Bumper Cap (3)  A-3713-22
Thumper Bumper detail, page 167
17 Spinner Gate .............. AS-2250-35
Same as item 21, page 147
Spinner Units page 109
Spinner Switch .............. ASW-A1-130
18 Mini-Post ................ AS-2836
See page 200
19 Rollover Assy (2) ........ AS-2806
Same as item 13, page 146
20 Rollover Assy ............. AS-2806-3
Bracket ..................... P-6254-1
Wire ......................... M-1336-3
21 Rollover Assy ............. AS-2806-2
Same as item 12, page 153
22 Flipper & Shaft (2) ...... AS-2214-24
Detailed with Flippers, page 175
23 Guide Wire (2) ............ M-121-30

• INDICATES MOVABLE POST FOR SCORING ADJUSTMENT

LIB. - LIBERAL
MED. - MEDIUM
CONS. - CONSERVATIVE
CAPT. FANTASTIC Playfield Chart

RUBBER PARTS

Dimensions are inside diameter. Numbers in parentheses indicate quantity used, if in excess of one.

A  R-521-3, 2 in.
B  R-521-1, 1 in. (2)
C  R-521-4, 2½ in. (3)
D  R-521-5, 3 in. (2)
E  R-403-3, Flippers (4)
F  R-243, 5/16 in. (9)
G  R-521, 3/4 in. (2)

OTHER PARTS

1  Arch Rail .................. M-1774
2  Rail Post (2) ............... C-907
3  Rail Post Cap (2) .......... C-908
4  Bottom Arch ................. P-5871-53
5  Shooter Gauge ............... P6399-19
6  Ball Gate, left ............. A1475-10
7  Ball Gate, right .......... A-1475-9
8  Light Shields (set) .......... A-2890-117
9  Rollover Button (8) ......... C-900
   Part used with item 9:
   see item 11, page 147
10 Target Assy. (2) ............. AS-982-732
    Same as item 20, page 150
11 Plastic Guide (2) .......... C-936-5
12 Plastic Guide (2) .......... C-935-5
13 Guide Wire .................. M-121-62
14 Guide Wire (2) .............. M-121-30
15 Guide Wire (2) .............. M-121-48
16 Guide Wire (3) .............. M-121-53
17 Rollover Assy. (5) ........ AS-2806-1
   Same as item 20, page 150
18 Rollover Assy. .............. AS-2806-3
   Same as item 20, page 153
19 Thumper Bumper Cap (3) .... A-3713-26
   Thumper Bumper detail, page 167
20 Gate Wire ................... M-1335
21 Flipper & Shaft (4) ........ AS-2214-24
   Detailed with Flippers, page 175
22 Hood ........................ P-1732
23 Rollover Assy., Outhole ... AS-2806-21
   Same as item 21, page 146
   Switch used with item 23 . ASW-A1-113
PLAYFIELD COMPONENTS

Alligator Unit
   See Ball Grabber Assy.
Automatic Ball Shooter
   See Ball Shooter, Automatic
Ball Ejector Assys. ......................... 159, 160
   ALSO SEE
      Ball Return Kicker
Ball Grabber Assy. ......................... 161, 162
Ball Return Kicker Assy.
      See Ball Ejector Assys.
Ball Shooter, Automatic ...................... 164
      ALSO SEE PAGE 208
Ball Trough Assys. ......................... 165, 166
Bumper Assys., Mushroom ..................... 170
Bumper Assys., Standard ..................... 170
Bumper Assys., Thumper ..................... 167-169
Disappearing Post Assys.
   See Post Assys., Disappearing
Drop Target Assys. ......................... 171, 172
      ALSO SEE
         Target Assys.
Ejector Assys.
   See Ball Ejector Assys.
Electronic Parts
   See Page 204
Flasher Target Assy. ....................... 173
Flipper Units, related parts ................... 175-180
Flip Unit Assys. ......................... 161, 162
Free Ball Gates
   See Swivel Type Free Ball Gates
   ALSO SEE PLAYFIELD CHARTS, PAGE 124
Grabber Assy.
   See Ball Grabber Assy.

Kickback Assy. ............................. 183
   ALSO SEE
      Ball Ejector Assys.
      Ball Shooter, Automatic
      Slingshot Kicker & Coil Assys.
Miscellaneous Parts ....................... 199-201
Mushroom Bumper Assys.
   See Bumper Assys., Mushroom
Post Assys., Disappearing ................... 184-186
   ALSO SEE PAGE 201
Rebound Switch Assys. ...................... 187-190
Rollover Button ......................... 191, 192
Rollovers ......................... 191, 192
Shooter Assy., Automatic
   See Ball Shooter, Automatic
   ALSO SEE PAGE
      Slingshot Kicker & Coil Assys. ................ 187-190
      ALSO SEE
         Kickback Assys.
Spinner Assys. ............................. 193, 194
Standard Bumper Assy.
   See Bumper Assy., Standard
Swivel Type Free Ball Gates .................. 195, 196
   ALSO SEE
      3-Step Ball Escape Assy.
Target Assys. ............................... 170
   ALSO SEE
      Drop Target Assys.
      Flasher Target Assys.
3-Step Ball Escape Assy. .................... 197, 198
Thumper Bumper Assys.
   See Bumper Assys., Thumper
Trough Assys., Ball
   See Ball Trough Assys.
SCREWS
Order screws by name or description with reference
to (a) name of game, (b) location of Ball Ejector Assy.
on playfield, (c) part screw secures.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
BALL-EJECTOR ASSYS.

SKYROCKET

through* MARINER

Ball Return ................. AS-428-30
As illustrated, page 159, excepting
Coil .......................... A-26-1100
Mounting Bracket Assy., A-643-9
Spring (Ball Kicker Assy.) . . SP-199-27
Skill Kickout ............... AS-428-31
As illustrated, page 159, excepting
Coil .......................... A-26-1100
Mounting Bracket Assy., A-643-7
Spring (Ball Kicker Assy.) . . SP-199-11

TWIN WIN

Ball Return
Automatic Ball Shooter . . . AS-1566-25
As described, page 164
Skill Kickout
Yellow Player ............... AS-428-28
Same as Skill Kickout,
FIREBALL
Green Player ............... AS-428-33
As illustrated, page 159, excepting
Ball Kicker Assy. ........... A-642-8
Bracket & Spring Hook . . A-642-7
Coil .......................... A-27-1100
Mounting Bracket ........... A-643-11
Spring (Ball Kicker) ....... SP-199-11

FLIP FLOP

Same as in HI-DEAL, except
Skill Kickout
LEFT .......................... AS-428-35
As described under HI-DEAL
RIGHT ......................... AS-428-36
Same as AS-428-35, above,
except
Ball Kicker Assy. ........... A-642-8
Bracket & Spring Hook Assy. A-642-7
Mounting Bracket Assy. .... A-643-11

HOKUS POKUS

Ball Return
Ball Return Kicker .......... AS-2694-1
As described, page 163

OLD CHICAGO

Ball Return
Same as in HOKUS POKUS
Skill Kickout ............... AS-428-36
Same as Skill Kickout, RIGHT,
FLIP FLOP

CAPT. FANTASTIC

Same as in OLD CHICAGO

SKY KINGS

through* FLICKER

Same as in FIREBALL
Ball Return Switch ........... ASW-A1-113

AIR ACES

Ball Return
Ball Return Kicker .......... AS-2694
As illustrated, page 163
Ball Return Switch ........... ASW-A1-113
Skill Kickout
Double Bonus ............... AS-428-28
Same as Skill Kickout, FIREBALL
Extra Ball
Same as Double Bonus

KNOCKOUT, WIZARD

Same as in FIREBALL

HI-DEAL

Ball Return
Ball Return Kicker .......... AS-2694-1
As described, page 163
Ball Return Switch ........... ASW-A1-113
Skill Kickout ............... AS-428-35
As illustrated, page 159, with
Coil .......................... A-27-1300
Mounting Bracket Assy. .... A-643-7
Spring (Ball Kicker Assy.) . . SP-199-11

BOW AND ARROW

Same as in HI-DEAL, except
Skill Kickout (2 USED) .... AS-428-35
As described under HI-DEAL

*See chronological list of games, pages 1, 2.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

160
BALL GRABBER ASSY. AS-2743

1. Solenoid .................. E-184-276
   SECURED TO
   SOLENOID BRACKET
   BY
   4 Lockwasher, External ... M-1700
   4 Nut ............................. N-01032-2112
   4 Screw .......................... LSPIR-01032-1106

2. Pin, Link .......................... S-739-208

3. Split Spacer
   NOT VISIBLE IN SKETCH
   ENCASES ITEM 2, ABOVE ........ M-1481-42

4. Link (4 used) .................. P-1973-299

5. Pin, Pivot .......................... S-739-207

6. Pin, Connector Link (2 used) ........ S-181-70

7. Grommet (4 used)
   NOT VISIBLE IN SKETCH
   ENCASE ITEM 6, ABOVE .......... R-111-40

   VISIBLE IN SKETCH ............ A-3576-3

   ON OPPOSITE SIDE OF ASSY.
   FROM ITEM 8, ABOVE .......... A-3576-2

10. Roller (2 used) ................. S-2087

11. Bracket, Pivot .................. P-7812
    SECURED TO
    SOLENOID BRACKET
    BY
    4 Lockwasher, External ... M-1700-8
    4 Nut ............................. N-00832-2112
    4 Screw .......................... LSPIR-00832-1106

12. Bracket, Solenoid .............. P-7810

13. Switch & Bracket Assy ........ AS-982-892
    Bracket ......................... P-126-672
    Screw (2 used) ............... MSSR-00540-1108
    Switch ........................ ASW-A20-24
    Switch Plate ................. P-137-5
    SECURED BY SAME FASTENERS
    WHICH SECURE SOLENOID

14. Carriage ......................... P-7811

    (2 used) ....................... A-3571
    EACH SECURED TO CARRIAGE
    BY 3 OF EACH FASTENER
    WHICH SECURES ITEM 11, ABOVE

    VISIBLE IN SKETCH ............ A-3572

17. Grab Arm Bracket & Hub Assy.
    ON OPPOSITE SIDE OF ASSY.
    FROM ITEM 6, ABOVE .......... A-3572-1

18. Bushing, Nylon ................. S-231-787

19. Spring, Torsion ............... SP-296

20. Spring, Extension
    NOT VISIBLE IN SKETCH
    ATTACHED TO UNDER SIDE
    OF ITEM 14, ABOVE .......... SP-100-306

21. Pin, Guide (2 used) ............ S-739-196

22. Cam & Stud Assy ............... A-3573

23. Ball Grab Arm .................. M-1597
    SECURED TO ITEMS 16, 17 ABOVE,
    BY
    2 Lockwasher, Split ........... M-1700-6
    2 Screw, Torq Patch,
    Hexagon Head, Slotted,
    No. 6-32 x 3/8

    ......................... A-3570
    SECURED TO SOLENOID BRACKET
    BY MEANS USED
    TO SECURE ITEM 11, ABOVE

25. Plug Bumper (6 used) .......... R-231-14

26. Bracket, Mounting (2 used)  .... P-6665-326
    SECURED TO ITEM 24, ABOVE,
    BY MEANS USED
    TO SECURE ITEM 11, ABOVE

