



**1979-1
PARTS CATALOG
ELECTRONIC PINBALL GAMES
PLAYBOY • SUPERSONIC • STAR TREK
KISS • PARAGON**

BALLY MANUFACTURING CORP. 2640 BELMONT AVE. CHICAGO, ILLINOIS 60618

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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
 (E) INDICATES ELECTRONIC
 (S) INDICATES SUPER SIZE

Listed Chronologically

NO. NAME	DATE
1 MOON-SHOT (1)	February, 1963
2 CROSS COUNTRY (1)	March, 1963
3 CUE-TEASE (2)	July, 1963
4 3-IN LINE (4)	July, 1963
5 HOOTENANNY (1)	November, 1963
6 STAR-JET (2)	December, 1963
7 MONTE CARLO (1)	February, 1964
8 BONGO (2)	March, 1964
9 SKY DIVERS (1)	April, 1964
10 MAD WORLD (2)	May, 1964
11 GRAND TOUR (1)	June, 1964
12 HAPPY TOUR (1) (A)	June, 1964
13 2 IN 1 (2)	July, 1964
14 BIG DAY (4)	August, 1964
15 HARVEST (1)	October, 1964
16 HAYRIDE (1) (A)	October, 1964
17 BUS STOP (2)	December, 1964
18 BULLFIGHT (1)	January, 1965
19 SHEBA (2)	February, 1965
20 BANDWAGON (4)	March, 1965
21 MAGIC CIRCLE (1)	June, 1965
22 50/50 (2)	July, 1965
23 ACES HIGH (4)	August, 1965
24 DISCOTEK (2)	September, 1965
25 TRIO (1)	November, 1965
26 TRIO (1) (A)	November, 1965
27 BLUE RIBBON (4)	December, 1965
28 WILD WHEELS (2)	February, 1966
29 SIX STICKS (6)	March, 1966
30 GOLD RUSH (1)	April, 1966
31 GOLD RUSH (1) (A)	April, 1966
32 CAMPUS QUEEN (4)	August, 1966
33 LOOP THE LOOP (2)	September, 1966
34 LOOP THE LOOP (2) (A)	September, 1966
35 BAZAAR (1)	October, 1966
36 BAZAAR (1) (A)	October, 1966
37 CAPERSVILLE (4)	December, 1966
38 ROCKET III (1)	April, 1967
39 THE WIGGLER (4)	August, 1967
40 SURFERS (1)	December, 1967
41 DOGIES (4)	January, 1968
42 DIXIELAND (1)	April, 1968
43 SAFARI (2)	May, 1968
44 ROCK MAKERS (4)	August, 1968
45 MINI-ZAG (1)	November, 1968
46 COSMOS (4)	January, 1969
47 OP-POP-POP (1)	April, 1969
48 GATOR (4)	June, 1969
49 ON BEAM (1)	August, 1969
50 JOUST (2)	September, 1969
51 BALLYHOO (4)	October, 1969
52 KING TUT (1)	December, 1969
53 KING REX (1) (A)	January, 1970
54 GALAHAD (2)	January, 1970
55 CAMELOT (4)	February, 1970
56 BOWL-O (1)	April, 1970
57 BIG VALLEY (4)	May, 1970
58 ZIP-A-DOO (2)	August, 1970
59 TRAIL DRIVE (1)	September, 1970
60 SEE-SAW (4)	November, 1970
61 4 QUEENS (1)	December, 1970

Listed Alphabetically

NAME	NO. IN LIST AT LEFT
ACES HIGH (4)	23
AIR ACES (4)	89
ALADDIN'S CASTLE (2)	98
ALLIGATOR: See GATOR	
AMIGO (4)	83
BALLYHOO (4)	51
BANDWAGON (4)	20
BAZAAR (1)	35
BAZAAR (1) (A)	36
BIG DAY (4)	14
BIG SHOW (2)	79
BIG VALLEY (4)	57
BLACK JACK (4)	106
BLACK JACK (4) (E)	113
BLUE RIBBON (4)	27
BONGO (2)	8
BON VOYAGE (1)	86
BOOMERANG (4)	87
BOW AND ARROW (4)	93
BOWL-O (1)	56
BULLFIGHT (1)	18
BUS STOP (2)	17
CAMELOT (4)	55
CAMPUS QUEEN (4)	32
CAPERSVILLE (4)	37
CAPT. FANTASTIC (4)	97
CHAMP (4)	80
CIRCUS (4)	78
COSMINT: See COSMOS	
COSMOS (4)	46
CROSS COUNTRY (1)	2
CUE-TEASE (2)	3
DELTA QUEEN (1)	84
DISCOTEK (2)	24
DIXIELAND (1)	42
DOGIES (4)	41
EIGHT BALL (4) (E)	110
EL TORO (1)	70
EVEL Knievel (4)	104
EVEL Knievel (4) (E)	109
EXPRESSWAY (1)	66
50/50 (2)	22
FIREBALL (4)	69
FIREFRACKER (4)	63
FLICKER (2)	88
FLIP FLOP (4)	94
FOUR MILLION B.C. (4)	65
4 QUEENS (1)	61
FREEDOM (4)	99
FREEDOM (4) (E)	103
GALAHAD (2)	54
GATOR (4)	48
GOLD RUSH (1)	30
GOLD RUSH (1) (A)	31
GRAND TOUR (1)	11
HANG GLIDER (4)	102
HAPPY TOUR (1) (A)	12
HARVEST (1)	15
HAY-RIDE (1) (A)	16
HI-DEAL (1)	92
HI-LO ACE (1)	77
HOKUS POKUS (2)	95

BALLY FLIPPER TYPE PINBALL GAMES

NUMBER IN PARENTHESIS INDICATES NUMBER OF PLAYERS
 (A) INDICATES ADD-A-BALL MODEL OF PRECEDING GAME
 (E) INDICATES ELECTRONIC
 (S) INDICATES SUPER SIZE

Listed Chronologically

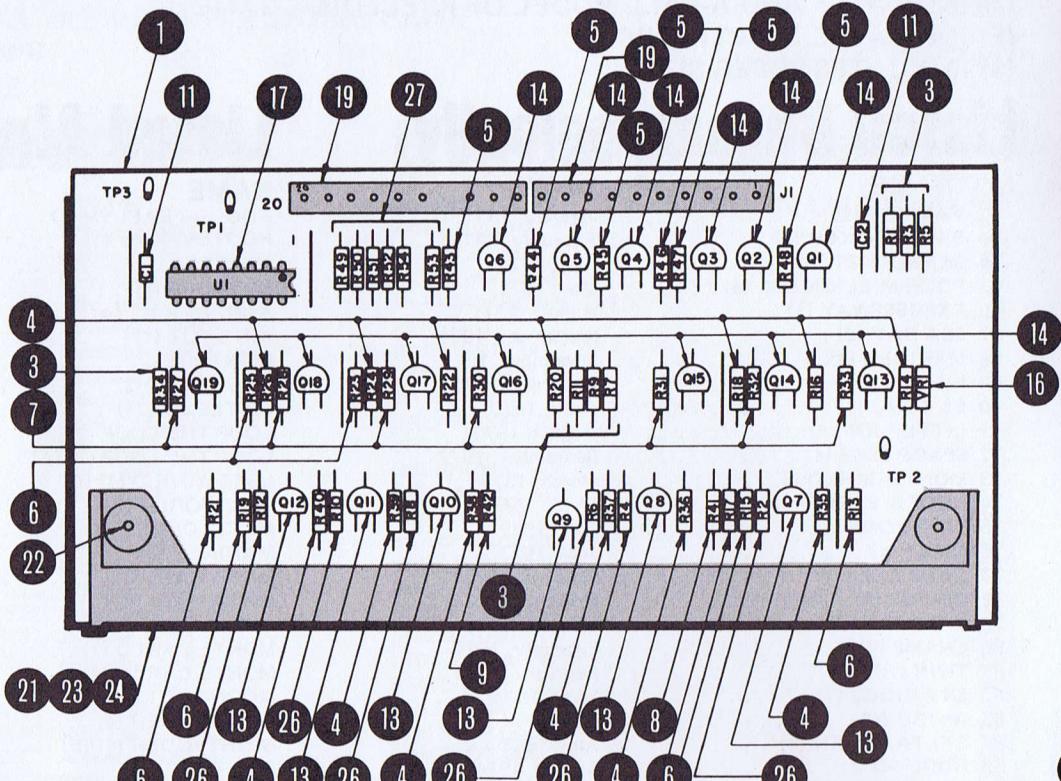
NO. NAME	DATE
62 VAMPIRE (2)	January, 1971
63 FIRECRACKER (4)	February, 1971
64 SKYROCKET (2)	May, 1971
65 FOUR MILLION B.C. (4)	May, 1971
66 EXPRESSWAY (1)	August, 1971
67 SEA RAY (2)	September, 1971
68 MARINER (4)	November, 1971
69 FIREBALL (4)	February, 1972
70 EL TORO (1)	April, 1972
71 LITTLE JOE (4)	August, 1972
72 SPACE TIME (4)	September, 1972
73 MONTE CARLO (4)	March, 1973
74 ODDS & EVENS (1)	March, 1973
75 TIME ZONE (2)	May, 1973
76 NIP-IT (4)	July, 1973
77 HI-LO ACE (1)	October, 1973
78 CIRCUS (4)	November, 1973
79 BIG SHOW (2)	January, 1974
80 CHAMP (4)	February, 1974
81 TWIN WIN (2)	February, 1974
82 SKY KINGS (1)	April, 1974
83 AMIGO (4)	May, 1974
84 DELTA QUEEN (1)	July, 1974
85 ROGO (4)	August, 1974
86 BON VOYAGE (1)	November, 1974
87 BOOMERANG (4)	December, 1974
88 FLICKER (2)	January, 1975
89 AIR ACES (4)	February, 1975
90 KNOCKOUT (2)	April, 1975
91 WIZARD (4)	May, 1975
92 HI-DEAL (1)	October, 1975
93 BOW AND ARROW (4)	November, 1975
94 FLIP FLOP (4)	January, 1976
95 HOKUS POKUS (2)	March, 1976
96 OLD CHICAGO (4)	April, 1976
97 CAPT. FANTASTIC (4)	June, 1976
98 ALADDIN'S CASTLE (2)	June, 1976
99 FREEDOM (4)	July, 1976
100 QUARTERBACK (2)	September, 1976
101 NIGHT RIDER (4)	November, 1976
102 HANG GLIDER (4)	December, 1976
103 FREEDOM (4) (E)	December, 1976
104 EVEL Knievel (4)	January, 1977
105 NIGHT RIDER (4) (E)	February, 1977
106 BLACK JACK (4)	April, 1977
107 MATA HARI (4)	May, 1977
108 KICK OFF (4)	June, 1977
109 EVEL Knievel (4) (E)	June, 1977
110 EIGHT BALL (4) (E)	September, 1977
111 POWER PLAY (4) (E)	January, 1978
112 MATA HARI (4) (E)	April, 1978
113 BLACK JACK (4) (E)	June, 1978
114 STRIKES AND SPARES (4) (E)	June, 1978
115 LOST WORLD (4) (E)	August, 1978
116 SIX MILLION DOLLAR MAN (6) (E)	October, 1978
117 PLAYBOY (4) (E)	December, 1978
118 SUPERSONIC (4) (E)	March, 1979
119 STAR TREK (4) (E)	April, 1979
120 KISS (4) (E)	June, 1979
121 PARAGON (4) (E) (S)	June, 1979

Listed Alphabetically

NAME	NO. IN LIST AT LEFT
HOO: See BALLYHOO	5
HOOTENANNY (1)	50
JOUST (2)	108
KICK OFF (4)	53
KING REX (1) (A)	52
KING TUT (1)	120
KISS (4) (E)	90
KNOCKOUT (2)	71
LITTLE JOE (4)	33
LOOP THE LOOP (2)	34
LOOP THE LOOP (2) (A)	115
LOST WORLD (4) (E)	10
MAD WORLD (2)	21
MAGIC CIRCLE (1)	68
MARINER (4)	107
MATA HARI (4)	112
MATA HARI (4) (E)	45
MINI-ZAG (1)	7
MONTE CARLO (1)	73
MONTE CARLO (4)	1
NIGHT RIDER (4)	101
NIGHT RIDER (4) (E)	105
NIP-IT (4)	76
ODDS & EVENS (1)	74
OLD CHICAGO (4)	96
ON BEAM (1)	49
OP-POP-POP (1)	47
PARAGON (4) (E) (S)	121
PLAYBOY (4) (E)	117
POWER PLAY (4) (E)	111
QUARTERBACK (2)	100
ROCKET III (1)	38
ROCK MAKERS (4)	44
ROGO (4)	85
SAFARI (2)	43
SEA RAY (2)	67
SEE-SAW (4)	60
SHEBA (2)	19
SIX MILLION DOLLAR MAN (6) (E)	116
SIX STICKS (6)	29
SKY DIVERS (1)	9
SKY KINGS (1)	82
SKYROCKET (2)	64
SPACE TIME (4)	72
STAR-JET (2)	6
STAR TREK (4) (E)	119
SUPERSONIC (4) (E)	118
SURFERS (1)	40
THE WIGGLER (4)	39
TIME ZONE (2)	75
TRAIL DRIVE (1)	59
TRIO (1)	25
TRIO (1) (A)	26
TWIN WIN (2)	81
VAMPIRE (2)	62
WILD WHEELS (2)	28
WIGGLER: See THE WIGGLER	91
WIZARD (4)	58
ZIP-A-DOO (2)	13
3-IN-LINE (4)	4

A1 AS-2518-21 DISPLAY DRIVER MODULE

- BLACK JACK
- EIGHT BALL
- EVEL KNIEVEL
- FREEDOM
- KISS
- LOST WORLD
- MATA HARI
- NIGHT RIDER
- PARAGON
- PLAYBOY
- POWER PLAY
- SIX MILLION DOLLAR MAN
- STAR TREK
- STRIKES & SPARES
- SUPERSONIC



COMPONENT PARTS LIST

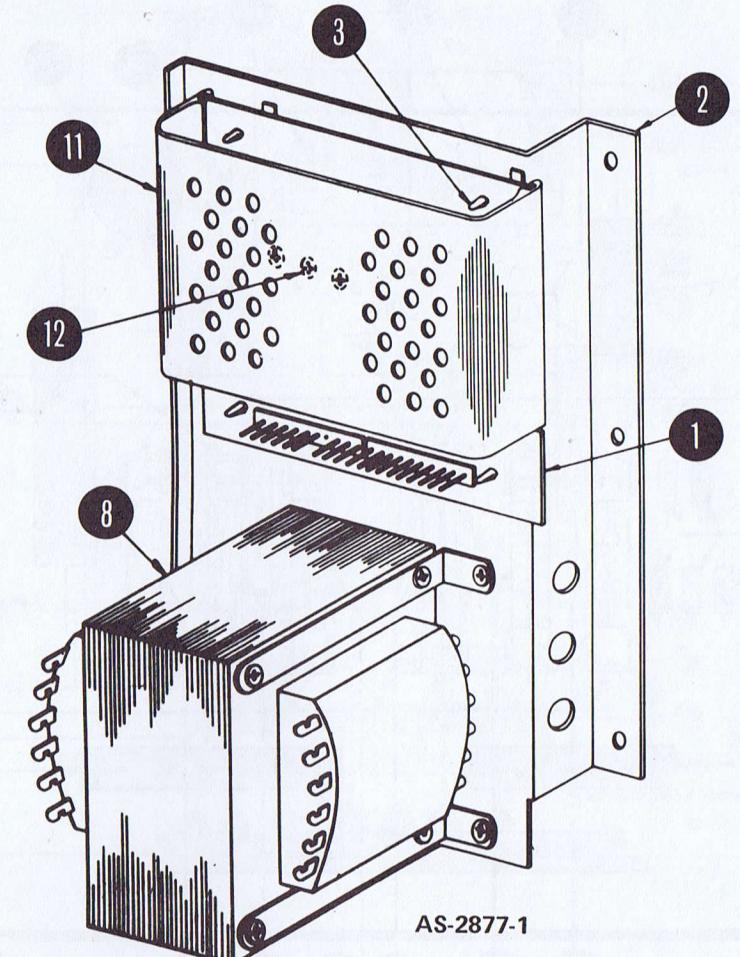
ITEM	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
1		P-2948-296	P.C. Board, M-645-392
3	R1, R3, R5, R7, R9, R11, R34	E-105-226	Resistor, 100K
4	R14, R16, R18, R20, R22, R24, R26, R35, R36, R37, R38, R39, R40	E-105-227	Resistor, 300K
5	R43, R44, R45, R46, R47, R48	E-105-228	Resistor, 9.1K
6	R13, R15, R17, R19, R21, R23, R25	E-105-229	Resistor, 1.5K
7	R27, R28, R29, R30, R31, R32, R33	E-105-230	Resistor, 1K
8	R41	E-105-231	Resistor, 39K
9	R42	E-105-271	Resistor, 240K
10			
11	C1, C2	E-586-65	Capacitor, .01 MFD
13	Q7, Q8, Q9, Q10, Q11, Q12	E-585-32	Transistor (2N5401)
14	Q1, Q2, Q3, Q4, Q5, Q6, Q13, Q14, Q15, Q16, Q17, Q18, Q19	E-585-33	Transistor (MPS-A42)
16	VR1	E-598-7	Zener Diode, 110V
17	U1	E-620-38	I.C. Decoder
18			
19	J1	E-715-34	10 Pin Wafer Pin Connector
21	DS1	E-680	Digital Display Panel
22		M-1836	Hi-Lo Screw, W/H
23		P-2399	Display Mounting (Top)
24		P-2399-1	Display Mounting (Bottom)
26	R2, R4, R6, R8, R10, R12	E-105-287	Resistor, 2.2K
27	R49, R50, R51, R52, R53, R54	E-105-242	Resistor, 20K
28			Wire Jumper

NOTE: INTERCHANGEABLE WITH AS-2518-15

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

AS-2877-1& AS-2877-3 POWER TRANSFORMER MODULE A2

- BLACK JACK
- EIGHT BALL
- EVEL KNIEVEL
- FREEDOM
- KISS
- LOST WORLD
- MATA HARI
- NIGHT RIDER
- PARAGON
- PLAYBOY
- POWER PLAY
- SIX MILLION DOLLAR MAN
- STAR TREK
- STRIKES & SPARES
- SUPERSONIC



COMPONENT PARTS LIST

ITEM	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
2	A2	AS-2877-1	Power Transformer Module, Complete
1		AS-2518-18	Rectifier Board Assembly
3		M-1829-2	Circuit Board Support (4 Req'd.)
8		E-00122-0125	Transformer 120/240V, 50/60 Hz
11		P-2692	P.C.B. Cover
12		M-1834	Heat Sink Compound

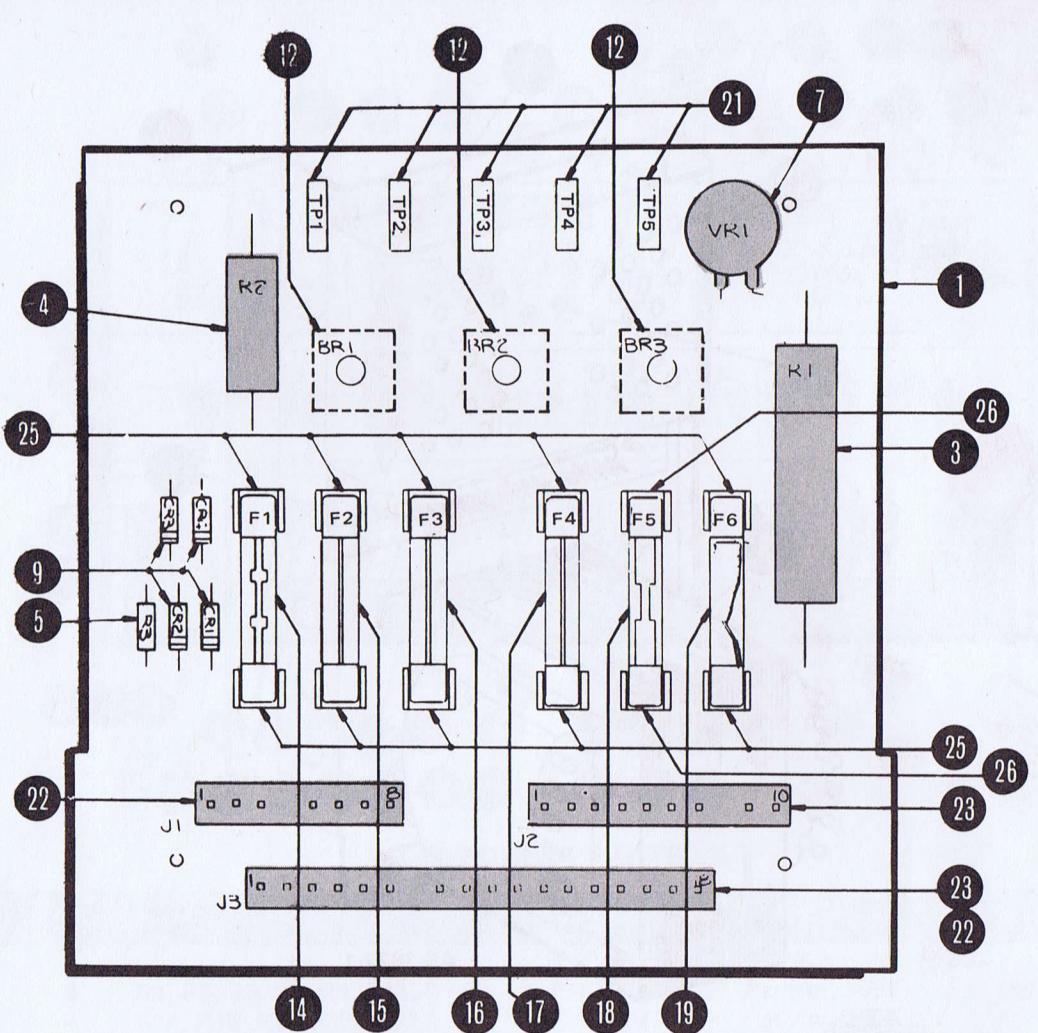
COMPONENT PARTS LIST FOR KISS ONLY

ITEM	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
2	A2	AS-2877-3	Power Transformer Module, Complete
1		AS-2518-49	Rectifier Board Assembly
3		M-1829-2a	Circuit Board Support (4 Req'd.)
8		E-00122-0131C	Transformer 120/240V, 50/60 Hz
11		P-2692-1b	P.C.B. Cover
12		M-1834	Heat Sink Compound

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

A2 AS-2518-18 RECTIFIER BOARD ASSEMBLY

- BLACK JACK
- EIGHT BALL
- EVEL KNIEVEL
- FREEDOM
- LOST WORLD
- MATA HARI
- NIGHT RIDER
- PARAGON
- PLAYBOY
- POWER PLAY
- SIX MILLION DOLLAR MAN
- STAR TREK
- STRIKES & SPARES
- SUPERSONIC



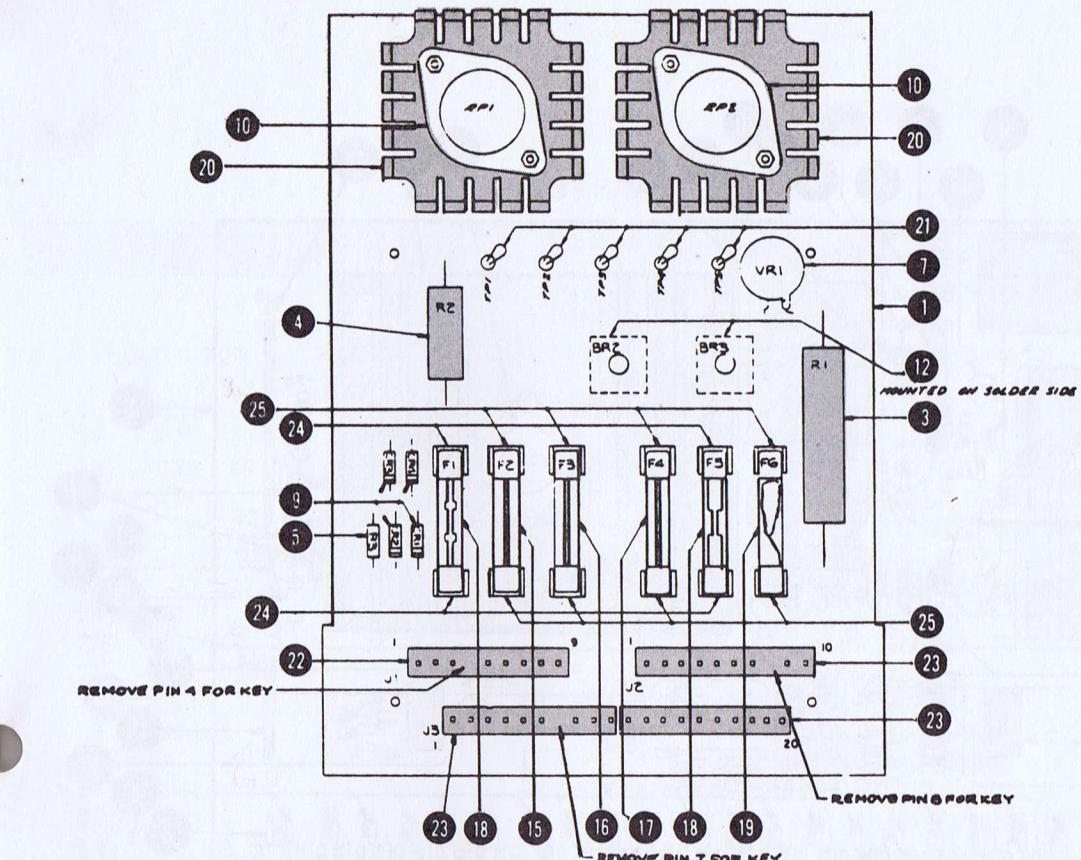
COMPONENT PARTS LIST

ITEM	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
1	P/O A2	AS-2518-18	Rectifier Board Assembly, Complete
3	R1	E-00104-0092	Resistor, 10%, 600 Ohm, 10W
4	R2	E-00104-0091	Resistor, 25 Ohm, 5W
5	R3	E-00105-0226	Resistor, 5%, 100K Ohm, 1/4W
7	VR1	E-00623	Varistor
9	CR1, CR2, CR3, CR4	E-00587-0006	Diode (IN4004)
12	BR1, BR2, BR3	E-00602-0003	Bridge Rectifier (VJ248 VARO)
14	F1	E-00133-0010	Fuse, 10A, 32V, 3AG
15	F2	E-00133-0028	Fuse, 3/4A, 250V, 3AG, S.B.
16	F3	E-00133-0004	Fuse, 4A, 32V, 3AG
17	F4	E-00133-0005	Fuse, 5A, 32V, 3AG
18	F5	E-00133-0027	Fuse, 20A, 32V, 3AG
19	F6	E-00133-0024	Fuse, 3A, 3AG, S.B.
21		E-00684	Test Point
22	J1, J3	E-00715-0010	8 Pin Wafer Connector
23	J2, J3	E-00715-0011	10 Pin Wafer Connector
25		E-00148-0021	Fuse Clips
26		E-00148-0022	Fuse Clips

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

AS-2518-49 RECTIFIER BOARD ASSEMBLY A2

- KISS

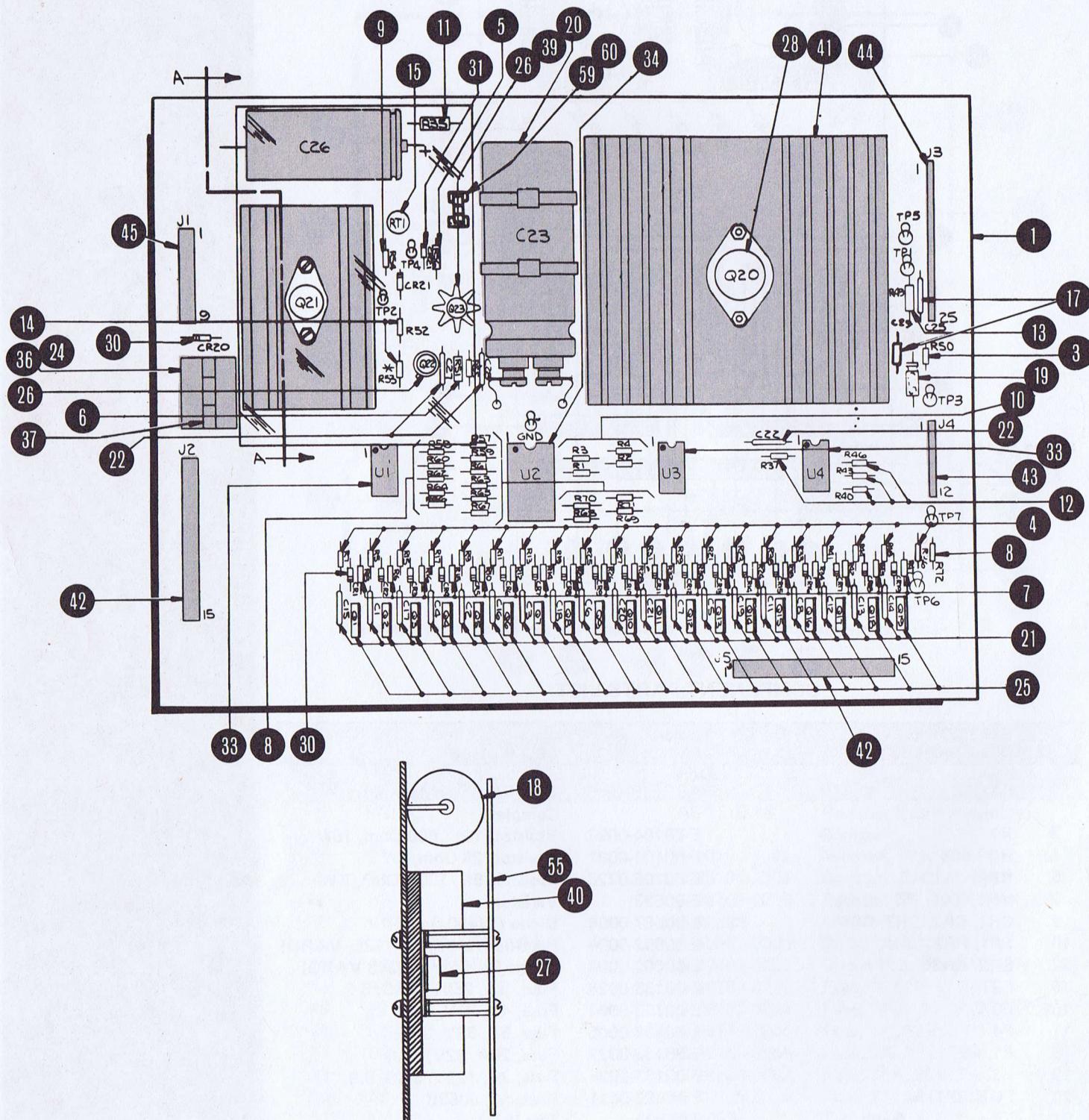


COMPONENT PARTS LIST

ITEM	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
1	P/O A2	AS-2518-49	Rectifier Board Assembly, Complete
3	R1	E-00104-0092	Resistor, 10%, 600 Ohm, 10W
4	R2	E-00104-0091	Resistor, 25 Ohm, 5W
5	R3	E-00105-0226	Resistor, 5%, 100K Ohm, 1/4W
7	VR1	E-00623	Varistor
9	CR1, CR2, CR3, CR4	E-00587-0006	Diode (IN4004)
10	RP1, RP2	E-00602-0004	Rectifier Package (R712E, VARO)
12	BR2, BR3	E-00602-0003	Bridge Rectifier (VJ248 VARO)
15	F2	E-00133-0028	Fuse, 3/4A, 250V, 3AG, S.B.
16	F3	E-00133-0004	Fuse, 4A, 32V, 3AG
17	F4	E-00133-0005	Fuse, 5A, 32V, 3AG
18	F1, F5	E-00133-0027	Fuse, 20A, 32V, 3AG
19	F6	E-00133-0024	Fuse, 3A, 125V, 3AG, S.B.
20	FOR RP1, RP2	E-00682-0011	Heatsink, 6053B
21	TP 1, 2, 3, 4, 5	P-05399	Test Point
22	J1	E-00715-0033	9 Pin Wafer Connector
23	J2, J3	E-00715-0034	10 Pin Wafer Connector
24	F1, F5	E-00148-0022	Fuse Clips
25	F2, 3, 4, 6	E-00148-0021	Fuse Clips

