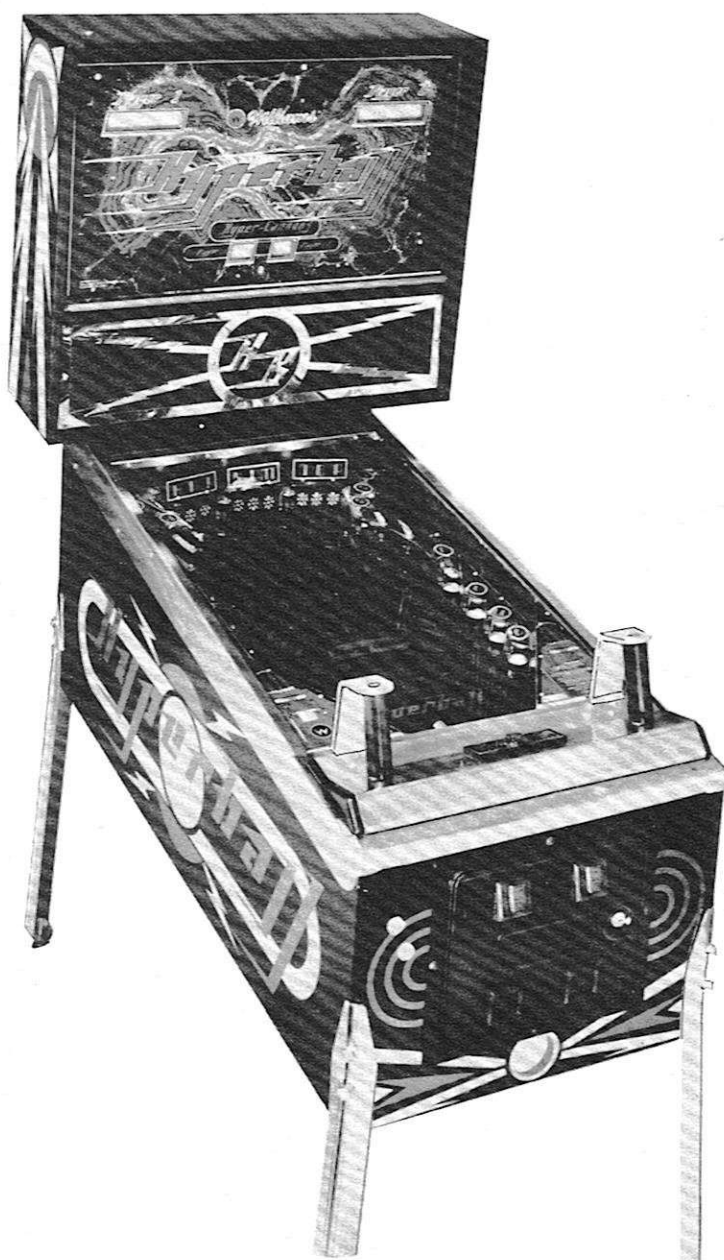


Williams[®]

16P-509-110
Game No. 509
April, 1982

Hyperba

PARTS SUPPLEMENT



Williams[®]
ELECTRONICS, INC.

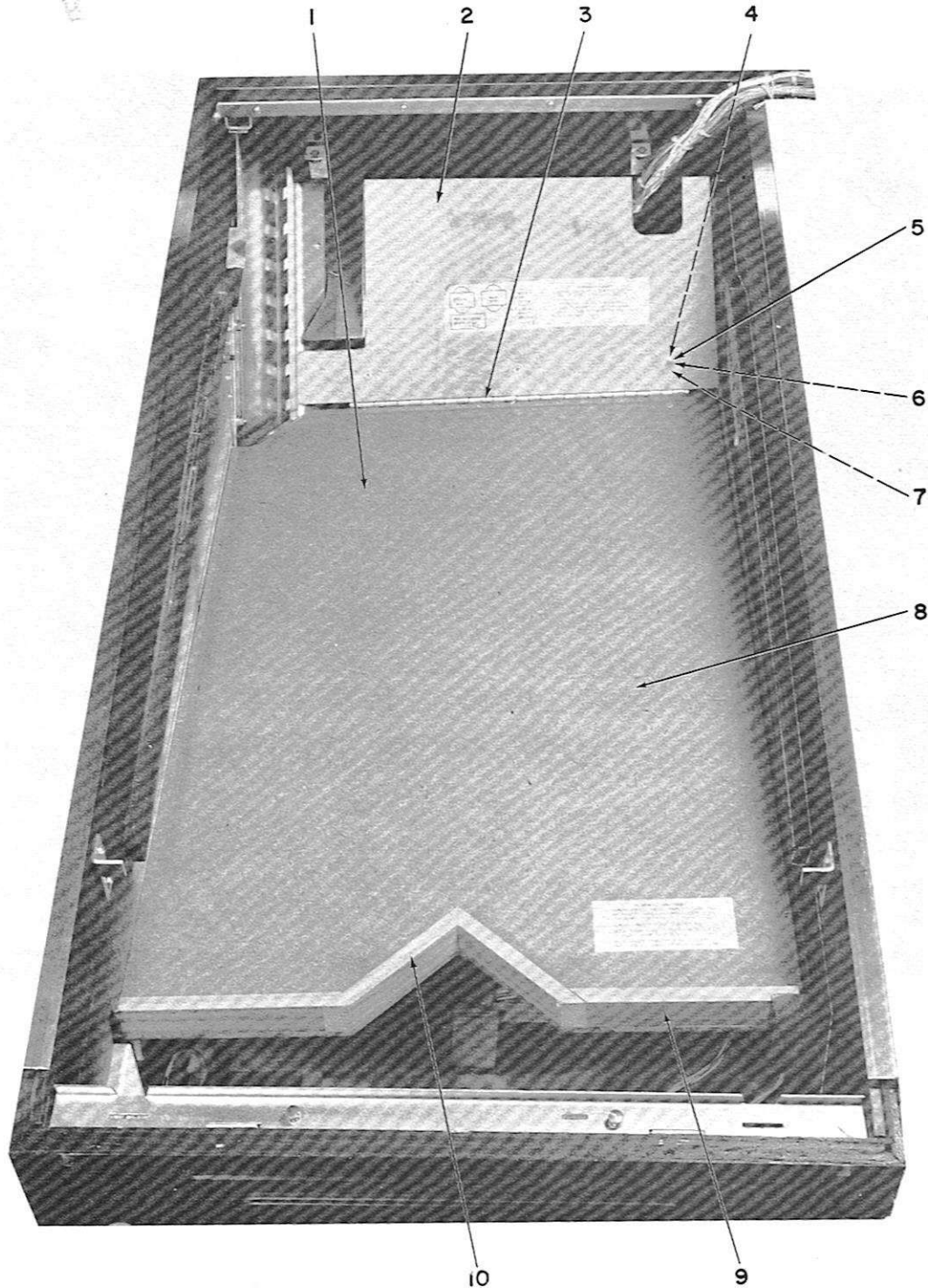
3401 N. California Ave., Chicago, IL 60618