27. Grommet (4 used) ............. R-111-7

28. Bushing (4 used)
    NOT VISIBLE IN SKETCH
    INSIDE OF ITEM 27, ABOVE .... S-231-658

Bolster Plate (2 used) ............. P-6668-3
SECURED TO ITEM 26, ABOVE,
BY
4 Lockwasher, Internal ... M-1701-8
4 Nut ............................. N-00832-2112
2 Screw .......................... MSTR-00832-1102

MISCELLANEOUS COMPONENTS
Not all visible in sketch
Nylon (6 used) ................. C-537-3
Retaining Ring
IDENTIFIED BY DIAMETER OF SHAFT
FOR WHICH EACH RING IS DESIGNED
3/32 in, (1 used) .............. P-6316-1
1/8 in, (1 used) ................ P-2891-2
3/16 in, (18 used) ............. P-6316-4
1/4 in, (2 used) ............... P-6316-6
Washer
5/8 in, dia, (2 used) .......... P-801-514
11/16 in, dia, (2 used) ........ P-801-581
Plain (4 used) ................. PW-008-12

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
**BALL-RETURN KICKER ASSYS.**

**ALSO SEE BALL-EJECTOR ASSYS., PAGE 159**

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**FIREBALL** to *WIZARD* . . . AS-2694

As illustrated above

1. Base Plate Assy. .................. A-3546
2. Coil ............................... A-25-1050
3. Core Plug Assy. .................. A-613-67
   SECURED TO BASE PLATE
   BY 2 SCREWS, SWAGE FORM,
   PAN HEAD,
   No. 8 x 3/8 in. .................. SFS-832-06-P12
4. Cotter Pin ........................ M-1536
5. Kicker Arm Assy. ................ A-3545
7. Link ............................... P-7373
8. Plunger ......................... S-496-190
9. Roll Pin .......................... P-1637-59
10. Retaining Ring .................. P-6316-5
11. Spring, Compression .......... SP-200-185
12. Striker Ring ...................... C-838

**HI-DEAL**, later games* .......... AS-2694-1

Same as AS-2694, above, except

2. Coil ............................... AP-25-850
3. Core Plug Assy. ................ A-613-89
4. Cotter Pin ........................ M-1536-1
4A. Fishpaper (added) .............. P-150
11. Spring, Compression .......... SP-200-189

*See list of games, pages 1, 2

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**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

163
AUTOMATIC BALL-SHOOTER AS-1566-25

Similar to Ball Return Kicker on page 163 with
Bracket,
Mounting ......................... P-3662-6
Coil ................................. P-108-35
SECURED TO P-3662-6
BY 2 SCREW, PARKER KALON,
SWAGE FORM ............... SFPR-00832-1106
Coil ................................. A-25-950
Core Plug Assy .................... A-613-67
SECURED TO P-3662-6
IN SAME MANNER AS P-108-35
Guide Ring ......................... C-342
Spring Washer ..................... P-1158-6
Plunger ............................. S-496-119
Spring, Compression ............ SP-200-19
Kicker Arm Assy ................... A-1875-6
SECURED TO S-496-119
BY ROLL PIN ....................... P-1637-30
SECURED TO P-3662-6
BY
ELASTIC STOP NUT ............. M-319-2
STUD ............................... S-1784-2

SHOOTER BUTTON
Same as Flipper Button,
page 175, excepting
Switch ......................... ASW-A10-22

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

164
BALL TROUGH & RETAINER ASSYS.

ILLUSTRATIONS SLIGHTLY LESS THAN ACTUAL SIZE

SINGLE BALL TROUGH

Ball Trough Assy. illustrated above is used in games requiring more than one ball. Order ball Return Trough components for other games by name or description, specifying name of game.
INDEX TO ABOVE ASSYS.

1. Ball Trough Cover Ass'y
   IN AS-2585  A-3454
   IN AS-2585-1  A-3454-1
2. Pawl
   IN both Assys.  P-7410
3. Spring, Torsion
   IN both Assys.  SP-399-32
4. Retaining Ring
   IN both Assys.  P-2891-4

Items 5 through 12 constitute BALL TROUGH ASSY.

FOUR MILLION B.C.  AS-2412-2
FIREBALL  AS-2412-3
NIP-IT  AS-2412-4
5. Ball Trough Ass'y
   IN AS-2412-2  AS-2896-6
   IN AS-2412-3  AS-2896-9
   IN AS-2412-4  AS-2896-9
6. Bracket, Switch
   IN all 3 Assys.  P-126-555
7. Bracket Screw  LS-632-3-511
8. Nyliner
   IN all 3 Assys.  C-537-5
9. Switch
   IN all 3 Assys.  ASW-A1-35
10. Switch Actuator
    IN all 3 Assys.  M-497-13
11. Switch Plate
    IN all 3 Assys.  P-137-5
12. Switch Screw
    IN all 3 Assys.  MS-540-10-510

SEE LISTING AT RIGHT

BALL RELEASE GATE USED WITH ABOVE ASSYS.

FOUR MILLION B.C.
FIREBALL
NIP-IT

Ball Gate  A-3110
Ball Gate Coil Bracket Assy.  AS-1587-73
As Illustrated, page 195, except
Base Plate  P-3691-21
Coil  A-27-1300
Lever Arm Assy.  A-1889-7
Spring  SP-240-3

FOUR MILLION B.C.
FIRE BALL

Switch & Bracket Assy.  AS-982-863
Bracket  P-126-632
Switch  ASW-A2X-7
Switch Plate  P-137-5
Switch Screw  MS-540-6-110

NIP-IT

Switch & Bracket Assy.  AS-982-971
Same as AS-982-863, above,
with position of Switch reversed

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
THUMPER BUMPER VARIATIONS

HOW TO REMOVE OR INSTALL THUMPER BUMPER

To remove Thumper Bumper, first elevate Playfield Panel and unsolder and straighten terminals of Lamp Socket E-120-25 to permit passage through Play-field.

Then remove Nuts at end of Studs on Flange & Stud Assy. A-1873.

Remove Cap for access to Wood Screws which secure Thumper Bumper to top of Panel. When Screws are removed, entire Thumper Bumper may be lifted from Panel.

(Be careful that parts assembled to Flange & Stud Assy. do not become disassembled.)

To install new Thumper Bumper, follow above instructions in reverse order.

After installation, check and adjust Bumper Scoring Switch, Blade which contacts Pin in Base C-115-1 should be just touching Pin without excessive pressure. Gap between switchpoints should be approximately 1/32 in.

FASTENERS

Order nuts, screws, washers by name or description with reference to (a) name of game, (b) name or part number of Assy., (c) part fastener secures.

SKYROCKET
As illustrated, page 167, with
Cap, Blue .................... C-719-16
Red ..................... C-719-12
Coil & Bracket Assy. ........ AS-1587-11
As illustrated, page 167, except
Coil .......................... A-25-1000
Coil Bracket ................ P-3657-1
Core Plug Assy. ............. A-613-88
Plate, Balexite ............... P-3656
Switch & Bracket Assy. (3) AS-982-780
Bracket .................... P-126-29
Plate ....................... P-126-154
Switch ...................... ASW-A110-1
Switch Plate ................ P-137-5

FOUR MILLION B.C.
Same as SKYROCKET, excepting
Cap, Blue .................... C-719-16
Green ..................... C-719-13
Red ..................... C-719-12

EXPRESSWAY
Same as SKYROCKET, excepting
Cap, Green .................. C-719-13
Yellow .................. C-719-17

SEA RAY

MARINER
Same as SKYROCKET, excepting
Cap, Blue .................... C-719-16
Red ..................... C-719-12

FIREBALL
Same as SKYROCKET, excepting
Cap, Blue .................... C-719-16
Yellow .................. C-719-17

EL TORO
Same as EXPRESSWAY

LITTLE JOE
Same as SKYROCKET, excepting
Cap, Red .................... C-719-12
Yellow .................. C-719-17
Switch & Bracket Assy. (4) AS-982-780
As detailed under SKYROCKET

SPACE TIME
Same as LITTLE JOE, excepting
Cap, Blue .................... C-719-16
Red ..................... C-719-12

MONTE CARLO
Same as FIREBALL

ODDS & EVENS
Same as SEA RAY

TIME ZONE
Same as SPACE TIME

NIP-IT
Same as LITTLE JOE

HI-LO ACE
Same as LITTLE JOE, excepting
Cap Assy., Blue .................. A-3713-11
Yellow .................. A-3713-12

CIRCUS

BIG SHOW
Same as SKYROCKET, excepting
Cap Assy., Green .................. A-3713-15
Also see Bumper Cap Assys., items 12, 14, page 137

CHAMP

SKY KINGS
through

AMIGO
Same as SKYROCKET, excepting
Cap Assy.,
Blue .................. A-3713-11
Yellow .................. A-3713-12

DELTA QUEEN
Same as SKYROCKET, excepting
Cap Assy., Blue .................. A-3713-11

ROGO
Same as CHAMP, excepting
Cap Assy.,
Blue .................. A-3713-7
Red .................. A-3713-11

*See chronological list of games, pages 1, 2.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

CONTINUED ON NEXT PAGE
THUMPER BUMPER VARIATIONS

BON VOYAGE
Same as in CHAMP

BOOMERANG
Same as in SKYROCKET, except
Cap Assy.  A-3713-7
Switch & Bracket Assy. (1)  AS-982-780
As detailed under SKYROCKET

FLICKER
Same as in BOOMERANG, except
Cap Assy.  A-3713-11

AIR ACES
Same as CHAMP except
Cap Assy. (2 used)  A-3713-16

KNOCKOUT
Same as CHAMP, except
Cap Assy.,
Green  A-3713-8
Red  A-3713-7

WIZARD
Same as in SKYROCKET, except
Cap Assy.,
Green  A-3713-8
Yellow  A-3713-12
Switch & Bracket Assy. (2)  AS-982-780
As detailed under SKYROCKET

HI-DEAL
Cap Assy.,
100 (2 used)  A-3713-17
10 (1 used)  A-3713-22
Coil Bracket Assy.  AS-1567-12
As illustrated, page 167, with
Coil  AP-27-1300
Coil Bracket  P-3657-1
Core Plug Assy.  A-613-101
Plate, Bakelite  P-3656
Spring, Compression  SP-200-196
D.C. COMPONENTS
Attached to underside of Playfield,
directly adjacent to Flippers,
purpose of D.C. components
is to convert power to operate
Thumper Bumpers and Slingshot Kickers,
from Alternating Current
to Direct Current,
greatly adding to force of action.
D.C. components are:
Bridge Rectifier
(small black box)  E-602-1
Capacitor
(small yellow tube)  E-586-58
Fuse  E-133-5
Fuse Block  E-148
Switch & Bracket Assy. (3)  AS-982-1088
Bracket  P-126-727
Switch  ASW-A110-4
Switch Plate,
Flat  P-126-154
Spring  P-137-4
Switch Screw (2)  MSSR-00640-1120
Thumper Bumper Assy.  AS-2222-4
As illustrated, page 167

BOW AND ARROW
Same as in HI-DEAL, except
Cap Assy.,
A  A-3713-1
B  A-3713-2
C  A-3713-3
D  A-3713-4
Diode (4)  E-687-16
Switch & Bracket Assy. (4)  AS-982-1088
As detailed under HI-DEAL

FLIP-FLOP
Same as in HI-DEAL, except
Cap Assy. (2)  A-3713-17
Diode (2)  E-687-16
Switch & Bracket Assy. (2)  AS-982-1088
As detailed under HI-DEAL

HOKUS POKUS
Same as in HI-DEAL, except
Cap Assy. (2)  A-3713-22
Diode (2)  E-687-16
Switch & Bracket Assy. (2)  AS-982-1088
As detailed under HI-DEAL

OLD CHICAGO
Same as in HI-DEAL, except
Cap Assy.,
10 (3)  A-3713-22
100 (2)  A-3713-23
Diode (5)  E-687-16
Switch & Bracket Assy. (5)  AS-982-1088
As detailed under HI-DEAL

CAPT. FANTASTIC
Same as in HI-DEAL, except
Cap Assy. (3)  A-3713-26
Diode (3)  E-687-16
Switch & Bracket Assy. (3)  AS-982-1088
As detailed under HI-DEAL
BUMPER ASSY. AS-2222-5

TARGET ASSYS. MUSHROOM BUMPER ASSYS.