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

AS-2518-22 SOLENOID DRIVER/ VOLTAGE REGULATOR MODULE A3



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

COMPONENT PARTS LIST

ITEM	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
1	A3	AS-2518-22	Solenoid Driver/Voltage Regulator Module, Complete Resistor, See Schematic for Value.
3-14	Resistors		Pot (Linear) 25K
15	RT1	E-00599-0014	Capacitor, IMFD 20V
17	C25	E-00586-0014	Capacitor, 160 MFD, 250V
18	C25, C29	E-00586-0059	Capacitor, 2 MFD @ 25V
19	C24	E-00586-0063	Capacitor, 11700 MFD, 20V
20	C23	E-00586-0062	Capacitor, .002 MFD, 1kv
21	C1-C8, C11-C21	E-00586-0064	Capacitor, .01 MFD, 500V
22	C22, C27, C28	E-00586-0065	Relay, Printed Circuit
24	K1	E-00146-0795	Transistor, SE9302, SK3182/243
25	Q1, Q19	E-00585-0034	Transistor, 2N3440
26	Q22, Q23	E-00585-0041	Transistor, 2N3584
27	Q21	E-00585-0042	+5V Regulator, LAS1405 or 78H05KC or LM323K
28	Q20	E-00710	Diode (IN4004)
30	CR1-CR21	E-00587-0015	Diode, Zener 140V, IN5275A
31	VR1	E-00598-0010	I.C. Transistor Array, CA3081
33	U1, U3, U4	E-00681	I.C. Binary to 1/16 Decoder, 74L154
34	U2	E-00620-0039	Relay Socket
36		E-00592-0002*	Relay Holder
37		M-1839*	Heat Sink, TO5
39		E-00682	Heat Sink, TO66
40		E-00682-0001	Heat Sink, TO3 Case
41		E-00682-0002	15 Pin Wafer Connector
42		E-00715-0013	12 Pin Wafer Connector
43		E-00715-0016	25 Pin Wafer Connector
44		E-00715-0020	9 Pin Wafer Connector
45		E-00715-0021	Shield-Plexiglass
55		M-1837	Fuse Clips
59		E-00148-0021	Fuse 8 AG-3/16 Amp.
60	F1	E-00133-0029	

* USED WITH ITEM 24, E-00146-0791, PLUG IN RELAY ONLY

- BLACK JACK
- EIGHT BALL
- EVEL KNIEVEL
- FREEDOM
- KISS
- LOST WORLD
- MATA HARI
- NIGHT RIDER
- PARAGON
- PLAYBOY
- POWER PLAY
- SIX MILLION DOLLAR MAN
- STAR TREK
- STRIKES & SPARES
- SUPERSONIC

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

AS-2518-XX MPU MODULE A4

COMPONENT PARTS LIST

ITEM	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
1	A4 (see note 1)	AS-2962-2	MPU Module Complete. Six Million Dollar Man.
2	A4 (see note 2)	AS-2518-35	MPU Module less Program Memory, U1-U6 incl.
3-32	See Schematic		Resistors, See schematic for value.
34	C18	E-00586-0019	Capacitor, .05 MFD, 100V
35	C16	E-00586-0081	Capacitor, .1 MFD, 100V
36	C4, C5	E-00586-0073	Capacitor, 4.5 MFD, 25V
37	C3, C6-C13, C17, C81	E-00586-0065	Capacitor, .01 MFD, 500V
38	C14, C15, C79, C41-C67	E-00586-0067	Capacitor, 470 PFD, 1kv
39	C19-C31, C78, C33-C40	E-00586-0069	Capacitor, 390 PFD, 1kv
40	C1, C2, C68-C77	E-00586-0070	Capacitor, 820 PFD, 1kv
41	C32	E-00586-0077	Capacitor, 3000 PF, 1kv
43	Q5	E-00585-0023	Transistor PNP (MPS-3702)
44	Q1, Q2	E-00585-0031	Transistor (2N3904)
47	CR44	E-00587-0006	Diode (IN4004)
48	CR1-CR7, CR11-CR43, CR45-CR48	E-00587-0014	Diode (IN4148)
49	CR8	E-00679	LED (Green)
50	VR1	E-00598-0008	Diode Zener (8.2V, IN9598)
52	L1, L2	E-00604-0003	Inductor, 22 Micro Hy.
53	U12	E-00620-0004	Timer (555)
54	U19	E-00620-0005	Quad 2 Input (4011)
55	U9	E-00620-0028	MPU I.C. (6800)
56	U10, U11	E-00620-0029	PIA I.C. (6820)
57	U7	E-00620-0030	RAM I.C. (6810)
59	U20	E-00620-0032	HEX Buffer I.C. (14502B)
60	U14, U18	E-00620-0033	HEX Inverter (4049B)
61	U15	E-00620-0034	Quad Memory Driver (MC3459L)
62	U16	E-00620-0035	Dual Monostable (9602)
64	U17	E-00620-0041	Quad 2 Inputs (74L00N)
65	U8	E-00620-0042	RAM (C MOS, P5101L-3)
68	BT1, BT2, BT3	E-00628-0003	Battery
70	S33	E-00658-0001	Push Button Switch
71	S1-S8, S9-S16, S17-S24, S25-S32	E-00677	DIP Switch
73		E-00712	24 Pin Socket
74		E-00712-0001	40 Pin Socket
75		E-00712-0003	22 Pin Socket
77	J2	E-00715	15 Pin Wafer Connector
78	J4, J5	E-00715-0004	28 Pin Wafer Connector
79	J3	E-00715-0017	16 Pin Wafer Connector
80	J1	E-00715-0018	19 Pin Wafer Connector
81	J5	E-00715-0023	4 Pin Wafer Connector

Note 1:

AS-2518-35 is without memory (ROM) combinations.

Note 2:

When ordering replacement memory chips U1-U6, refer to part number stamped on chip, or Memory Combination Charts on Pages 12, 13 and 14.

For Games Listed Below. Order By Number Listed With Game Name.

BLACK JACK
AS-2887-7

EIGHT BALL
AS-2887-4

EVEL KNIEVEL
AS-2887-3

FREEDOM
AS-2887-1

KISS
AS-2962-7

LOST WORLD
AS-2962

MATA HARI
AS-2887-6

NIGHT RIDER
AS-2887-2

PARAGON
AS-2962-8

PLAYBOY
AS-2962-3

POWER PLAY
AS-2887-5

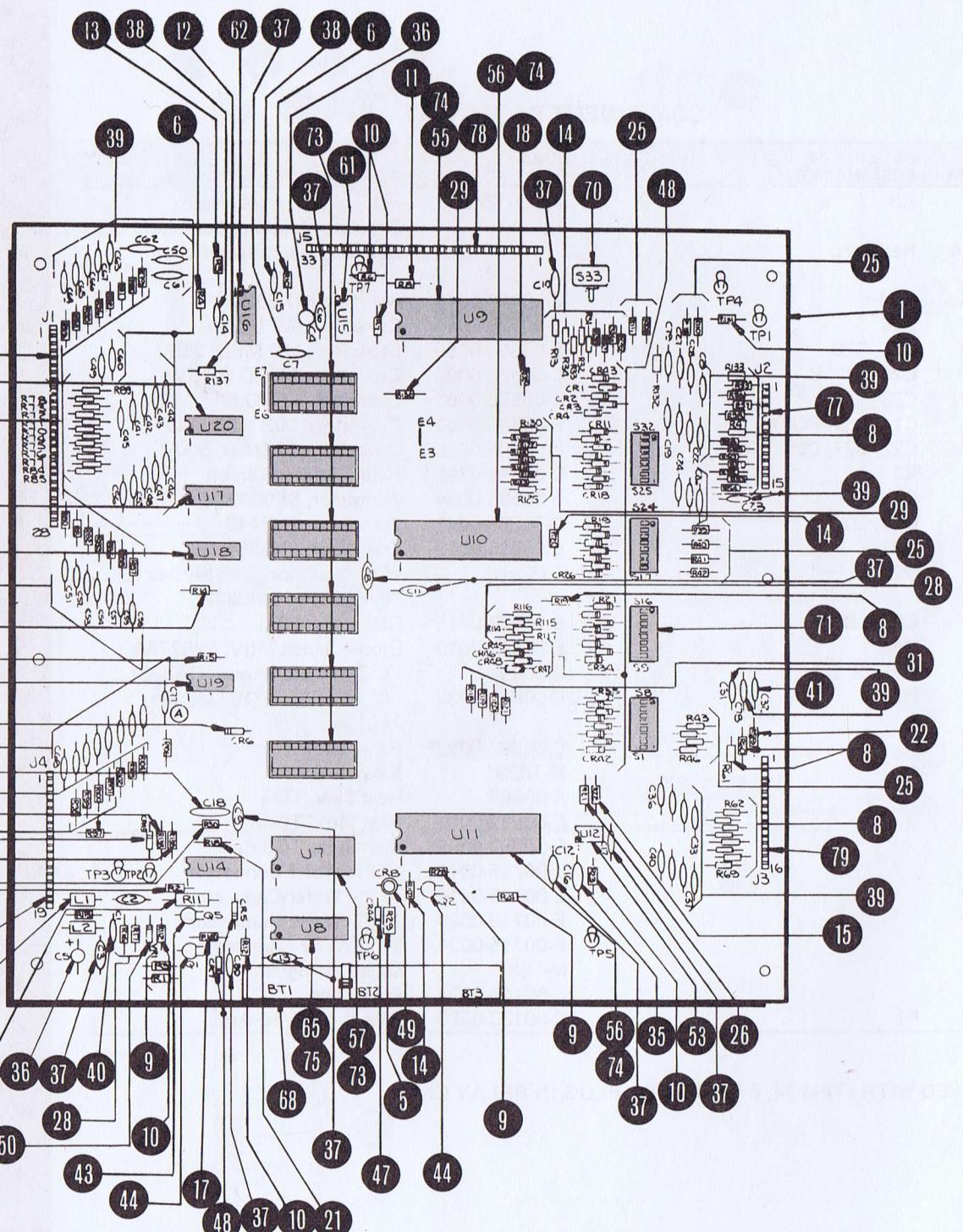
SIX MILLION
DOLLAR MAN
AS-2962-2

STAR TREK
AS-2962-6

STRIKES & SPARES
AS-2887-9

SUPersonic
AS-2962-5

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



A4 MEMORY COMBINATIONS

MEMORY COMBINATIONS A4

TABLE I

MEMORY COMBINATIONS AND JUMPERS FOR USE WITH MPU AS-2518-17

NAME OF GAME	SOCKET LOCATIONS						JUMPER REQUIREMENTS
	U1	U2	U3	U4	U5	U6	
BLACK JACK		E728-32			E720-20	E1-E2, E3-E4, E6-E7	
EIGHT BALL	E723-14	E723-15	E723-16		E720-20	E1-E2, E3-E4, E8-E10	
		E723-17			E720-20	E1-E2, E3-E4, E6-E7	
	E723-18	E723-19	E723-16		E720-20	E1-E2, E3-E4, E8-E10	
EVEL KNIEVEL					E720-20	E1-E2, E3-E4, E6-E7	
	E722-17				E720-20	E1-E2, E3-E4, E6-E7	
FREEDOM	E720-8	E720-10			E720-7	E1-E2, E3-E4, E8-E9	
	E720-8	E720-9			E720-7	E1-E2, E3-E4, E8-E9	
	E720-1	E720-2			E720-7	E1-E2, E3-E4, E8-E9	
	E720-8	E720-19			E720-7	E1-E2, E3-E4, E8-E9	
	E720-8	E720-10	E720-3	E720-4	E720-5	E720-6	E3-E4, E8-E9
	E720-8	E720-9	E720-3	E720-4	E720-5	E720-6	E3-E4, E8-E9
	E720-1	E720-2	E720-3	E720-4	E720-5	E720-6	E3-E4, E8-E9
	E720-8	E720-19	E720-3	E720-4	E720-5	E720-6	E3-E4, E8-E9
NIGHT RIDER	E721-12	E721-13			E720-20	E1-E2, E3-E4	
	E721-10	E721-11			E720-20	E1-E2, E3-E4	
	E721-8	E721-9			E720-20	E1-E2, E3-E4	
	E721-3	E721-7			E720-20	E1-E2, E3-E4	
	E721-3	E721-6			E720-20	E1-E2, E3-E4	
	E721-3	E721-4			E720-20	E1-E2, E3-E4	
MATA HARI		E725-21			E720-20	E1-E2, E3-E4, E6-E7	
POWER PLAY	E724-14	E724-22	E724-23	E724-24	E720-20	E1-E2, E3-E4, E8-E10	
	E724-14	E724-15	E724-20	E724-17	E720-20	E1-E2, E3-E4, E8-E10	
		E724-25			E720-20	E1-E2, E3-E4, E6-E7	
STRIKES & SPARES		E740-16			E720-20	E1-E2, E3-E4, E6-E7	

TABLE II

MEMORY COMBINATIONS AND JUMPERS FOR USE WITH MPU AS-2518-17 (F.O. 597 Modified)

NAME OF GAME	SOCKET LOCATIONS						JUMPER REQUIREMENTS
	U1	U2	U3	U4	U5	U6	
BLACK JACK		E728-32					E720-20 Same as EVEL KNIEVEL
EIGHT BALL		E723-17					E720-20 Same as EVEL KNIEVEL
EVEL KNIEVEL			E722-17				E720-20 E1-E2, E3-E4, E12-E13, E14-E11, E7-E6
FREEDOM	E720-8	E720-10			E720-7	E1-E2, E3-E4, E12-E7, E14-E15	
	E720-8	E720-9			E720-7	E1-E2, E3-E4, E8-E9	
	E720-1	E720-2			E720-7	E1-E2, E3-E4, E8-E9	
	E720-8	E720-19			E720-7	E1-E2, E3-E4, E8-E9	
	E720-8	E720-10	E720-3	E720-4	E720-5	E720-6	E3-E4, E8-E9
	E720-8	E720-9	E720-3	E720-4	E720-5	E720-6	E3-E4, E8-E9
	E720-1	E720-2	E720-3	E720-4	E720-5	E720-6	E3-E4, E8-E9
	E720-8	E720-19	E720-3	E720-4	E720-5	E720-6	E3-E4, E8-E9
NIGHT RIDER	E721-12	E721-13			E720-20	E1-E2, E3-E4	
	E721-10	E721-11			E720-20	E1-E2, E3-E4	
	E721-8	E721-9			E720-20	E1-E2, E3-E4	
	E721-3	E721-7			E720-20	E1-E2, E3-E4	
	E721-3	E721-6			E720-20	E1-E2, E3-E4	
	E721-3	E721-4			E720-20	E1-E2, E3-E4	
MATA HARI		E725-21			E720-20	E1-E2, E3-E4, E6-E7	
POWER PLAY	E724-14	E724-22	E724-23	E724-24	E720-20	E1-E2, E3-E4, E8-E10	
	E724-14	E724-15	E724-20	E724-17	E720-20	E1-E2, E3-E4, E8-E10	
		E724-25			E720-20	E1-E2, E3-E4, E6-E7	
STRIKES & SPARES		E740-16			E720-20	E1-E2, E3-E4, E6-E7	
SIX MILLION DOLLAR MAN					E742-5	E742-6	E720-30 Same as EVEL KNIEVEL
STAR TREK					E745-11	E745-12	E720-30 Same as EVEL KNIEVEL
STRIKES & SPARES						E740-16	E720-20 Same as EVEL KNIEVEL
SUPersonic					E741-10	E741-8	E720-39 Same as EVEL KNIEVEL

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

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

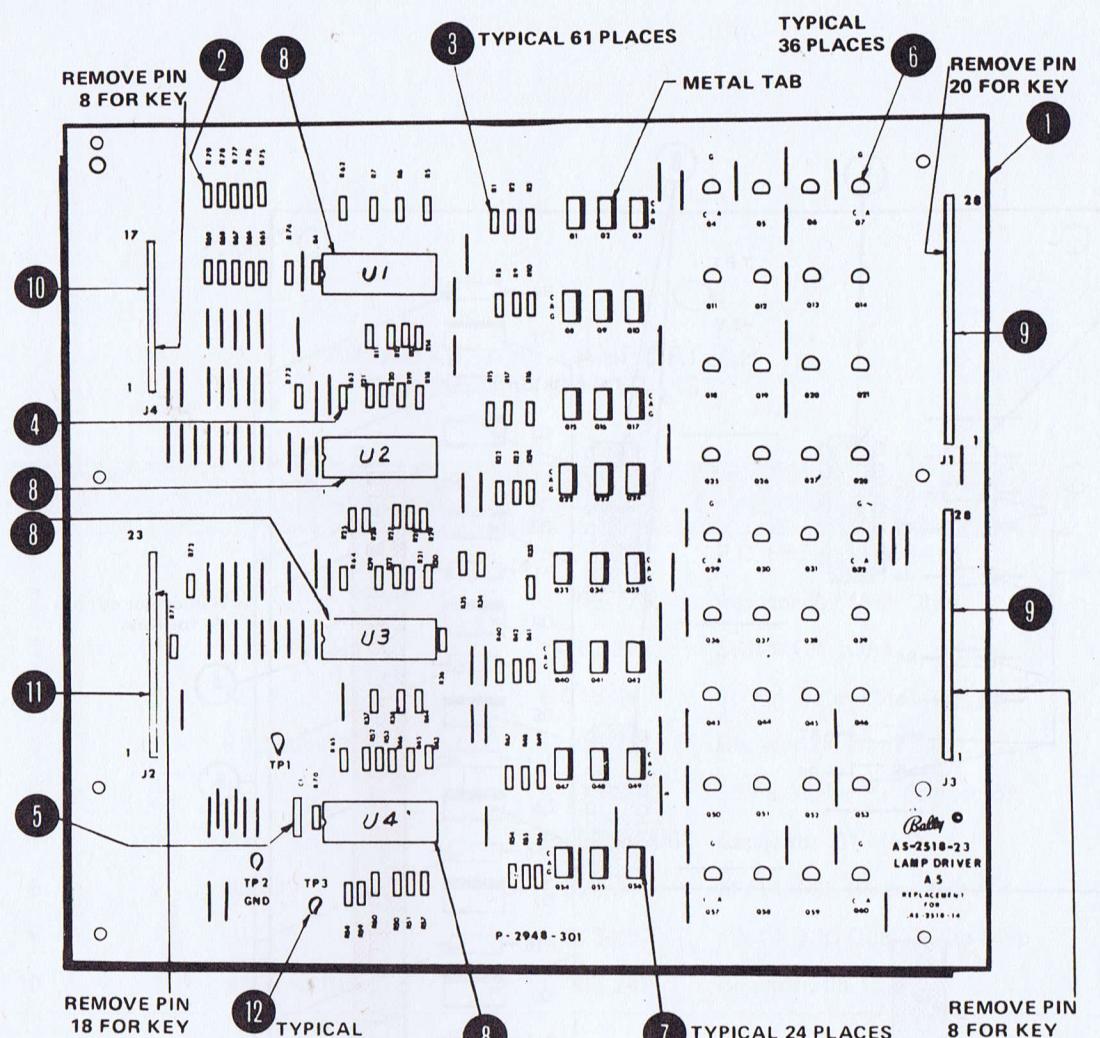
A4 MEMORY COMBINATIONS

TABLE III
MEMORY COMBINATIONS AND JUMPERS FOR USE WITH MPU AS-2518-35

NAME OF GAME	U1	U2	SOCKET LOCATIONS	U5	U6	JUMPER REQUIREMENTS
BLACK JACK		E728-32		E720-20		Same as EVEL KNIEVEL
EIGHT BALL		E723-17		E720-20		Same as EVEL KNIEVEL
EVEL KNIEVEL		E722-17		E720-20		E7-E8, E13-E15, E16A-E19, E9-E11, E12-E36, E31-E32, E33-E34, E1-E4, E2-E6.
FREEDOM	E720-8	E720-10		E720-7		E1-E3, E2-E6, E9-E11, E12-E36, E13-E15, E16-E17, E31-E32, E33-E34
KISS	E746-9 E746-11 E746-5	E746-10 E746-12 E746-6		E720-30 E720-30 E720-30		Same as SUPERSONIC (1) Same as SUPERSONIC (2) Same as SUPERSONIC (2)
LOST WORLD	E729-39 E729-34 E729-33	E729-40 E729-47 E729-48		E720-29 E720-28 E720-28		E1-E5, E2-E4, E7-E8, E10-E12, E13A-E14, E16A-E19, E31-E32, E33-E35 E1-E5, E1-E4, E7-E8, E10-E12, E13A-E14, E16A-E19, E11-E25, E31-E32, E33-E35 E1-E4, E1-E6, E7-E8, E9-E11, E12-E36, E13-E15, E16A-E19, E31-E32, E33-E34
MATA HARI		E725-21		E720-20		Same as EVEL KNIEVEL
NIGHT RIDER	E721-12	E721-13		E720-20		Same as FREEDOM
PARAGON	E748-14	E748-15		E720-30		Same as SUPERSONIC (2)
PLAYBOY	E743-9 E743-13 E743-11 E743-14	E743-10 E743-10 E743-12 E743-12		E720-30 E720-30 E720-30 E720-30		E1-E5, E2-E4, E7-E8, E10-E12, E13A-E14, E16A-E19, E11-E25, E31-E32, E33-E34 Same as above. E1-E4, E2-E6, E7-E8, E9-E11, E12-E36, E13-E15, E16A-E19, E31-E32, E33-E34 Same as above.
POWER PLAY		E724-25		E720-20		Same as EVEL KNIEVEL
SIX MILLION DOLLAR MAN	E742-9 E742-13 E742-15 E742-20	E742-10 E742-19 E742-16 E742-18		E720-30 E720-30 E720-30 E720-30		E1-E5, E2-E4, E7-E8, E10-E12, E13A-E14, E16A-E19, E11-E25, E31-E32, E33-E34 Same as above. Same as above. E1-E4, E2-E6, E7-E8, E9-E11, E12-E36, E13-E15, E16A-E19, E31-E32, E33-E34
STAR TREK	E745-9 E745-1	E745-10 E745-12		E720-30 E720-30		Same as SUPERSONIC (1) Same as SUPERSONIC (2)
STRIKES & SPARES		E740-16		E720-20		Same as EVEL KNIEVEL
SUPERSONIC (1)	E741-9	E741-6		E720-30		E1-E5, E2-E4, E7-E8, E10-E12, E13A-E14, E16A-E19, E11-E15, E31-E32, E33-E34
SUPERSONIC (2)	E741-10	E741-8		E720-30		E1-E4, E2-E6, E7-E8, E9-E11, E12-E36, E13-E15, E16A-E19, E31-E32, E33-E34

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

AS-2518-23 LAMP DRIVER MODULE A5



COMPONENT PARTS LIST

ITEM	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
1	A5	AS-2518-23	Lamp Driver Module, Complete
2	R71-R79	E-00105-242	Resistor, 20k, 5%, 1/4W
3	R1-R60, R70	E-00105-0237	Resistor, 2k, 5%, 1/4W
4	R61-R69	E-00105-0256	Resistor, 2.2M, 1/4W
5	C1	E-00586-0065	Capacitor, .01 MFD, 500V
6	Q4-Q7, Q11-Q14, Q18-Q21, Q25-Q32, Q36-Q39, Q43-Q46, Q50-Q53, Q57-Q60	E-00585-0014	SCR, 2N5060
7	Q1-Q3, Q8-Q10, Q15-Q17, Q22-Q24, Q33-Q35, Q40-Q42, Q47-Q49, Q54-Q56	E-00585-0029	SCR, MCR106-1
8	U1-U4	E-00620-0037	I.C., Decoder, 14514B
9	J1, J3	E-00715-0004	28 Pin Wafer Connector
10	J4	E-00715-0013	17 Pin Wafer Connector
11	J2	E-00715-0014	23 Pin Wafer Connector
12	TP1, TP2, TP3	P-05399	Test Clip

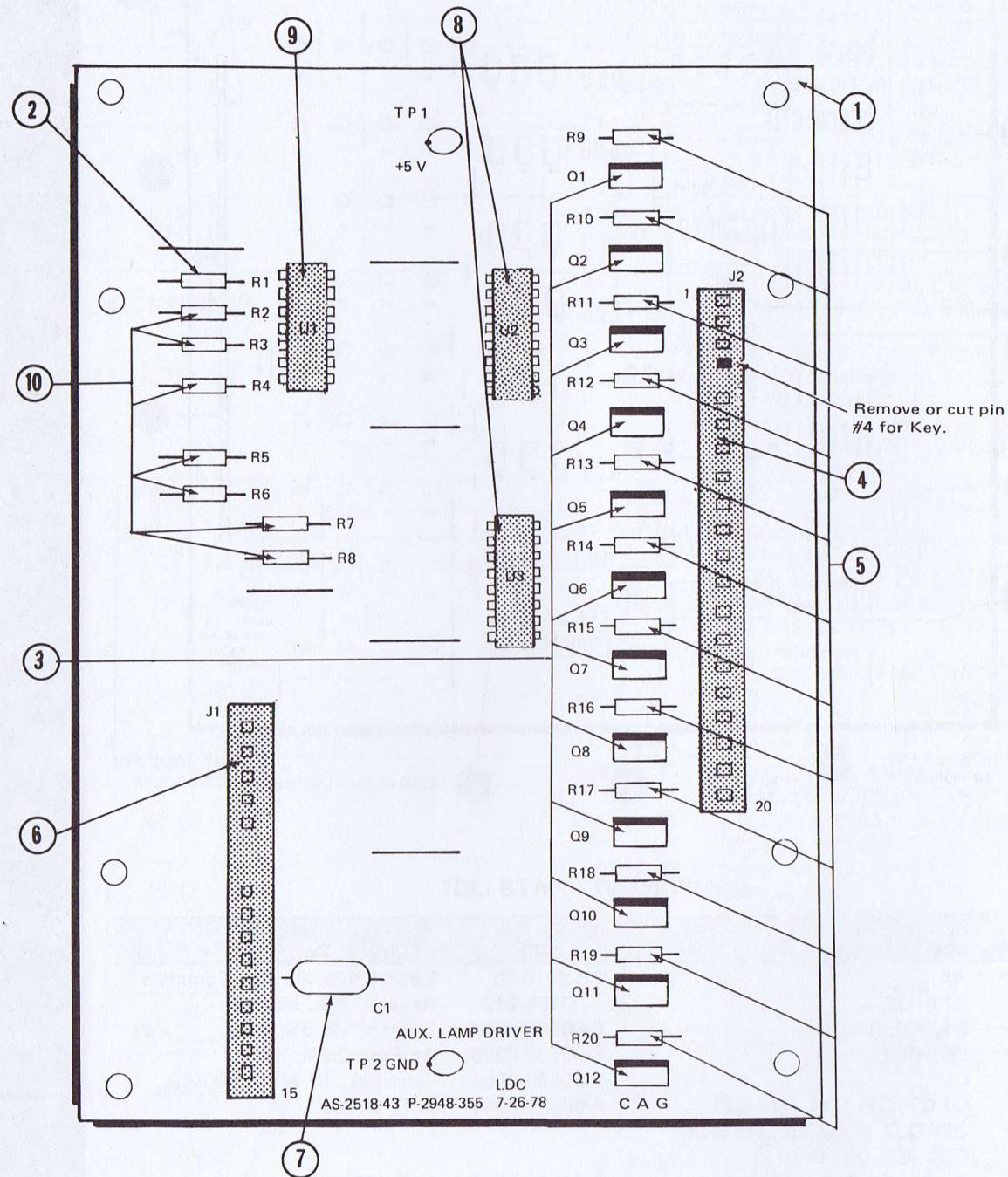
- KISS
- PARAGON
- PLAYBOY
- POWER PLAY
- SIX MILLION DOLLAR MAN
- STAR TREK
- STRIKES & SPARES
- SUPERSONIC

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

A-9 LAMP DRIVER

LAMP DRIVER A-9

• KISS



A9: AUXILIARY LAMP DRIVER
COMPONENT PARTS LIST

ITEM	QTY.	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
1	1		P-2948-355	P.C. Board (M-645-461)
2	1	R1	E-105-173	Resistor 2.2 Meg. Ohm
3	12	Q1 Thru Q12	E-585-29	SCR MCR 106-1
4	2	J2	E-715-34	10 Pin Wafer Pin Connector
5	12	R9 Thru R20	E-105-237	Resistor 2K Ohm
6	1	J1	E-715-39	15 Pin Wafer Pin Connector
7	1	C1	E-00586-0065	Capacitor .01 MFD
8	2	U3, U2	E-620-84	MV14555B Binary 1 to 4
9	1	U1	E-620-85	MV14013B Dual D Flip Flop
10	7	R2 Thru R8	E-105-242	Resistor 20K Ohm

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

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

AS-2518-XX SOUND MODULE A8

For Games Listed
Below Order By
Number Listed
With Game Name.