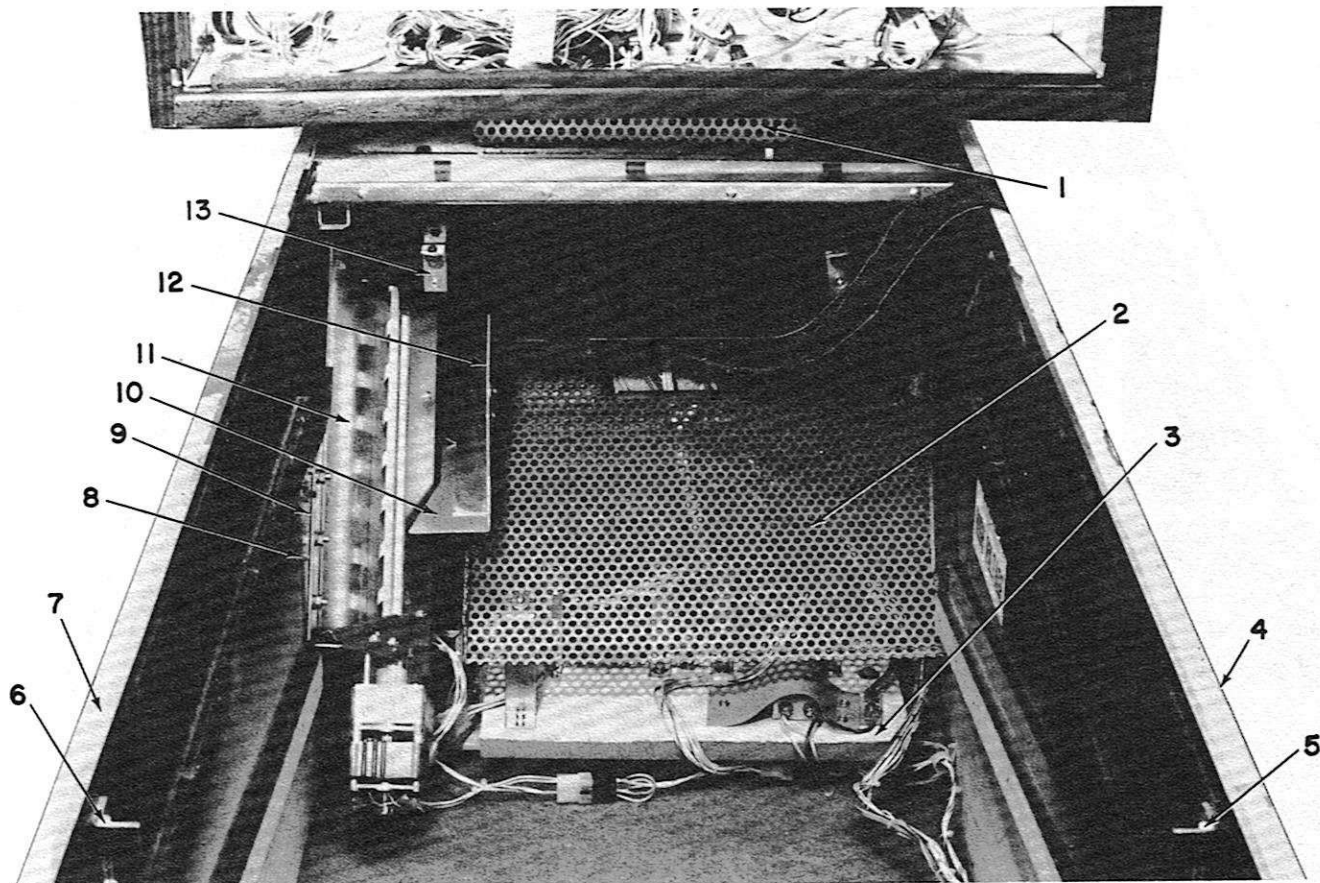
**R-8552-509 BACKGLASS
01-6733 SPEAKER GRILLE**

ROM SUMMARY

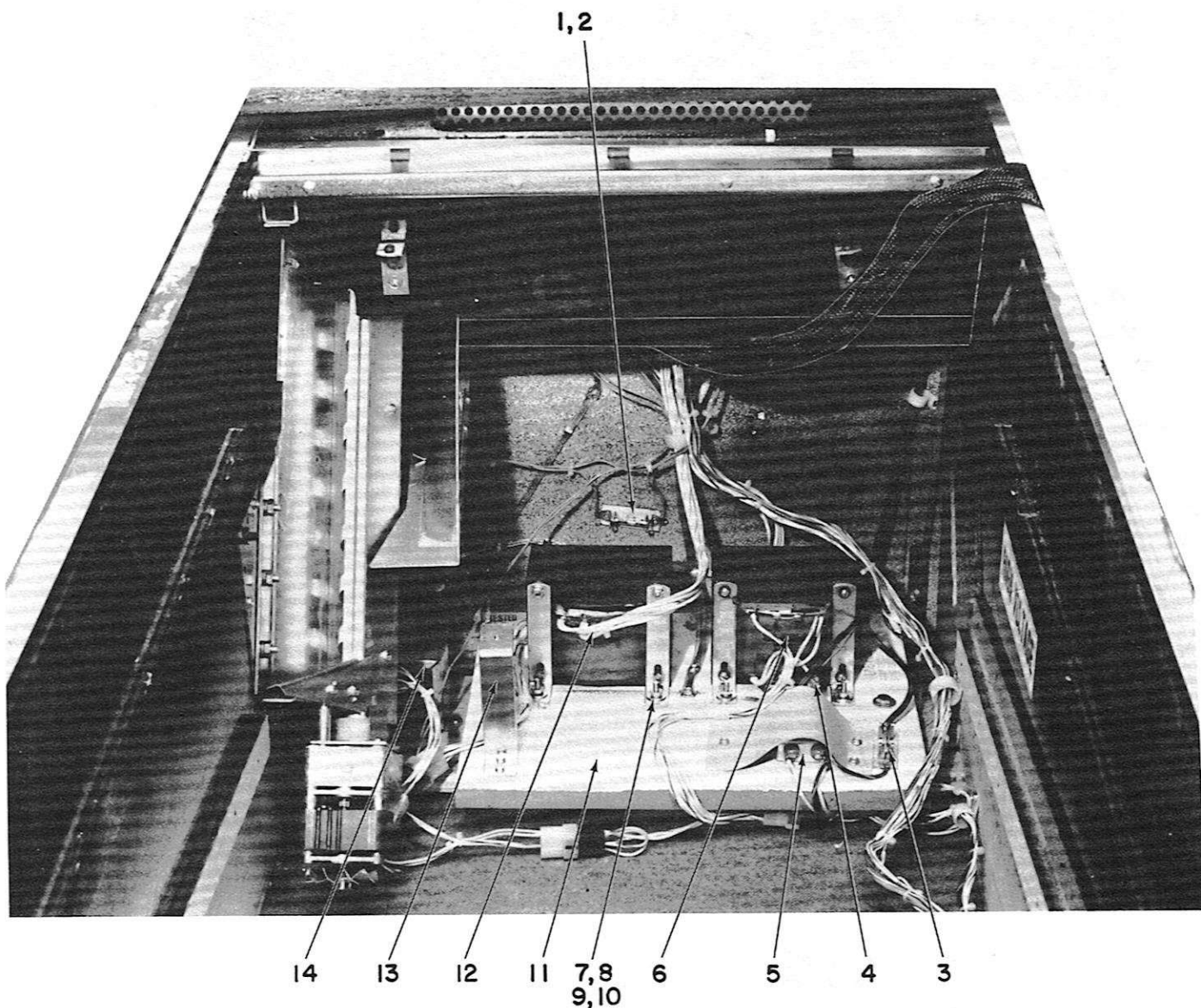
DESCRIPTION	PART NO.
SOUND ROM 0	A-5343-05090
GAME ROM 0	A-5343-09929
GAME ROM 1	A-5343-09928
GAME ROM 2	A-5343-09930



ITEM	PART NO.	DESCRIPTION
1	D-9129	Subfloor Assembly
2	D-9224	Hinge Panel Assembly
3	01-7404	Hinge
4	4408-01117	Hex Nut, #8-32
5	4008-01041-10	Machine Screw, #8-32x5/8"
6	4700-00011	Flat Washer, 11/64" I.D.x7/16" O.D., 16 Gauge
7	4701-00003	Lock Washer, #8, Split
8	11-666	Main Panel
9	11-678	Side Ball Stop Rail
10	11-677	Center Ball Stop Rail