For details of above 3 Assys. see Playfield Charts commencing page 124

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
INDEX TO ILLUSTRATION, PAGE 271

AIR ACES

DROP TARGET ASSY......AS-2795-9
AS ILLUSTRATED ABOVE

1. Coil, Reset ............... N-24-800
2. Core Plug Assy. ......... A-613-99
3. SECURED TO END PLATE
   BY 2 SCREW . SFPP-00832-1104
4. Coil Bracket ............ P-2236-20
5. SECURED TO END PLATE
   BY 2 SCREW . SFPP-00832-1104
6. Solenoid-Link Assy. ..... A-3392
7. SECURED TO LINK
   AND RESET ARM
   BY RETAINING RING . P-6316-5
8. AND SHOULDER STUD S-458-26
9. Link ................. P-1973-337
10. SECURED TO SHAFT
    BY PLAIN WASHER . PW-250-12
    AND RETAINING RING P-6316-6
12. SECURED TO SHAFT
    BY 2 SET SCREW ... M-1369-6

Items 1 through 6
are duplicated at opposite end
13. Reset Arm .......... P-1440-9
15. End Plate, Left ........ P-1369-1
16. End Plate, Right ...... P-1369
17. Spring Bracket ...... P-1350-9
18. SECURED TO END PLATES
    BY 2 SCREW . SFPP-00832-1104
19. Side Plate ......... P-1445-9
20. SECURED TO END PLATES
    BY 2 SCREW . SFPP-00832-1104
21. Bottom Plate ....... P-1501-9
22. SECURED TO END PLATES
    AND SIDE PLATE
    BY 6 SCREW . SFPP-00832-1104
23. Latch Plate .......... P-1370-9
24. SECURED TO SIDE PLATE
    BY 4 SCREW . SFPP-00832-1104
25. Mounting Bracket (4) . P-126-709
26. EACH SECURED TO SIDE PLATE
    BY 2 SCREW . TFTP-00540-1104
27. Target Assy. (9) .... A-3773
28. EACH SECURED TO LINK
    BY RETAINING RING . P-6316-5
    AND SHOULDER STUD S-458-27

AIR ACES CONTINUED

1. Spring ............... SP-100-314
2. Switch (2) .......... ASW-A10-1
3. EACH SECURED TO SIDE PLATE
   BY SPRING PLATE . P-137-5
   AND 2 SCREW . TFTP-00540-1112
5. EACH SECURED TO BOTTOM PLATE
   BY SPRING PLATE . P-137-5
   AND 2 SCREW . TFTP-00540-1108
   Not visible
   Mounted on back of Side Plate
   EACH SECURED TO SIDE PLATE
   BY SPRING PLATE . P-137-5
   AND 2 SCREW . TFTP-00540-1112

IMPORTANT NOTE
3/32 in. air gap required
between each of 20 Switches
and adjacent Plates

OLD CHICAGO

DROP TARGET ASSY......AS-2795-5
Same as AS-2795-9, AIR ACES, except
quantity of some parts reduced
by reduction in quantity of Target Assys.
and following parts changed

1. Coil, Reset ............... N-21-650
2. Reset Arm .......... P-1440-5
3. Shaft .......... S-739-229
4. End Plate, Left ....... P-1369-2
5. Spring Bracket ...... P-1350-5
7. Bottom Plate ....... P-1501-5
8. Latch Plate .......... P-1370-5
9. Mounting Bracket (4) . P-126-709
10. EACH SECURED TO SIDE PLATE
    BY 2 SCREW . TFTP-00540-1104

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
FLASHER TARGET ASSY. AS-2693-1

Target Bracket,
1. Yellow (1000) .................... P-7641-13
3. Blue (3000) ..................... P-7641-10
4. Green (4000) ................... P-7641-11
5. Red ............................. P-7641-14
6. Hole Plug, White (5000) ...... C-776-2
7. Screw, Sheet Metal,
Type Z, Zinc Plated,
No. 6 x 3/16 in. long
(20 used) ......................... SMZ-6-3-511

NOT ILLUSTRATED
Lamp Socket,
8. 1 used ........................... E-120-155
9. 16 used ........................ E-120-156
10. Lamp, No. 44 .................. E-125-22

USED WITH, NOT INCLUDED IN ASSY.
11. Playfield Window ............... M-1499
12. Window Gasket ................. M-1398

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
173
**FLIPPER UNITS**

SEE PAGE 176 FOR VARIATIONS

NEW STYLE

PAGE 177

COMMENCING WITH

AIR ACES

**FLIPPER & PIN ASSYS.**

SEE PAGE 176 FOR VARIATIONS

**FLIPPER BUTTON**

WASHER P-800-2

HOUSING C-718

RETAINING RING P-2891-7

BUTTON C-717

**FLIPPER BUTTON ASSY.**

SKYROCKET,

FOUR MILLION B.C. AS-2443

As illustrated above

EXPRESSION way, later games*

through TWIN WIN AS-2443-1

Same as AS-2443, above, with

Spring (ADDED) (not visible) SP-459-1

SKY KINGS, later games*

through WIZARD AS-2443-2

Same as AS-2443-1, above, with

Housing C-877

Washer P-801-258

HI-DEAL, later games

See listings, page 176, commencing with HI-DEAL

**FLIPPER BUTTON, PARTS RELATED TO**

Pal Nut M-1314-2

Switch

SKYROCKET, FOUR MILLION B.C.

Left Button ASW-A-1010

Right Button ASW-A-10-3

EXPRESSION way, later games*

through CHAMP

Left Button ASW-A-1010-1

Right Button ASW-A-10-22

TWIN WIN

Left Button ASW-A-1110

Right Button ASW-A-1010-1

SKY KINGS, later games*

through WIZARD

left Button ASW-A-1010-2

Right Button ASW-A-10-27

Switch Plate,

Flat, (2) P-126-155

Spring (2) P-137-5

HI-DEAL, later games*

See listings, page 176

commencing with HI-DEAL

*See chronological list of games, pages 1, 2.

**RUBBER RINGS**

SEE PLAYFIELD CHARTS

COMMENCING PAGE 185

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**
INDEX TO ILLUSTRATION, PAGE 175

1. Base Plate
   - Left: P.3691-18
   - Right: P.3691-19
2. Core Plug Assy.: A-613-67
3. Coil
   - See Game Listings below
5. Plunger: Sheet 496-167
6. Guide Ring (not visible); C-342
7. Spring, Compression: SP-240
8. Roll Pin: P.1637-1
   - Left: A-1899-8
   - Right: A-1899-7
10. Set Screw (2)
11. See Games Listings below
12. Bearing, Nylon: C-649
13. SECURED BY Screw (3): MS-632-5-510
14. Stop Bracket: P.6256
15. Switch Bracket: P.126-659
16. Switch: ASW-A20-1
17. Screw (2): MS-540-7-110
18. Switch Plate (Spring): P.137-5

FLIPPER UNITS

SKYROCKET

Flipper & Pin Assy.: AS-2214-19
As Illustrated, page 175, with
- Flipper: C-611-5
- Flipper Arm Assy.: A-2747-6
Flipper Unit
- Left: AS-1587-72
- Right: AS-1587-71
As Illustrated, page 175, with
- Coil: AF-26-750/31-900
- Set Screw: M-1369

FOUR MILLION B.C.

Flipper & Pin Assy.
- Left: AS-2214-7
- As Illustrated, page 175, with
- Flipper: C-609-5
- Flipper Arm Assy.: A-2747-4
- Right: AS-2214-6
- Same as AS-2214-7, above, with
- Flipper: C-610-5
Flipper Unit (Flipper Zipper)
See page 179
- Switch & Bracket Assy.: AS-982-588
  - Bracket: P.126-548
  - Switch,
    - LISTED FROM
    - SWITCH PLATE END
    - OF STACK
    - Top: ASW-A2-39
    - Bottom: ASW-A11-3
    - Switch Plate (Spring): P.137-5
    - Switch Screw (2): MS-540-20-510

EXPRESSIONWAY

Same as in SKYROCKET

SEA RAY

Same as in SKYROCKET, excepting
Flipper Unit,
- Left: AS-1587-78
- Right: AS-1587-79
- As Illustrated, page 176, with
- Coil: AF-26-650/30-1200
- Set Screw (2): M-1590

MARINER

Same as in SEA RAY, with
- Coil: AF-26-600/31-1000

FIREBALL

Same as FOUR MILLION B.C., with
Switch & Bracket Assy. AS-982-894
- Same as AS-982-588,
  FOUR MILLION B.C., excepting
  Switch,
  - Top: ASW-A2-50
  - Middle: ASW-A2-39
  - Bottom: ASW-A11-3
  - Switch Screw (2): MS-540-24-510

EL TORO

Same as in SKYROCKET

LITTLE JOE

Same as in SEA RAY

SPACE TIME

Same as in SEA RAY

MONTE CARLO

Same as SKYROCKET, excepting
Flipper Units
- Left: AS-1587-81
- Right: AS-1587-82
- As Illustrated, page 175, with
- Coil: AF-25-600/28-900
- Set Screw: M-1369

ODDS & EVENS

TIME ZONE

Same as in SEA RAY

NIP-IT

Same as FOUR MILLION B.C., with
Switch & Bracket Assy. AS-982-972
- Same as AS-982-588,
  FOUR MILLION B.C., with
  Switch,
  - Top: ASW-A2-50
  - Middle: ASW-A1-109
  - Bottom: ASW-A2-39
  - Switch Screw (2): MS-540-18-110

*See chronological list of games, pages 1, 2.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
# FLIPPER UNITS