BLACK JACK
AS-2888-2

EIGHT BALL
AS-2888-2

EVEL KNIEVEL
AS-2888-2

FREEDOM
AS-2888-5

KISS
AS-2888-3

LOST WORLD
AS-2888-1

MATA HARI
AS-2888-2

NIGHT RIDER
AS-2888-5

PARAGON
AS-2888-4

PLAYBOY
AS-2888-1

POWER PLAY
AS-2888-2

SIX MILLION
DOLLAR MAN
AS-2888-1

STAR TREK
AS-2888-3

STRIKES & SPARES
AS-2888-2

SUPersonic
AS-2888-1

COMPONENT PARTS LIST

ITEM	REFERENCE DESIGNATION	BALLY PART NO.	DESCRIPTION
1	A8 (see note 1)	AS-2888-1	PWB Module Complete —
2	J1	E-00715-0039	15 Pin Connector
3	J2	E-00715-0026	2 Pin Connector
4	TP1-TP5	P-05399	Test Clip
5	R1, R28, R31	E-00105-0239	Resistor 1/4W 5% 4.7K
6	R2	E-00105-0281	Resistor 1/4W 5% 15K
7	R3	E-00105-0282	Resistor 1/4W 5% 33K
8	R4	E-00105-0257	Resistor 1/4W 5% 3.9K
9	R5, R6, R9, R17, R19, R20, R23, R25, R26, R27, R30	E-00105-0185	Resistor 1/4W 5% 10K
10	R10	E-00105-0248	Resistor 1/4W 5% 150K
11	R11, R12, R14	E-00105-0285	Resistor 1/4W 5% 1M
12	R13	E-00105-0284	Resistor 1/4W 5% 470K
13	R15	E-00105-0279	Resistor 1/4W 5% 360
14	R16	E-00105-0280	Resistor 1/4W 5% 470
15	R18	E-00105-0278	Resistor 1/4W 5% 2.7
16	R8	E-00105-0287	Resistor 1/4W 5% 2.2K
17	R21	E-00105-0246	Resistor 1/4W 5% 110K
18	R22	E-00105-0286	Resistor 1W 4.7K
19	R24	E-00105-0223	Resistor 1/4W 5% 82K
20	R7	E-00105-0289	Resistor 1/4W 5% 1.1K
21	R35	E-00105-0228	Resistor 1/4W 5% 9.1K
22	R36	E-00104-0096	Resistor 5W, 10% 75
23	C1, C10	E-00599-0015	Resist. Var. 91B, 10K
24	C3, C14, C15, C18	E-00586-0068	Cap., Disc. 100PF 1000V
25	C7	E-00586-0065	Cap., Disc. .01MFD 500V
26	C19, C2, C5, C9, C16, C21	E-00586-0087	Cap., Disc. .01MFD 500V
27	C4, C12	E-00586-0088	Cap., Disc. .05MFD 16V
28	C8, C11	E-00586-0089	Cap., Disc. .1MFD 25V
29	C6	E-00586-0090	Cap., Elect. 1MFD 25V
30	C13	E-00586-0063	Cap., Elect. 2MFD 25V
31	C17	E-00586-0091	Cap., Elect. 100MFD 25V
32	Q1(TIP 29)	E-00586-0092	Cap., Elect. 100MFD 100V
33	Q1, Q3 (2N 3904)	E-00585-0043	Transistor NPN
34	CR1, CR2 (1N 4148)	E-00585-0031	Transistor NPN
35	CR3 (1N 4004)	E-00587-0014	Diode
36	CR4 (1N 5243)	E-00587-0015	Diode
37	U1, U8 (MC 14049B)	E-00598-0011	Diode, Zener
38	U4, U5 (MC 14526B)	E-00620-0033	Hex Inverter (J.C.)
39	U2 (MC 14042B)	E-00620-0044	Programmable 4 Bit Counter
40	U7 (555)	E-00620-0045	Quad. Latch
41	U9 (LM741)	E-00620-0004	Timer I.C.
42	U10 (LM 380N)	E-00620-0047	Operational Amp.
43	U11 (86 L93)	E-00620-0048	Audio Amplifier
44	C20	E-00620-0046	4 Bit Binary
45	A8 (see note 2)	E-00586-0064	Cap., Disc. .002
46		AS-2518-32	PWB Module Less Program
47		E-00599-0015	Resistor, Fixed 10K

NOTE 1: Order replacement memory chip U3 specifying name of game and part number stamped on chip.

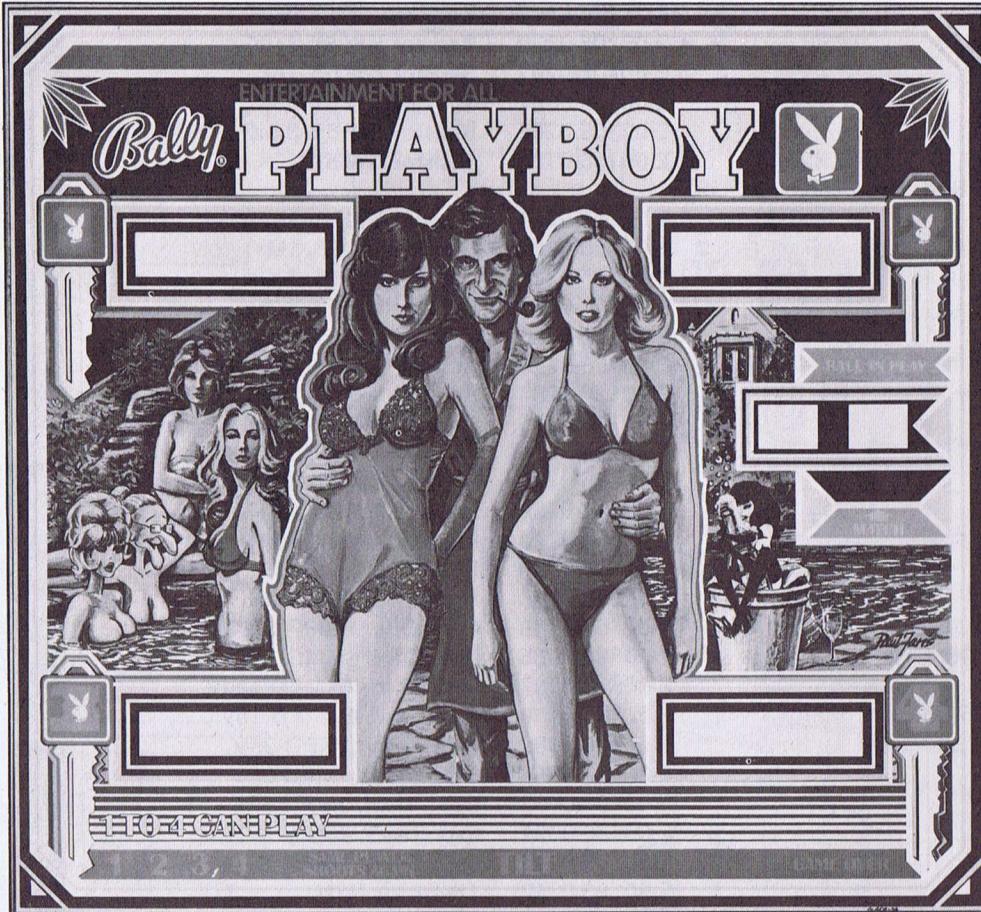
NOTE 2: AS-2888 and AS-2888-2 are interchangeable.

NOTE 3: AS-2888-1 and AS-2888-3 are interchangeable.

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

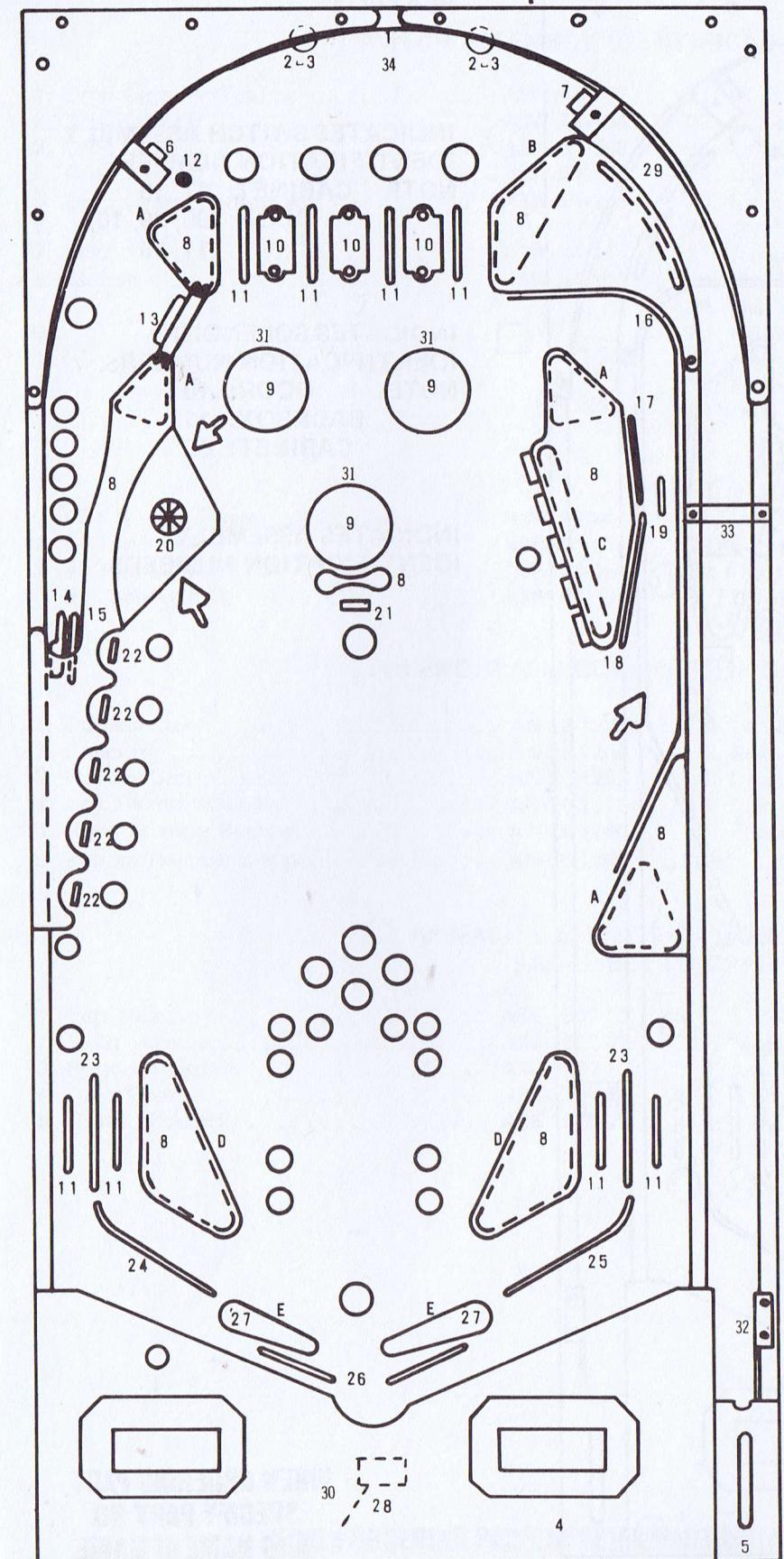
WHEN ORDERING PART,
SPECIFY PART NO.
AND NAME OF GAME

PLAYBOY



BACK GLASS
GT-408-34

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



RUBBER PARTS

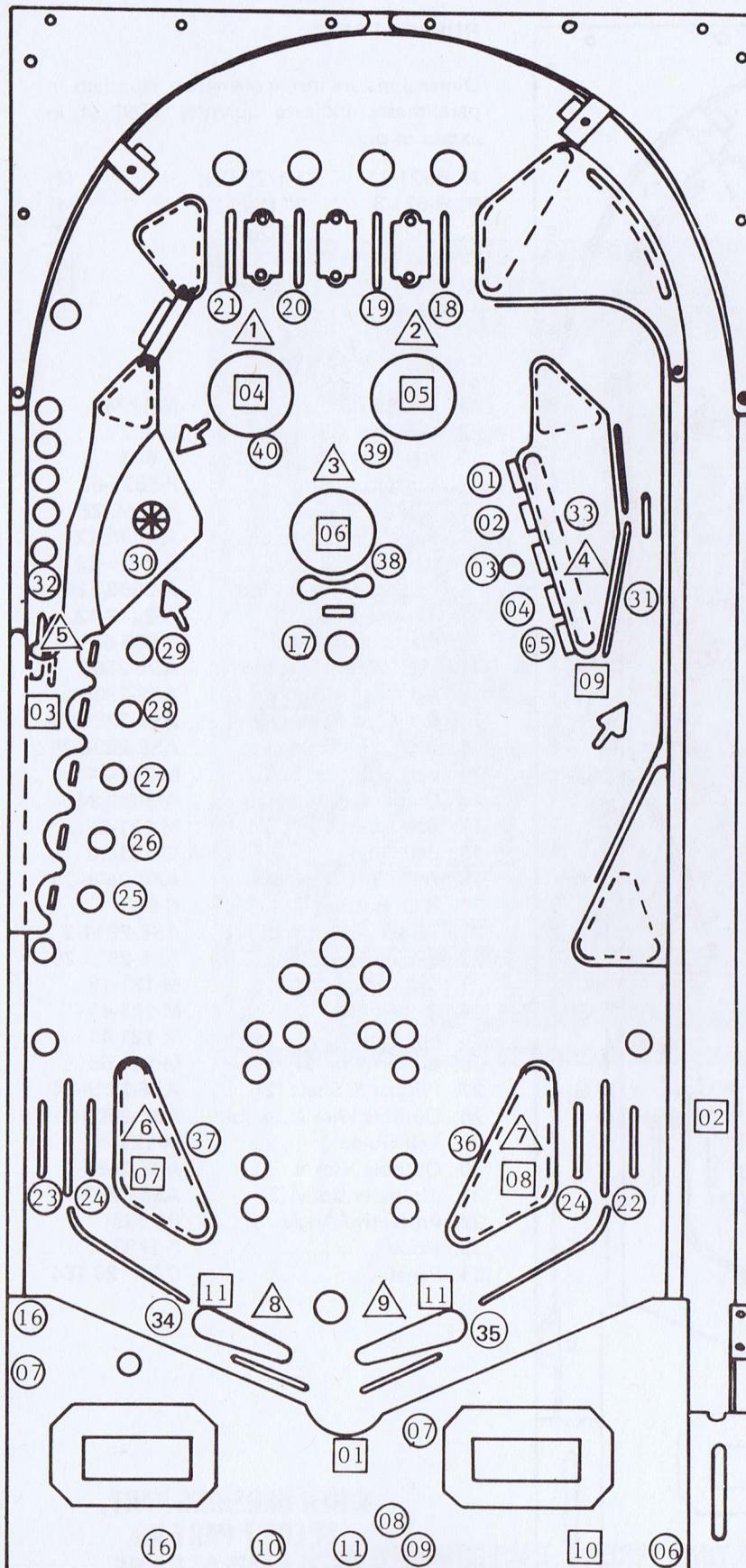
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A. R521-2	1-1/2" Dia.	(4)
B. R-521-3	2" Dia.	(1)
C. R-521-5	3" Dia.	(2)
D. R-521-4	2-1/2" Dia.	(2)
E. R-406-3	Flipper	(2)
F. R-243	5/16" Dia.	(15)

PANEL TOP PARTS

1. Arch Rail	M-1774
2. Rail Post (2)	C-907
3. Rail Post Cap (2)	C-908
4. Bottom Arch	P-5871-62
5. Shooter Gauge	P-6359-28
6. Ball Gate (L)	A-1475-12
7. Ball Gate (R)	A-1475-13
8. Screened Plastics (set) . . .	A-2890-129
9. Thumper Cap (3)	A-3713-42
10. Plastic Guides (3)	C-935-5
11. R.O. Wire & Brk't (8) . . .	ASE-2806
12. Minipost & Rubber	ASE-2836-1
13. Ball Gate Assembly	ASE-2250-25
14. R.O. Wire & Bracket	ASE-2806-25
15. Ball Guide	M-121-24
16. Guide Rail Assembly	A-3032-24
17. Ball Guide	M-121-65
18. Ball Guide	M-121-30
19. R.O. Wire & Bracket	ASE-2806-24
20. R.O. Button	C-900
21. Target Assy. (Red)	ASE-2911-3
22. Target Assy. (White) (5) . . .	ASE-2911-20
23. Ball Guide (2)	M-121-18
24. Ball Guide	M-121-43
25. Ball Guide	M-121-44
26. Buffer Wire (2)	M-121-53
27. Flipper & Shaft (2)	ASE-2214-24
28. Outhole Wire Assembly . . .	ASE-2806-21
29. Ball Guide	M-121-25
30. Outhole Kicker	ASE-2694-3
31. Thumper Body (3)	ASE-2222-4
32. Protective Angle	P-7639
33. Hood	P-1732
34. Panel	CA-1128-164

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



○ SWITCH ASSEMBLY IDENTIFICATION NUMBERS

1. Drop Target A (Top) ASW-A1-168
2. Drop Target B ASW-A1-168
3. Drop Target C ASW-A1-168
4. Drop Target D ASW-A1-168
5. Drop Target (E) (Bottom) ASW-A1-168
- 6.
7. Tilt ASW-A1-145
8. Outhole ASW-A1-143
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
17. #5 Key—Red Target ASW-A10-48
18. #4 Top Key R.O. ASW-A1-155
19. #3 Top Key R.O. ASW-A1-155
20. #2 Top Key R.O. ASW-A1-155
21. #1 Top Key R.O. ASW-A1-155
22. Right Outlane ASW-A1-155
23. Left Outlane ASW-A1-155
24. L & R Flipper Feeder Lane ASW-A1-155
25. September Target ASW-A10-48
26. July Target ASW-A10-48
27. January Target ASW-A10-48
28. May Target ASW-A10-48
29. March Target ASW-A10-48
30. Arrow R.O. Button ASW-A1-162
31. Right Lane R.O. ASW-A1-155
32. Playboy Grotto R.O. ASW-A1-155
33. Drop Target Rebound ASW-A10-51
- 34.
- 35.
36. Right Slingshot ASW-A10-47
37. Left Slingshot ASW-A10-47
38. Bottom Thumper Bumper ASW-A110-5
39. Right Thumper Bumper ASW-A110-5
40. Left Thumper Bumper ASW-A110-5

□ SOLENOID AND COIL IDENTIFICATION NUMBERS

1. Outhole Kicker AN-26-1200
2. Knocker AN-26-1200
3. Playboy Grotto Kicker AN-26-1200
4. Left Thumper Bumper AN-26-1200
5. Right Thumper Bumper AN-26-1200
6. Bottom Thumper Bumper AN-26-1200
7. Left Slingshot AN-26-1200
8. Right Slingshot AN-26-1200
9. Drop Target NO-24-1400
10. Coin Lockout Door FO-36-7000
11. Flippers AQ-25-500/34-4500

△ ASSEMBLY IDENTIFICATION NUMBERS PANEL BOTTOM PARTS

1. Left Thumper ASE-1567-13
2. Right Thumper ASE-1567-13
3. Bottom Thumper ASE-1567-13
4. Drop Target ASE-2795-58
5. Grotto Kickback ASE-1566-26
6. Left Slingshot ASE-2593-4
7. Right Slingshot ASE-2593-4
8. Left Flipper ASE-1587-101
9. Right Flipper ASE-1587-102

For assembly breakdown, see back of book.

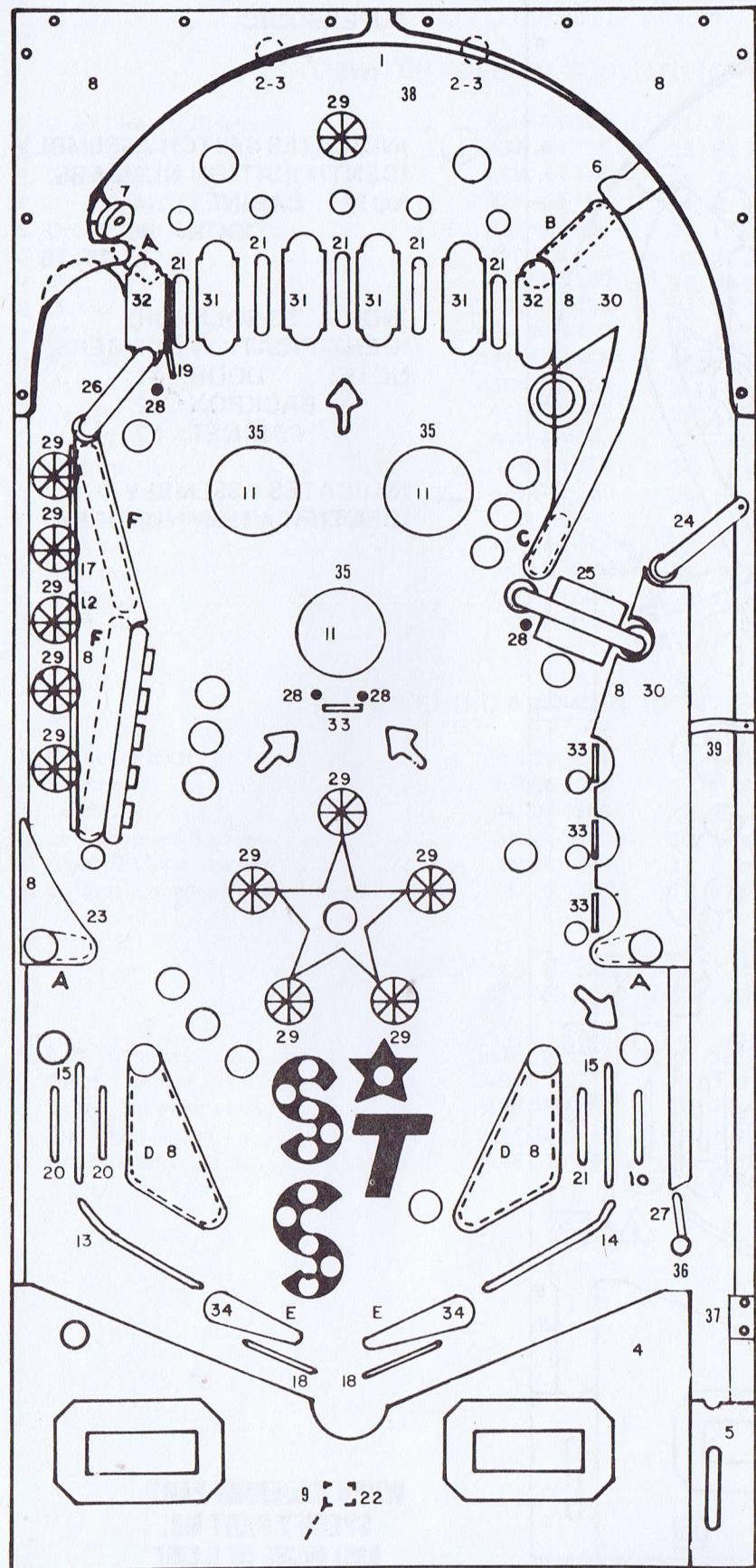
WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

SUPersonic



BACK GLASS
GT-408-42

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



RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

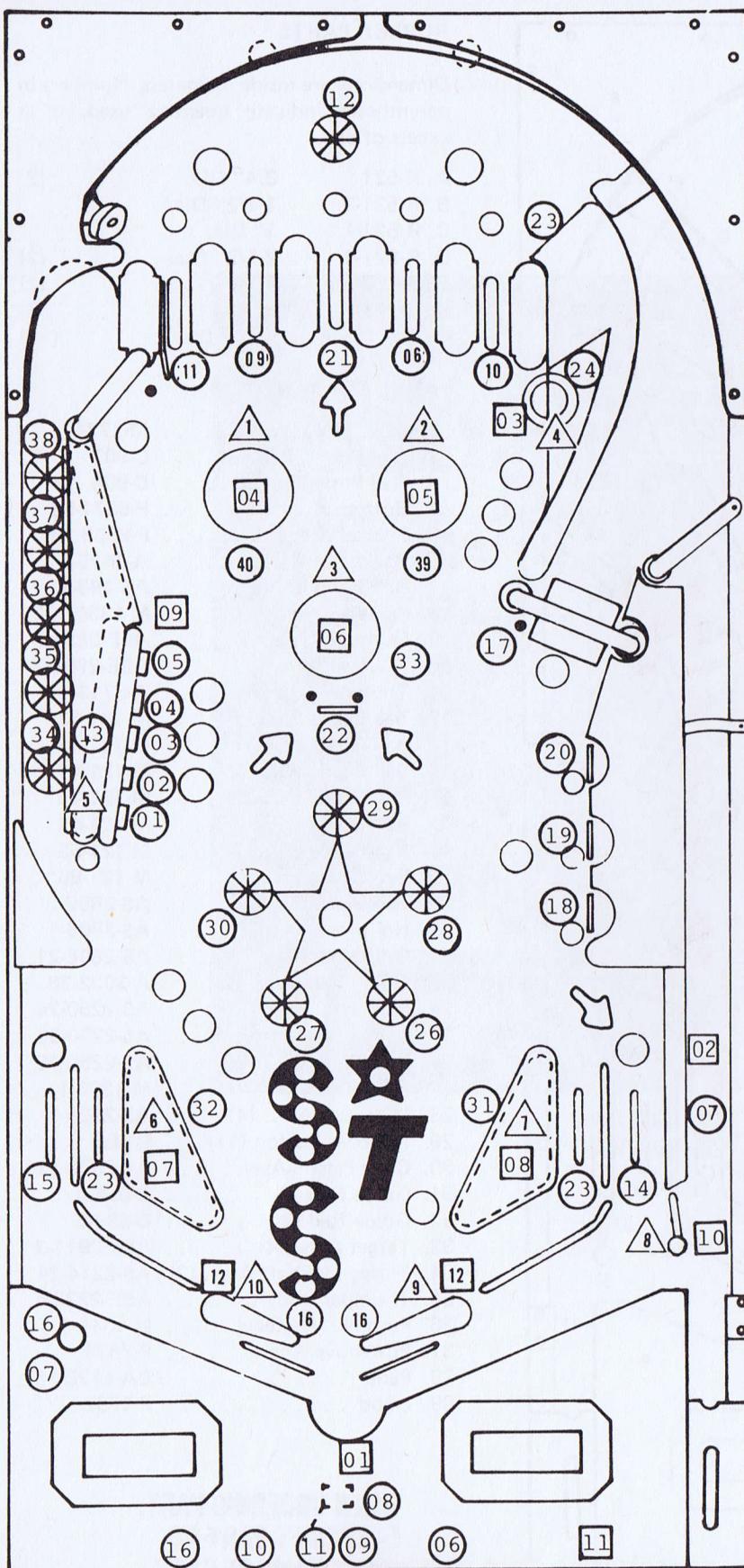
A. R-521	3/4" Dia.	(3)
B. R-521-2	1-1/2" Dia.	
C. R-521-1	1" Dia.	
D. R-521-4	2-1/2" Dia.	(2)
E. R-406-3	Flipper	(2)
F. R-521-5	3" Dia.	(3)
G. R-243	5/16" Dia.	
		(14)

PANEL TOP 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	P-6359-19
6. Ball Gate (R)	A-1475-9
7. Ball Rebound (L)	AS 493-6
8. Screened Plastics Set	M-1330-138
9. Outhole Kicker	ASE-2694-3
10. Rollover Wire	ASE-2806-3
11. Thumper Cap (3)	A-3713-11
12. Ball Guide Wire.	M-121-33
13. Ball Guide Wire.	M-121-43
14. Ball Guide Wire.	M-121-44
15. Ball Guide Wire (2)	M-121-18
17. Ball Guide Wire.	M-121-47
18. Ball Guide Wire (2)	M-121-53
19. Ball Guide Wire.	M-121-66
20. Rollover Wire (2)	AS-2806
21. Rollover Wire (6)	AS-2806-1
22. Outhole Wire	AS-2806-21
23. Guide Rail Assy.	A-3032-26
24. Ball Gate Assy. (R)	AS-2250-24
25. Spinner Gate Assy.	AS-2250-53
26. Ball Gate Assy. (L)	AS-2250-46
27. Free Gate Wire	M-1335-1
28. Mini-post Assy. (4)	AS-2836-1
29. Rollover Button (11)	C-900
30. Clear Plastic Assy.	AS-2890-128
31. Guide Rail (4)	C-695-5
32. Guide Rail (2)	C-696-5
33. Target Assy. (4)	ASE-2911-3
34. Flipper & Shaft Assy. (2)	AS-2214-24
35. Thumper Body (3)	ASE-2222-4
36. Push Nut Fastener	M-1314-1
37. Protective Angle	P-7639
38. Panel	CA-1128-167
39. Hood	P-1732

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

SUPersonic



○ SWITCH ASSEMBLY IDENTIFICATION NUMBERS

1. Drop Target E (Bottom)	ASW-A1-168	21. #2 Top R.O.	ASW-A10-155
2. Drop Target D	ASW-A1-168	22. #1 Target.	ASW-A10-48
3. Drop Target C	ASW-A1-168	23. Top Rt. Reb.	ASW-A10-47
4. Drop Target B	ASW-A1-168	24. Saucer.	ASW-A1-166
5. Drop Target A (Top)	ASW-A1-168	25. L & R Flip/Feed Lane	ASW-A10-155
6. #5 Top R.O.	ASW-A10-155	26. #5 Star	ASW-A1-162
7. Tilt.	ASW-A1-145	27. #4 Star	ASW-A1-162
8. Outhole.	ASW-A1-143	28. #3 Star	ASW-A1-162
9. #4 Top R.O.	ASW-A10-155	29. #2 Star	ASW-A1-162
10. #3 Top R.O.	ASW-A10-155	30. #1 Star	ASW-A1-162
11. #1 Top R.O.	ASW-A10-155	31. Right Slingshot.	ASW-A10-47
12. Top R.O. Button.	ASW-A1-102	32. Left Slingshot.	ASW-A10-47
13. Drop Target Rebound	ASW-A10-51	33. Bottom Thumper Bumper.	ASW-A110-5
14. Right Outlane.	ASW-A1-155	34. #5 Left Lane R.O. Button.	ASW-A1-162
15. Left Outlane	ASW-A1-155	35. #4 Left Lane R.O. Button.	ASW-A1-162
16. Left & Right Flip Assy. Switches	ASW-A20-23	36. #3 Left Lane R.O. Button.	ASW-A1-162
17. Spinner.	ASW-A1-151	37. #2 Left Lane R.O. Button.	ASW-A1-162
18. #5 Target.	ASW-A10-48	38. #1 Left Lane R.O. Button.	ASW-A1-162
19. #4 Target.	ASW-A10-48	39. Right Thumper Bumper	ASW-A110-5
20. #3 Target.	ASW-A10-48	40. Left Thumper Bumper	ASW-A110-5

□ SOLENOID AND COIL IDENTIFICATION NUMBERS

1. Outhole Kicker.	AN-26-1200	7. Left Slingshot.	AN-26-1200
2. Knocker	AR-26-1200	8. Right Slingshot.	AN-26-1200
3. Saucer.	AO-27-1300	9. Drop Target.	NO-24-1400
4. Left Thumper Bumper	AN-26-1200	10. Lower Right Gate.	GA-34-4000
5. Right Thumper Bumper	AN-26-1200	11. Coin Lockout (Door)	FO-36-7000
6. Bottom Thumper Bumper.	AN-26-1200	12. Flippers.	AQ-25-500/34-4500

△ ASSEMBLY IDENTIFICATION NUMBERS PANEL BOTTOM PARTS

1. Left Thumper.	ASE-1567-13	6. Left Slingshot.	ASE-2593-4
2. Right Thumper.	ASE-1567-13	7. Right Slingshot.	ASE-2593-4
3. Center Thumper.	ASE-1567-13	8. Free Ball Gate	ASE-2308-21
4. Top Right Saucer	ASE-1567-13	9. Right Flipper	ASE-1587-102
5. Drop Target.	ASE-2795-56	10. Left Flipper	ASE-1587-101

For assembly breakdown, see back of book.