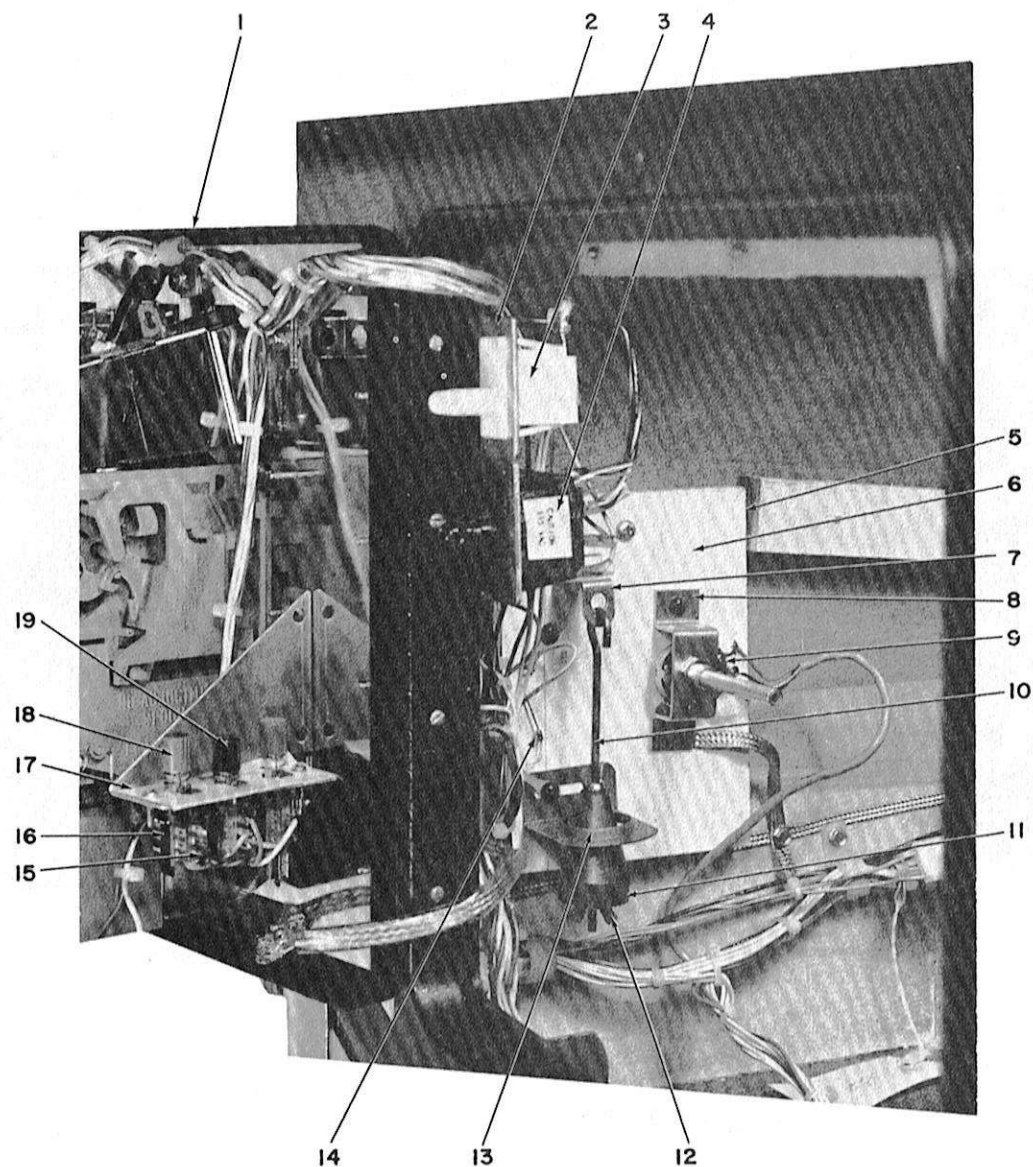


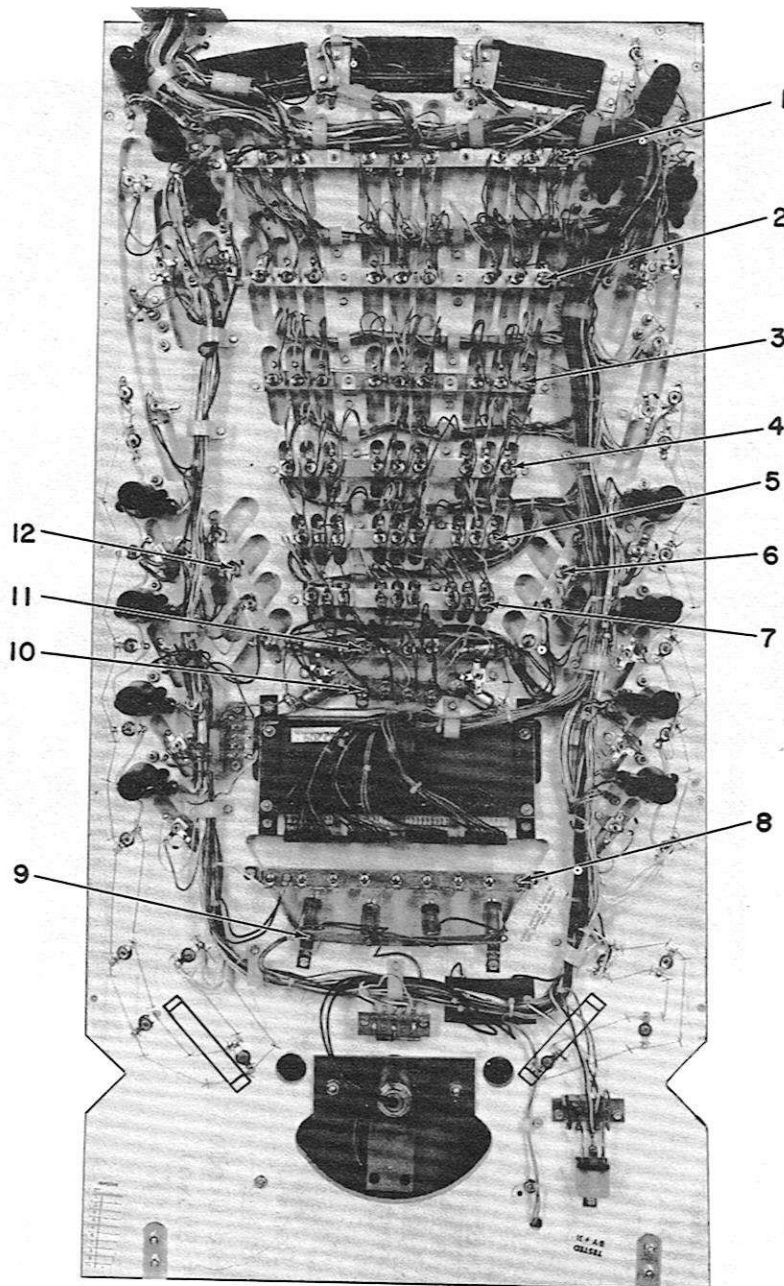
ITEM	PART NO.	DESCRIPTION
1	01-6592	Vent Hole Screen
2	D-9245	Power Pack Shield Assembly
3	D-9028	Power Pack Assembly
4	01-6782-R-2	Right Cabinet Molding
5	01-7368-R	Right Support Bracket
6	01-7368-L	Left Support Bracket
7	01-6781-L-2	Left Cabinet Molding
8	01-6234	Cabinet Armor
9	B-9130	Auger Mounting Plate Assembly
10	01-7429	Overflow Chute Adapter
11	R-9133	Ball Feed Assembly
12	D-9211	Overflow Chute Assembly
13	A-9173	Playfield Hold Down Assembly
	01-2263-2	Metal Leg (Not Shown)
	08-7025-A	Leg Adjuster, 1-3/4" (Not Shown)
	08-7025-B	Hex Nut, Leg Adjuster (Not Shown)
	01-3493-1	Lock Bracket (Not Shown)
	01-6589	Lock Bracket (Not Shown)



ITEM	PART NO.	DESCRIPTION
1	B-6448-1	Fuse Clip Assembly
2	5731-08761	Fuse, Slo-Blo, 1/4A, 250V
3	5730-09252	Fuse, 8A, 125V
4	5017-09044	Varistor, 130V, 10A
5	5102-08895	Line Filter, 5A
6	C-8500	Transformer Assembly
7	4320-01123-20	Bolt, 1/4"-20x1-1/4"
8	4420-01117	Hex Nut, 1/4"-20
9	4701-00005	Lock Washer, 1/4", Split
10	4700-00033	Flat Washer, 17/64" I.D.x3/4" O.D.x15 Gauge
11	D-9028	Power Pack Assembly
12	C-9056	Transformer Assembly
13	01-7474	Shield Bracket
14	C-9181	Transformer Assembly
	01-5185	Toggle Switch Mounting Plate (Not Shown)
	5640-06137	Toggle Switch, SPST, 6A, 125V (Not Shown)
	5850-08728	Line Cord, 15 Ft., U.S. (Not Shown)