## AIR ACES
### Bottom Flippers
**LEFT**
- Base Plate Assy. .......... AS-1587-87
- Bracket .................. P-6264-117
- Coil ........................ AF-25600-800
- Core Plug Assy. .......... A-613-67
- Screw (4) ................. SFPB-00932-1106
- Solenoid bracket ........ P-108-3
- Bearing .................. C-649-5
- Flipper Pin Assy. ...... AS-2214-21
- Arm Assy. ................. A-2747-8
- Flipper .................. C-611-9
- Screw ........................ SYPB-00600-1106
- Lever Arm Assy. ........ A-3711-1
- Plunger-Link Assy. ... A-3714
- Set Screw (2) ............... M-1369
- Spring, Compression ...... SP-200-185
- Stop Bracket ............... P-6665-409
- Switch Bracket Assy. .. AS-982-1041
- Bracket .................. P-126-408
- Screw (2) ................... MSSR-00540-1107
- Switch ..................... ASW-A20-23
- Switch Plate ............... P-137-5

**RIGHT**
Same as **LEFT**, except
- Lever Arm Assy. ........ A-3711
- Switch-Bracket Assy. .. AS-982-1040
Same as AS-982-1041,
- LEFT, above,
with Switch position reversed

### Top Flippers
**LEFT**
Same as **Bottom Flippers**,
- LEFT, except
- Flipper Pin Assy. ...... AS-2214-23
- Arm Assy. ................. A-2747-10
- Flipper Assy. ............. A-3739
- Screw ........................ SYPB-00600-1108

**RIGHT**
Same as **Bottom Flippers**,
- RIGHT, except
- Flipper Pin Assy. ...... AS-2214-22
Same as AS-2214-23,
- LEFT, above, except
- Flipper Assy. ............. A-3739-1

## HI-DEAL
### BOW AND ARROW
**Flipper & Shaft Assy. (2) .... AS-2214-24**
Similar to illustration, page 175, with
- Flipper .................. C-611-5
- Flipper Arm Assy. .... A-2747-11

**Flipper Assy.**
- Left Flipper ............... AS-1587-88
- Right Flipper .......... AS-1587-89
As illustrated, page 178, with differences between Left, Right called out in listing

**Flipper Button Components (2 sets)**
- NO ASSY. NUMBER
  - Button ...................... C-905
  - Button Housing (plastic) .. C-904
- Mounting Plate .............. P-1556
- Switch (2) ................ ASW-A10-41
- Switch Plate (2) .......... MSSR-00540-1108

## CAPT. FANTASTIC
Same as HI-DEAL, with added
**Flipper Units, Upper**
- LEFT .......................... AS-1586-98
- RIGHT ....................... AS-1587-97
As illustrated, page 178, with
- Switch & Bracket Assy.
- LEFT .......................... AS-982-1115
- RIGHT ......................... AS-982-1116
Same as AS-982-1115, above, with position of Bracket reversed
- Lever Arm Assy.,
- LEFT .......................... A-3711-3
- RIGHT ......................... A-3711-2

## FLIP FLOP
Same as in HI-DEAL, except
**Flipper & Shaft Assy.**
- (4 USED) .................. AS-2214-24

**Flipper Assy.**
**Bottom Flippers**
Same as in HI-DEAL
**Top Flippers**
- Left .......................... AS-1587-85
- Right ......................... AS-1587-96
Same as Bottom Flippers, except
- Coil ........................ AF-26650-800

**Flipper Button Assy. (2) ... AS-2443-2**
As described, page 175
- Switch (2) ................ AS-10-27

## HOKUS POKUS
Same as HI-DEAL

## OLD CHICAGO
Same as HI-DEAL, without
**Switch & Bracket Assy.**

---

*See chronological list of games, page 6.*

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

177
FLIPPER UNITS (NEW)

TOP VIEW

SIDE VIEW

1. Core Plug Assy. . . . . . . A-613-67
   SECURED TO MOUNTING BRACKET
   BY 2 SCREW . . . . SFP-00832-1106

2. Coil . . . . . . . . . . AF-25500-1000

3. Coil Bracket . . . . . . P-108-53

4. Spring, Compression . . . SP-200-185

5. Plunger & Link Assy . . . A-3714-1

6. Spring Washer . . . . . . P-1158-6

7. Bearing . . . . . . . . . . C-649-53
   SECURED TO MOUNTING BRACKET
   BY 3 SCREW . . . . SFP-00832-1106

8. Mounting Bracket . . . . . . P-6264-134

   SECURED TO MOUNTING BRACKET
   BY 2 SCREW . . . . SFP-00832-1106
   Left Flipper . . . . . . A-982-1043
   Bracket . . . . . . . . . . P-126-718
   Switch . . . . . . . . . . ASW-A20-23
   Switch Plate . . . . . . P-137-5
   Switch Screw (2) . . . . MSSR-00540-1107
   Right Flipper . . . . . . A-982-1044
   Same as A-982-1043, above,
   except position of Bracket reversed

10. Lever Arm Assy.
    SECURED TO
    PLUNGER & LINK ASSY.
    BY RETAINING RING . . P-6316-5
    Left Flipper . . . . . . A-3711-2
    Right Flipper . . . . . . A-3711-3

11. Set Screw
    (2 used each Flipper) . . M-1369

12. Flipper Stop . . . . . . P-6665-444

13. Washer . . . . . . . . . . P-801-590

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

178
35 FLIPPER & PIN ASSY: See Game Listings, page 176.

36 FASTENERS: See page 180 at 36.

37 MISCELLANEOUS PARTS: See page 180 at 37.

38 SWITCH & BRACKET ASSY.: See Game Listings, page 176.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

179
**FLIPPER-ZIPPER INDEX**

Circled numbers below correspond to circled numbers which indicate parts on page 179. Numbers in parentheses indicate quantity of each part used.

<table>
<thead>
<tr>
<th>#</th>
<th>Part Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Roll Pin (2)</td>
<td>P-1637-1</td>
</tr>
<tr>
<td>2</td>
<td>Bracket (2)</td>
<td>P-6256</td>
</tr>
<tr>
<td>3</td>
<td>Base Plate Assy., Right (1)</td>
<td>A-1888-20</td>
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<tr>
<td></td>
<td>Also see Item 17</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Set Screw (4)</td>
<td>M-1369</td>
</tr>
<tr>
<td>5</td>
<td>Lever Arm Assy., Right (1)</td>
<td>A-1889-7</td>
</tr>
<tr>
<td>6</td>
<td>Spring, Compression (2)</td>
<td>SP-240</td>
</tr>
<tr>
<td>7</td>
<td>Guide Ring (not visible) (2)</td>
<td>C-342</td>
</tr>
<tr>
<td>8</td>
<td>Latch Bracket Assy. (1)</td>
<td>A-3112</td>
</tr>
<tr>
<td>9</td>
<td>Latch Magnet Bracket (1)</td>
<td>P-6665-43</td>
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<td>10</td>
<td>Latch Magnet Assy. (1)</td>
<td>AS-2517 (See detailed sketch below.)</td>
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<tr>
<td>11</td>
<td>Solenoid (1)</td>
<td>E-184-239</td>
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<td>12</td>
<td>Base Plate (1)</td>
<td>P-6841</td>
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<tr>
<td>13</td>
<td>Following parts used at 13</td>
<td>(          )</td>
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<tr>
<td></td>
<td>Bushing (2)</td>
<td>S-231-712</td>
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<tr>
<td></td>
<td>Cotter Pin, Steel (1)</td>
<td>1/16&quot; Dia.x7/8&quot;</td>
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<tr>
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<td>Roll Pin (1)</td>
<td>P-1637-10</td>
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<td>Tube, Zinc (2)</td>
<td>S-231-710</td>
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<td>14</td>
<td>Washer (6)</td>
<td>P-801-107</td>
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<td>15</td>
<td>Core Plug Assy. (2)</td>
<td>A-613-67</td>
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<td>16</td>
<td>Coil (2)</td>
<td>AF-25-600/31-1000</td>
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<td>17</td>
<td>Base Plate, Left (1)</td>
<td>A-1888-19</td>
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<tr>
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<td>Also see Item 3</td>
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<td>18</td>
<td>Elastic Stop Nut (2)</td>
<td>M-319-4</td>
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<td>19</td>
<td>Switch Plate (Spring (2)</td>
<td>P-137-5</td>
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<td>20</td>
<td>Switch Bracket (2)</td>
<td>P-126-559</td>
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<tr>
<td>21</td>
<td>Switch</td>
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</tr>
<tr>
<td></td>
<td>Left</td>
<td>ASW-A20-13</td>
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<td></td>
<td>Right</td>
<td>ASW-A20-12</td>
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<tr>
<td>22</td>
<td>Spring Washer (not visible) (2)</td>
<td>P-1158-6</td>
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<td>23</td>
<td>Solenoid Bracket (2)</td>
<td>P-108-53</td>
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<td>24</td>
<td>Nylon Bearing (2)</td>
<td>C-649</td>
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<td>25</td>
<td>Lever Arm Assy., Left (1)</td>
<td>A-1889-8</td>
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<td>26</td>
<td>Plunger (2)</td>
<td>S-496-167</td>
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<td>27</td>
<td>Retaining Ring (3)</td>
<td>P-6316-6</td>
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<td>28</td>
<td>Nylon (not visible) (4)</td>
<td>C-537-5</td>
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<td>29</td>
<td>Latch Assy. (1)</td>
<td>A-3088-2</td>
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<td>30</td>
<td>Bushing (2)</td>
<td>S-156-441</td>
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<tr>
<td>31</td>
<td>Spring, Extension (1)</td>
<td>SP-100-252</td>
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<tr>
<td>32</td>
<td>Link (1)</td>
<td>P-1973-160</td>
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<tr>
<td>33</td>
<td>Fasteners</td>
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<tr>
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<td>Order nuts, screws, washers by name or description with reference to</td>
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</tr>
<tr>
<td></td>
<td>(a) Moveable Flipper Unit,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(b) Name of game,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(c) Part fastener secures</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>MISCELLANEOUS PARTS</td>
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</tr>
<tr>
<td></td>
<td>Not visible in drawing</td>
<td></td>
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<tr>
<td></td>
<td>Fishpaper (Insulator) (2)</td>
<td>P-150-85</td>
</tr>
<tr>
<td></td>
<td>3-3/4 in. by 7/8 in.</td>
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<tr>
<td></td>
<td>Shoulder Bushing (2)</td>
<td>S-156-446</td>
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<tr>
<td></td>
<td>Length of shoulder: 1/16 in.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Large dia.: 1 in.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Washer (Nylon)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5/8 in. outside dia. (2)</td>
<td>P-801-527</td>
</tr>
<tr>
<td></td>
<td>1 in. outside dia. (4)</td>
<td>P-801-523</td>
</tr>
</tbody>
</table>

**DIAGRAM**

![Diagram of Flipper-Zipper Index parts](image)

**WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME**

180
INDEX TO ILLUSTRATION, PAGE 181

WIZARD
Flip Unit Assy. AS-2707-2

FLIP FLOP
Flip Unit Assy. AS-2707-1
Both Assys. are as illustrated with variations indicated below

FASTENERS
Order nuts, screws, washers by name or description with reference to
(A) Name of game,
(B) Above Assy. No.
(C) Part fastener secure

1 Base Plate
   In AS-2707-1 P-1537
   In AS-2707-2 P-1537-1

2 Bearing Bracket P-1536

3 Bushing
   3 which separate Flapper & Plug Assys. S-231-800

4 Bushing
   4 which separate Panel Plate from Base Plate S-231-808

5 Clip (larger) C-271-1

6 Clip (smaller) C-271-4

7 Coil (4) CO-30-1700 NOT VISIBLE ON BACK SIDE OF COIL MOUNTING BRACKET

8 Coil Bracket (8) P-108-53 NOT VISIBLE ON BACK SIDE OF COIL MOUNTING BRACKET

9 Coil Mounting Bracket P-1538

FLAPPER & PLUG ASSYS.
Variations in part numbers refer to variations in printing, not shown in illustration. Assys. are listed from left to right of illustration.