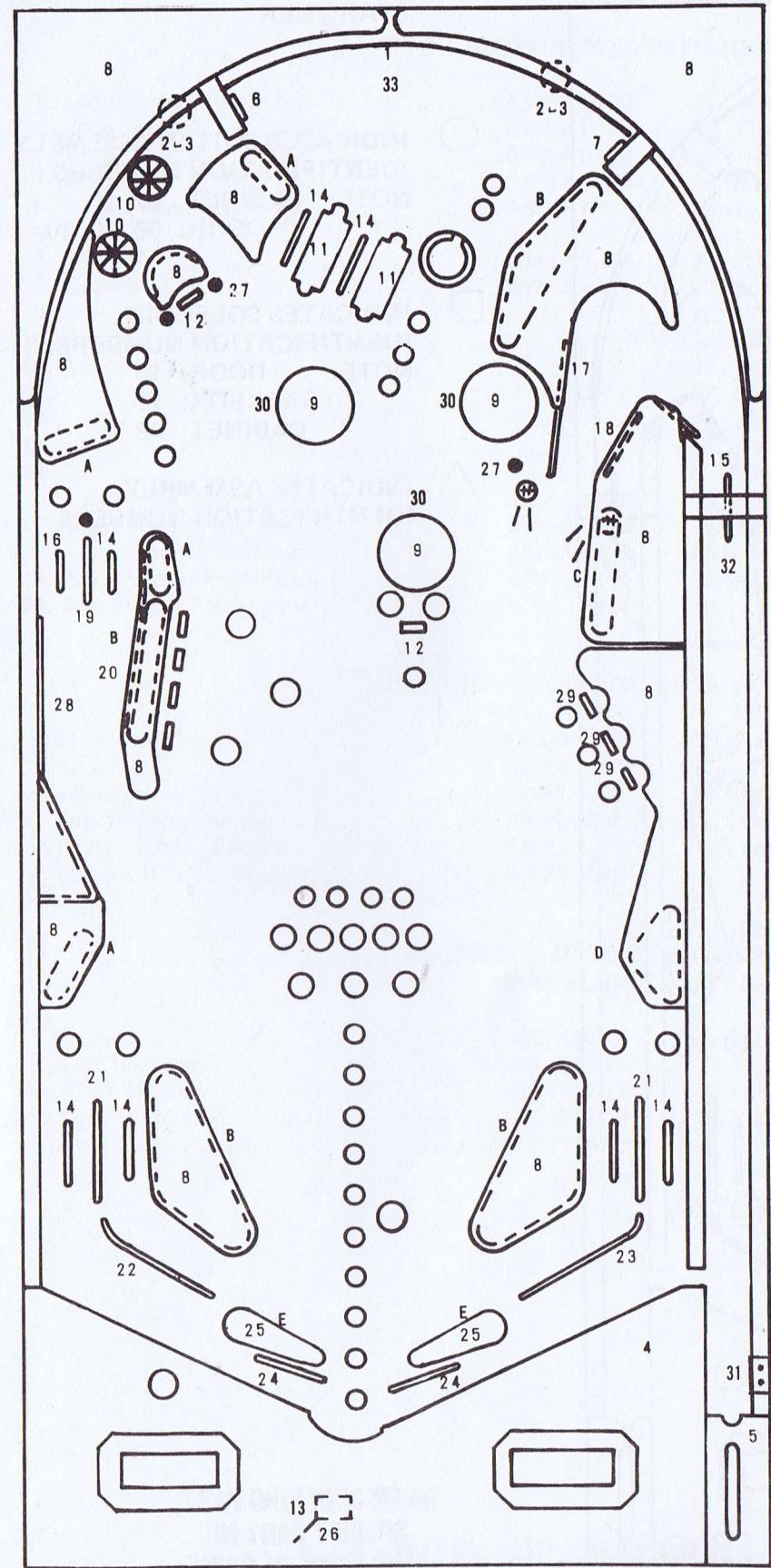
WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

STAR TREK



BACK GLASS
GT-408-35

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



RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

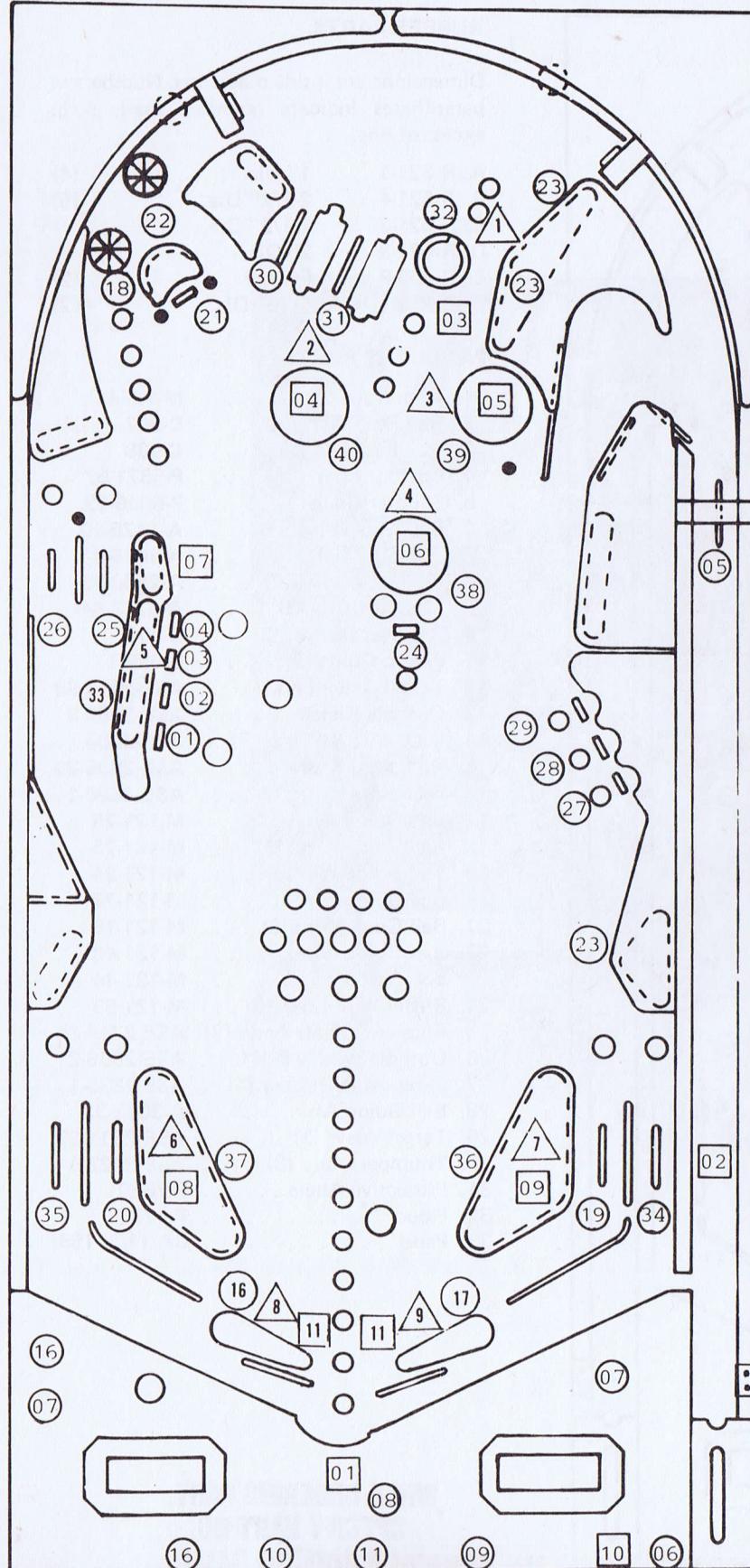
A. R-521-1	1" Dia.	(4)
B. R-521-4	2-1/2" Dia.	(5)
C. R-521-2	1-1/2" Dia.	
D. R-521-3	2" Dia.	
E. R-406-3	Flipper	(2)
F. R-243	5/16" Dia.	(12)

PANEL TOP PARTS

1. Arch Rail	M-1774
2. Rail Post (2)	C-907
3. Rail Post Cap (2)	C-908
4. Bottom Arch	P-5871-57
5. Shooter Gauge	P-6359-23
6. Ball Gate (L)	A-1475-10
7. Ball Gate (R)	A-1475-9
8. Plastic Covers (set)	A-2890-137
9. Thumper Cap (3)	A-3713-44
10. Rollover Button (2)	C-900
11. Plastic Guide (2)	C-935-1
12. Target Assembly (2)	ASE-2911-20
13. Outhole Kicker	ASE-2694-3
14. R.O. Wire & Brk't. (7)	ASE-2806
15. R.O. Wire & Brk't.	ASE-2806-26
16. R.O. Wire & Brk't.	ASE-2806-1
17. Ball Guide Wire	M-121-76
18. Ball Guide Wire	M-121-75
19. Ball Guide Wire	M-121-24
20. Ball Guide Wire	M-121-77
21. Ball Guide Wire (2)	M-121-18
22. Ball Guide Wire	M-121-43
23. Ball Guide Wire	M-121-44
24. Buffer Wire (2)	M-121-53
25. Flipper & Shaft Assy. (2)	ASE-2214-24
26. Outhole Wire & Brk't.	ASE-2806-21
27. Minipost & Rubber (4)	ASE-2836-1
28. Ball Guide Assy.	A-3032-33
29. Target Assy. (3)	ASE-2911-27
30. Thumper Body (3)	ASE-2222-4
31. Protective Angle	P-7639
32. Hood	P-1732
33. Panel	CA-1128-165

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

STAR TREK



STAR TREK

INDICATES SWITCH ASSEMBLY IDENTIFICATION NUMBERS.
NOTE: CABINET: 07, 16
DOOR: 06, 09, 10,
11, 16

INDICATES SOLENOID IDENTIFICATION NUMBERS.
NOTE: DOOR: 10
BACKBOX: 11
CABINET: 02

INDICATES ASSEMBLY IDENTIFICATION NUMBERS.

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

SWITCH ASSEMBLY IDENTIFICATION NUMBERS

1. Drop Target D (Bottom)	ASW-A1-168	21. Top Left Target	ASW-A10-48
2. Drop Target C	ASW-A1-168	22. Top Upper Rollover Button	ASW-A1-162
3. Drop Target B	ASW-A1-168	23. 10 Pt. Rebounds	ASW-A10-51
4. Drop Target A (Top)	ASW-A1-168	24. Center Target	ASW-A10-48
5. Collect Bonus Lane	ASW-A1-155	25. Left Middle Inside Lane	ASW-A1-155
6.		26. Left Middle Outside Lane	ASW-A1-155
7. Tilt	ASW-A1-145	27. 'Y' Target	ASW-A10-48
8. Outhole	ASW-A1-143	28. Lower 'L' Target	ASW-A10-48
9.		29. Upper 'L' Target	ASW-A10-48
10.		30. 'A' Rollover	ASW-A1-155
11.		31. 'B' Rollover	ASW-A1-155
12.		32. Saucer	ASW-A1-187
13.		33. Drop Target Rebound	ASW-A10-51
14.		34. Right Outlane	ASW-A1-155
15.		35. Left Outlane	ASW-A1-155
16. Left Flipper Assy Sw.	ASW-A20-23	36. Right Slingshot	ASW-A10-47
17. Right Flipper Assy. Sw.	ASW-A20-23	37. Left Slingshot	ASW-A10-47
18. Top Lower Rollover Button	ASW-A1-162	38. Bottom Thumper Bumper	ASW-A110-5
19. Right Flipper Feeder Lane	ASW-A1-155	39. Right Thumper Bumper	ASW-A110-5
20. Left Flipper Feeder Lane	ASW-A1-155	40. Left Thumper Bumper	ASW-A110-5

SOLENOID AND COIL IDENTIFICATION NUMBERS

1. Outhole Kicker	AN-26-1200	7. Drop Target Reset	NO-26-1900
2. Knocker	AR-26-1200	8. Left Slingshot	AN-26-1200
3. Saucer	AO-27-1300	9. Right Slingshot	AN-26-1200
4. Left Thumper Bumper	AN-26-1200	10. Coin Lockout Door	FO-36-7000
5. Right Thumper Bumper	AN-26-1200	11. Flippers	AQ-25-500/34-4500
6. Bottom Thumper Bumper	AN-26-1200		

ASSEMBLY IDENTIFICATION NUMBERS PANEL BOTTOM PARTS

1. Saucer	ASE-428-44	6. Left Slingshot	ASE-2593-4
2. Left Thumper	AS-1567-13	7. Right Slingshot	ASE-2593-4
3. Right Thumper	AS-1567-13	8. Left Flipper	ASE-1587-101
4. Bottom Thumper	AS-1567-13	9. Right Flipper	ASE-1587-102
5. Drop Target	ASE-2795-46		

For assembly breakdown, see back of book.

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

KISS

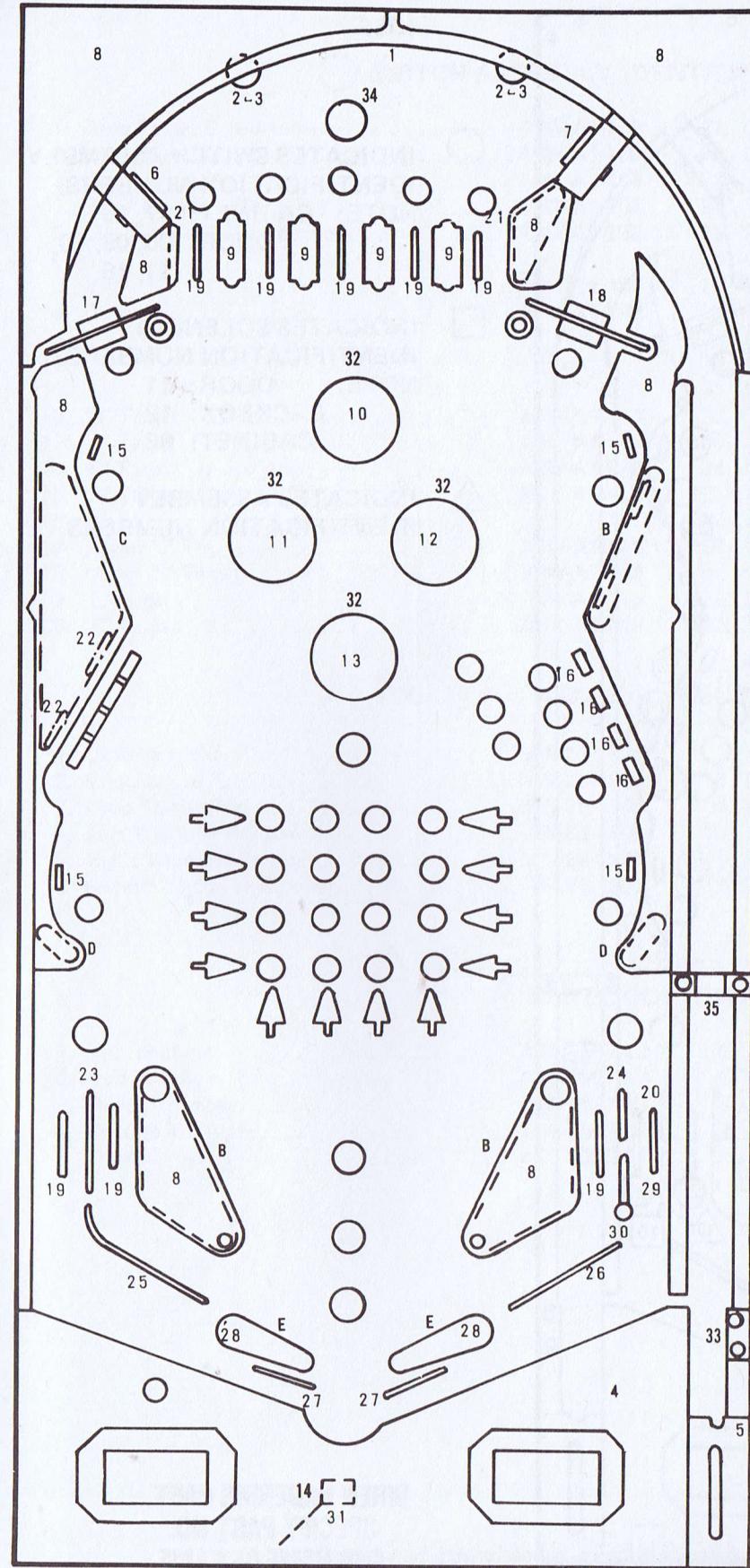


BACK GLASS
GT-408-41
(Sold to Germany only)

BACK GLASS
GT-408-37



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



RUBBER PARTS

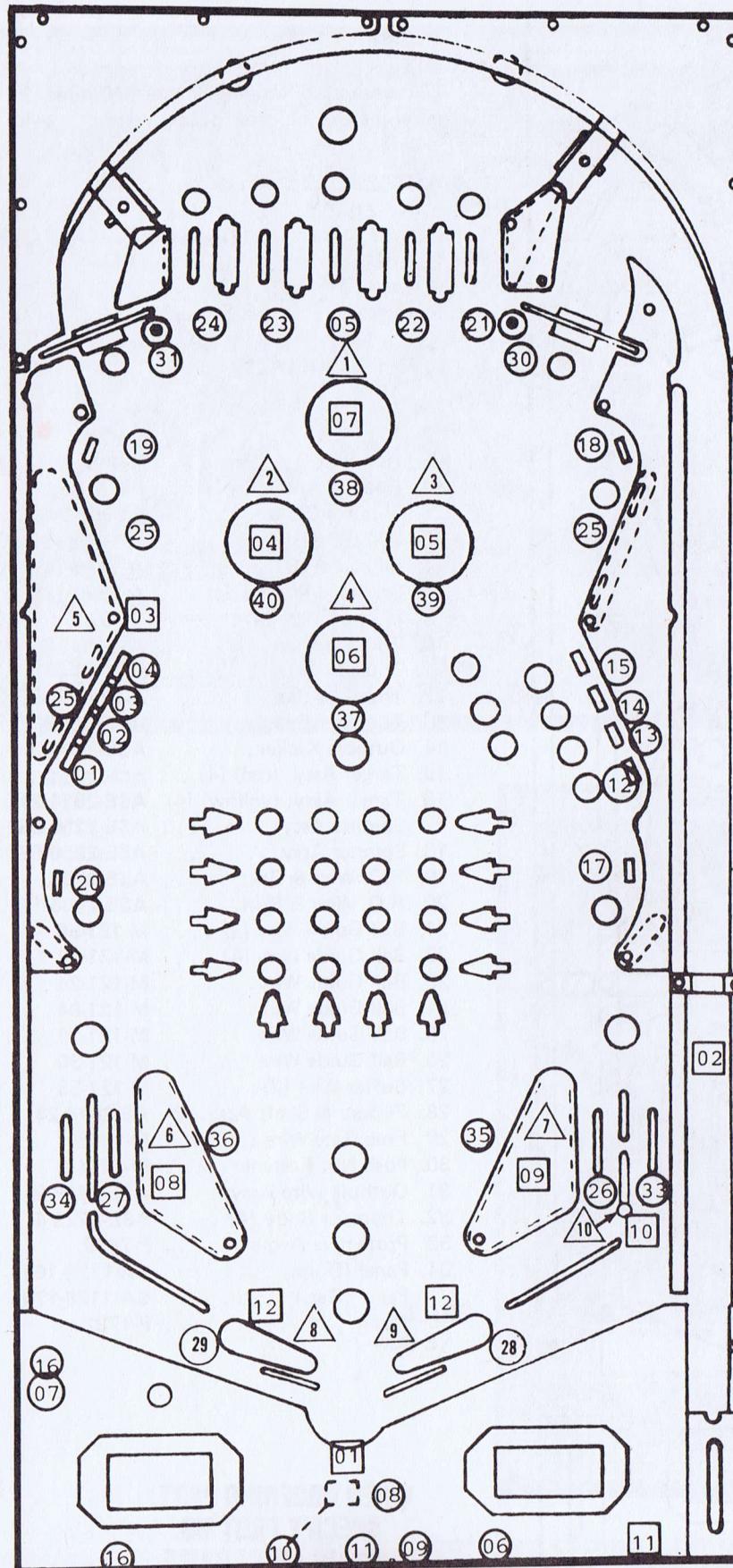
Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A. R-521-2	1-1/2" Dia.
B. R-521-4	2-1/2" Dia. (3)
C. R-521-9	5" Dia. (2)
D. R-521-1	1" Dia. (2)
E. R-406-3	Flipper (2)
F. R-243	5/16" Dia. (15)

PANEL TOP PARTS

1. Arch rail	M-1774
2. Rail Post (2)	C-907
3. Rail Post Cap (2)	C-908
4. Bottom Arch	P-5871-68
5. Shooter Gauge	P-6359-34
6. Ball Gate (L)	A-1475-15
7. Ball Gate (R)	A-1475-14
8. Screened Plastics Set	A-2890-135
9. Plastic Guide (4)	C-937-5
10. Thumper Cap	A-3713-46
11. Thumper Cap	A-3713-47
12. Thumper Cap	A-3713-48
13. Thumper Cap	A-3713-49
14. Outhole Kicker	ASE-2694-3
15. Target Assy. (red) (4)	ASE-2911-3
16. Target Assy. (yellow) (4)	ASE-2911-21
17. Spinner Assy.	ASE-2250-56
18. Spinner Assy.	ASE-2250-57
19. R.O. Wire & Brkt.	ASE-2806
20. R.O. Wire & Brkt.	ASE-2806-1
21. Ball Guide Wire (2)	M-121-56
22. Ball Guide Wire (4)	M-121-32
23. Ball Guide Wire	M-121-24
24. Ball Guide Wire	M-121-84
25. Ball Guide Wire	M-121-78
26. Ball Guide Wire	M-121-30
27. Buffer Wire (2)	M-121-53
28. Flipper & Shaft Assy. (2)	AS-2814-24
29. Free Gate Wire	M-1335
30. Push Nut Fastener	M-1314-1
31. Outhole Wire Assy.	ASE-2806-21
32. Thumper Body (4)	ASE-2222-4
33. Protective Angle	P-7639
34. Panel (Dom.)	CA-1128-168
Panel (Ger.)	CA-1128-170
35. Hood	P-1732

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



KISS

INDICATES SWITCH ASSEMBLY IDENTIFICATION NUMBERS.
NOTE: CABINET: 07, 16
DOOR: 06, 09, 10,
11, 16

INDICATES SOLENOID IDENTIFICATION NUMBERS.
NOTE: DOOR: 11
BACKBOX: 12
CABINET: 02

INDICATES ASSEMBLY IDENTIFICATION NUMBERS

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

SWITCH ASSEMBLY IDENTIFICATION NUMBERS

1. Drop Target D (Bottom) ASW-A1-168
2. Drop Target C ASW-A1-168
3. Drop Target B ASW-A1-168
4. Drop Target A (Top) ASW-A1-168
5. Lite-A-Line 5,000 Rollover ASW-A1-155
- 6.
7. Tilt ASW-A1-145
8. Outhole ASW-A1-143
- 9.
- 10.
- 11.
12. 'D' Target ASW-A10-48
13. 'C' Target ASW-A10-48
14. 'B' Target ASW-A10-48
15. 'A' Target ASW-A10-48
- 16.
17. Lower 'S' Target ASW-A10-48
18. Upper 'S' Target ASW-A10-48
19. 'I' Target ASW-A10-48
20. 'K' Target ASW-A10-48
21. Outer 'S' Rollover ASW-A1-155
22. Inner 'S' Rollover ASW-A1-155
23. 'I' Rollover ASW-A1-155
24. 'K' Rollover ASW-A1-155
25. Drop Target and 2 Rebs. ASW-A10-47
26. Right Flip/Feed Lane ASW-A10-155
27. Left Flip/Feed Lane ASW-A10-155
28. Right Flipper Assy. Switch ASW-A20-23
29. Left Flipper Assy. Switch ASW-A20-23
30. Right Spinner ASW-A1-151
31. Left Spinner ASW-A1-151
- 32.
33. Right Outlane ASW-A1-155
34. Left Outlane ASW-A1-155
35. Right Slingshot ASW-A10-47
36. Left Slingshot ASW-A10-47
37. Bottom Thumper Bumper ASW-A110-5
38. Top Thumper Bumper ASW-A110-5
39. Right Thumper Bumper ASW-A110-5
40. Left Thumper Bumper ASW-A110-5

SOLENOID AND COIL IDENTIFICATION NUMBERS

1. Outhole Kicker AN-26-1200
2. Knocker AR-26-1200
3. Drop Target Reset NO-26-1900
4. Left Thumper Bumper AN-26-1200
5. Right Thumper Bumper AN-26-1200
6. Bottom Thumper Bumper AN-26-1200
7. Top Thumper Bumper AN-26-1200
8. Left Slingshot AN-26-1200
9. Right Slingshot AN-26-1200
10. Right Bottom Gate GA-34-4000
11. Coin Lockout (Door) FO-36-7000
12. Flipper(s) AQ-25-500/34-4500

ASSEMBLY IDENTIFICATION NUMBERS PANEL BOTTOM PARTS

1. Top Thumper ASE-1567-13
2. Left Thumper ASE-1567-13
3. Right Thumper ASE-1567-13
4. Bottom Thumper ASE-1567-13
5. Drop Target ASE-2795-47
6. Left Slingshot ASE-2593-4
7. Right Slingshot ASE-2593-4
8. Left Flipper ASE-1587-101
9. Right Flipper ASE-1587-102
10. Free Ball Gate ASE-2308-22

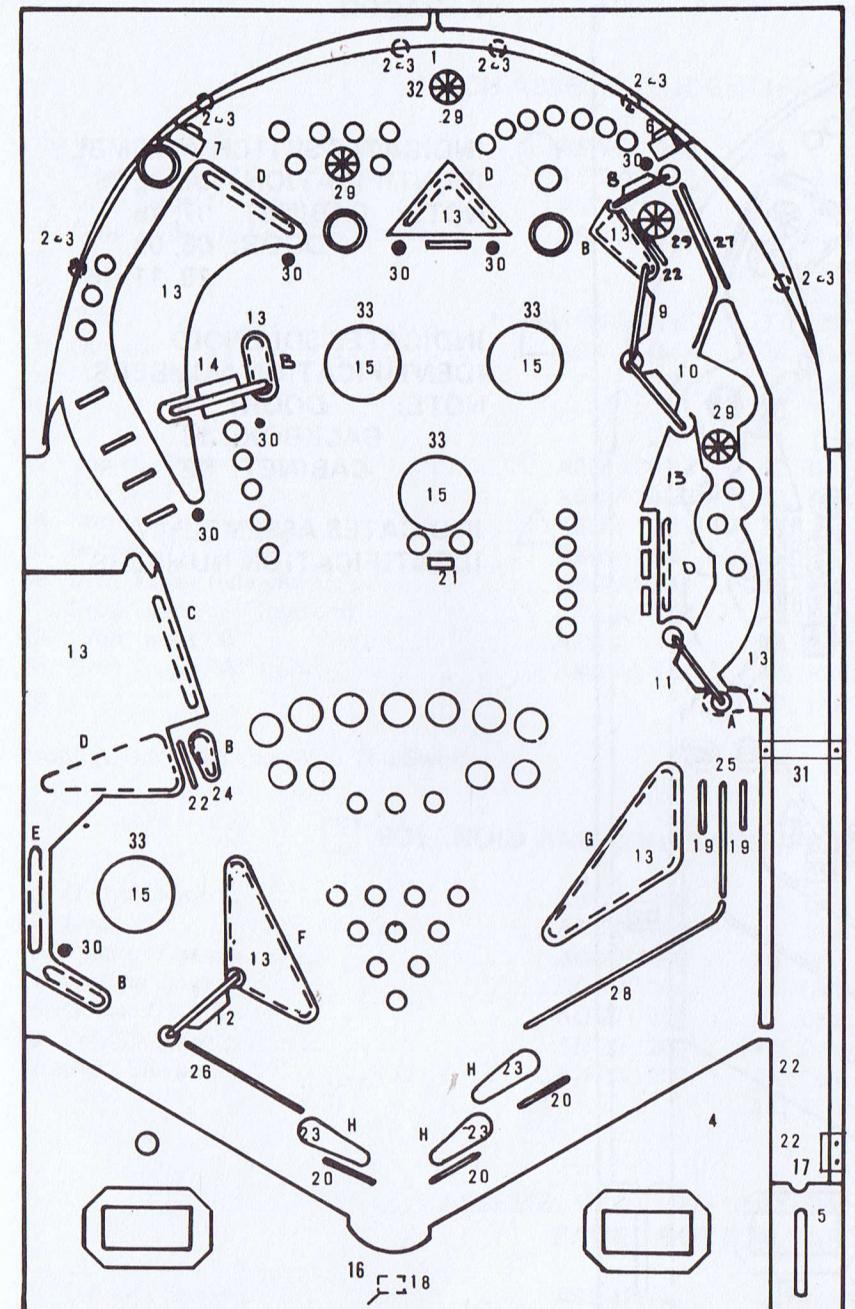
For assembly breakdown, see back of book.

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

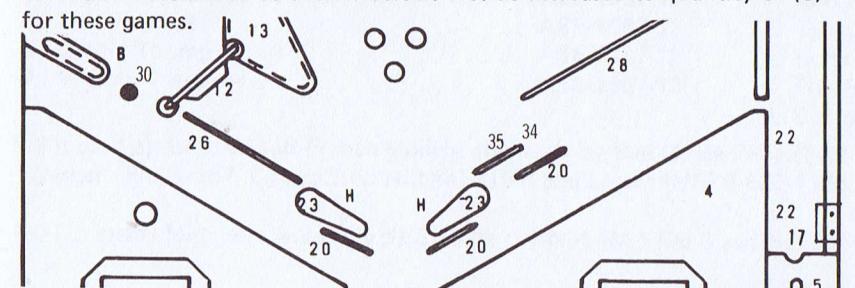
PARAGON



BACK GLASS
GT-408-44



◆23. Note: For Germany and France top Right Flipper eliminated. Wire form and Post added as shown below. No. 30 increased to quantity of (8) for these games.



RUBBER PARTS

Dimensions are inside diameters. Numbers in parentheses indicate quantity used, if in excess of one.