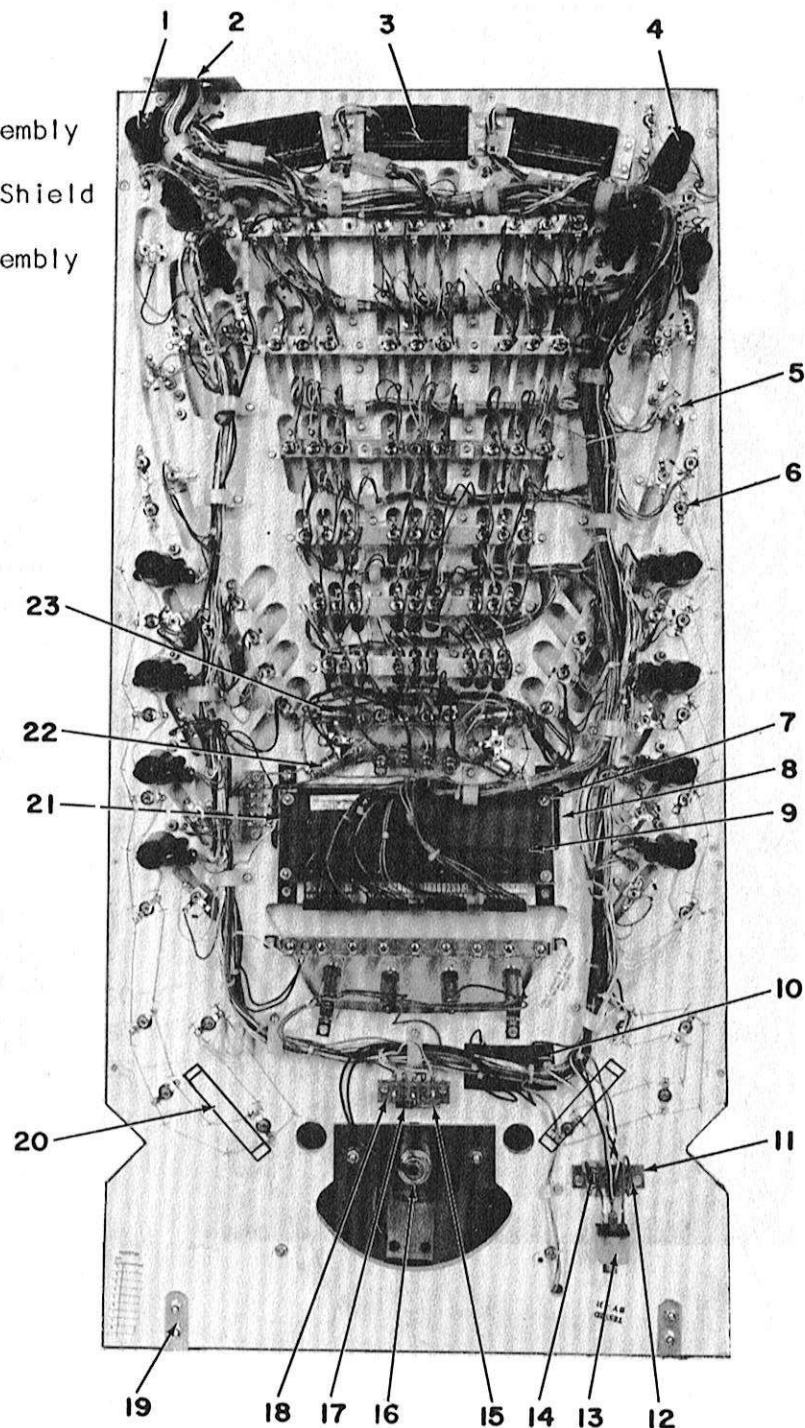
ITEM	PART NO.	DESCRIPTION
1	D-9147	Coin Door Assembly
2	B-9151	Interlock Switch Bracket
3	5643-09268	Memory Interlock Switch
4	5643-09556	Cheat Interlock Switch
5	509-MP	HYPERBALL Mechanism Panel
6	C-9048	Mechanism Panel Assembly
7	01-3444	Upper Plumb Bob Bracket
8	01-6858	Volume Potentiometer Mounting Bracket
9	5014-09170	Volume Potentiometer, 5K, 10%, 1W
10	12-6231	Plumb Bob Wire
11	20-6502-A	Plumb Bob
12	4406-01120	Wing Nut, #6-32
13	01-3445	Lower Plumb Bob Bracket
14	5070-06258	Diode, 1N4001, 1.0A
15	5070-06258	Diode, 1N4001, 1.0A
16	5641-09369	3 Bank Switch, DPDT, 30V, 0.3A
17	01-7174-1	Switch Bracket
18	03-7601-4	Switch Button, Red
19	03-7601-7	Switch Button, Black
	B-8536	Credit Switch and Diode Assembly (Not Shown)
	D-9174	Lever Guide Assembly (Not Shown)
	5070-06258	Diode, 1N4001, 1.0A (Not Shown)
	A-5069	White Credit Button Assembly (Not Shown)
	C-8567-509	Cashbox Assembly