In AS-2707-1
10 A-3771-6
11 A-3771-7
12 A-3771-8

In AS-2707-2
10 A-3771-9
11 A-3771-10
12 A-3771-11
13 A-3771-12

14 Panel Plate
   In AS-2707-1 P-1546
   In AS-2707-2 P-1546-1

15 Pin S-739-616 SECURED TO BEARING BRACKETS BY 2 RETAINING RING P-2891-2

16 Plug Bumper (4) R-231-4

17 Push Wire Form (4) M-121-55

18 Striker & Bushing Assy.
   (4 used) A-850-7

19 Switch (4)
   In AS-2707-1 ASW-A1-129
   In AS-2707-2 ASW-A3-29
   EACH SECURED TO COIL MOUNTING BRACKET BY SWITCH PLATE, FLAT P-126-155 SPRING P-137-5
   2 SCREW JTPP-00540-1112

Target Switch Assy. (4)
NOT SHOWN IN ILLUSTRATION
ONE LOCATED IN FRONT OF EACH FLAPPER
EACH SECURED AS SWITCH BUT WITHOUT FLAT PLATE
   In AS-2707-1 A-3359-14
   In AS-2707-2 NOT USED

PARTS USED WITH TARGET SWITCH ASSYS.

In AS-2707-1
   Bumper Post C-119-25
   Rubber Rings R-243
   In AS-2707-2 NOT USED

ILLUMINATION PARTS

In AS-2707-1
   Lamp (4) E-125-22
   Lamp Shield (4) M-1779
   Lamp Socket (4) E-120-33
   In AS-2707-2 NOT USED

20 Washer, Plain PW-005-12
ONE USED AT EACH END OF PIN (ITEM 15)

21 Wire Actuator Assy. (4) AS-2806-22
   Bracket P-6254-1
   Wire M-1336-1

PARTS NOT ILLUSTRATED

Canoe Clip (4) M-1789-6
No. 6 Clear Tubing (4) M-1777-52

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
KICKBACK ASSYS.

KING REX
Kickback Assy. ............ AS-2404-3
As illustrated

1  Plunger & Striker Assy. A-550-4
2  Kicker Frame ............. P-7378
3  Solenoid Bracket ....... P-108-53
4  Screw (2)
   (Solenoid Bracket) LS-832-3-610
5  Plug Bumper .............. R-231-11
6  Spring, Compression .... AP-200-171
   Coil ...................... AK-25-1050

SPACE TIME

TIME ZONE
Kickback Assy. ............ AS-2404-4
Same as AS-2404-3, illustrated, with
Plunger & Striker Assy. .... A-550-5
Spring, Compression ....... SP-200-175

NIP-IT

ROGO
Sling-Shot Kicker Assy.
See page 188

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

183
POST ASSY., DISAPPEARING AS-2553
(Play-More Post)

IMPORTANT

Assy. illustrated below was used in MARINER and earlier games*, with Play-More Post.

For Play-More Post used in LITTLE JOE and later games* see pages 185, 186.

TO REPLACE BUMPER CAP
Break off damaged Cap with pliers.
Press new Cap down over Roll Pin P-1637-58.

Circled numbers below correspond to circled numbers in drawing. Numbers in parentheses indicate quantity of each part used, if in excess of one.

1. Bumper Cap (Plastic) ............... C-810
2. Roll Pin .......................... P-1637-58
3. Washer (Nylon) .................... P-801-468
4. Retaining Ring (2) ................. P-2891-6
5. Spring, Compression ............... SP-200-178
6. Liner .............................. C-537-5
7. Lamp (No. 44) (2) ................. E-125-22
8. Socket, Lamp (2) .................. E-120-154
9. Mounting Bracket ................. P-7595
10. Shaft ............................ S-2040
11. Elastic Stop Nut ................. M-319-1
12. Lockwasher, Split ............... No. 10
13. Plunger ....... ........................ S-496-188
14. Solenoid Bracket ................. P-108
15. Guide Ring (not visible) ........ C-342
16. Coil .............................. AP-31-3000
17. Core Plug Assy .................. A-613-88
18. Screw (secured to 20) (2) ...... MS-632-5-112
19. Lockwasher, Split (2) .......... No. 6
20. Nut, Hexagon (2) ................... N-632-2112
21. Lockscrew (5) .................... LS-632-4-512

*See chronological list of games, pages 1, 2.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
TO REPLACE BUMPER CAP
Break off damaged Cap with pliers.
Press new Cap down over Roll Pin P-1637-58.
### INDEX TO ILLUSTRATION, PAGE 185

Circled numbers below correspond to circled numbers in drawing on page 185. Numbers in parentheses indicate quantity used, if in excess of one.

#### SEE VARIABLE PARTS AT RIGHT

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bumper Cap (Plastic)</td>
<td>C-810</td>
</tr>
<tr>
<td>2</td>
<td>Roll Pin</td>
<td>P-1637-58</td>
</tr>
<tr>
<td>3</td>
<td>Washer (Nylon)</td>
<td>P-801-468</td>
</tr>
<tr>
<td>4</td>
<td>Retaining Ring (2)</td>
<td>P-2891-6</td>
</tr>
<tr>
<td>5</td>
<td>Spring, Compression</td>
<td>SP-200-178</td>
</tr>
<tr>
<td>6</td>
<td>Nyliner</td>
<td>C-537-5</td>
</tr>
<tr>
<td>7</td>
<td>Lamp (No. 44) (2)</td>
<td>E-125-22</td>
</tr>
<tr>
<td>8</td>
<td>Socket, Lamp (2)</td>
<td>E-120-154</td>
</tr>
<tr>
<td>9</td>
<td>Mounting Bracket</td>
<td>P-7595</td>
</tr>
<tr>
<td>10</td>
<td>Shaft</td>
<td>S-2040</td>
</tr>
<tr>
<td>11</td>
<td>Elastic Stop Nut</td>
<td>M-319-1</td>
</tr>
<tr>
<td>12</td>
<td>Washer</td>
<td>PW-10-10</td>
</tr>
<tr>
<td>13</td>
<td>Plunger</td>
<td>S-496-194</td>
</tr>
<tr>
<td>14</td>
<td>Solenoid Bracket</td>
<td>P-108</td>
</tr>
<tr>
<td>15</td>
<td>Coil</td>
<td>AP-26-1200</td>
</tr>
<tr>
<td>16</td>
<td>Core Plug Assy</td>
<td>A-613-88</td>
</tr>
<tr>
<td>17</td>
<td>Screw (secured to 19) (2)</td>
<td>LS-632-5-112</td>
</tr>
<tr>
<td>18</td>
<td>Lockwasher, Split (2)</td>
<td>No. 6</td>
</tr>
<tr>
<td>19</td>
<td>Nut, Hexagon</td>
<td>N-632-2112</td>
</tr>
<tr>
<td>20</td>
<td>Lockscrew (7)</td>
<td>LS-632-4-512</td>
</tr>
<tr>
<td>21</td>
<td>Armature Latch</td>
<td>C-857</td>
</tr>
<tr>
<td>22</td>
<td>Washer</td>
<td>P-1972-290</td>
</tr>
<tr>
<td>23</td>
<td>Terminal</td>
<td>P-405-2</td>
</tr>
<tr>
<td>24</td>
<td>Latch Magnet Assy</td>
<td>AS-2517-8</td>
</tr>
<tr>
<td>25</td>
<td>Mounting Bracket</td>
<td>P-7782</td>
</tr>
</tbody>
</table>

#### DISAPPEARING POST ASSY:

- **LITTLE JOE**
  - AS-2553-4
- **SPACE TIME**
  - AS-2553-5
- **MONTE CARLO**
  - AS-2553-5
- **ODDS & EVENS**
  - AS-2553-3
- **TIME ZONE**
  - AS-2553-5
- **AMIGO**
  - AS-2553-5

Above Assys. are identical, as listed at left, excepting items 31-33.

- **Switch & Bracket Assy.**
  - IN AS-2553-4
    - **LITTLE JOE**
      - AS-982-912

- **Bracket**
  - P-126-663
  - L-shaped bracket not visible in illustration

- **Switch (listed from top to bottom)**
  - 1st
    - ASW-A2-52
  - 2nd
    - ASW-A2-53
  - 3rd
    - ASW-A1-87
  - Switch Plate
    - P-137-5
  - Switch Screw
    - MS-540-16-110

#### IN AS-2553-5
- **SPACE TIME**
  - AS-982-940
  - Same as AS-982-912, above, excepting
    - Switch (listed from top to bottom)
      - 1st
        - ASW-A2-52
      - 2nd
        - ASW-A2-52
      - Switch Screw
        - MS-540-14-110

#### IN AS-2553-5
- **MONTE CARLO**
  - Same as in **SPACE TIME**, above

#### IN AS-2553-3
- **ODDS & EVENS**
  - AS-982-898
  - Same as AS-982-912, above, excepting
    - Switch (listed from top to bottom)
      - 1st
        - ASW-A2-52
      - 2nd, 3rd
        - ASW-A2-53
      - 4th
        - ASW-A1-87
      - Switch Screw
        - MS-540-20-110

#### IN AS-2553-5
- **TIME ZONE**
  - Same as in **SPACE TIME**, above

#### IN AS-2553-5
- **AMIGO**
  - Same as in **SPACE TIME**, above

---

**When ordering part, specify part no. and name of game**
REBOUND-SWITCH ASSYS.**
SLING-SHOT KICKER ASSYS.

ALSO SEE PAGE 190

KICKER ARM ASSY.
SEE PAGE 188

ROLL PIN
P-1637-30
PLUNGER
S-496-119
SPRING
SP-200-19
COIL BRACKET
P-108-35

BRACKET
P-3662-6
ELASTIC STOPNUT
M-319-2

CORE PLUG ASSY.
A-613-67

NO. 8 X 3/8 SCREW
PARKER KALON
SWAGE FORM
(4 USED)

SWITCH & BRACKET ASSEMBLY**
(AS-982-509)

SWITCH ASW-A10-1
(MAKE SWITCH)
BRACKET
P-126-471

STUD
S-1784-2

SWITCH PLATE
P-137-5
MS-540-12-110
SCREW

SWITCH & BRACKET ASSEMBLY**
(AS-982-561)

Identical to AS-982-509, above, with positions of Bracket and Switch Plate reversed.