A. R-243	5/6" Dia.	(4)
B. R-521	3/4" Dia.	
C. R-521-1	1" Dia.	(5)
D. R-521-2	1-1/2" Dia.	
E. R-521-3	2" Dia.	(4)
F. R-521-4	2-1/2" Dia.	
G. R-521-5	3" Dia.	
H. R-521-6	3-1/2" Dia.	
I. R-406-3	Flippers*	(3)

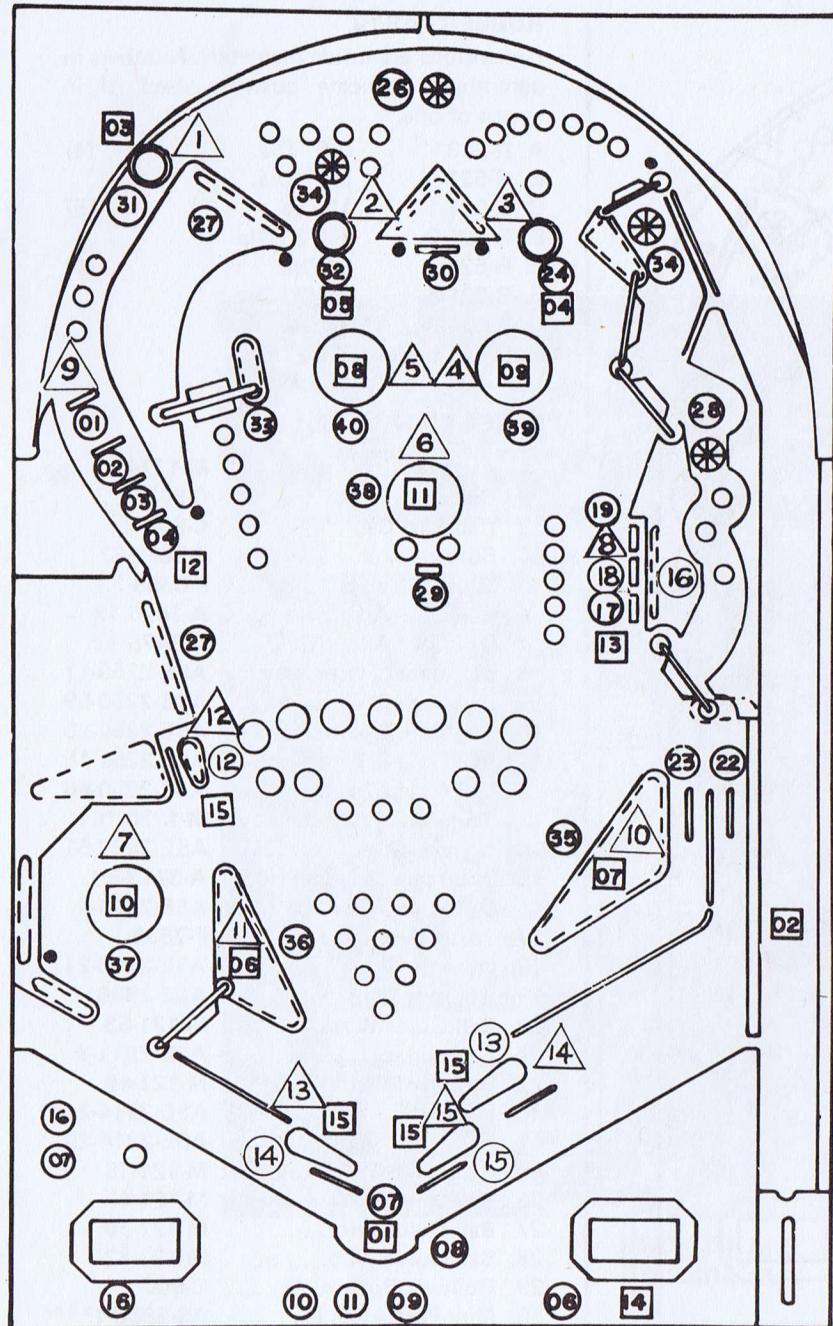
PANEL TOP PARTS

1. Arch Rail	M-1774
2. Rail Post	C-907
3. Rail Post Cap	C-908
4. Bottom Arch	P-5871-67
5. Shooter Gauge	P-6359-33
6. Ball Gate Assy. (R)	A-1475-13
7. Ball Gate Assy. (L)	A-1475-12
8. Ball Gate & Wire Assy.	ASE-2250-11
9. Ball Gate & Wire Assy.	ASE-2250-59
10. Ball Gate & Wire Assy.	ASE-2250-25
11. Ball Gate & Wire Assy.	ASE-2250-18
12. Ball Gate & Wire Assy.	ASE-2250-60
13. Screened Plastic Set	M-1330-161
14. Spinner Gate Assy. (L)	ASE-2250-51
15. Thumper Cap Assy. (4)	A-3713-50
16. Outhole Kicker	ASE-2694-3
17. Protective Angle	P-7639
18. Outhole Wire	ASE-2806-21
19. Rollover Wire	ASE-2806
20. Ball Guide Wire.	M-121-53
21. Target Assy.	ASE-2911-3
22. Ball Guide Wire (4)	M-121-46
◆23. Flipper & Shaft Assy. (3)	ASE-2214-24**
24. Flipper & Shaft Assy.	ASE-2214-25
25. Ball Guide Wire.	M-121-18
26. Ball Guide Wire.	M-121-47
27. Ball Guide Wire.	M-121-30
28. Ball Guide Wire.	M-121-83
29. Rollover Button (4)	C-900
30. Mini-Post Assy. (7)	AS-2836-1***
31. Hood	P-1732
32. Panel	CA-1226-1
33. Thumper Body (4)	ASE-2222-4
34. Post	C-951-7
35. Ball Guide Wire.	M-121-29

Note(s):

- * = 2 on German and French Models
- ** = 2 on German and French Models
- *** = 8 on German and French Models
- Post installed into vacant Flipper shaft thru hole.

PARAGON



PARAGON

- INDICATES SWITCH ASSEMBLY IDENTIFICATION NUMBERS.
NOTE: CABINET: 07, 16
DOOR: 06, 09,
10, 11, 16
 - INDICATES SOLENOID IDENTIFICATION NUMBERS.
NOTE: DOOR: 14
BACKBOX: 15
CABINET: 02
 - INDICATES ASSEMBLY IDENTIFICATION NUMBERS

SWITCH ASSEMBLY IDENTIFICATION NUMBERS

- | | | |
|-----|--|------------|
| 1. | Drop target (In Line) "D" (top) | ASW-A1-168 |
| 2. | Drop Target (In Line) "C" | ASW-A1-168 |
| 3. | Drop Target (In Line) "B" | ASW-A1-168 |
| 4. | Drop Target (In Line) "A" (bottom) | ASW-A1-168 |
| 5. | | |
| 6. | | |
| 7. | Tilt | ASW-A1-145 |
| 8. | Outhole | ASW-A1-143 |
| 9. | | |
| 10. | | |
| 11. | | |
| 12. | Top (L) Flipper | ASW-A20-23 |
| 13. | Top (R) Flipper | ASW-A20-23 |
| 14. | Bottom (L) Flipper* | ASW-A10-45 |
| 15. | Bottom (R) Flipper* | ASW-A10-45 |
| 16. | Drop Target Rebound | ASW-A10-47 |
| 17. | Drop Target "C" (bottom) | ASW-A1-168 |
| 18. | Drop Target "B" | ASW-A1-168 |
| 19. | Drop Target "A" (top) | ASW-A1-168 |
| 20. | | |
| 21. | | |
| 22. | Right Outlane | ASW-A1-155 |
| 23. | Right Flipper Feeder Lane | ASW-A1-155 |
| 24. | Paragon Saucer | ASW-A1-153 |
| 25. | Golden Cliffs Rollover | ASW-A10-47 |
| 26. | Top Center Rollover Button | ASW-A1-162 |
| 27. | 500 Point Rebound (2) | ASW-A10-47 |
| 28. | Waterfall Rollover Button | ASW-A1-162 |
| 29. | Center Target | ASW-A1-168 |
| 30. | Top Center Target | ASW-A1-158 |
| 31. | Treasure Chamber Saucer | ASW-A1-153 |
| 32. | Golden Cliffs Saucer | ASW-A1-153 |
| 33. | Spinner | ASW-A1-151 |
| 34. | Top Right | ASW-A10-47 |
| 35. | Right Slingshot | ASW-A10-47 |
| 36. | Left Slingshot | ASW-A10-47 |
| 37. | Bottom Thumper Bumper | ASW-A110-5 |
| 38. | Center Thumper Bumper | ASW-A110-5 |
| 39. | Right Thumper Bumper | ASW-A110-5 |
| 40. | Left Thumper Bumper | ASW-A110-5 |

* ASW-A20-23 Also Used With This Switch

SOLENOID AND COIL IDENTIFICATION NUMBERS

- | | | | |
|--------------------------------------|------------|-------------------------------------|------------|
| 1. Outhole Kicker | AN-26-1200 | 8. Left Thumper Bumper | AN-26-1200 |
| 2. Knocker | AR-26-1200 | 9. Right Thumper Bumper | AN-26-1200 |
| 3. Treasure Chamber Saucer | AO-27-1300 | 10. Bottom Thumper Bumper | AN-26-1200 |
| 4. Paragon Saucer | AO-27-1300 | 11. Center Thumper Bumper | AN-26-1200 |
| 5. Golden Cliffs Saucer | AO-27-1300 | 12. Drop Target (In Line) | NO-26-1900 |
| 6. Left Slingshot. | AN-26-1200 | 13. Drop Target | NO-26-1900 |
| 7. Right Slingshot. | AN-26-1200 | 14. Coin Lockout (Door) | FO-36-7000 |

**△ ASSEMBLY IDENTIFICATION NUMBERS
PANEL BOTTOM PARTS**

- | | | | |
|------------------------------|-------------|-----------------------------------|--------------|
| 1. Top Left Saucer | ASE-428-44 | 8. Drop Target | ASE-2795-30 |
| 2. Left Saucer | ASE-428-44 | 9. In-Line Drop Target. | ASE-2993 |
| 3. Right Saucer | ASE-428-41 | 10. Right Slingshot | ASE-2593-4 |
| 4. Right Thumper. | ASE-1567-13 | 11. Left Slingshot. | ASE-2593-4 |
| 5. Left Thumper. | ASE-1567-13 | 12. Top Left Flipper | ASE-1587-109 |
| 6. Center Thumper | ASE-1567-13 | 13. Bottom Left Flipper | ASE-1587-101 |
| 7. Bottom Thumper | ASE-1567-13 | 14. Top Right Flipper* | ASE-1587-110 |

*Not used on German and French Models. Replaced by Ball Guide #M-121-29 (2-9/16") and Post #C-951-7, Washer #PW-600-1112, Washer #P-801-107, Elastic Stop Nut #M-319-6 and Screw #MSPR-632-1128.

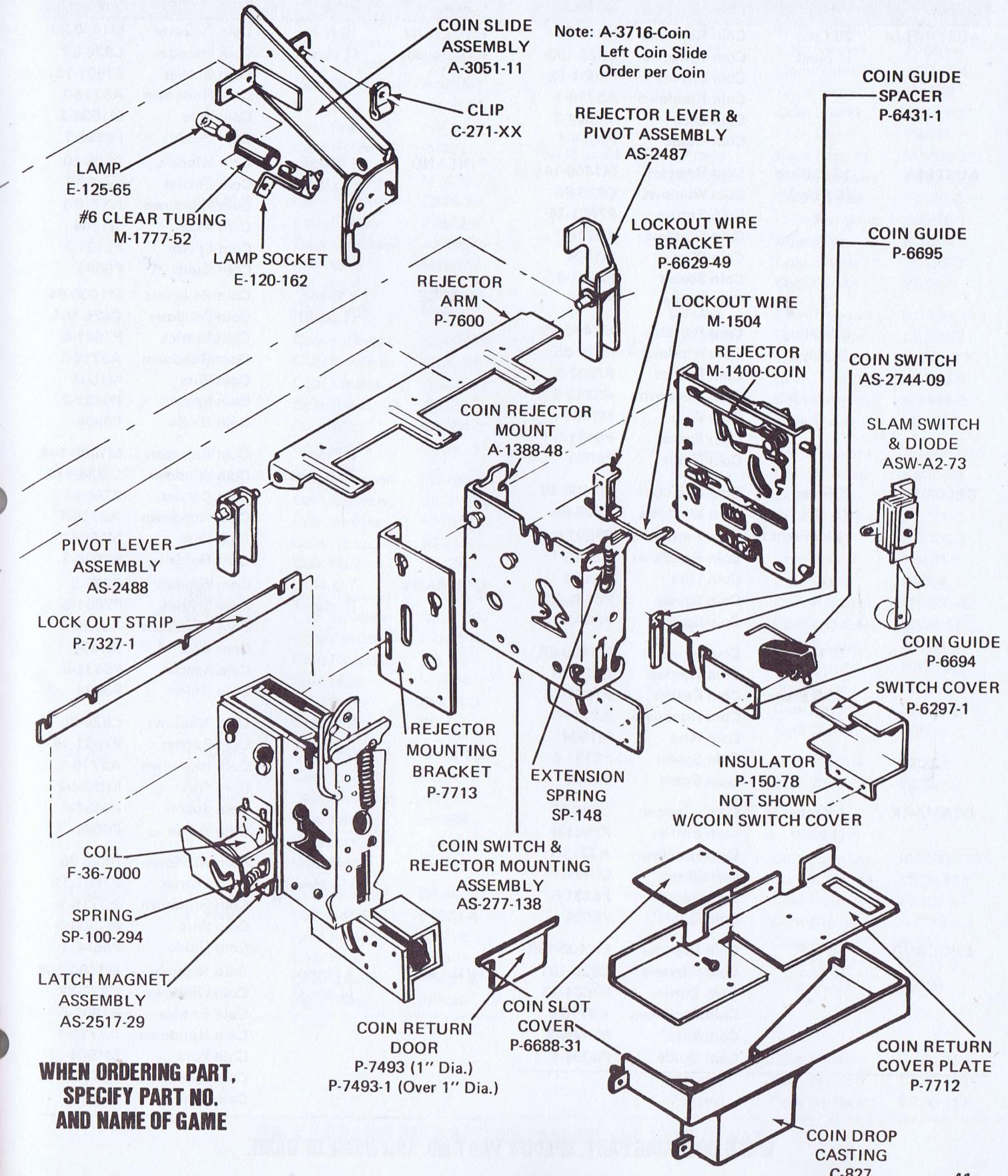
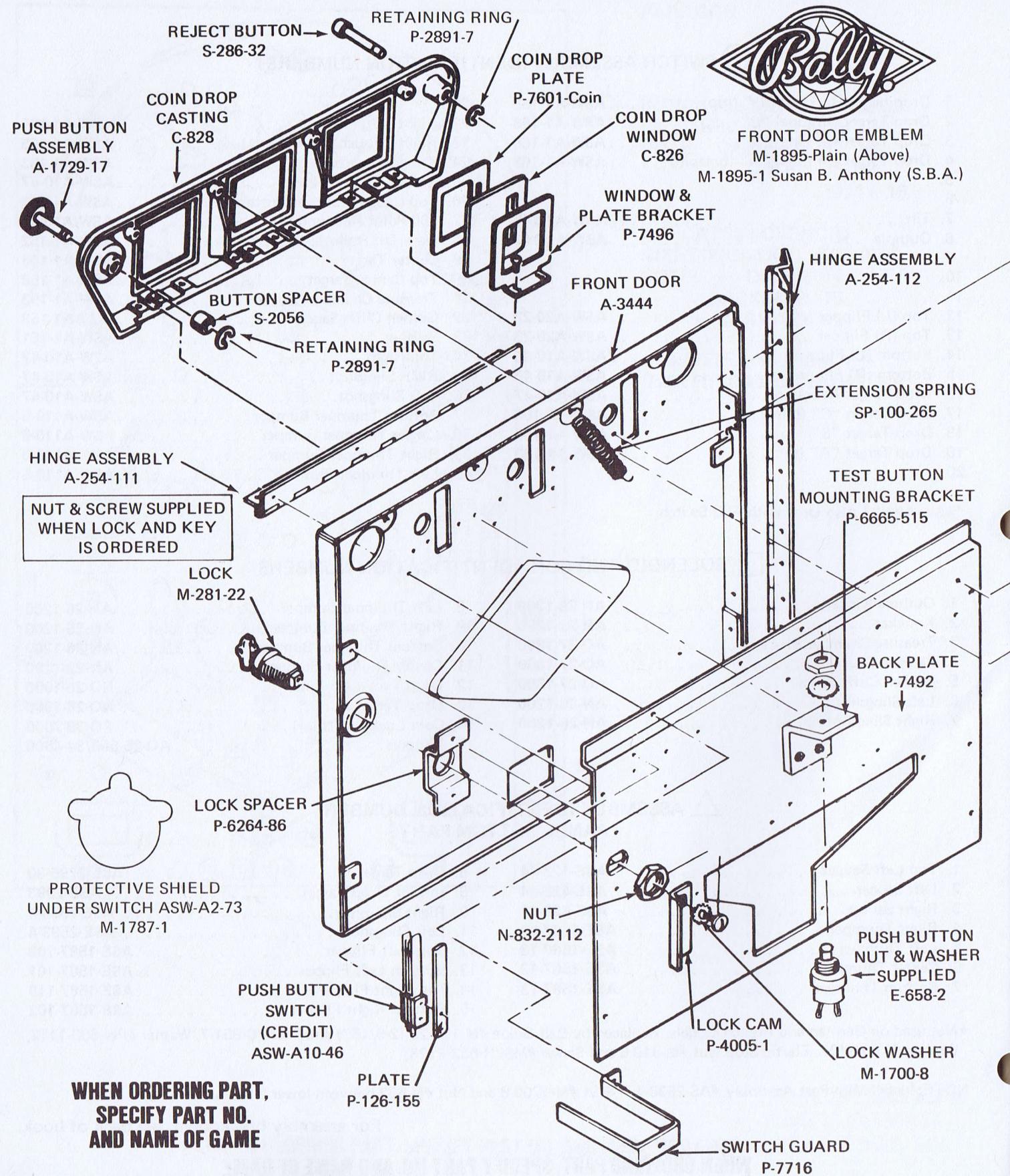
NOTE: Install Mini-Post Assembly #AS-2836-1, T-Nut #M-1700-8 and Nut #N-632 between lower left plastic and gate post.

For assembly breakdown see back of book

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

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

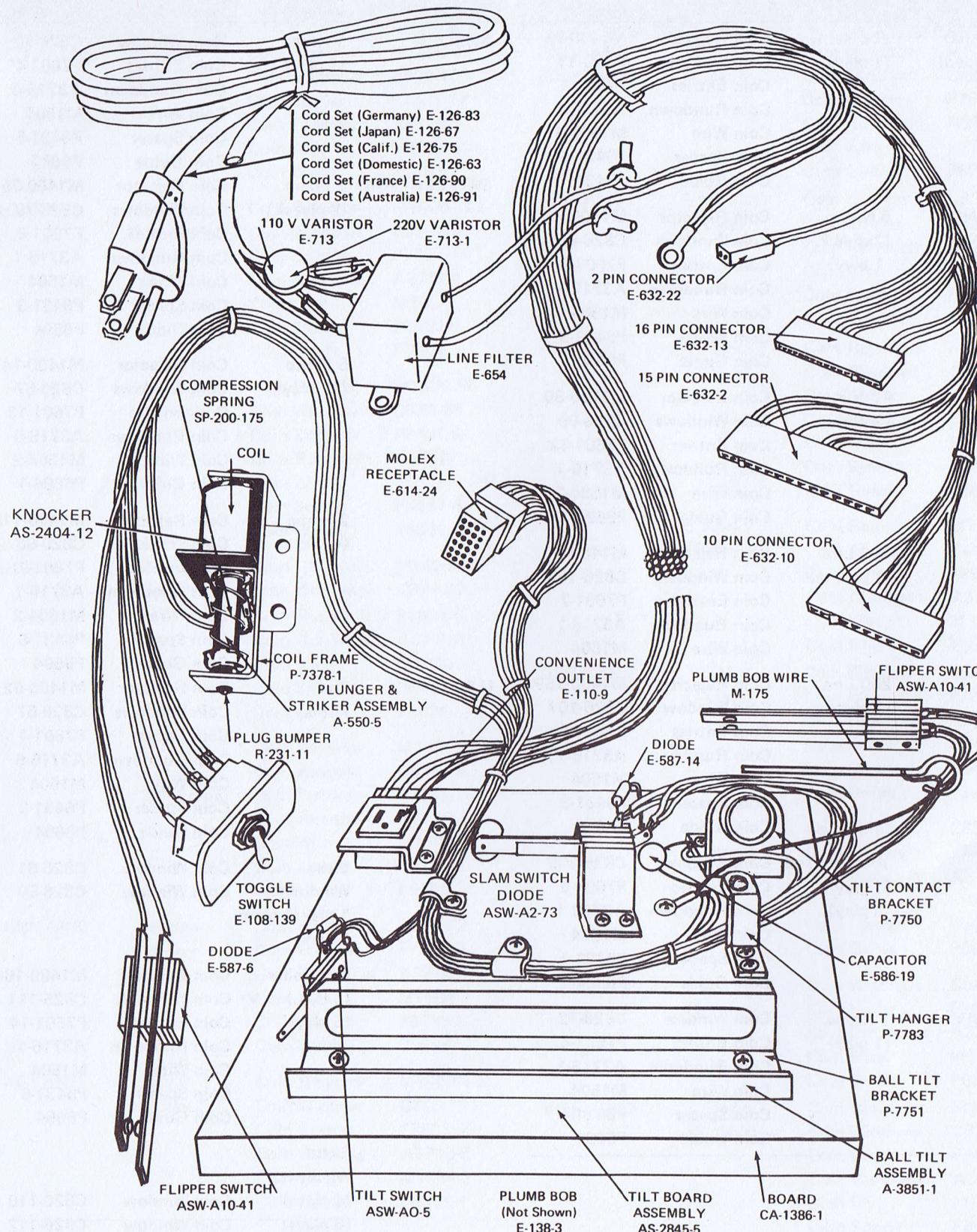
FRONT DOOR ASSEMBLY ASB-2600-9XX



COIN HANDLING

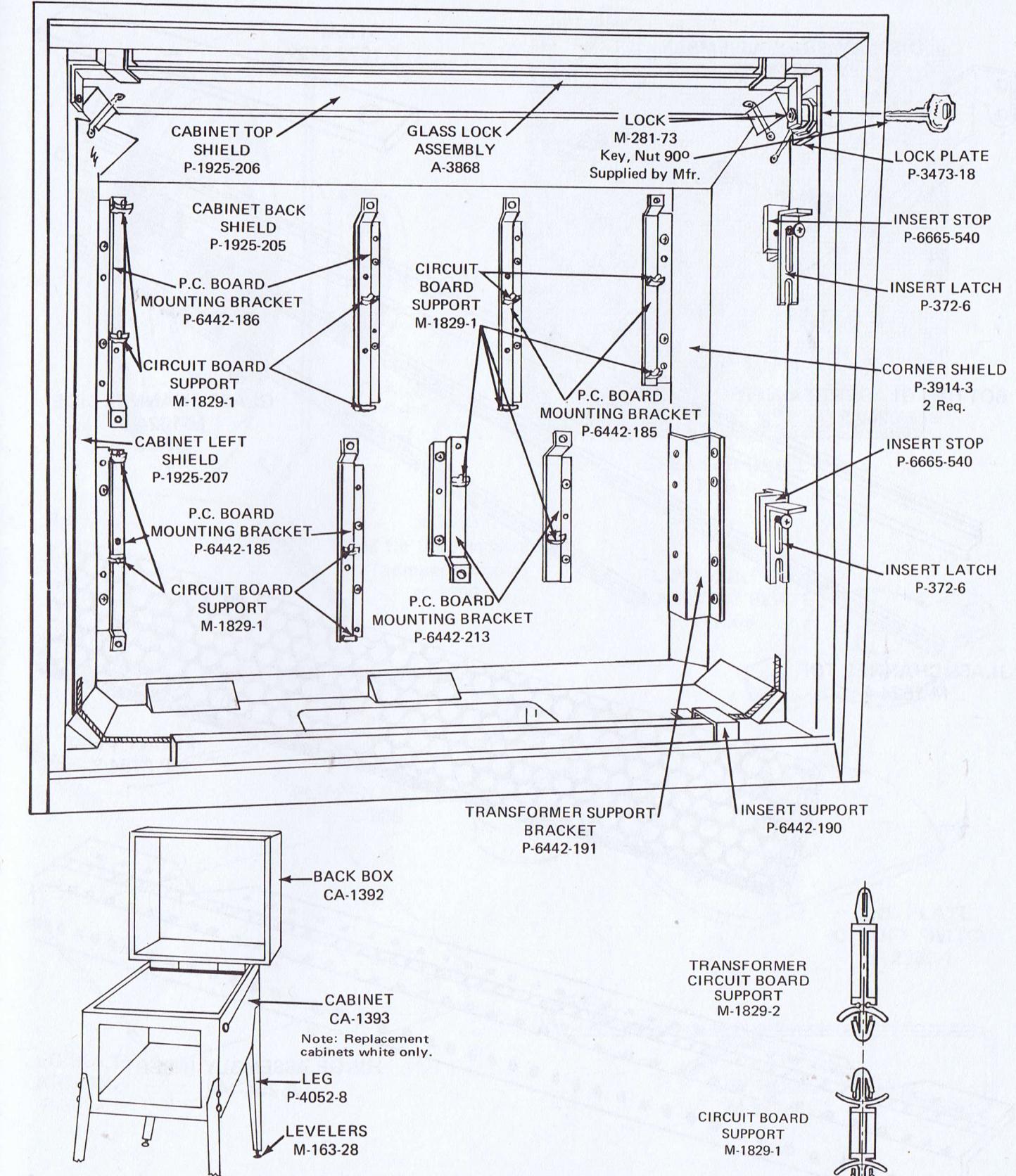
Country	Coin Value	Required Parts	Part Numbers	Country	Coin Value	Required Parts	Part Numbers
AUSTRALIA	20 Cent (1 play)	Coin Rejectors	M1400-44	ENGLAND (Continued)	10 N.P. (1 play)	Coin Rejector	M1400-80
		Coin Windows	C826-103			Coin Window	C826-99
		Coin Entries	P7601-12			Coin Entries	P7601-12
		Coin Rundown	A3716-1			Coin Rundown	A3716-1
		Coin Wire	M1504-2			Coin Wire	M1504-2
		Coin Guide	P6694-1			Coin Guide	P6694-1
AUSTRIA	10 Shilling (6 plays)	Coin Rejector	M1400-141	FINLAND	1 Markka (1 play)	Coin Window	C826-40
		Coin Windows	C826-86			Coin Entries	P7601-6
		Coin Entries	P7601-14			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504
		Coin Wire	M1504			Coin Spacer	P6431-3
		Coin Spacer	P6431-6			Coin Guide	P6694
BELGIUM	5 Shilling (3 plays)	Coin Rejector	M1400-39	FRANCE	1 Franc (1 parti)	Coin Rejectors	M1400-84
		Coin Windows	C826-85			Coin Windows	C826-104
		Coin Entries	P7601-6			Coin Entries	P7601-6
		Coin Rundown	A3716-1			Coin Rundown	A3716-1
		Coin Wire	M1504			Coin Wire	M1504
		Coin Spacer	P6431-3			Coin Spacer	P6431-3
DENMARK	10 Franc (1 play 2x5 Franc)	Coin Guide	P6694	GERMANY	5 Franc (6 parties)	Coin Rejectors	M1400-148
		Coin Rejectors	M1400-10			Coin Windows	C826-116
		Coin Windows	C826-89			Coin Entries	P7601-12
		Coin Entries	P7601-6			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504-2
		Coin Wire	M1504			Coin Guide	P6694-1
ENGLAND	50 N.P. (5 plays)	Coin Spacer	P6431-3	HOLLAND	1 D.M. (2 plays)	Coin Window	C826-5
		Coin Guide	P6694			Coin Entries	P7601-5
		Coin Rejector	M1400-52			Coin Rundown	A3716-3
		Coin Window	C826-88			Coin Wire	M1404
		Coin Entries	P7601-14			Coin Spacer	P6431-3
		Coin Rundown	A3716-1			Coin Guide	P6694
NORWAY	1 Krone (1 play)	Coin Wire	M1504	HOLLAND	2 D.M. (5 plays)	Coin Windows	C826-20
		Coin Spacer	P6431-6			Coin Entries	P7601-14
		Coin Guide	P6694			Coin Rundown	A3716-1
		Coin Window	C826-72			Coin Wire	M1504-2
		Coin Entries	P7601-9			Coin Spacer	P6431-6
		Coin Rundown	A3716-1			Coin Guide	P6694
SWEDEN	1 Krona (1 play)	Coin Wire	M1504	IRELAND	5 D.M. (14 plays)	Coin Windows	C826-98
		Coin Spacer	P6431-6			Coin Entries	P7601-12
		Coin Guide	P6694			Coin Rundown	A3716-1
		Coin Rejector	M1400-130			Coin Wire	M1504-3
		Coin Window	C826-101			Coin Guide	P6694-1
		Coin Entries	P7601-13			Coin Rejector	M1400-106
SWITZERLAND	1 Krona (1 play)	Coin Rundown	A3716-5	ITALY	1 Florin (4 plays)	Coin Windows	C826-33
		Coin Wire	M1504-2			Coin Entries	P7601-4
		Coin Guide	P6694-1			Coin Rundown	A3716-1
		Coin Rejectors	M1400-44			Coin Wire	M1504
		Coin Windows	C826-113			Coin Spacer	P6431-5
		Coin Entries	P7601-12			Coin Guide	P6694
SWITZERLAND	1 Franc (2 plays)	Coin Guide	P6694-1	JAPAN	100 Lire (1 partita)	Coin Rejectors	M1400-66
		Coin Rejector	M1400-80			Coin Windows	C826-108
		Coin Windows	C826-99			Coin Entries	P7601-7
		Coin Entries	P7601-12			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504-2
		Coin Wire	M1504			Coin Guide	P6694-1
SWITZERLAND	5 Franc (12 plays)	Coin Guide	P6694-1	ITALY	200 Lire (2 partita)	Coin Rejector	M1400-159
		Coin Rejector	M1400-80			Coin Windows	C826-107
		Coin Windows	C826-99			Coin Entries	P7601-4
		Coin Entries	P7601-12			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504
		Coin Wire	M1504-2			Coin Spacer	P6431-3
SWITZERLAND	2 Franc (4 plays)	Coin Guide	P6694-1	JAPAN	100/200 Yen (1 play/ 3 play)	Coin Guide	P6694
		Coin Rejector	M1400-110			Coin Windows	C826-80
		Coin Windows	C826-89			Coin Entries	P7601-7
		Coin Entries	P7601-12			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504-2
		Coin Wire	M1504			Coin Spacer	P6431-6
SWITZERLAND	25¢ (1 play)	Coin Guide	P6694	ITALY	200 Lire (2 partita)	Coin Rejector	M1400-62
		Coin Rejector	M1400-62			Coin Windows	C826-57
		Coin Windows	C826-57			Coin Entries	P7601-4
		Coin Entries	P7601-13			Coin Rundown	A3716-6
		Coin Rundown	A3716-6			Coin Wire	M1504
		Coin Wire	M1504			Coin Spacer	P6431-3
SWITZERLAND	1 play/3 plays 2 plays	Coin Guide	P6694	JAPAN	100/200 Yen (1 play/ 3 play)	Coin Guide	P6694
		Coin Rejector	M1400-62			Coin Windows	C826-61
		Coin Windows	C826-50			Coin Entries	P7601-5
		Coin Entries	P7601-5			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504
		Coin Wire	M1504			Coin Spacer	P6431-1
SWITZERLAND	One dollar (S.B.A.) (5 plays)	Coin Guide	P6694	ITALY	100/200 Yen (1 play/ 3 play)	Coin Guide	P6694
		Coin Rejector	M1400-166			Coin Windows	C826-111
		Coin Windows	C826-111			Coin Entries	P7601-4
		Coin Entries	P7601-4			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504
		Coin Wire	M1504			Coin Spacer	P6431-6
SWITZERLAND	Extra Windows: (4 plays) (6 plays) (7 plays)	Coin Guide	P6694	JAPAN	100/200 Yen (1 play/ 3 play)	Coin Guide	P6694
		Coin Rejector	M1400-166			Coin Windows	C826-110
		Coin Windows	C826-110			Coin Entries	P7601-4
		Coin Entries	P7601-4			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504
		Coin Wire	M1504			Coin Spacer	P6431-6
SWITZERLAND	Extra Windows: (4 plays) (6 plays) (7 plays)	Coin Guide	P6694	ITALY	100/200 Yen (1 play/ 3 play)	Coin Guide	P6694
		Coin Rejector	M1400-166			Coin Windows	C826-112
		Coin Windows	C826-112			Coin Entries	P7601-4
		Coin Entries	P7601-4			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504
		Coin Wire	M1504			Coin Spacer	P6431-6
SWITZERLAND	Extra Windows: (4 plays) (6 plays) (7 plays)	Coin Guide	P6694	JAPAN	100/200 Yen (1 play/ 3 play)	Coin Guide	P6694
		Coin Rejector	M1400-166			Coin Windows	C826-113
		Coin Windows	C826-113			Coin Entries	P7601-4
		Coin Entries	P7601-4			Coin Rundown	A3716-1
		Coin Rundown	A3716-1			Coin Wire	M1504
		Coin Wire	M1504			Coin Spacer	P6431-6