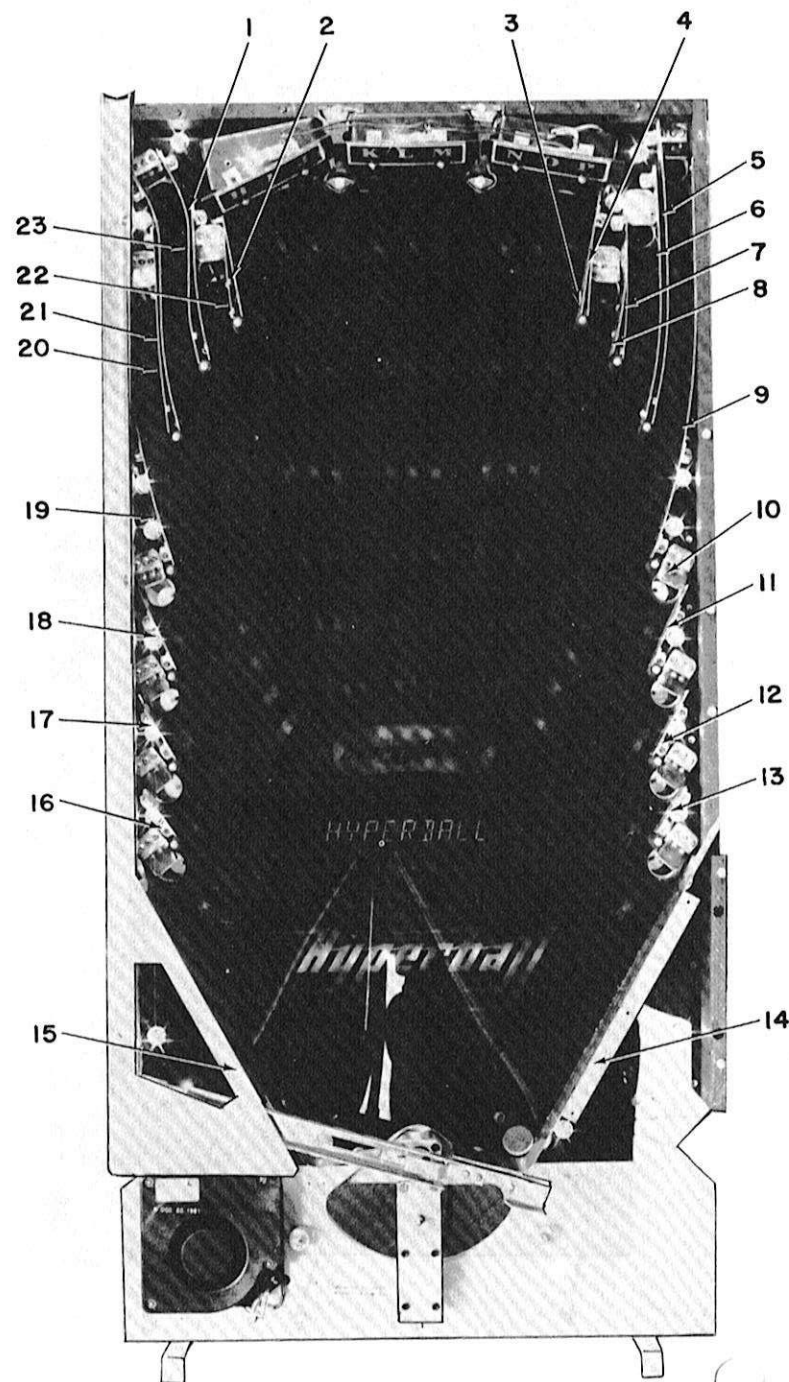


ITEM	PART NO.	DESCRIPTION
1	B-9107	9 Bank Light Assembly, 11-1/2"
2	B-9004	9 Bank Light Assembly, 10"
3	B-9005	9 Bank Light Assembly, 9"
4	B-9006	9 Bank Light Assembly, 7-7/8"
5	B-9007	9 Bank Light Assembly, 7"
6	B-9109	4 Bank Light Assembly
7	B-9008	9 Bank Light Assembly, 6-3/4"
8	B-9009	9 Bank Light Assembly, 8-3/4"
9	B-9121	4 Bank Light Assembly
10	B-9119	4 Bank Light Assembly
11	B-9167	4 Bank Light Assembly
12	B-9120	4 Bank Light Assembly

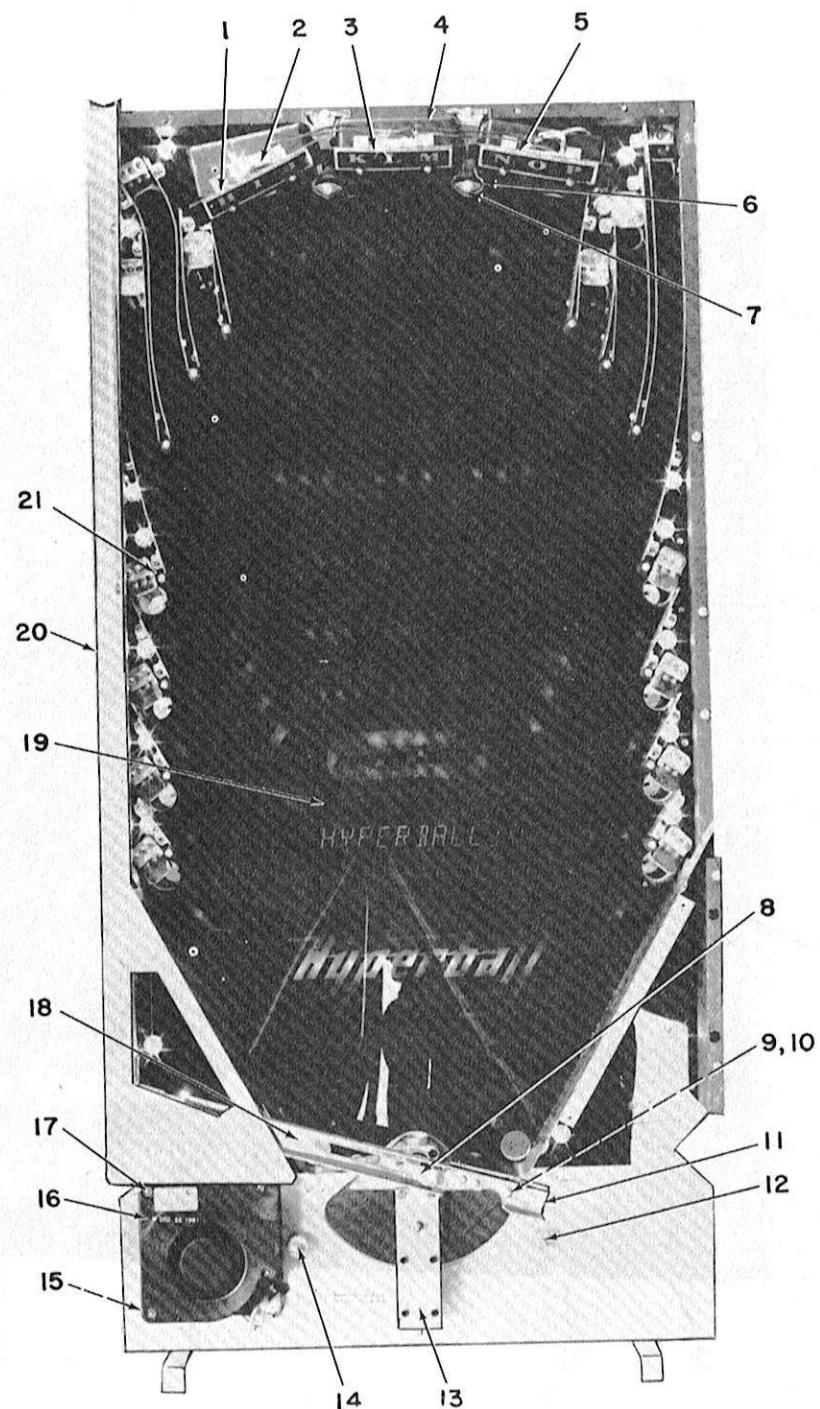
ITEM	PART NO.	DESCRIPTION
1	B-9012-1	Microswitch & Ball Drain Tube Assembly (Letter "T" only)
2	03-7715	Playfield Composite Cable Sleeve/Shield
3	C-9015	Lift-Up Target Assembly
4	B-9012	Microswitch & Ball Drain Tube Assembly
5	A-9010	Stand-Up Light Assembly
6	A-8262	Light Socket Assembly
7	01-7332	Alphanumeric Printed Circuit Board Mounting Bracket
8	5670-09699	12 Digit Alphanumeric Display
9	D-8910	Alphanumeric Display Assembly
10	B-6448-1	Fuse Clip Assembly
11	A-7438-5	Terminal Strip
12	5070-06258	Diode, 1N4001, 1.0A
13	5580-09613	Relay, Single Pole, 12VDC, 30A
14	5012-09084	Resistor, 100 Ohm, 5%, 3W
15	5012-09686	Resistor, 330 Ohm, 10%, 7W
16	B-9089	Ball Shooter Pivot Assembly
17	5012-09364	Resistor, 2.2 Ohm, 5%, 2W
18	A-7438-5	Terminal Strip
19	01-7440	Playfield Hold-Down Bracket
20	01-7461	Stand Bracket
21	23-6555	Alphanumeric Display Mask
22	A-9166	Flashing Light Assembly
23	A-9165	Flashing Light Assembly