ALSO SEE PAGE 188

SWITCH ADJUSTMENT NOTE

When Sling-Shot Kicker is at rest, actuating blade of Switch should just barely touch Rubber Ring, with 1/16 in. air-gap between switch points.

**Used with Rebounds and Slingshots.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

187
REBOUND-SWITCH ASSYS.* * SLING-SHOT KICKER ASSYS.

SKYROCKET
Rebound
See Switch & Bracket Assy., below
Slingshot Kicker Coil Assy., . . AS-2993-1
As described, page 190
Switch & Bracket Assy.
(7 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
(1 used) . . . . . . . . . . . . . . . . . . . . AS-982-561
As shown, page 187
(2 used) . . . . . . . . . . . . . . . . . . . . AS-982-770
Same as AS-982-509,
above, excepting
Switch . . . . . . . . . . . . . . . . . . . . ASW-A110

FOUR MILLION B.C.
Rebound
See Switch & Bracket Assy., below
Slingshot Kicker Coil Assy., . . AS-1566-24
As illustrated, page 187, with
Coil . . . . . . . . . . . . . . . . . . . . . . A-26-1200
Kicker Arm Assy., . . . . . . . . . . . . . . . . A-1875-8
Spring Washer . . . . . . . . . . . . . . . . . . . . . . . . . . . . . P-1158-8
Switch & Bracket Assy.
(8 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
As illustrated, page 260
(3 used) . . . . . . . . . . . . . . . . . . . . AS-982-561
As described, page 260

EXPRESSWAY
Rebound
See Switch & Bracket Assy., below
Slingshot Kicker Coil Assy.
(1 USED) . . . . . . . . . . . . . . . . . . . . AS-1566-22
As illustrated, page 187, with
Coil . . . . . . . . . . . . . . . . . . . . . . A-26-1200
Kicker Arm Assy., . . . . . . . . . . . . . . . . A-1875-6
(2 USED) . . . . . . . . . . . . . . . . . . . . AS-2593-1
See page 190
Switch & Bracket Assy., . . . . . . . . . . . . AS-982-509
As illustrated, page 187

SEA RAY

MARINER
Rebound
See Switch & Bracket Assy., below
Slingshot Kicker Coil Assy.
(1 USED) . . . . . . . . . . . . . . . . . . . . AS-1566-22
as detailed under EXPRESSWAY
(2 USED) . . . . . . . . . . . . . . . . . . . . AS-2593
See page 190
Switch & Bracket Assy.
(9 USED) . . . . . . . . . . . . . . . . . . . . AS-982-509
As illustrated, page 187
(2 USED) . . . . . . . . . . . . . . . . . . . . AS-982-561
As described, page 187

FIREBALL
Rebound
See Switch & Bracket Assy., below
Slingshot Kicker Coil Assy., . . AS-1566-24
Same as in FOUR MILLION B.C.
Switch & Bracket Assy.
(8 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
As illustrated, page 187
(5 used) . . . . . . . . . . . . . . . . . . . . AS-982-561
As described, page 187

EL TORO
Rebound
See Switch & Bracket Assy., below
Slingshot Kicker Coil Assy., . . AS-2593
As illustrated, page 190
Switch & Bracket Assy.
(10 USED) . . . . . . . . . . . . . . . . . . . . AS-982-509
As illustrated, page 187

LITTLE JOE

SPACE TIME
Same as in EL TORO with
Switch & Bracket Assy.
(12 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
As illustrated, page 187

MONTE CARLO

ODDS & EVENS
Same as in EL TORO with
Switch & Bracket Assy.
(8 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
As illustrated, page 187
(1 used) . . . . . . . . . . . . . . . . . . . . AS-982-561
As described, page 187

TIME ZONE
Same as in LITTLE JOE

NIP-IT
Rebound
See Switch & Bracket Assy., below
Slingshot Kicker Coil Assy.
2 used,
as Slingshot Kicker . . . AS-2593
See page 190
1 used,
as Kickback Kicker . . . AS-1566-22
Detailed under EXPRESSWAY
Switch & Bracket Assy.
(12 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
As shown, page 187

HI-LO ACE
through CHAMP
Rebound
See Switch & Bracket Assy., below
Slingshot Kicker Coil Assy., . . AS-2593
As illustrated, page 190
Switch & Bracket Assy.
(8 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
As illustrated, page 187

TWIN WIN
Same as HI-LO ACE, excepting
Switch & Bracket Assy.
(4 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
(2 used) . . . . . . . . . . . . . . . . . . . . AS-982-561
As shown, page 187

SKY KINGS
Same as HI-LO ACE, excepting
Switch & Bracket Assy.
(10 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
As shown, page 187

AMIGO
Same as HI-LO ACE

DELTA QUEEN
Same as HI-LO ACE, excepting
Switch & Bracket Assy.
(9 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
(2 used) . . . . . . . . . . . . . . . . . . . . AS-982-561
As shown, page 187

ROGO
Rebound
See Switch & Bracket Assy., below
Slingshot Kicker Coil Assy.
2 used,
as Slingshot Kicker . . . AS-2593
See page 190
1 used,
as Kickback Kicker . . . AS-1566-22
Detailed under EXPRESSWAY
Switch & Bracket Assy.
(12 used) . . . . . . . . . . . . . . . . . . . . AS-982-509
As shown, page 187

CONTINUED
ON
NEXT PAGE

**Used with Rebounds and Slingshots.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

188
REBOUND-SWITCH ASSYS.**
SLING-SHOT KICKER ASSYS.

BON VOYAGE
through* FLICKER
Same as in HI-LO ACE

AIR ACES
Same as in SKY KINGS, plus
Switch & Bracket Assy. (2) . AS-982-561
As described, page 187

KNOCKOUT
Same as HI-LO ACE, plus
Switch & Bracket Assy. (2) . AS-982-561
As described, page 187

WIZARD
Same as HI-LO ACE, except
Switch & Bracket Assy.
(5 used) .................. AS-982-509
As illustrated, page 187

HI-DEAL
Rebound
Switch & Bracket Assy. (4) . AS-982-509
As illustrated, page 187
Slingshot Kicker Coil Assy. . AS-2593-2
See page 190
D.C. COMPONENTS
Attached to underside of Playfield,
directly adjacent to Flippers,
purpose of D.C. components
is to convert power to operate
Slingshot Kickers and Thumper Bumpers
from Alternating Current
to Direct Current,
greatly increasing force of action.
D.C. Components are:
Bridge Rectifier
(small black box) ........ E-602-2
Capacitor
(small yellow tube) ......... E-586-58
Fuse ....................... E-133-5
Fuse Block ................ E-146
Switch Bracket Assy.
(2 per Kicker) ................ AS-982-1051
Bracket .................... P-126-471
Switch ..................... ASW-A10-40
Switch Plate ................ P-137-5
Switch Screw (2) .......... MSSR-00540-1108

BOB AND ARROW
Same as in HI-DEAL

FLIP FLOP
Same as in HI-DEAL, except
Rebound
Switch & Bracket Assy.
(2 used) .................. AS-982-509
Bridge Rectifier ............. E-602-1

HOKUS POKUS
Same as in HI-DEAL, except
Rebound
Switch & Bracket Assy. (5) . AS-982-509

OLD CHICAGO
Same as in HI-DEAL, except
Rebound
Switch & Bracket Assy. (6) . AS-982-509
Slingshot Kicker ............ NOT USED

CAPT. FANTASTIC
Same as in HI-DEAL, except
Rebound
Switch & Bracket Assy. (3) . AS-982-509

*See chronological list of games, pages 1, 2.

**Used with Rebounds and Slingshots.
SLING-SHOT KICKER & COIL ASSYS.

ALSO SEE PAGES 187-189

AS-2593
As illustrated at left, listed below

1. Core Plug & Coil Assy .................................. AS 2587
2. Coil: part number marked on wrapper
3. Coil Bracket ............................................. P 108
SECURED TO MOUNTING BRACKET

BY MEANS OF

Lockwasher, Split (2) .................................... No. 6
Nut (2) ..................................................... N-632-2112
Screw (Phillips) (2) ..................................... MS-632-5-112

4. Core Plug Assy .......................................... A 613-88
(INCLUDES MOUNTING BRACKET)

5. Kicker Arm Assy ........................................... A 3459
6. Plunger & Link Assy ...................................... AS 2586
7. Link ..................................................... P 7373
8. Plunger .................................................. S 496-190
9. Roll Pin .................................................. P 1637-59
10. Retaining Ring .......................................... P 6316-5
11. Spring, Compression ................................... SP-200-180

AS-2593-1
Same as AS-2593 above, excepting
Core Plug & Coil Assy ................................. AS-2588
Bracket, Coil .............................................. P-108-53
SECURED TO MOUNTING BRACKET

BY MEANS OF

Lockscrew (2) .............................................. LS-832-6-510
Lockwasher, Split (2) .................................. No. 8
Nut (2) ..................................................... N-832-2111
Bracket, Mounting ....................................... P 3658-5
Coil: part number marked on wrapper
Core Plug Assy ............................................ A 613-67
SECURED TO MOUNTING BRACKET

BY MEANS OF

Screw, Phillips,
Parker Kalon,
Swage Form (2) ......................................... No. 8-32 x 3/8 in.

AS-2593-2
Same as AS-2593 above, excepting
Core Plug & Coil Assy ................................. AS-2587-3
Same as AS-2587, above,
under AS-2593, except
Core Plug Assy ............................................ AS-613-101

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

190
ROLLOVERS

Right

WIRE SEE NOTE A

P-6254

M-1336-2

TWO-DIRECTION ROLLOVERS

Left

M-1336-1

P-6254-1

M-1336-3

ONE-DIRECTION ROLLOVERS

Tension of Rollover-Switch blades which contact Actuator should be adjusted to insure that Ball rolls over Actuator freely, without hesitating or stopping.

WIRES

Double-check Playfield Charts, commencing page 124, for exact part numbers of Rollover Wires.

NOTE A

Depending on application, M-1336 or M-1336-10 may be used. Wires may be recognized by dimensional differences indicated in reduced size sketch below. M-1336 and M-1336-10 cannot be used interchangeably.