CABINET PARTS



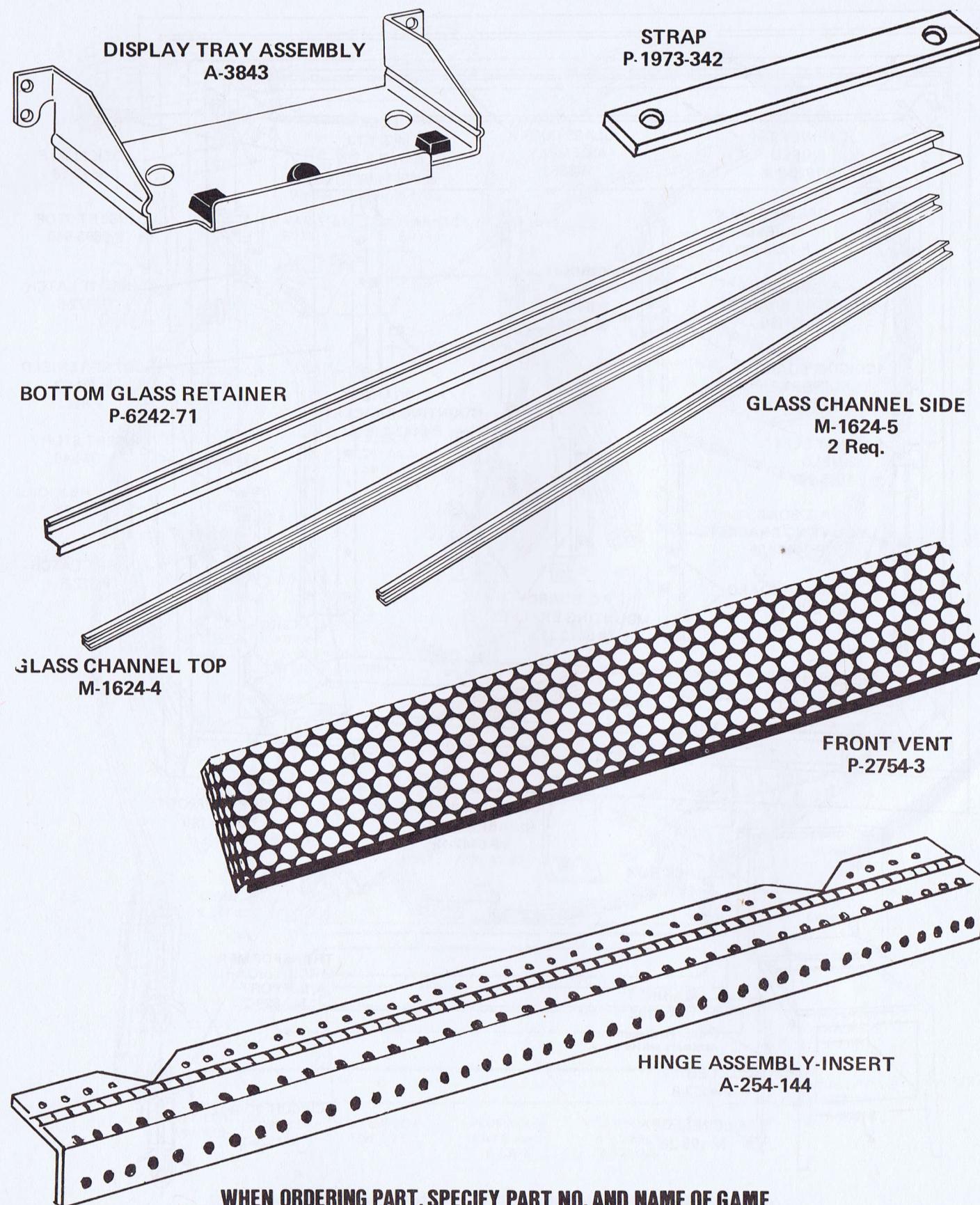
WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

CABINET PARTS



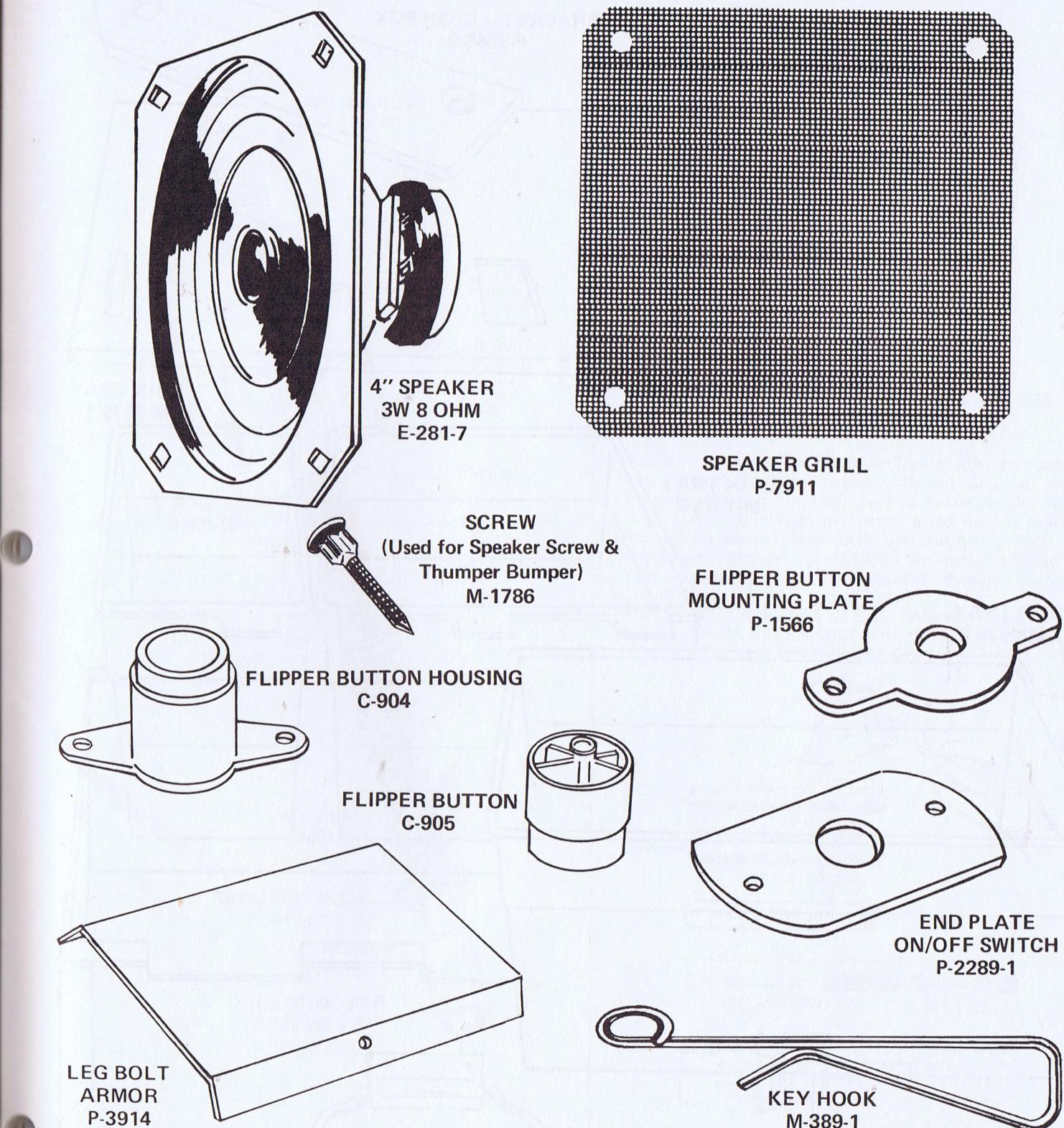
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CABINET PARTS



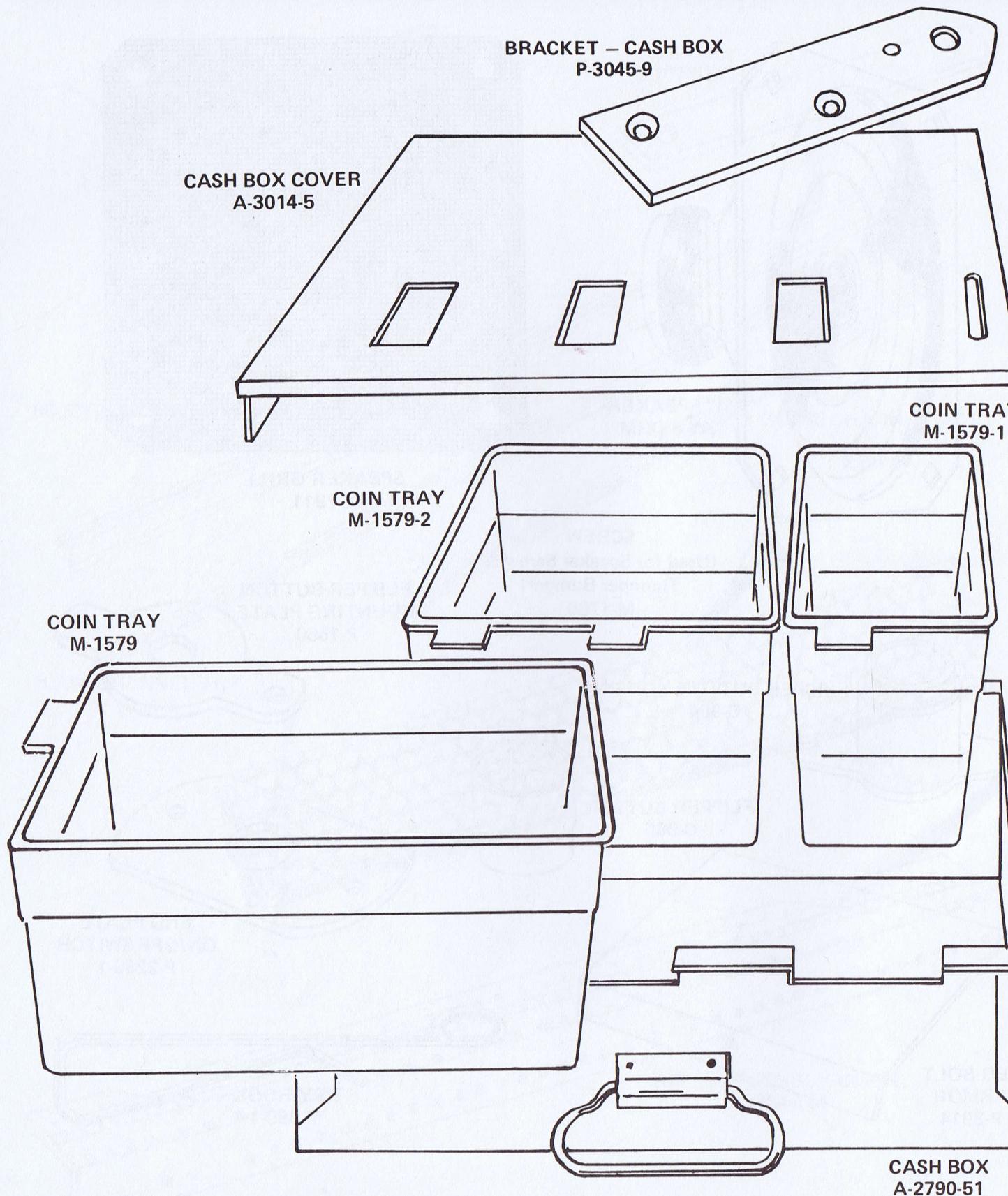
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CABINET PARTS



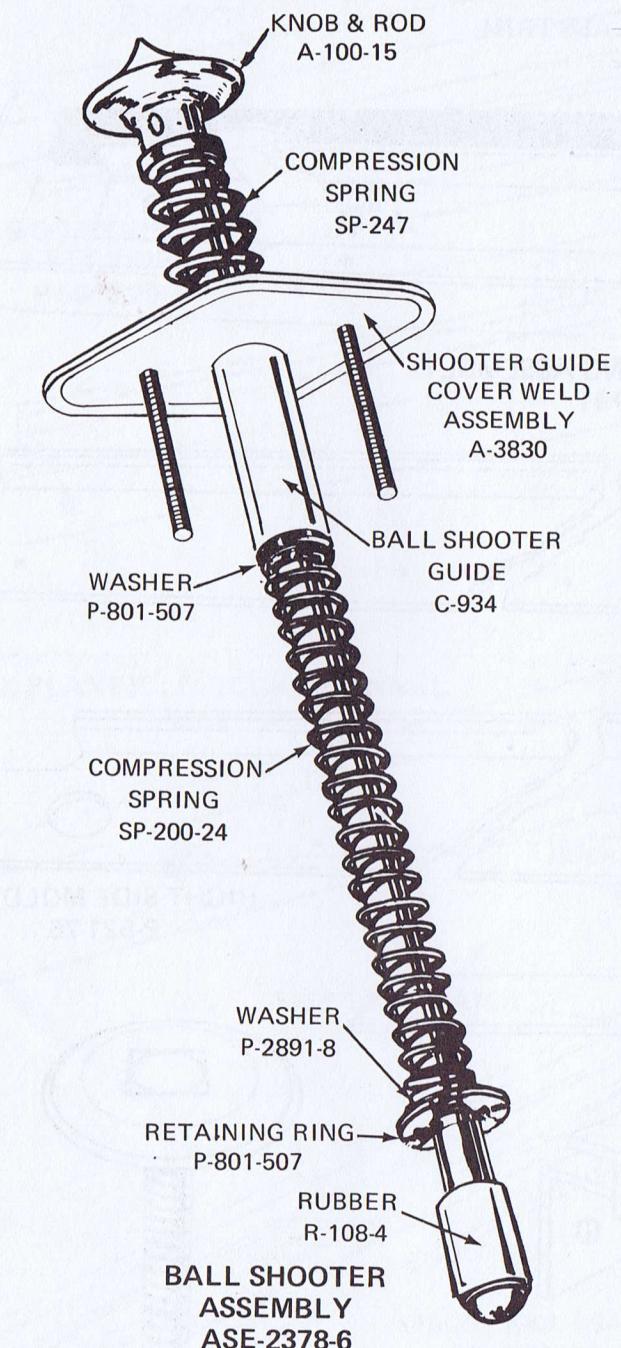
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CABINET PARTS

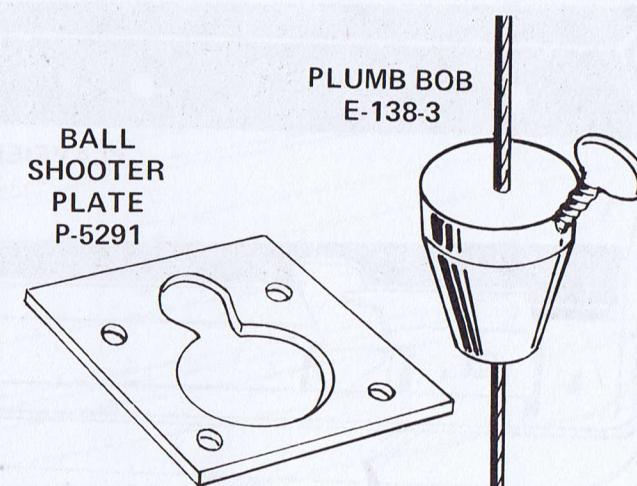


WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

CABINET PARTS



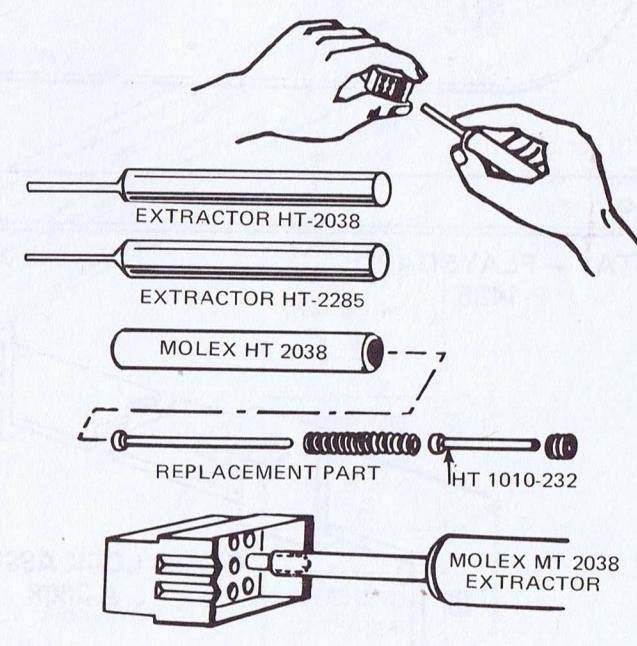
WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME



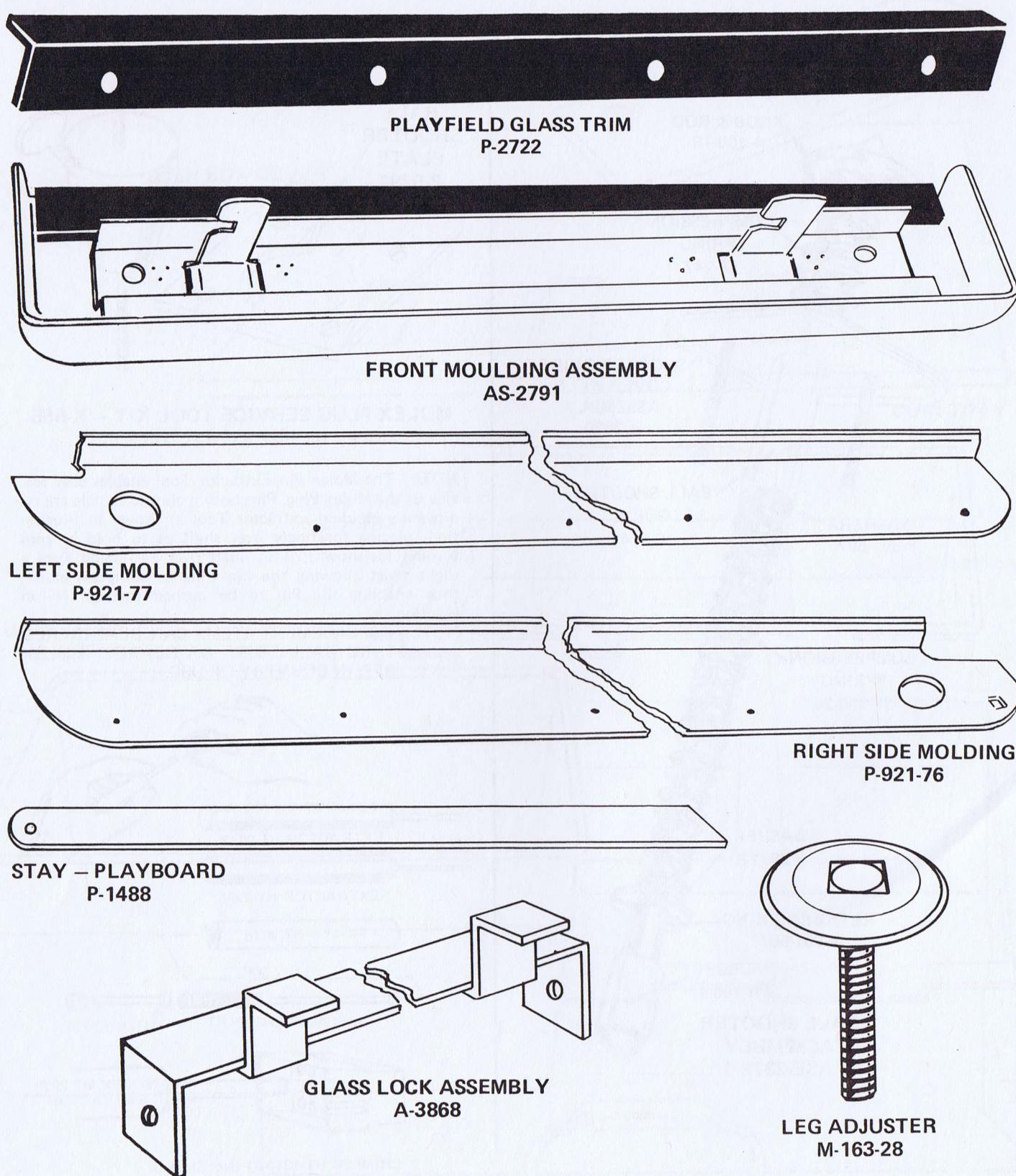
MOLEX PLUG SERVICE TOOL KIT - K-555
MOLEX HT 2038 EXTRACTOR & PIN

NOTE: The Molex Pin Extractor Tool enables easy service of the Molex Plug. Pins both male and female are removable. Holding Extractor Tool as shown in Illustration, placing forefinger over shaft as to hold it from turning (as shown), push Shaft over Pin giving Tool a slight twist allowing the Pin Fins to compress easily, thus enabling the Pin to be pushed through Nylon Housing.

NOTE: REPLACEMENT ITEMS CAN BE ORDERED THRU BALLY DIST. OR NEAREST MOLEX REP. IN COUNTRY OF USE.

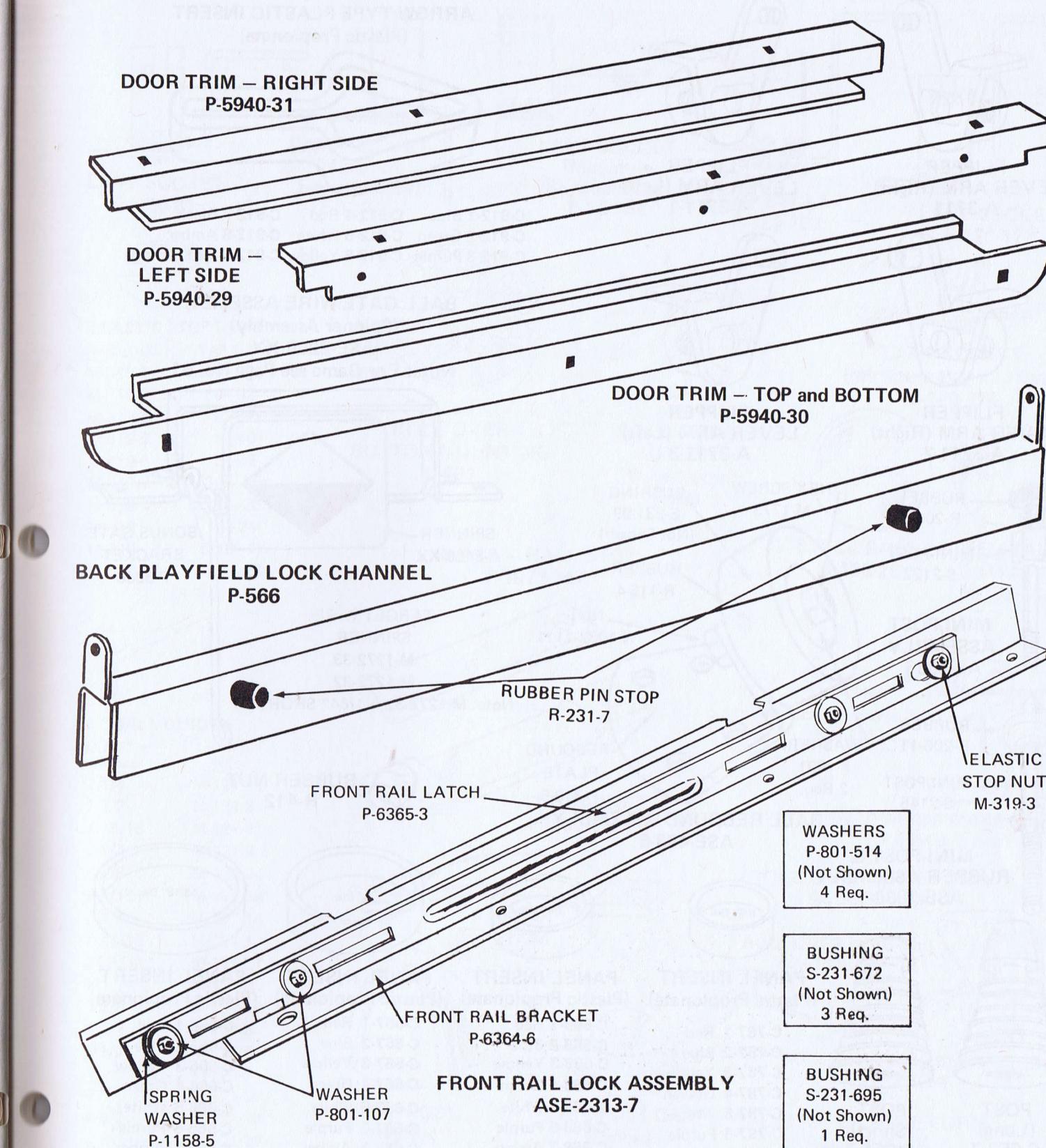


CABINET PARTS



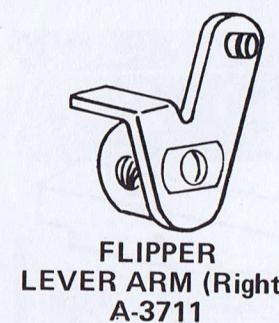
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CABINET PARTS

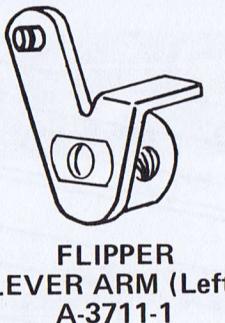


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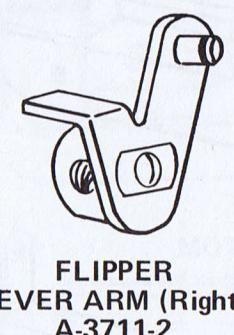
PANEL PARTS



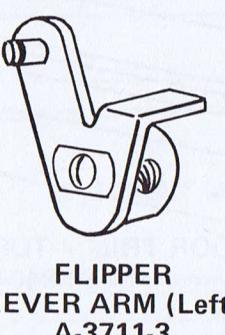
FLIPPER
LEVER ARM (Right)
A-3711



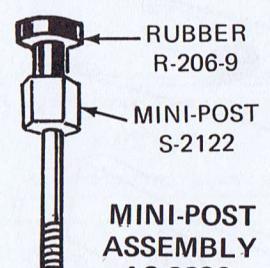
FLIPPER
LEVER ARM (Left)
A-3711-1



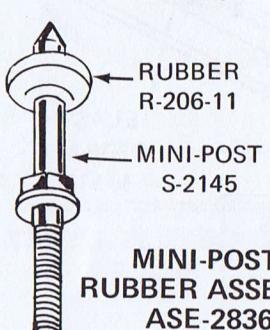
FLIPPER
LEVER ARM (Right)
A-3711-2



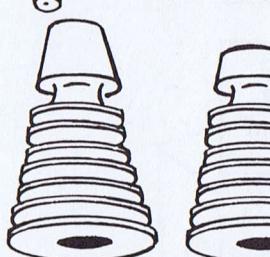
FLIPPER
LEVER ARM (Left)
A-3711-3



RUBBER
R-206-9
MINI-POST
S-2122
MINI-POST
ASSEMBLY
AS-2836



RUBBER
R-206-11
MINI-POST
S-2145
MINI-POST &
RUBBER ASSEMBLY
ASE-2836-1

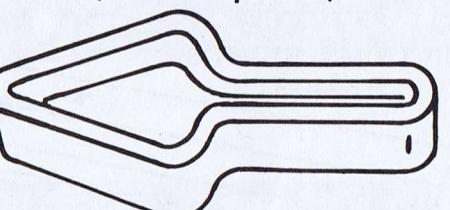


POST
(Long)
C-952-7



POST
(Short)
C-951-7

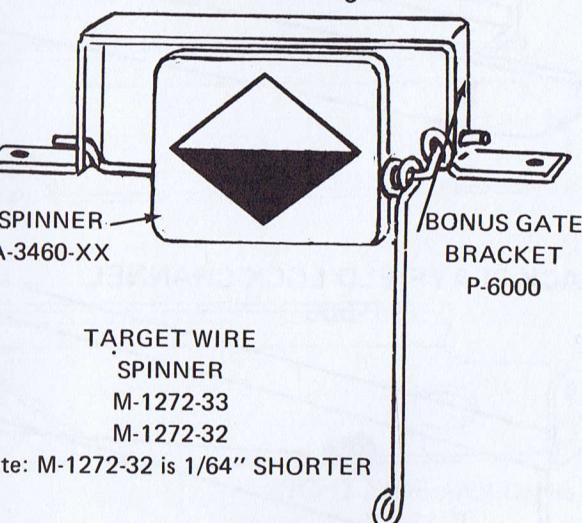
ARROW TYPE PLASTIC INSERT
(Plastic Propionate)



C-912-1 Blue C-912-4 Red C-912-7 Black
C-912-2 Green C-912-5 White C-912-8 Amber
C-912-3 Purple C-912-6 Yellow C-912-9 Red (Transl)

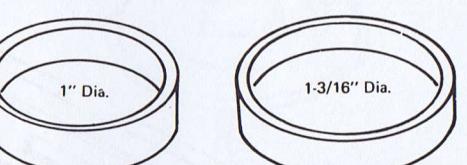
BALL GATE WIRE ASSEMBLY
(Spinner Assembly)
ASE-2250-XX

Note: For Game see Page No. 61



Note: M-1272-32 is 1/64" SHORTER

RUBBER NUT
R-412



PANEL INSERT
(Plastic Propionate)

C-787-1 Red
C-787-2 Blue
C-787-3 Yellow
C-787-4 Green
C-787-5 White
C-787-6 Purple
C-787-7 Amber

PANEL INSERT
(Plastic Propionate)

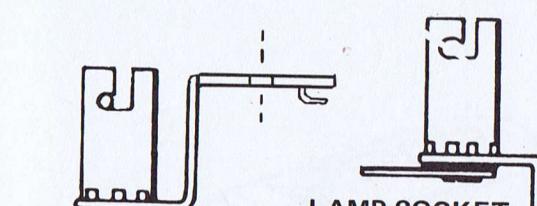
C-668-1 Red
C-668-2 Blue
C-668-3 Yellow
C-668-4 Green
C-668-5 White
C-668-6 Purple
C-668-7 Amber

PANEL INSERT
(Plastic Propionate)

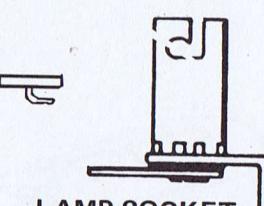
C-667-1 Red
C-667-2 Blue
C-667-3 Yellow
C-667-4 Green
C-667-5 White
C-667-6 Purple
C-667-7 Amber

PANEL INSERT
(Plastic Propionate)

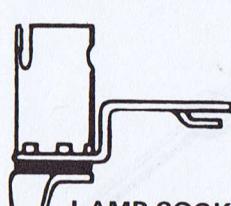
C-666-1 Red
C-666-2 Blue
C-666-3 Yellow
C-666-4 Green
C-666-5 White
C-666-6 Purple
C-666-7 Amber



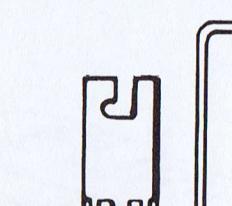
LAMP SOCKET
E-120-81



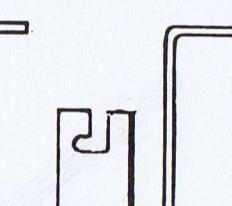
LAMP SOCKET
(Miniature
Bayonet Base)
E-120-99