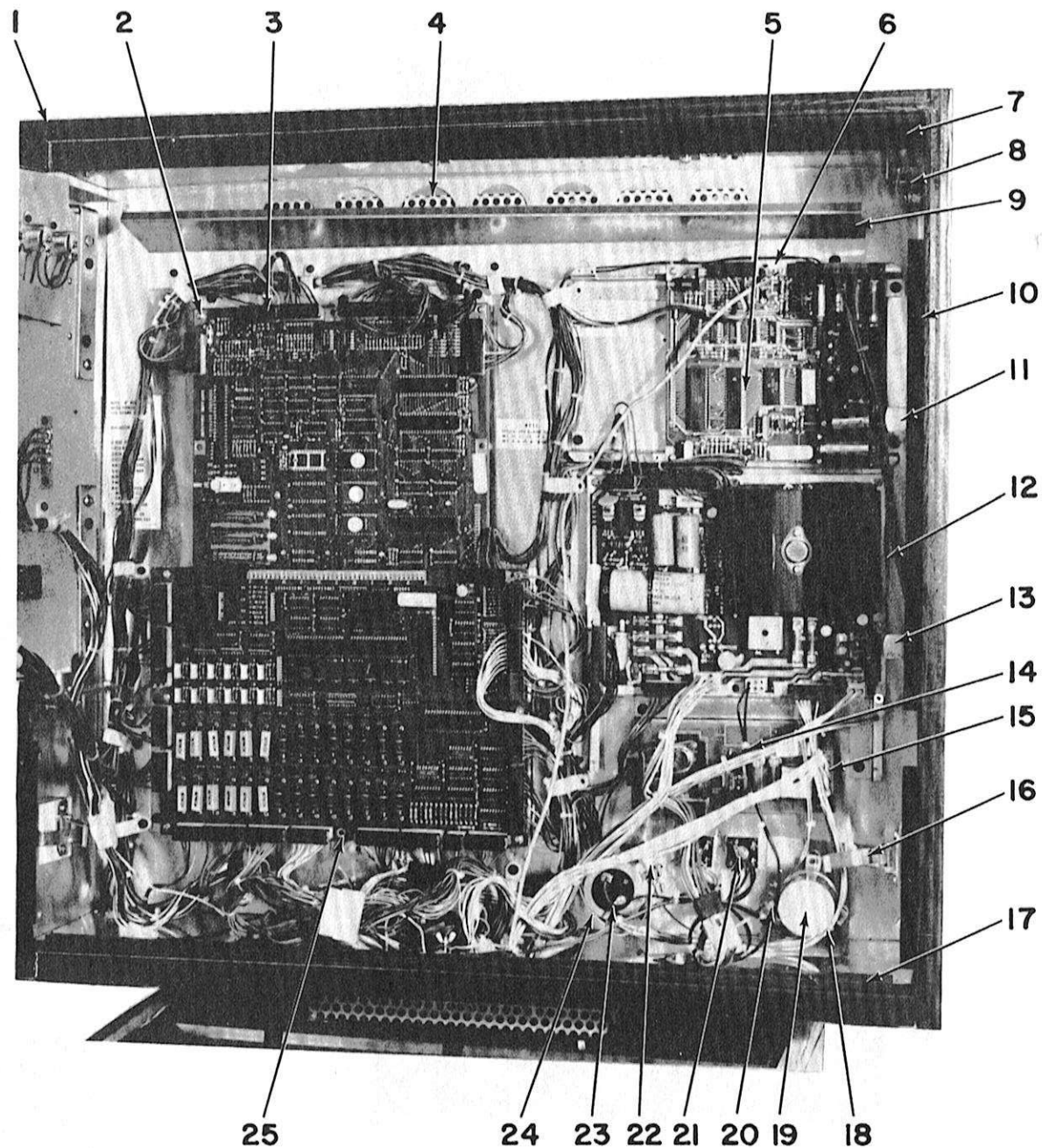
ITEM	PART NO.	DESCRIPTION
1	B-8980	Left Wall "G" Ball Guide Assembly
2	A-8974	"H" Ball Guide Assembly
3	A-8973	"P" Ball Guide Assembly
4	A-8972	Left Wall "R" Ball Guide Assembly
5	B-8984	Left Wall "T" Ball Guide Assembly
6	B-8977	Right Wall "S" Ball Guide Assembly
7	B-8976	Left Wall "S" Ball Guide Assembly
8	B-8981	Right Wall "R" Ball Guide Assembly
9	C-8986	Right Wall "T" Ball Guide Assembly
10	01-6933	Ball Eject Hole Deflector
11	A-8942	"U" Ball Guide Assembly
12	A-8940	"V" Ball Guide Assembly
13	A-8944	"W" Ball Guide Assembly
14	C-8946	Lower Right Ball Deflector Plate
15	C-8947	Lower Left Ball Deflector Plate
16	A-8943	"B" Ball Guide Assembly
17	A-8945	"C" Ball Guide Assembly
18	A-8941	"D" Ball Guide Assembly
19	B-8982	Left Wall "E" Ball Guide Assembly
20	B-8985	Right Wall "E" Ball Guide Assembly
21	B-8978	Left Wall "F" Ball Guide Assembly
22	B-8975	Right Wall "G" Ball Guide Assembly
23	B-8979	Right Wall "F" Ball Guide Assembly

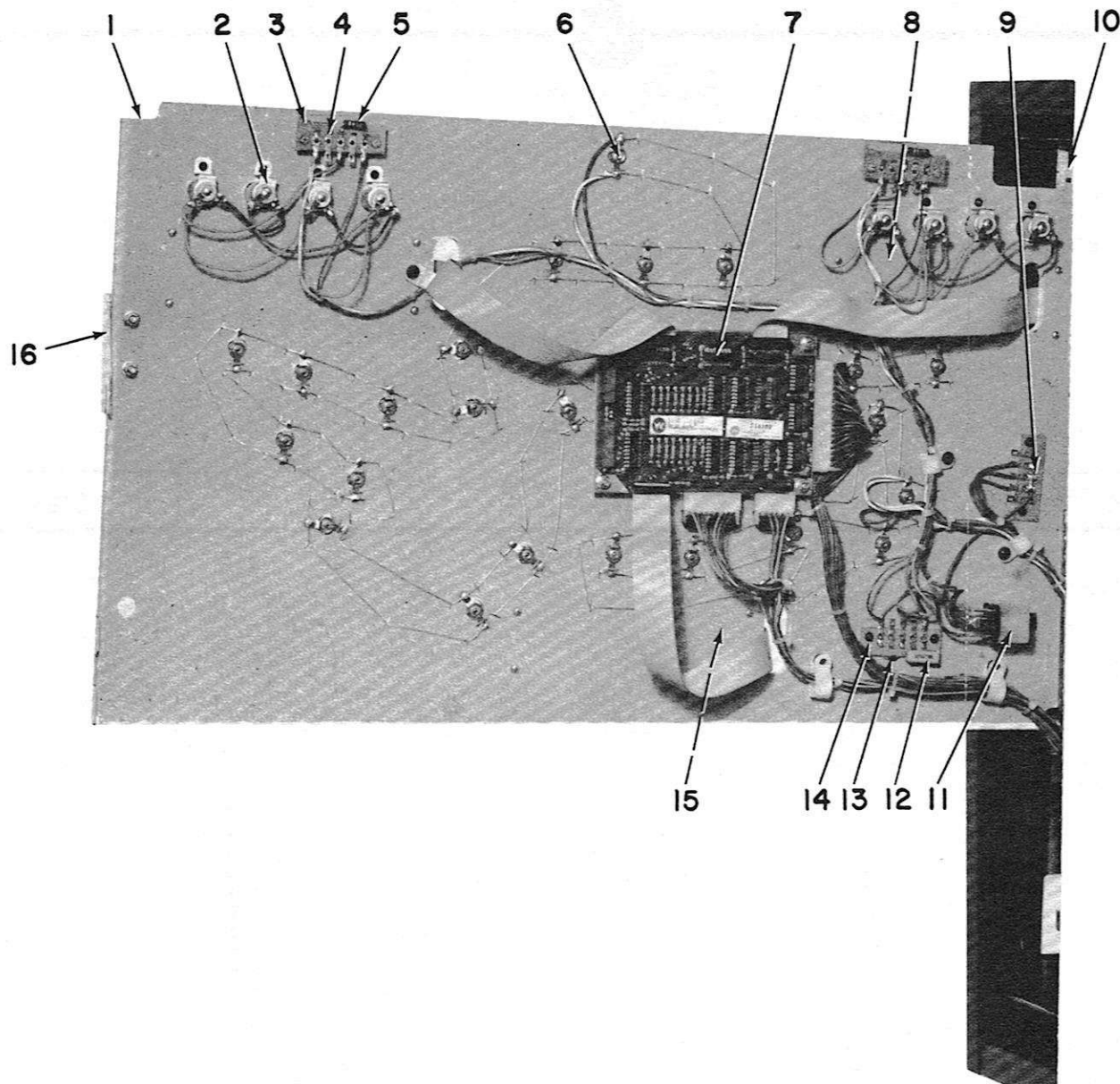


ITEM	PART NO.	DESCRIPTION
1	A-9170	Playfield Letter Plastic, H I J
2	B-9168	Lift-Up Target Light Assembly
3	A-9171	Playfield Letter Plastic, K L M
4	03-7683	Lift-Up Target Housing Assembly
5	A-9172	Playfield Letter Plastic, N O P
6	02-4057	Short Bumper Post
7	23-6556	Bumper Post Sleeve
8	01-7410	Shooter Feed Trough Ball Deflector
9	02-4085	Shooter Feed Trough Spacer (Not Shown)
10	01-7415	Shooter Feed Trough Clip (Not Shown)
11	C-9128	Shooter Feed Trough Complete Assembly
12	02-3992	Bumper Post
13	C-9138	Ball Shooter Assembly
14	23-6551	Bumper Post Sleeve
15	23-6535	Fan Motor Bumpers (Not Shown)
16	14-7925	Ball Shooter Fan Motor
17	01-7463	Ball Shooter Fan Plastic Support
18	01-7409	Shooter Feed Trough
19	31-1033	Screened Playfield Plexiglass
20	B-9123	Ball Return Trough Assembly
21	02-4056	Bumper Post
	31-1006-509	Complete Set of Screened Playfield Plastics (Not Shown)
	08-7389	Tempered Glass Playfield Cover (Not Shown)