ROLLOVER BUTTONS

See Playfield Charts, Commencing page 124.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

191
SPINNER ASSY. AS-2699 (FIREBALL)

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

193
INDEX TO ILLUSTRATION, PAGE 193

1. Mat & Disc Assy ..................... AS-2698
   SECURED TO Motor Shaft
   by 2 Set Screws, Slotted,
   Hexagon Head ..................... M-1590

2. Hub & Disc Assy ...................... A-3568

3. Rubber Mat ......................... R-226-16
   SECURED TO Disc
   with rubber cement

4. Motor ............................... E-119-425
   SECURED TO Motor Mounting Bracket
   by 4 Lockscrew ..................... LS-832-6-511
   and 4 Plain Washer ............... PW-8-10

5. Motor Mounting Bracket .......... P-7807

6. Mounting Bracket (2 used) ...... P-7801
   SECURED TO Motor Mounting Bracket
   by 2 Lockscrew ..................... LS-832-4-511
   and 2 Plain Washer ............... PW-8-10

SPINNER ASSY. AS-2699-1 (TWIN WIN)

Same as AS-2699, listed above, excepting
   Mat & Disc Assy .................... AS-2698-1
Same as AS-2698, above, excepting
   Rubber Mat ......................... R-226-14
   Plain Washers are ................. PW-008-12

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
SWIVEL-TYPE FREE-BALL GATES

1. Base Plate .................. P-3691-18
2. Core Plug Assy ................. A-613-67
   SECURED BY
   Lockscrew (2 used) .......... LS-832-5-810
3. Coil .......................... AF-27 1000/32-1300
   SECURED BY
   Lockscrew (2 used) .......... LS-832-5-810
5. Plunger ...................... S-496-167
6. Guide Ring (not visible) ...... C-342
7. Spring, Compression .......... SP-240-2
8. Roll Pin ...................... P-1637-1
9. Lever Arm Assy ............... A-1889-8
10. Set Screw (2 used) ........... M-1369
11. Bearing, Nylon ................ C-649
    SECURED BY
    Screw (3 used) .............. LS-632-5-510
12. Stop Bracket .................. P-6256
    SECURED BY
    Lockscrew (2 used) .......... LS-832-5-810
13. Switch Bracket ............... P-126-559
    SECURED BY
    Screw (2 used) .............. LS-632-3-511
14. Switch .......................... SEE PAGE 196
ORDER SWITCH SCREW BY NAME
With reference to
(a) Free Ball Gate,
(b) Name of game,
(c) Switch
15. Switch Plate (Spring) ........ P-137-5
17. Retaining Ring (2 used) .... P-6316-5

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

195
SWIVEL-TYPE FREE-BALL GATES

SKYROCKET
Free Ball Gate Assy., ....... AS-1587-75
As illustrated, page 195, with
Switch,
  Break-Make ......... ASW-A21
  Make Before Break ... ASW-A12-1

FOUR MILLION B.C.
Ball Separator Assys.
  ABOVE PLAYFIELD .... A-3111-1
     (Not part of Assy, listed below)
  BELOW PLAYFIELD ...... AS-1587-76
As illustrated, page 195, with
Switch ......... ASW-A22

SEA RAY
Free Ball Gate Assy ....... AS-1587-77
As illustrated, page 195, with
  Set Screw ......... M-1590
Switch,
  Make ......... ASW-A1-77
  Make Before Break ... ASW-A12-2

MARINER

FIREBALL
Free Ball Gate Assy ...... AS-1587-75
Same as in SKYROCKET

LITTLE JOE
Free Ball Gate Assy ...... AS-1587-86
As illustrated, page 195, with
Switch,
  Break ......... ASW-A20-17
  Make Before Break ... ASW-A12-1

NIP-IT

AMIGO
Free Ball Gate Assy ...... AS-1587-74
As illustrated, page 195, with
Switch,
  Break ......... ASW-A20-8
  Make ......... ASW-A1-49

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
3-STS FREE-BALL ESCAPE ASSY.

AS-2300-2 in FOUR MILLION B.C.

Similar to Assys, on opposite page
with following parts:
  Arm & Stud Assy. ..................... A-2870-2
  Ball Escapement Plate Assy.       
    Single Prong  .................... A-2871-5
    Double Prong (2 used) .......... A-2871-3
  Escapement Bracket Assy. .......... A-2877-2
  Guide Ring  ......................... C-342
  Link  ................................ P-6442-80
  Nyliner (6 used) ................... C-537-3
  Plunger  ............................ S-496-168
  Retaining Ring (8 used) .......... P-6316-4
  Roll Pin  ........................... P-1637-10
  Spring, Extension ................. SP-100-233
  Washer (2 used) ................... P-801-521
  
  At connection of
  Arm & Stud Assy. with Link

COIL & BRACKET ASSY.
AS-2299
USED WITH ABOVE ASSY.
4-STEPS FREE-BALL ESCAPE ASSYS.

AS-2300 in MAD WORLD
AS-2300-1 in CAPERSVILLE

<table>
<thead>
<tr>
<th>NAME OF COMPONENT</th>
<th>IN AS-2300</th>
<th>IN AS-2300-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm &amp; Stud Assy.</td>
<td>A-2870</td>
<td>A-2870-1</td>
</tr>
<tr>
<td>Ball Escapement Plate Assy. (Bottom)</td>
<td>A-2871-2</td>
<td>A-2871-5</td>
</tr>
<tr>
<td>Ball Escapement Plate Assy. (Center)</td>
<td>A-2871</td>
<td>A-2871-3</td>
</tr>
<tr>
<td>Ball Escapement Plate Assy. (Top)</td>
<td>A-2871-1</td>
<td>Not Used</td>
</tr>
<tr>
<td>Escapement Bracket Assy.</td>
<td>A-2877</td>
<td>A-2877-1</td>
</tr>
<tr>
<td>Link</td>
<td>P-1973-144</td>
<td>P-6442-13</td>
</tr>
</tbody>
</table>

Availability of all parts for AS 2300 and AS 2300-1 is not guaranteed.

COIL BRACKET & MOUNTING ASSY.
A-2880

CORE-PLUG ASSY.
A-613-33

COIL
B-27-1300

LOCKSCREW
LS632-3-510

COIL & BRACKET ASSY.
AS-2299

USED WITH BOTH ABOVE ASSYS.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
PLAYFIELD MISCELLANEOUS PARTS
Also see Playfield Charts, page 124

Ball Control Plate .................. P-363-4
Ball Runway ....................... P-575
Bracket
Bushing
Channel
   See Miscellaneous Parts, below
Clip
Order by reference to
   (a) S-271-SERIES,
   (b) Inside diameter
Fasteners:
   Order nuts, screws, washers by name or description with reference to (a) name of game, (b) part fastener secures.
Guide
   See Miscellaneous Parts, below

Panel Guide,
   Left ......................... P-6647-1
   Right ....................... P-6647-1
Illustrated below in reduced size
Posts: illustrated on next page

Panel Lock (16½ in. long) ............. P-6784-5
Pin
Plate
   See Miscellaneous Parts, Column 1
Plate & Stud Assy.
   TIME ZONE, earlier games* .......... A-2901-5
   NIP-IT, later games* .............. A-2901-9
Similar to reference sketch below

Playfield Panel Support
   See Support, Playfield Panel,
   page 200

CONTINUED ON NEXT PAGE

*See List of Games, pages 1, 2

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

199
PLAYFIELD MISCELLANEOUS PARTS
Also see Playfield Charts, page 124

C-119-21
RED

C-119-25
WHITE

C-119-31
RED

C-119-35
WHITE

Eyelet (brass) . . . . . . . . M-1337-13
Nut . . . . . . . . . . . . N-632-1111
Screw . . . . . . . . . . . . MS-632-30-513
Spring . . . . . . . . . . . . SP-112-3
Washer . . . . . . . . . . . . P-801-86

S-2122

MINI-POST ASSY.
AS-2836

R-206-9

Shields, Light, Red
1/2 in. diameter
15/16 in. high . . . . . . . . C-615-1
1-1/16 in. high . . . . . . . . C-858-1
1-1/2 in. high . . . . . . . . C-858

Soldering Terminal
A Below . . . . . . . . . . . . P-405-2
B Below . . . . . . . . . . . . P-405-31

RAIL POST CAP
C-908

RAIL POST
C-907

ABOVE 2 PARTS
HELD TOGETHER
AND SECURED TO PANEL
BY SCREW
MSSZ-00832-1128

spacer
See Miscellaneous Parts, page 199
Support, Playfield Panel
2 USED, FRONT END OF PANEL
WIZARD, earlier games* . . . . . . . . . . P-1455
HI-DEAL, later games* . . . . . . . . . . P-1455-1

*See List of Games, pages 1, 2

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

200
FUSES, LAMPS, LAMP SOCKETS: AND ELECTRONIC PARTS
FUSES, LAMPS, LAMP SOCKETS AND ELECTRONIC PARTS

Bridge Rectifier ................. E-602-2
200 volts, 30 amperes
Used with Capacitor,
under side of Playfield Panel
to convert current
to Slingshot Kickers
and Thumper Bumpers
from A.C. to D.C.
See sketch below

Capacitor ......................... E-586-58
1 MFD, 200 volts
See note under Bridge Rectifier
and sketch below

Diode ............................... E-587-16
1 ampere at 1000 reverse voltage
Shown straight in sketch below,
normally attached in loop
to terminal of Coil,
Coil & Bracket Assy.,
Thumper Bumper
CAUTION: if replaced,
striped end of Diode
must be in same position
relative to Coil
as original Diode.

Fuse
5 amp. .............................. E-133-5
8 amp. .............................. E-133-8
10 amp. ............................ E-133-10
15 amp. ............................ E-133-15
SLO-BLOW
1-6/10 amp. ....................... E-133-41
1-1/4 amp. ........................ E-133-42

Fuse Block
Illustrated, page 205

Lamp
Flasher ............................ E-125-44
No. 44 .............................. E-125-22
No. 55 .............................. E-125-5

Lamp Socket
Illustrated below

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

204
 WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

E-120-122
E-120-127
E-120-145
E-120-176

FUSE BLOCK E-148

FUSE BLOCK E-148-17

RESISTOR: SEE OVERSIZE VIEWS BELOW

GREY RED RED
E-105-6

ORANGE ORANGE RED SILVER
E-105-147
FRONT CABINET
Front Cabinet, Assembled

Ball Shooter Assys.
SKYROCKET through*  
CHAMP ........................ AS-2378-1  
As illustrated at left  
TWIN WIN  
Automatic Ball Shooter,  
page 164  
SKY KINGS  
Same as in SKYROCKET, above  
AMIGO through*  
KNOCKOUT .................... AS-2378-3  
Same as AS-2378-1, above, except  
Guide Assy. .................. A-1540-4  
Nylon (added) ............. C-537-22  
WIZARD, later games* ........ AS-2378-4  
Same as AS-2378-3, above, except  
Knob & Rod Assy. .......... A-100-7  
Washer (added) .......... P-801-507

BALL-SHOOTER PLATE P-1973-291  
(Inside of Cabinet)

Bracket  
Bushing  
Above types of parts  
may be ordered by name  
with reference to  
(A) Name of game,  
(B) Specific function of part

Clip  
Order by reference to C-271-series,  
Inside diameter  
Clip, Nylon Tension ................. C-760

*See List of Games, pages 1, 2

CONTINUED ON NEXT PAGE

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

208


**FRONT CABINET**

*Front Cabinet, Assembled*

**FASTENERS**
Order fasteners (nuts, screws, washers, etc.)
by name or description with reference to (a)
part which fastener secures, (b) name of game

**Front Door Trim**
**SKYROCKET through* MARINER**
Left ........................................... P-5940-20
Right .......................................... P-5940-19
Top or Bottom ................................ P-5940-21

**FIREBALL, later games***
Left ........................................... P-5940-29
Right .......................................... P-5940-31
Top or Bottom ................................ P-5940-30