LAMP SOCKET
(Miniature
Bayonet Base)
E-120-84



LAMP SOCKET
E-120-162



LAMP SOCKET
E-120-127

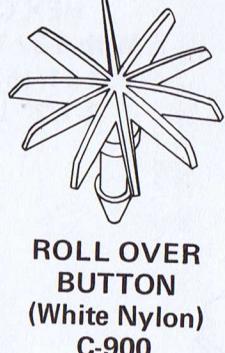


ELASTIC STOP NUTS

PART NO.	TAP SIZE
M-319-1	10-32
M-319-2	8-32
M-319-3	8-32
M-319-4	5-40
M-319-6	6-32
M-319-7	3/8-16
M-319-8	1/4-20
M-319-9	10-24
M-319-10	5/16-18
M-319-12	1/4-28



ROLL OVER
BUTTON MOUNTING
C-901



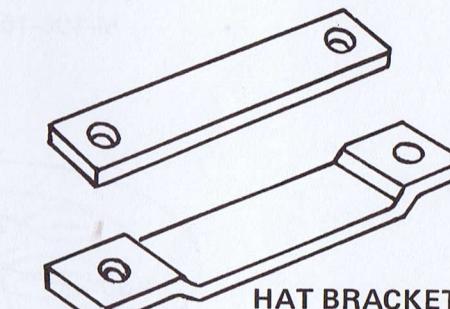
ROLL OVER
BUTTON
(White Nylon)
C-900

PLATE - BALL STOP
P-1973-347

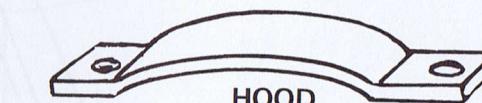


BALL GUIDES

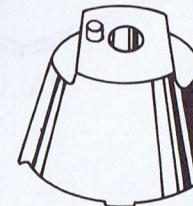
LENGTH (Inches)	PART NO.
1-1/4	M-121-11
1-1/2	M-121-3
1-15/16	M-121-4
2-1/4	M-121-2
2-3/8	M-121-24
2-9/16	M-121-29
2-3/4	M-121-14
2-15/16	M-121-1
2-31/32	M-121-27
3	M-121-9
3-3/8	M-121-18
3-1/2	M-121-5
3-1/2	M-121-6
4	M-121-7
4	M-121-30
4-1/2	M-121-10
5	M-121-23



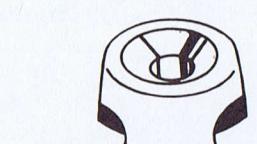
HAT BRACKET
P6264-112



HOOD
P-1732



RAIL POST
(Nylon)
C-907



RAIL POST CAP
(Nylon)
C-908

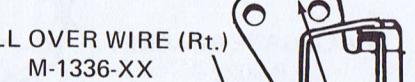


ROLL OVER WIRE (Lt.)
M-1336-XX



ROLL OVER WIRE BRACKET (Lt.)
P-6254-1

ROLL OVER WIRE FORM
ASE-2806-XX



ROLL OVER WIRE (Rt.)
M-1336-XX



ROLL OVER WIRE BRACKET (Rt.)
P-6254

ROLL OVER WIRE FORM
ASE-2806-XX

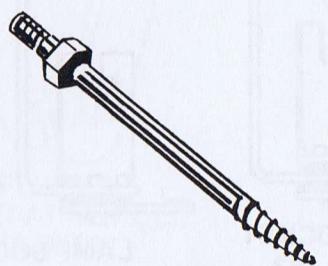
WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

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

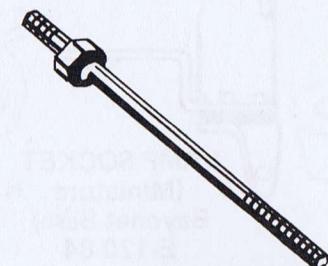
PANEL PARTS

PANEL PARTS

PANEL PARTS



SPECIAL INDENTED
HEX COLLAR STUD
6-32 Thread
1-11/16" Long — S-2124
1-1/2" Long — S-2124-1



SPECIAL INDENTED
HEX COLLAR STUD
With 6-32 Thread at both ends
1-11/16" Long — S-2125
1-1/2" Long — S-2125-1



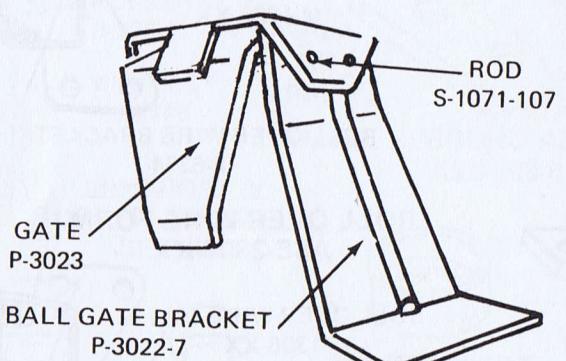
SCREW
(Used for Speaker Screw &
Thumper Bumper)
M-1786



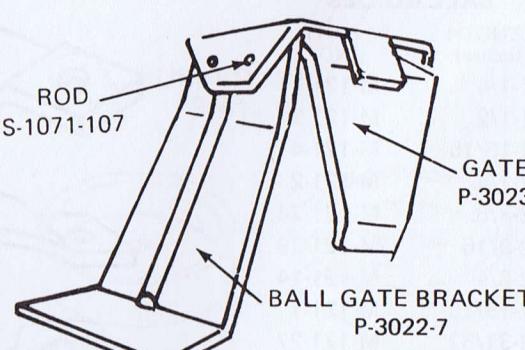
LONG PRONG TEENUT
8-32 Thread
M-108-9



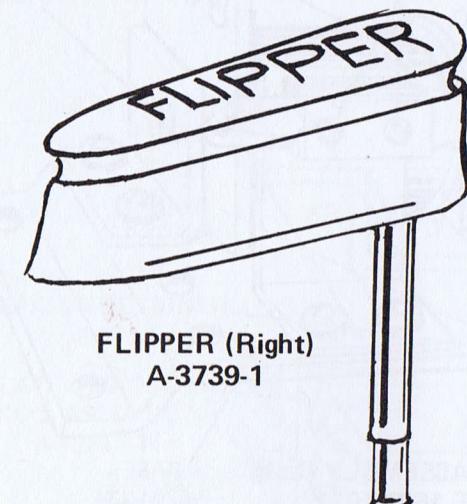
LONG PRONG TEENUT
6-32 Thread
M-108-15



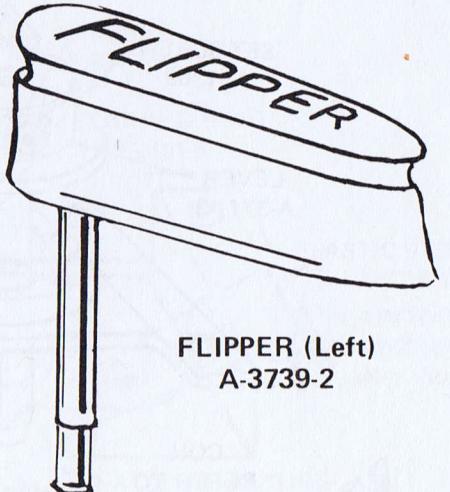
BALL GATE ASSEMBLY (Right)
A-1475-9



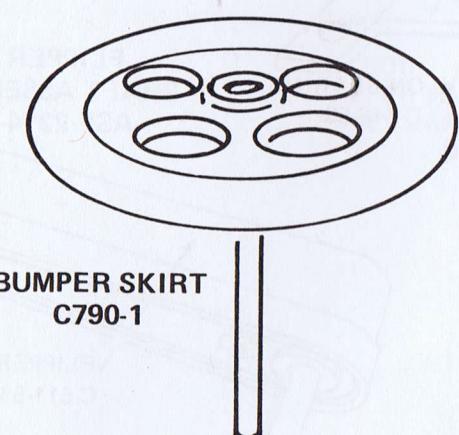
BALL GATE ASSEMBLY (Left)
A-1475-10



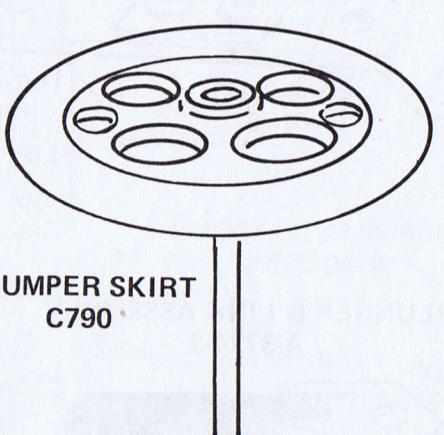
FLIPPER (Right)
A-3739-1



FLIPPER (Left)
A-3739-2



BUMPER SKIRT
C790-1



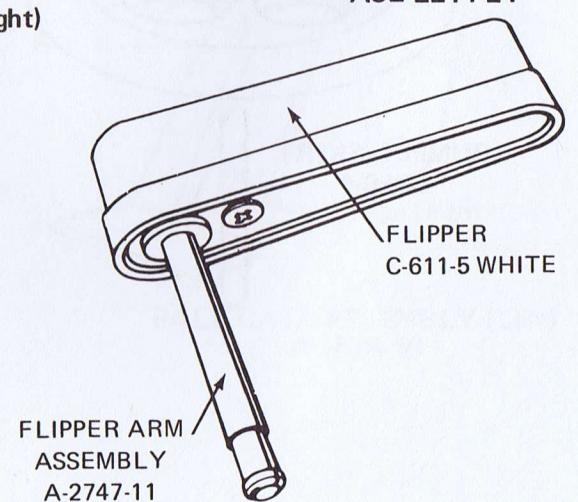
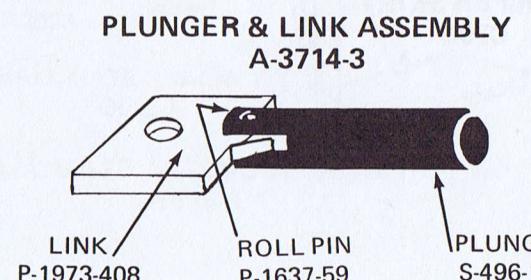
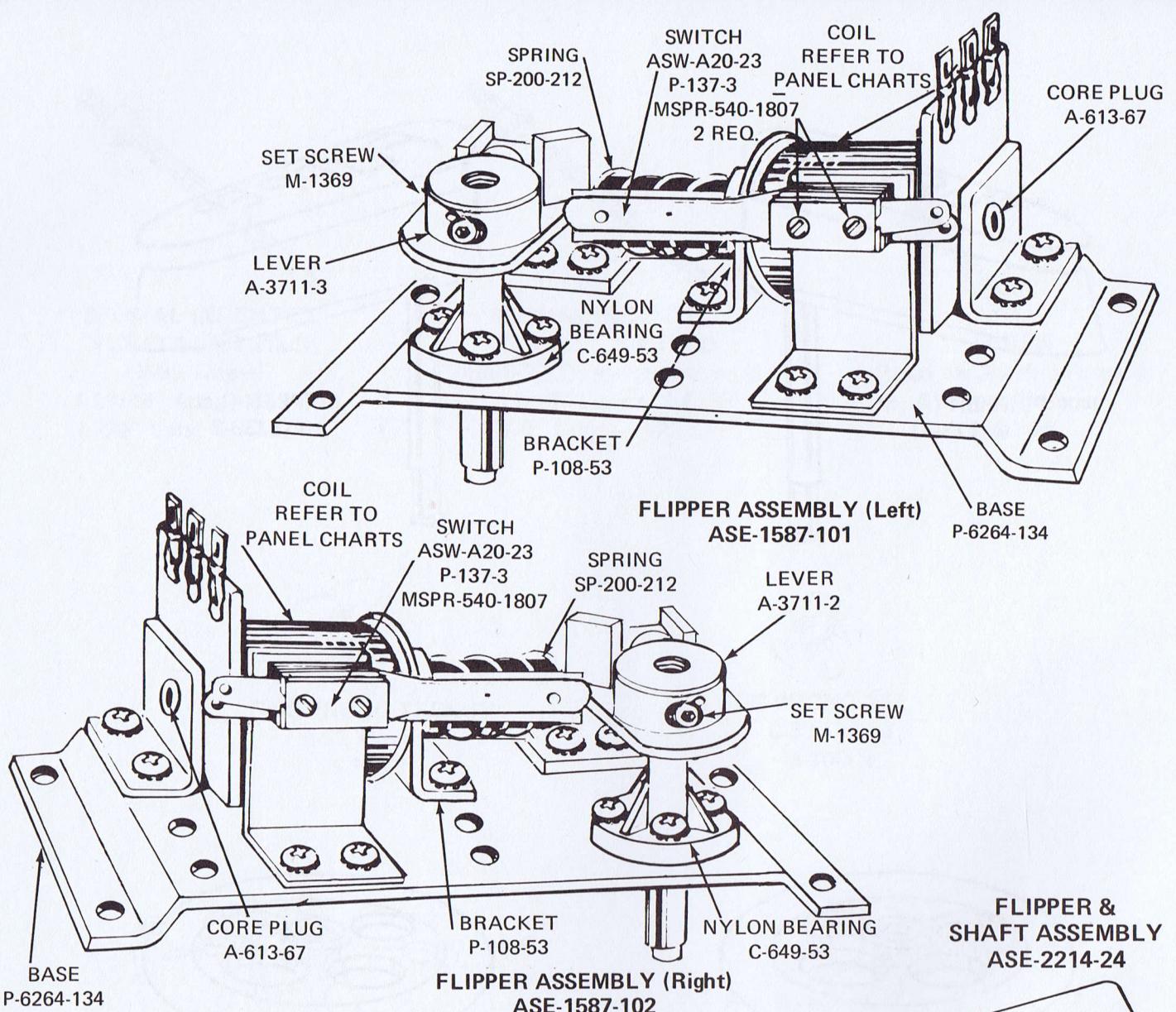
THUMPER SKIRT
C790

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

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

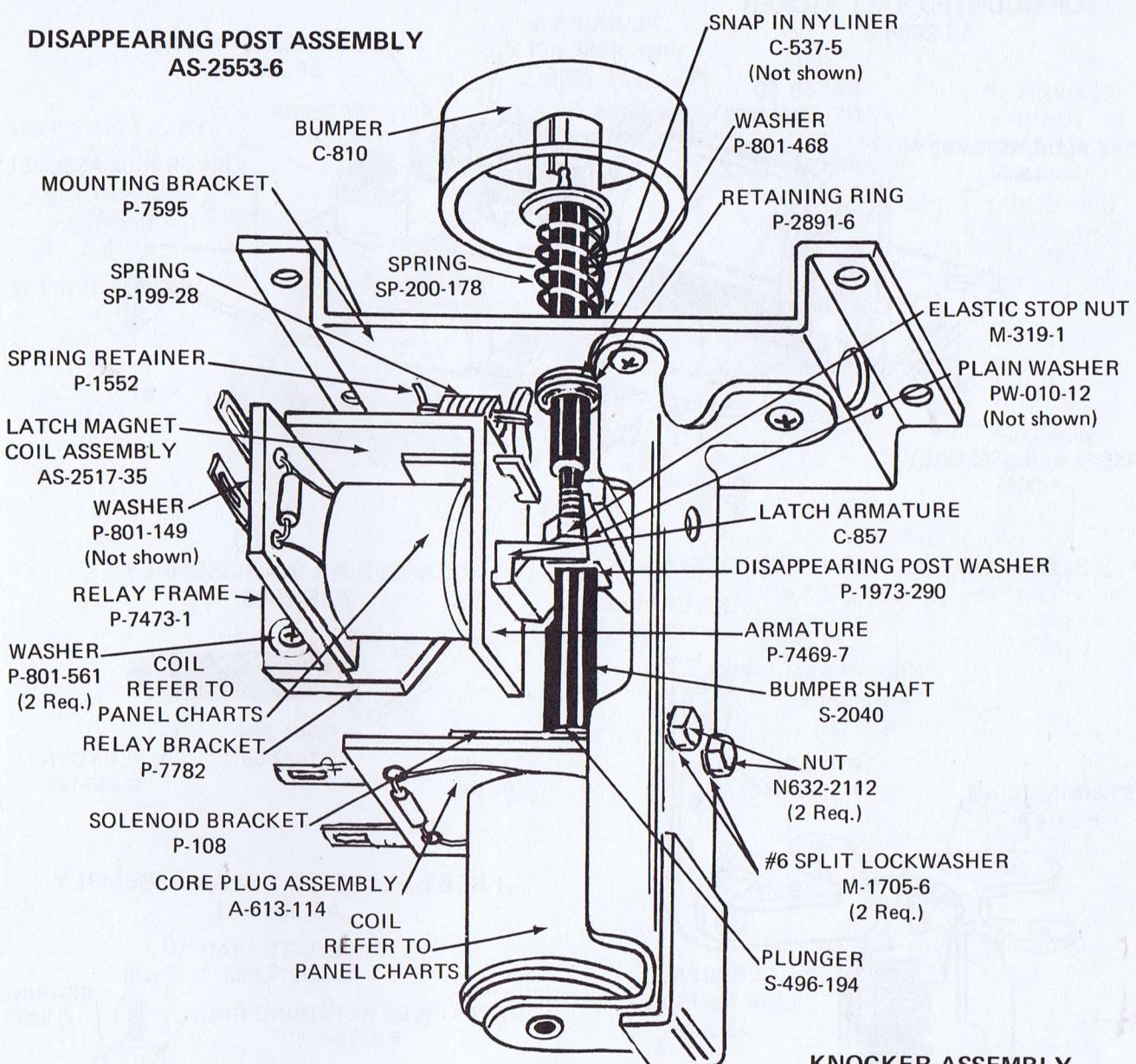
ASSEMBLY PARTS

ASSEMBLY PARTS

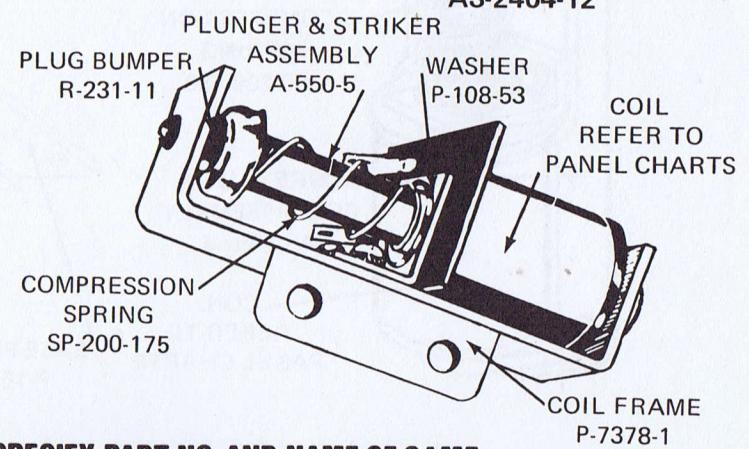


WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

DISAPPEARING POST ASSEMBLY AS-2553-6



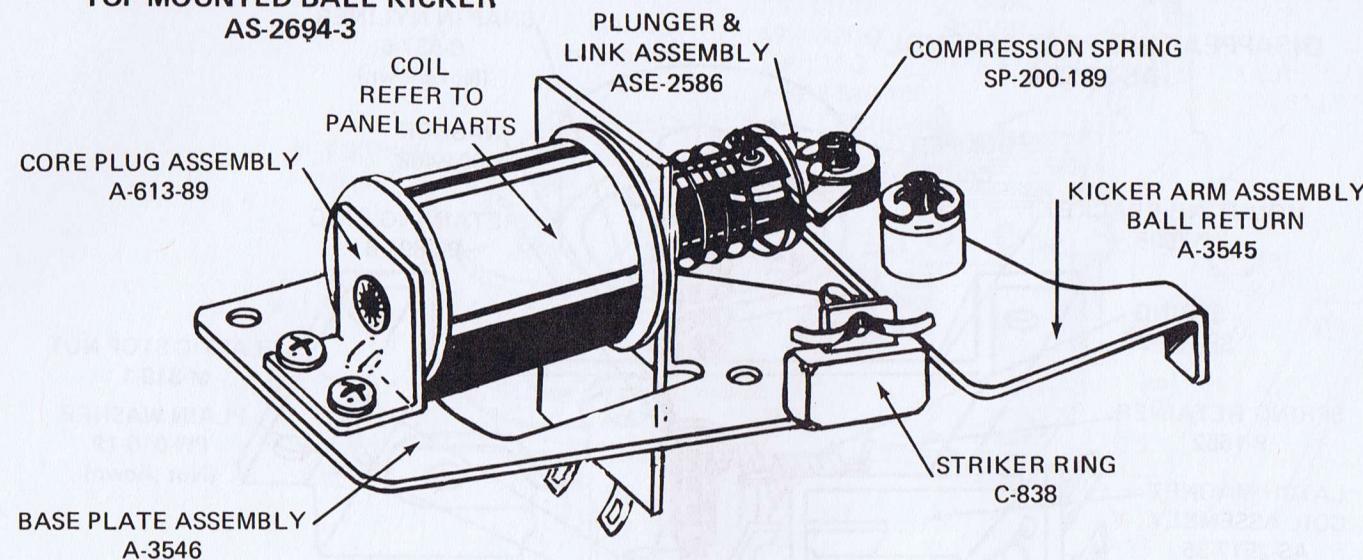
KNOCKER ASSEMBLY AS-2404-12



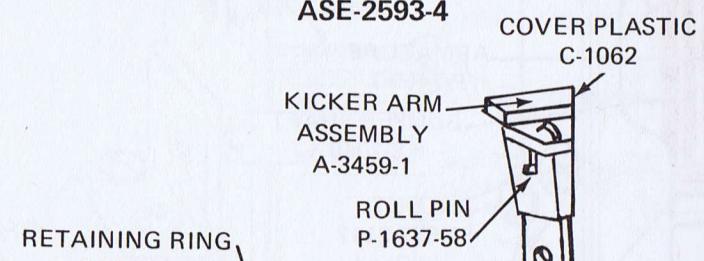
WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

ASSEMBLY PARTS

TOP MOUNTED BALL KICKER
AS-2694-3



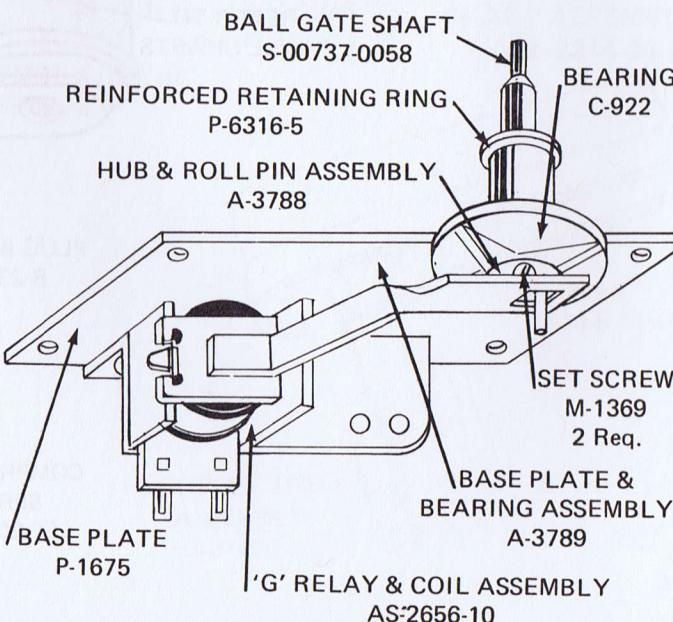
SLING SHOT KICKER & COIL ASSEMBLY
ASE-2593-4



PLUNGER & LINK ASSEMBLY
ASE-2586

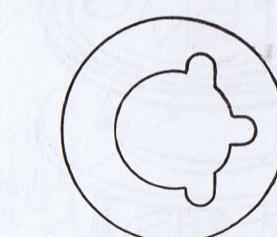
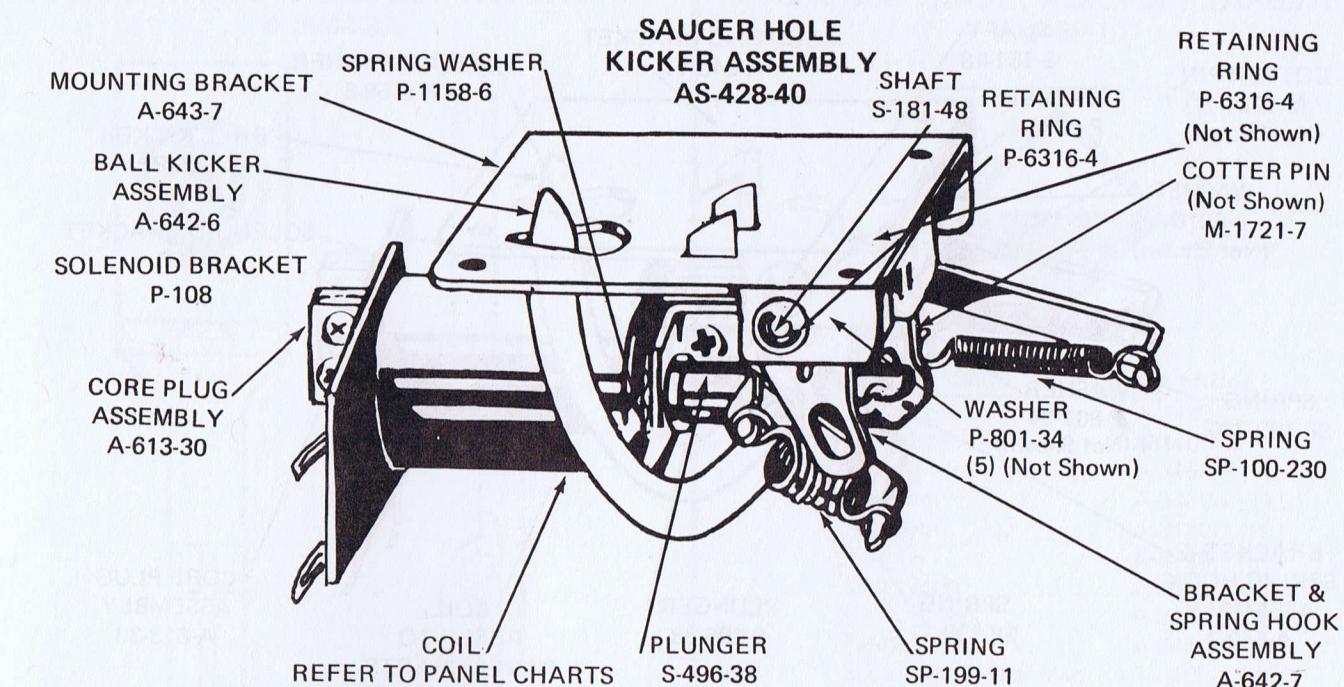


FREE BALL GATE RELAY ASSEMBLY
AS-2308-21

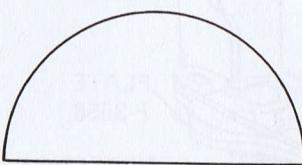


WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

ASSEMBLY PARTS



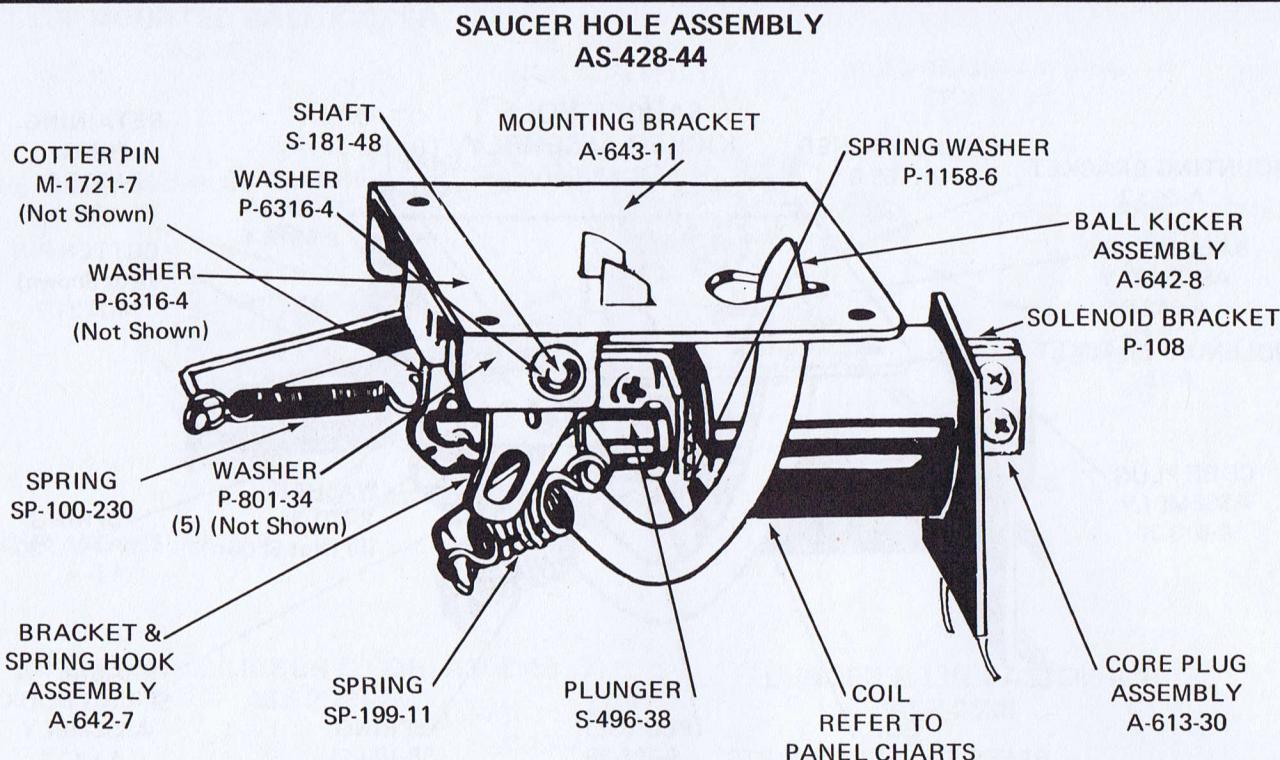
**THUMPER BUMPER
PROTECTIVE SHIELD**
M-1787



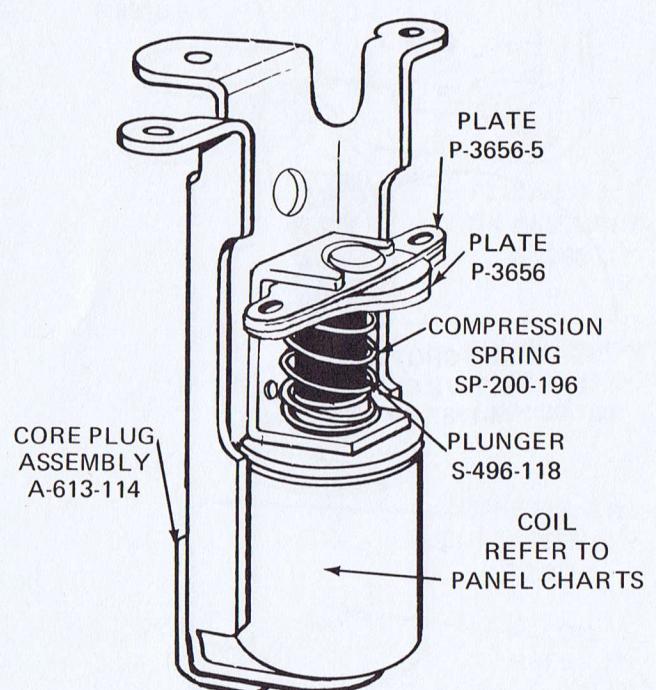
**SLING SHOTS
PROTECTIVE SHIELD**
M-1787-4