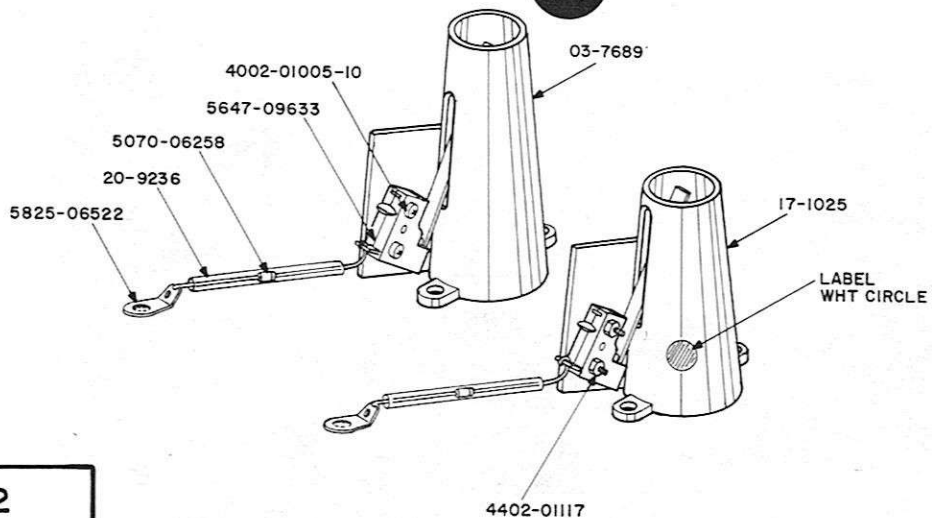


ITEM	PART NO.	DESCRIPTION
1	509-BB	HYPERBALL Backbox (Complete)
2	B-8015	CPU Mounting Bracket
3	D-8343	CPU Complete Assembly
4	01-6645	Venting Screen
5	C-8277	Sound Board Complete Assembly (W/Brackets)
6	D-8224-509	Sound Board Assembly
7	03-7578-2	Backglass Top Binder
8	20-6542-TB	Lock and Keys
9	01-6630	Anti-Theft Bracket
10	03-7578-1	Backglass Left and Right Binders
11	A-8044	Lock Link Assembly
12	D-8345	Power Supply Board Assembly
13	A-7993	Lock Cam Assembly
14	B-9052	Power Switching Board Complete Assembly (W/Brackets)
15	C-8938	Power Switching Board Assembly
16	20-9266	Trunk Latch
17	01-4162-7	Backglass Bottom Binder
18	B-8551	Capacitor and Bracket Assembly
19	5040-09051	Capacitor, 30,000 MFD, 25V
20	20-9213	Metal Clamp
21	5100-09050	Bridge Rectifier, 35A, 100V
22	03-7739	Capacitor Clamp
23	5040-09868	Capacitor, 1200 MFD, 200V
24	B-9251	Capacitor and Cable Assembly
25	R-8937	Control Board Assembly
	01-6646	Catch Bracket (Not Shown)
	31-1030	Screened Backglass (Not Shown)



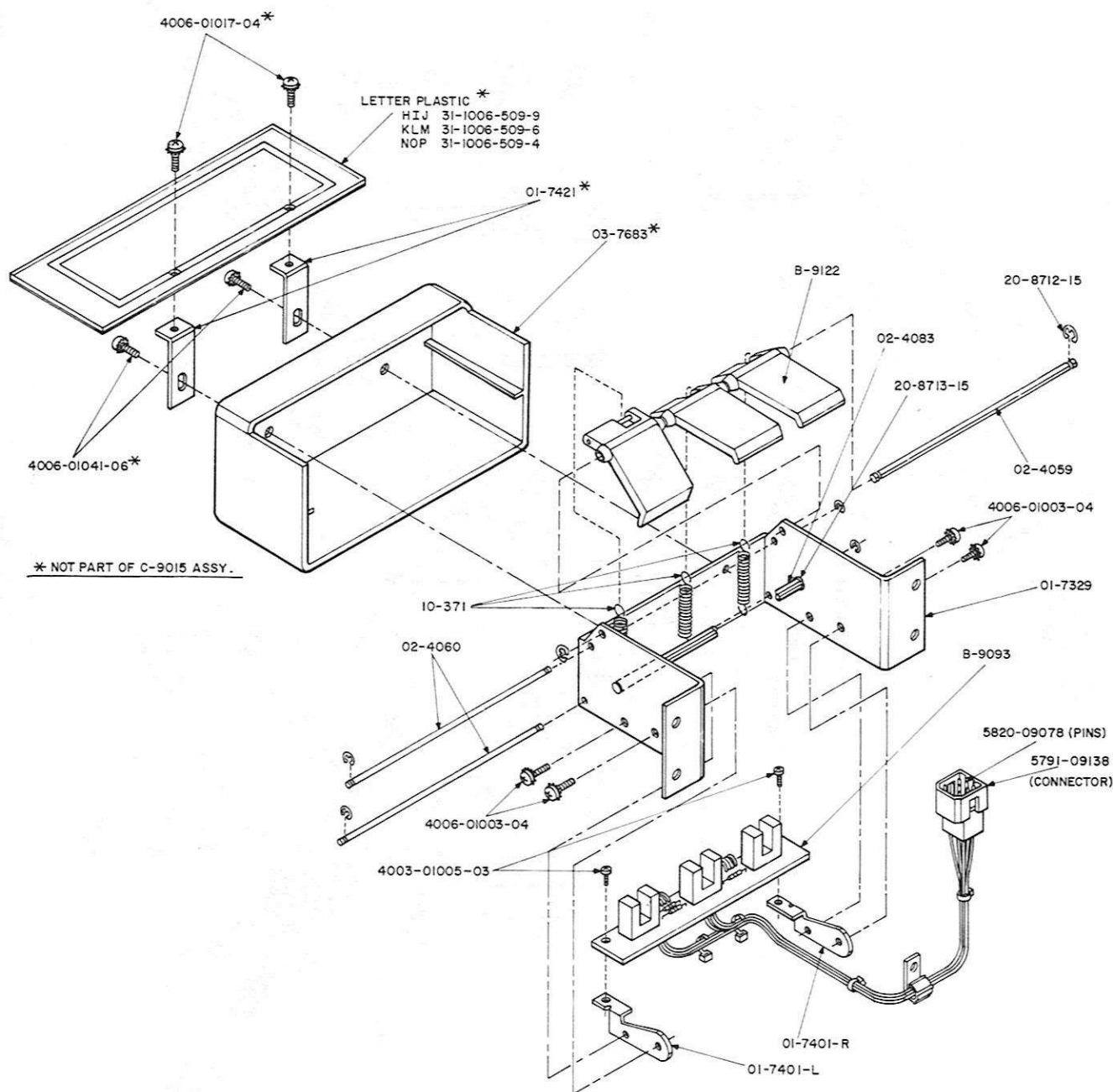


ITEM	PART NO.	DESCRIPTION
1	509-IN	HYPERBALL Insert Door Assembly
2	B-9242-1	4 Position Light Strip
3	A-7438-5	Terminal Strip
4	5012-09686	Resistor, 330 Ohm, 10%, 7W
5	5012-09364	Resistor, 2.2 Ohm, 5%, 2W
6	A-8262	Light Socket Assembly
7	C-8363	Master Display Board Assembly
8	C-8364	Slave Display Assembly
9	A-9161	Terminal Strip Assembly
10	01-6571	Hinge Mounting Bracket
11	5580-09613	Relay, Single Pole, 12VDC, 30A
12	5012-09084	Resistor, 100 Ohm, 5%, 3W
13	5070-06258	Diode, IN4001, 1.0A
14	A-7438-5	Terminal Strip
15	C-8365	Split Slave Display Assembly
16	01-6655	Insert Door Latch
	01-6652	Insert Door Stop Bracket (Not Shown)