**GLASS FRAME, PARTS RELATED TO**
**Front Rail Lock Assy.**
**SKYROCKET through* TWIN WIN.** AS-2313-5
Bushings,
Longer (3 used) ......................... S-231-672
Shorter (1 used) ......................... S-231-695
Elastic Stop Nut (4 used) ............ M-319-3
Front Rail Bracket ..................... P-6364-2
Front Rail Latch ......................... P-6365-1
Spring Washer ............................. P-1158-5
Washers,
Thicker (1/16 in.) (4 used) ............ P-801-107
Thinner (1/32 in.) (4 used) ............. P-801-514

**SKY KINGS, later games*** AS-2313-7
Same as AS-2313-5, above, except
Front Rail Bracket ..................... P-6364-6
Front Rail Latch ......................... P-6365-3

Glass Frame Assy.
**SKYROCKET through* TIME ZONE** AS-2442
Channel
19-3/4 in. long (2 used) .............. M-1450
40-1/4 in. long (2 used) .............. M-1450-1
Glass .......................................... P-337
Glass Frame Bracket ................... P-7071
Moulding Assys.
Front
Inside ...................................... A-2737-8
Outside (Top) .............................. A-3080
Side,
Left ......................................... A-3152-1
Right ......................................... A-3152
Plug Bumper (2 used) .................. R-231-12

**GLASS FRAME, PARTS RELATED TO**
**CONTINUED FROM COLUMN 1**
**NIP-IT** .................................... AS-2442-2
Same as AS-2442, column one, except
Moulding Assy.,
Side, Right ............................... A-3152-2

**HI-LO ACE through* TWIN WIN**
Same as in SKYROCKET, column one

**SKY KINGS, later games*** (NO ASSY. NO.)
Channel (2 used) ......................... M-1624-7
Glass .......................................... G-409
Mouldings
Front Moulding ......................... AS-2791
Front Moulding Assy. ................. A-3080-14
Side
Left (through WIZARD*) .............. P-921-73
Right (through WIZARD*) .............. P-921-72
Left (HI-DEAL, later games*) ........ P-921-75
Right (HI-DEAL, later games*) ....... P-921-74
Glass Trim, Back ....................... P-565
Insulator ................................. M-1759
Lock Channel, Back .................... P-566
Latch Lever ............................... P-6363
See illustration below

![Diagram](image)

**P-6363**
**ILLUSTRATED**
**IN REDUCED SIZE**

*See List of Games, pages 1, 2*
FRONT CABINET
Front Cabinet, Assembled

GLASS FRAME, PARTS RELATED TO
(CONTINUED FROM PAGE 209)
Pivot Pin (Glass Frame Support)
SKYROCKET through* TWIN WIN . . . S-468-21
SKY KINGS, later games* .............. NOT USED

Ratchet Stud
SKYROCKET through* TWIN WIN
Used with Shields ................... M-330-8
SKY KINGS, later games*
Used with Side Mouldings ............ M-330-8

Shield, Glass Frame
SKYROCKET through* TWIN WIN
Left .................................... P-7061
Right (illustrated below) ........... P-7061-1
SKY KINGS, later games* .......... NOT USED

MISCELLANEOUS PARTS

Corner Bracket
SKYROCKET through* TWIN WIN . . . P-6362-3
SKY KINGS, later games* .............. NOT USED

Leg Bolt Armor ......................... P-3914

Lock Cam Bracket
SKYROCKET through* EL TORO . . . P-4423-2
LITTLE JOE, later games* ............. P-4000-2

Lock Plate (Coin Box) ................. P-3045-2
Panel Guide Lock
Illustrated directly below
SKYROCKET through* TWIN WIN . . . P-6646-2
SKY KINGS, later games* .......... NOT USED

Illustrated in reduced size

Panel Guide Lock Assy.
SKYROCKET through* TWIN WIN
Left ..................................... A-3017-1
Right (illustrated below) .......... A-3017
SKY KINGS, later games* .......... NOT USED

Illustrated in reduced size

CONTINUED
ON NEXT PAGE

*See List of Games, pages 1, 2.

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

210
FRONT CABINET

Front Cabinet, Assembled

MISCELLANEOUS PARTS
(CONTINUED FROM PAGE 210)
Pin
Plate
Rubber Parts
Stud
Above types of parts
may be ordered by description
with reference to
(A) Name of game,
(B) Exact function of part

Trim, Front Door
See Front Door Trim, page 209

Front Cabinet, Unassembled

Ball
Play, 1-1/16 in. ...................... M-168-26
Tilt
SKYROCKET through* SEA RAY
1-1/16 in. ............................ M-168-26
MARINER, later games*
15/16 in. ............................ M-168-50

Coin Box Components
SKYROCKET through* MARINER
Coin Box ............................ A-2790-30
Coin Box Cover ..................... P-3089-38
Coin Box Divider .................. P-6074-82
FIREBALL, later games*
Coin Box ............................ A-2790-51
Coin Box Cover .............. P-3089-46
Coin Tray
2-11/16 in. wide ................. M-1579
3-7/8 in. wide .................. M-1579-1
6-7/8 in. wide .................. M-1579-2

Leg
SKYROCKET through* TWIN WIN .................. P-4052-5
SKY KINGS, later games* .................. P-4052-8
Leg Adjuster .......................... M-163-4
Leg Bolt ............................ M-106-1

ALSO SEE PAGES 11-14
ALSO SEE
ANTI-TILT COMPONENTS
PAGES 116-119
CIRCUIT CONTROL COMPONENTS,
PAGES 22-109
COIN HANDLING COMPONENTS,
PAGES 4-21
FUSES, ETC., PAGES 202-206

Clip
Order by reference to
(A) C-271-series,
(B) Inside diameter

Door
SKYROCKET through* MARINER
Door (word only)
Single Chute .................. CA-567-166
Double Chute .................. CA-567-167
Triple Chute .................. CA-567-168
Door Cover
Single Chute .................. P-5946-20
Double Chute .................. P-5946-21
Triple Chute .................. P-5946-17
FIREBALL, later games*
Door Assy. .................. A-3444
Door Back Plate .............. P-7592

FASTENERS
Order nuts, screws, washers
by name or description
with reference to
(A) Name of game,
(B) Part fastener secures

Hinge Assy. (Door)
SKYROCKET through* MARINER ........ A-274-79
MARINER, later games* ........ A-274-112
Lock and Keys .................. M-281-22
Lock Cam .................. P-4005-1

CONTINUED
ON NEXT PAGE

*See List of Games, pages 1, 2

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME
FRONT CABINET

Front Door

(CONTINUED FROM PAGE 211)

Lock Mounting
SKYROCKET through* MARINER
  Lock Plate .......................... P-3473-2
FIREBALL, later games*
  Lock Spacer .......................... P-6264-86

Plate
Spacer
Above types of parts
may be ordered by name
with reference to
  (A) Name of game,
  (B) Exact function of part

Mounting Board

ALSO SEE
ANTI-TILT COMPONENTS,
  PAGES 116-119
CIRCUIT CONTROL COMPONENTS,
  PAGES 22-109
COIN HANDLING COMPONENTS
  PAGES 4-21
COUNTING COMPONENTS
  PAGES 110-115
FUSES, ETC., PAGES 202-206
SOUND COMPONENTS,
  PAGES 120-123

Bracket
Clamp
See MISCELLANEOUS PARTS below

Clip
Order by reference to
  (A) C-271-series,
  (B) Inside diameter

Connector
See MISCELLANEOUS PARTS below

MISCELLANEOUS PARTS
Following types of parts
may be ordered by reference to
  (A) Name of game
  (B) Exact function of part
  Bracket
  Clamp
  Connector
  Spacer
  Terminal

Spacer
Terminal
See MISCELLANEOUS PARTS above

Toggle Switch .......................... E-108-28

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

212
BACK CROWET

ALSO SEE,
CIRCUIT CONTROL COMPONENTS,
PAGES 22 - 109
COUNTING COMPONENTS,
PAGES 110 - 115
SOUND COMPONENTS,
PAGES 120 - 123

BACK DOOR
Multiple Player Games
SKY ROCKET ........... P-6230-8
FOUR MILLION B.C.
through* TWIN WIN . . . . P-6230-9
AMIGO, later games* .... P-6230-10
Single Player Games
EXPRESSWAY
through* HI-LO ACE . . . P-6230-8
SKY KINGS, later games* . P-6230-11

BACK DOOR RETAINING BRACKET
Multiple Player Games
SKY ROCKET ........... P-6629-27
FOUR MILLION B.C.
through* TWIN WIN . . . . P6629-26
AMIGO, later games* .... P-6629-98
Single Player Games
EXPRESSWAY
through* HI-LO ACE . . . P-6629-27
SKY KINGS, later games* . P-6629-101

BACKGLASS
Order by name of game

BACKGLASS CHANNEL
Multiple and Single Player Games
SIDES
SPACE TIME
through* TWIN WIN ... M-1624-3
SKY KINGS, later games* M-1624-5
Multiple Player Games
TOP
SPACE TIME
through* TWIN WIN . . .. M-1624-2
AMIGO, later games* . . .. M-1624-4
Single Player Games
TOP
ODDS & EVENS,
HI-LO ACE ......... M-1624-1
SKY KINGS, later games* M-1624-6

BACKGLASS RETAINER
Multiple Player Games
GALAHAD
through* FIRECRACKER
BOTTOM ............ P-6242-3
SIDES ............ P-6242-19
TOP ............ P-6242-4
SKY ROCKET
BOTTOM ............ P-6242-6
SIDES ............ P-6242-19
TOP ............ P-6242-7
FOUR MILLION B.C.
through* LITTLE JOE
BOTTOM ............ P-6242-3
SIDES ............ P-6242-19
TOP ............ P-6242-4
SPACE TIME
through* TWIN WIN
BOTTOM** ........... P-6242-3
AMIGO, later games*
BOTTOM** ........... P-6242-71
Single Player Games
EXPRESSWAY
through* EL TORO
BOTTOM ............ P-6242-6
SIDES ............ P-6242-19
TOP ............ P-6242-7
ODDS & EVENS,
HI-LO ACE
BOTTOM** ........... P-6242-6
SKY KINGS, later games*
BOTTOM** ........... P-6242-72
**See BACKGLASS CHANNEL,
column 1, this page.

BACKGLASS RETAINER LATCH
SKY ROCKET
through* TWIN WIN . . . . P-6243-7
SKY KINGS, later games* . P-6243-9

BACK-UP BRACKET
SKY ROCKET
through* SEA RAY ........ P-6816-1
MARINER ............. P-6816-2
FIREFALL ............. P-6816-1
EL TORO, later games* . P-6816-2

FASTENERS
Order nuts, screws, washer
by name or description
with reference to
(A) Name of game,
(B) Part fastener secures

INSERT RETAINING BRACKET . P-6629-25
INSERT SUPPORT BRACKET . P-6665-283
LOCK (KEYS) .......... M-281-22
LOCK CAM .............. P-758-24
LOCK PLATE ............ P-2892
RUBBER STRIP .......... R-221-23

WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

216