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

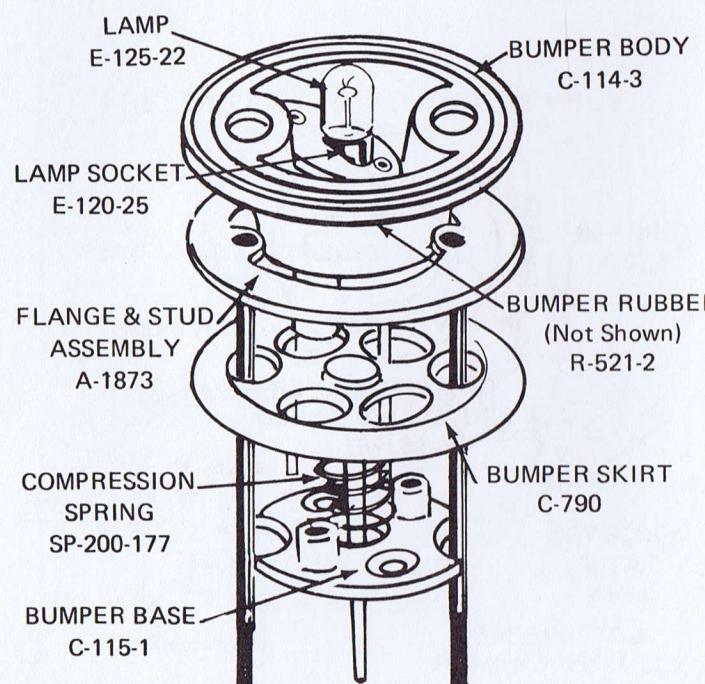
ASSEMBLY PARTS



**THUMPER COIL &
BRACKET ASSEMBLY
ASE-1567-13**



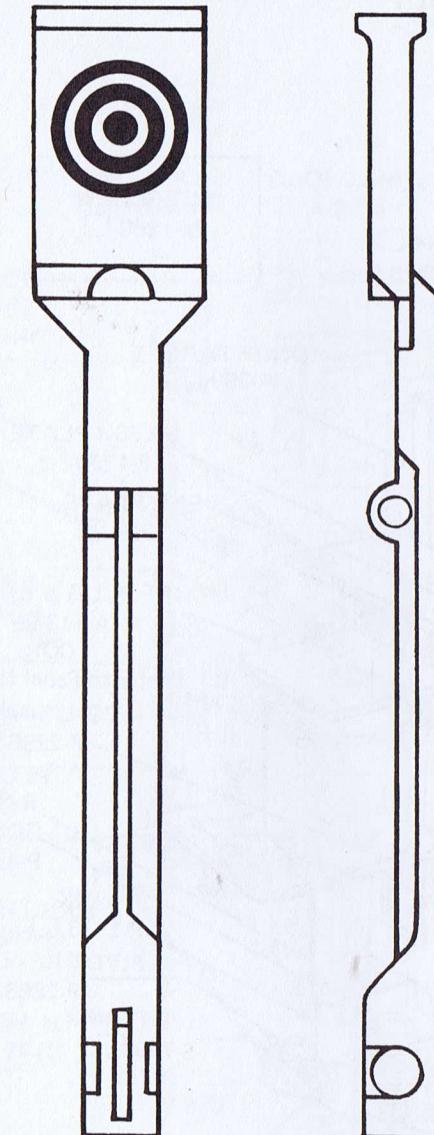
**THUMPER BUMPER ASSEMBLY
ASE-2222-4**



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

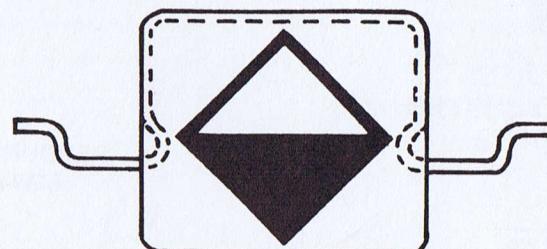
ASSEMBLY PARTS

**DROP TARGET ASSEMBLY TARGETS
A-3944-3A**



Name of Game	Target No.
Evel Knievel	A-3944-3
Freedom	A-3944-5
Mata Hari	A-3944-3
Night Rider	A-3944-3
Paragon	A-3944
Paragon (In-Line)	A-3944-1
Playboy	A-3944-5
Power Play	A-3944-4
Six Million Dollar Man	A-3944-3
Supersonic	A-3944-3

**SPINNER TARGET ASSEMBLY TARGETS
A-3460-10**



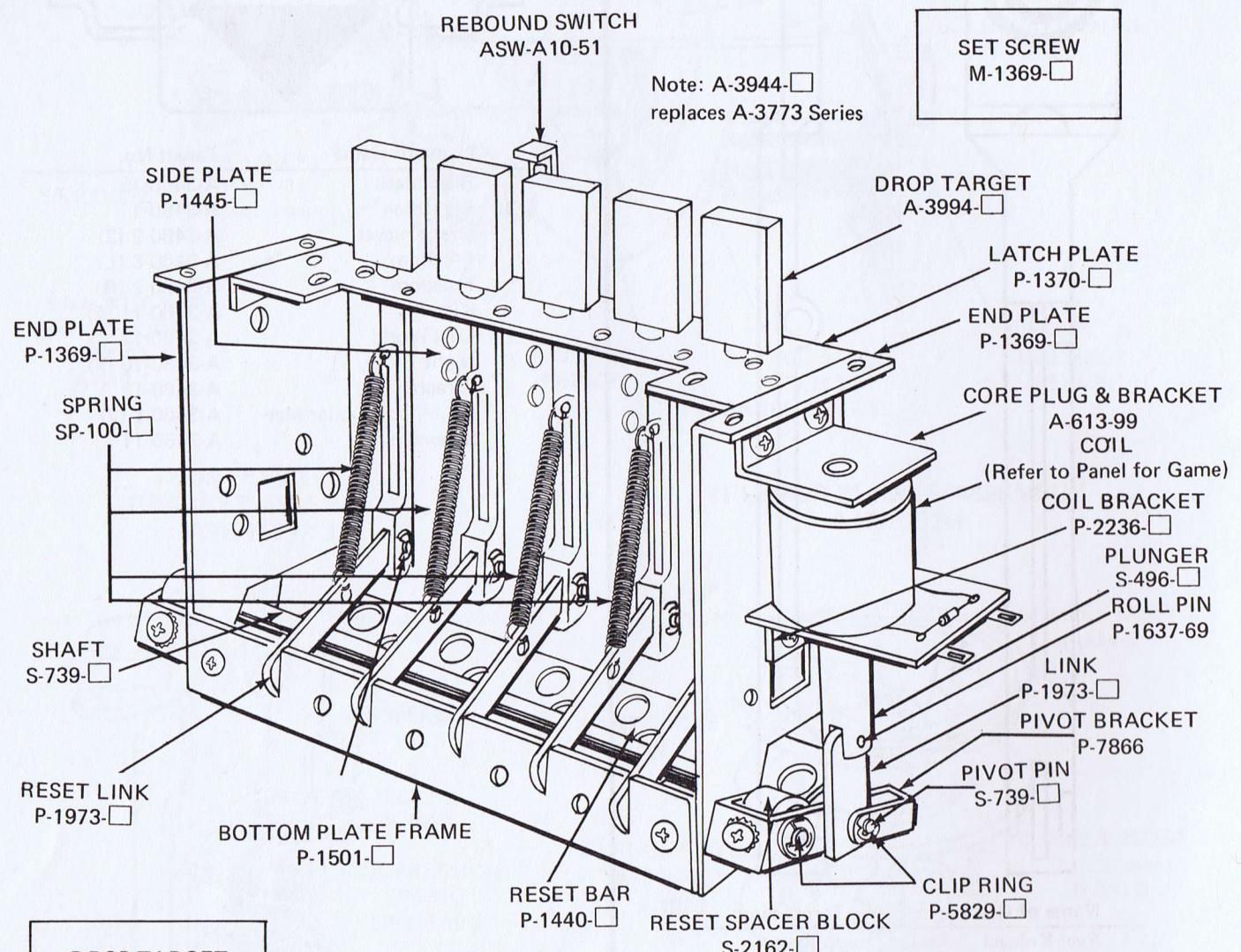
Name of Game	Target No.
Black Jack	A-3460-12
Eight Ball	A-3460-11
Evel Knievel	A-3460-9 (2)
Freedom	A-3460-6 (L)
Freedom	A-3460-7 (R)
Kiss	A-3460-11 (2)
Lost World	A-3460-13
Night Rider	A-3460-10 (2)
Paragon	A-3460-13
Six Million Dollar Man	A-3460-1 (2)
Supersonic	A-3460-11

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

ASSEMBLY PARTS

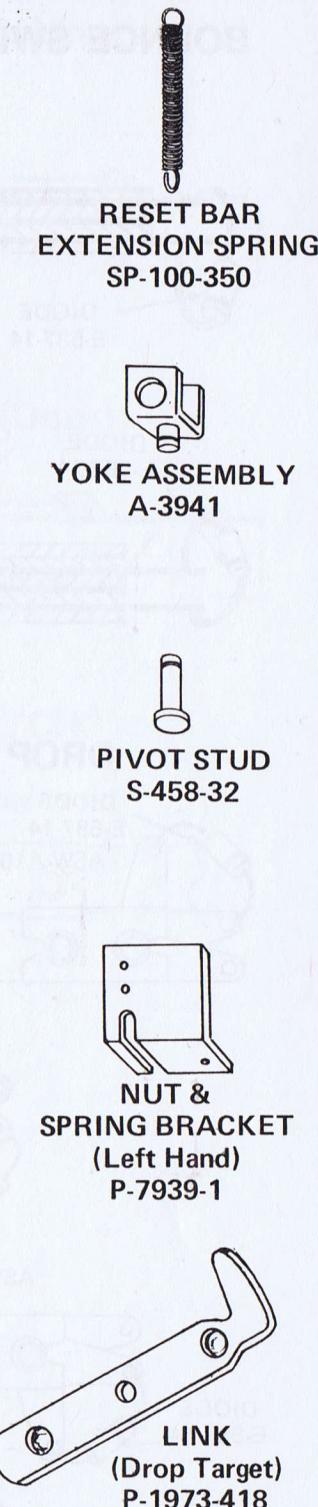
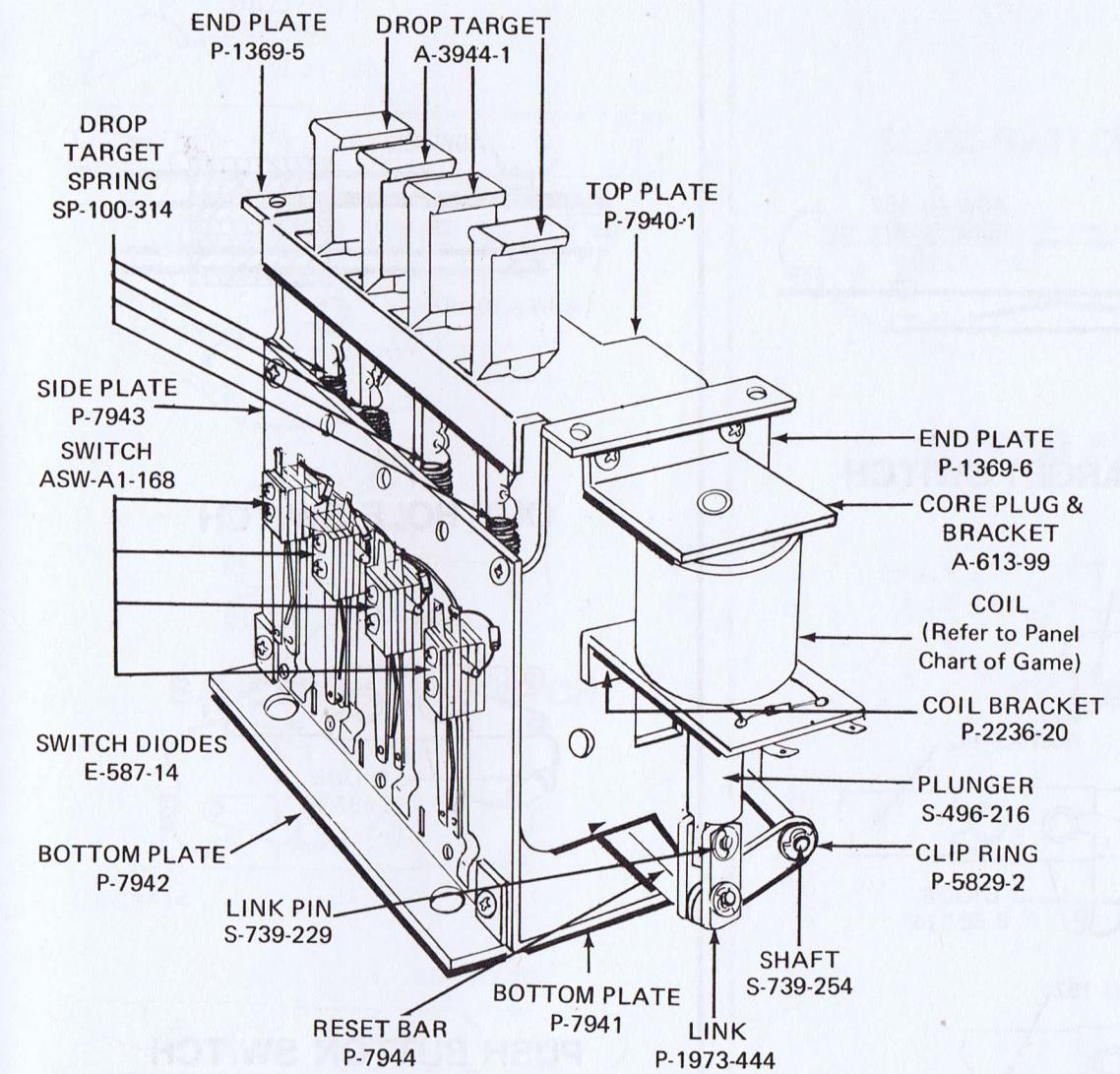
ASSEMBLY PARTS

**DROP TARGET ASSEMBLY
AS-2795-□**



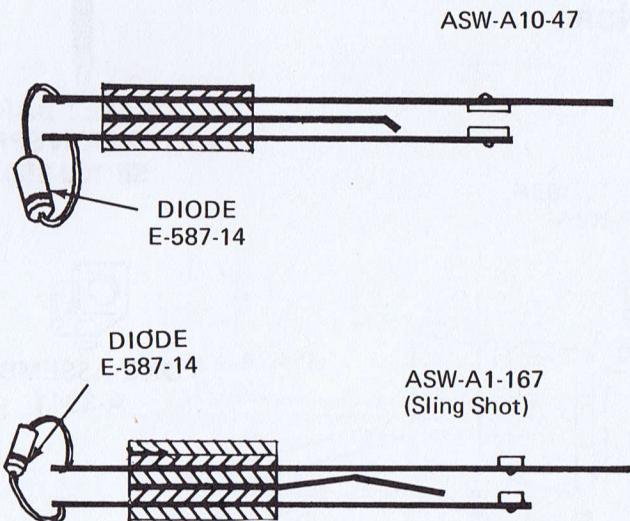
□ = See Panel Chart for Game for correct dash number and quantity required.

**DROP TARGET ASSEMBLY (In-Line)
ASE-2993**

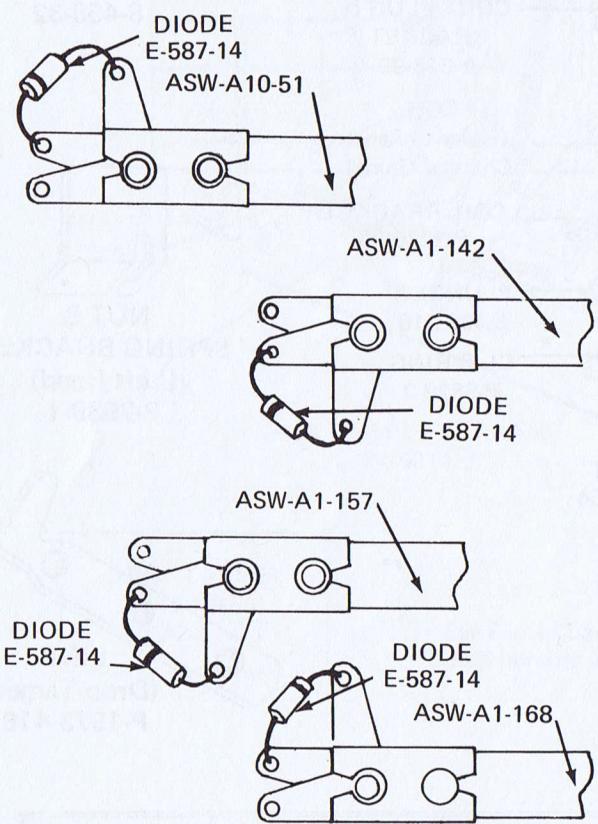


SWITCH PARTS

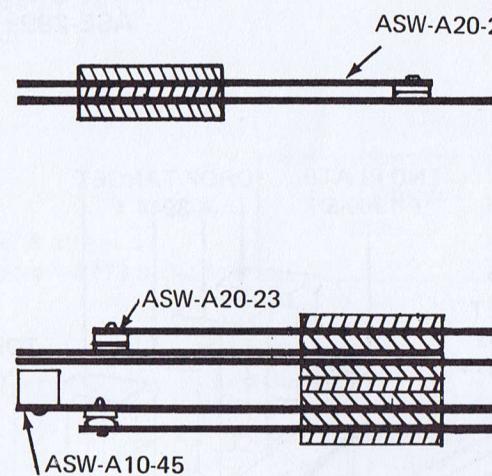
BOUNCE SWITCH (General Purpose)



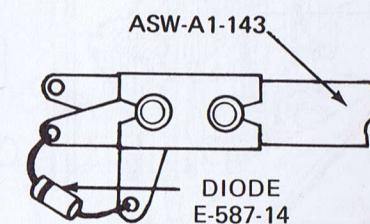
DROP TARGET SWITCH



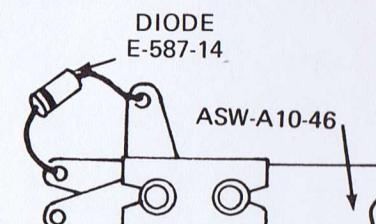
FLIPPER SWITCH (Left and Right)



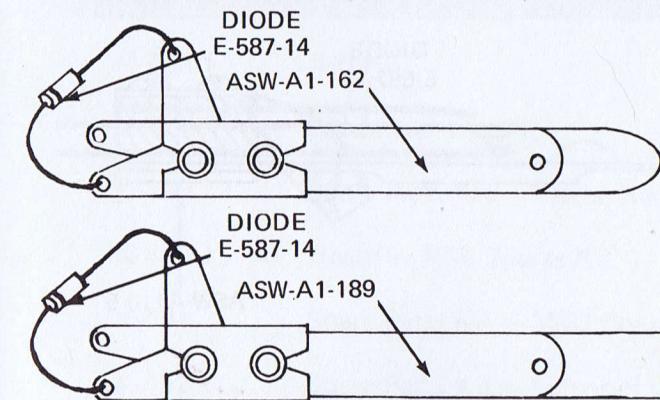
OUT HOLE SWITCH



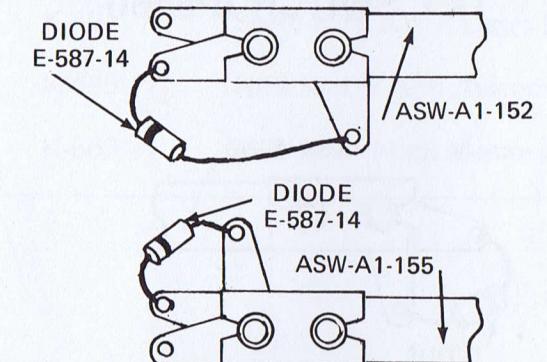
PUSH BUTTON SWITCH



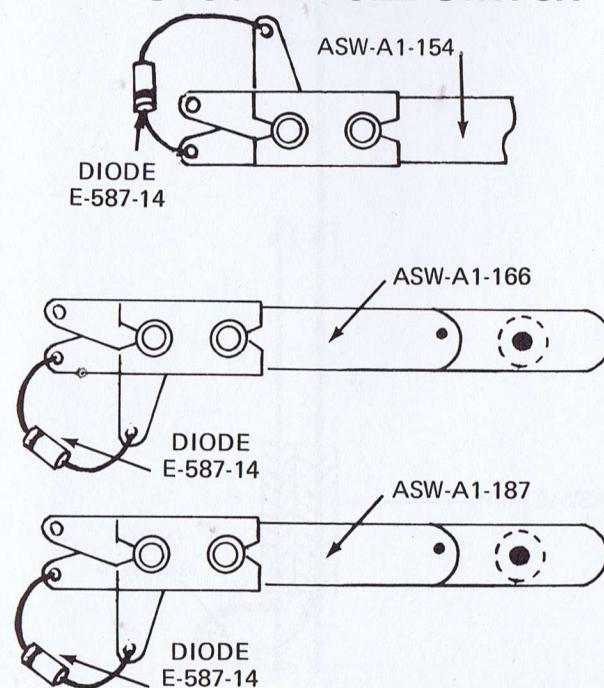
ROLLOVER BUTTON SWITCH



ROLLOVER WIRE SWITCH

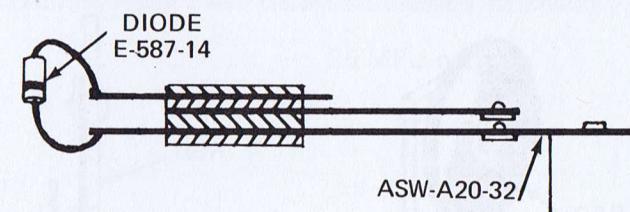


SAUCER HOLE SWITCH

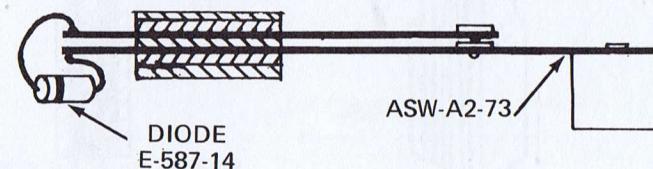


SWITCH PARTS

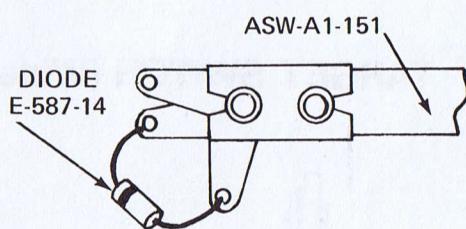
SLAM SWITCH (Cabinet)



SLAM SWITCH (Door)



SPINNER SWITCH



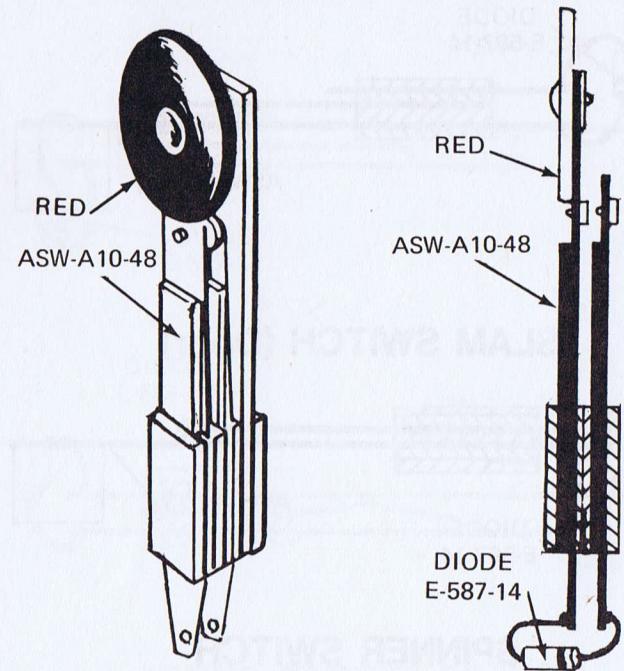
WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

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

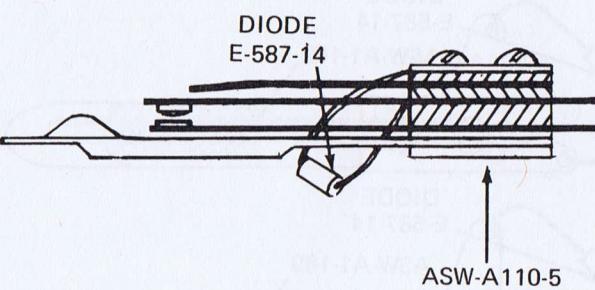
SWITCH PARTS

RECOMMENDED KITS

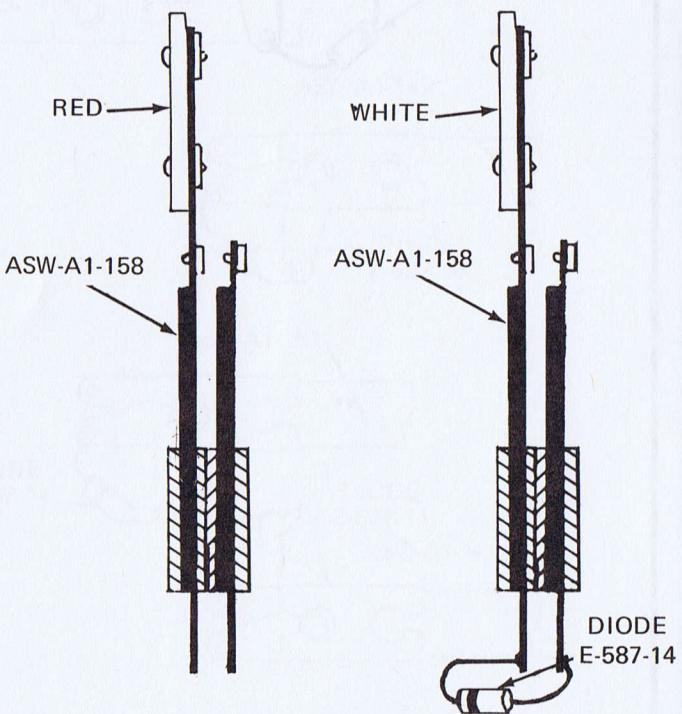
TARGET SWITCH (Round)



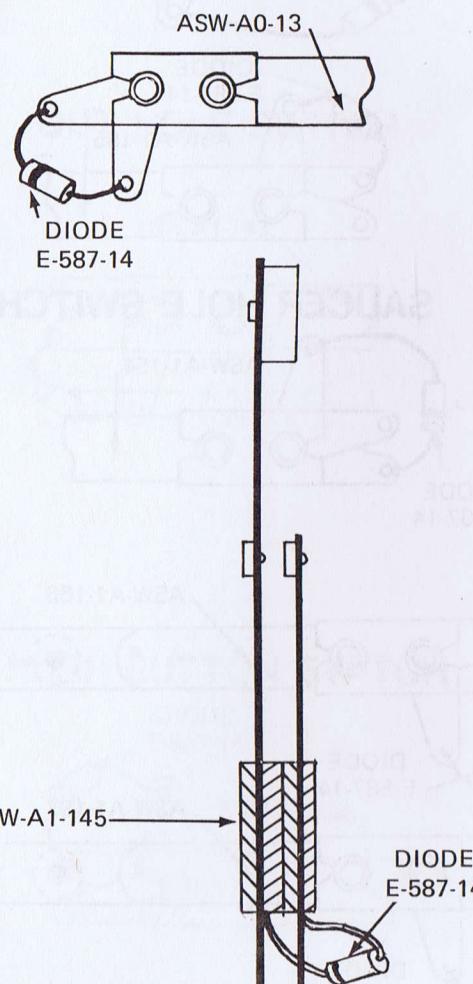
THUMPER BUMPER SWITCH



TARGET SWITCH (Wide)



TIILT SWITCH (Panel)



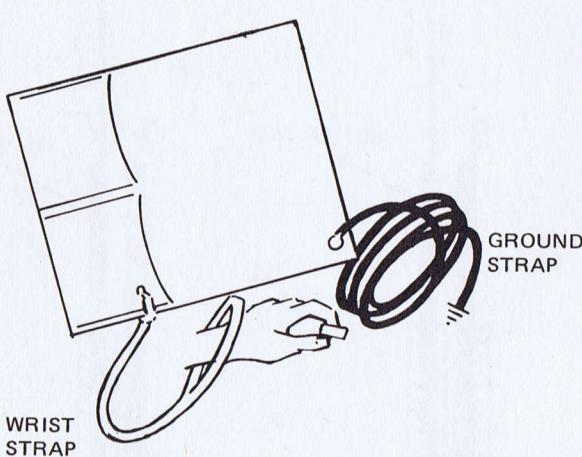
WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

KIT NO.	NAME OF KIT	GAME USED ON
K-485-1	Aid Kit	35 MPU module
K-486	Diode and Lug Kit	No. 1066-E
K-490	Spare Parts Kit – Trans. Rectifier Board	All Games
K-490-1	Rectifier PCB Spares Kit	All Games
K-491	Spare Parts Kit – MPU Board	All Games
K-492	Spare Parts Kit – Solenoid Driver – Power Supply	All Games
K-493	Spare Parts Kit – Display Driver	All Games
K-494	Spare Parts Kit – Lamp Driver	All Games
K-495	New Kicker Arm Assembly Instructions All Novelties	
K-503	MPU Board Less Memory	(All Games)

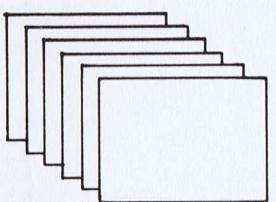
WHEN ORDERING PART, SPECIFY PART NO. AND NAME OF GAME

RECOMMENDED KITS

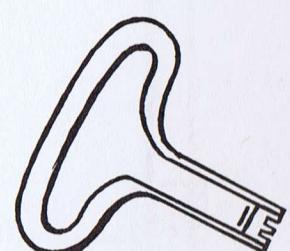
KIT NO.	NAME OF KIT	GAME USED ON
K-507-1	Transformer Kit Japan Only	All Games
K-509	Transformer Mounting Bracket Kit	All Games
K-518	Sound PCB Spares Kit (Less Memory)	All Games
K-523	Label Connector & Wire Kit (For use in modifying AS-2518-17)	
K-525	Parts Kit	Electronic Chimes Conversion
K-526	Parts Kit	Electronic Novelties Automatic Ballshooter
K-529	Mechanical Coin Counter	All Games
K-547	Susan B. Anthony Dollar Coin Conversion Kit	All Electronic Pinballs All Games
K-548	Field Service Kit	
K-549	Velostat Anti-Static Disposable Bags (6 Each)	
K-554	Insulation Displacement Connector Tool Kit	All Games
K-555	Molex Plug Service Tool Kit	All Games



PORTABLE FIELD SERVICE WORK STATION
Kit 548



ANTI-STATIC BAG (Pkg. of 6)
Kit 549



INSULATION DISPLACEMENT
CONNECTOR TOOL KIT
K-554
Part No. 59803-1
Part No. 59804-1

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

CHANGE OF ADDRESS NOTICE

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Chicago, Illinois 60618 U.S.A.

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