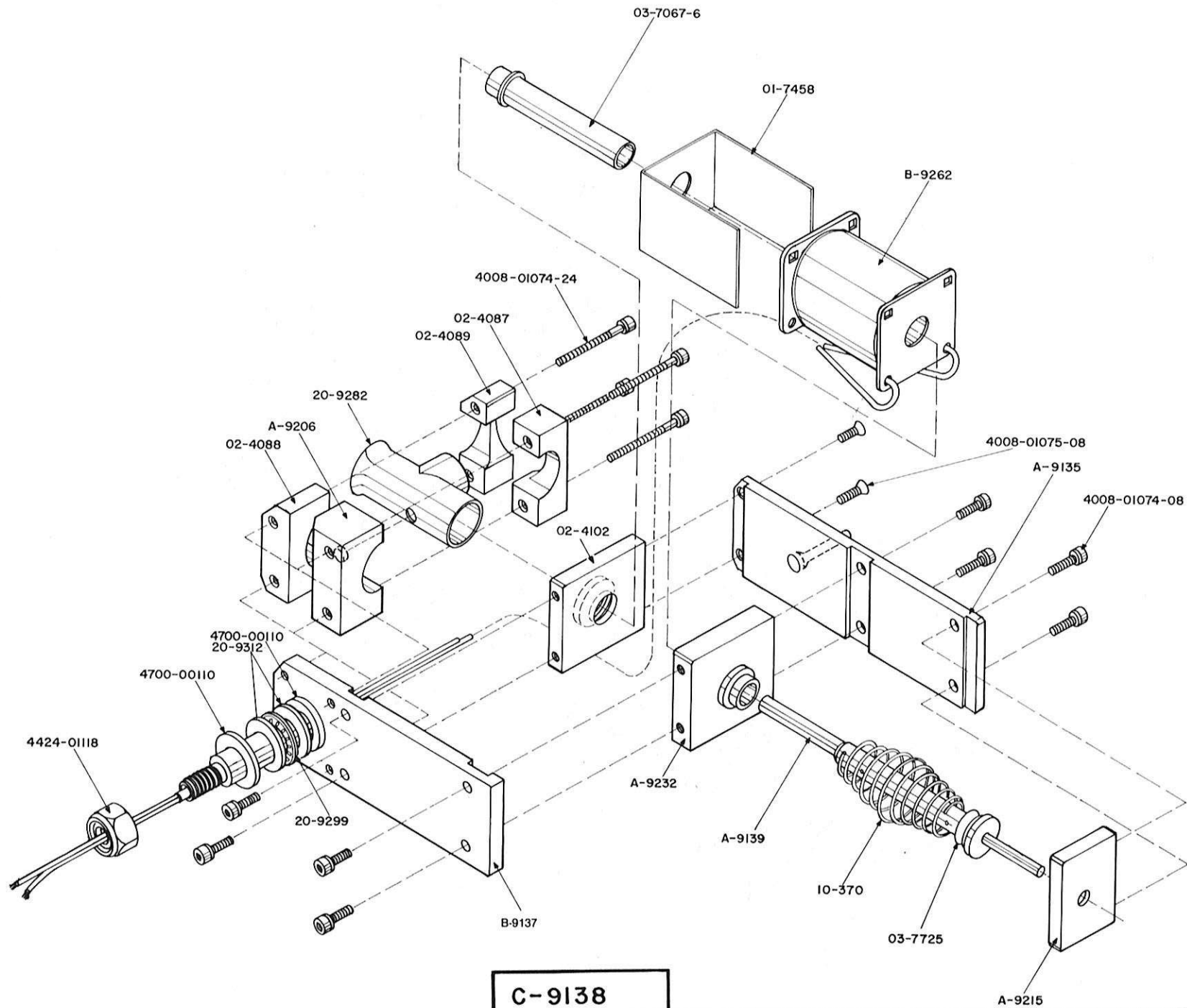


B-9012

B-9012-1

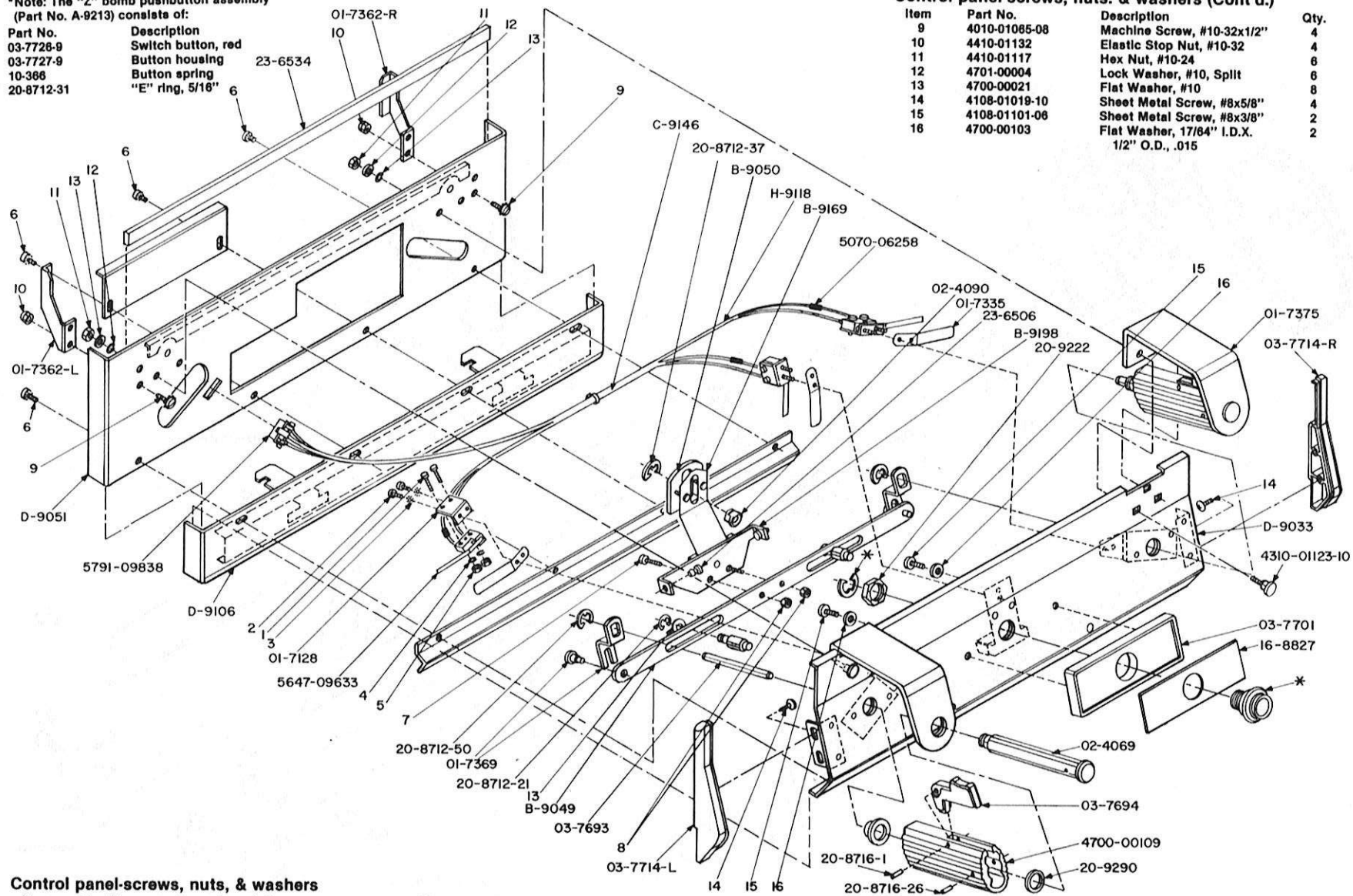


C-9015



*Note: The "Z" bomb pushbutton assembly (Part No. A-9213) consists of:

Part No.	Description
03-7728-9	Switch button, red
03-7727-9	Button housing
10-366	Button spring
20-8712-31	"E" ring, 5/16"



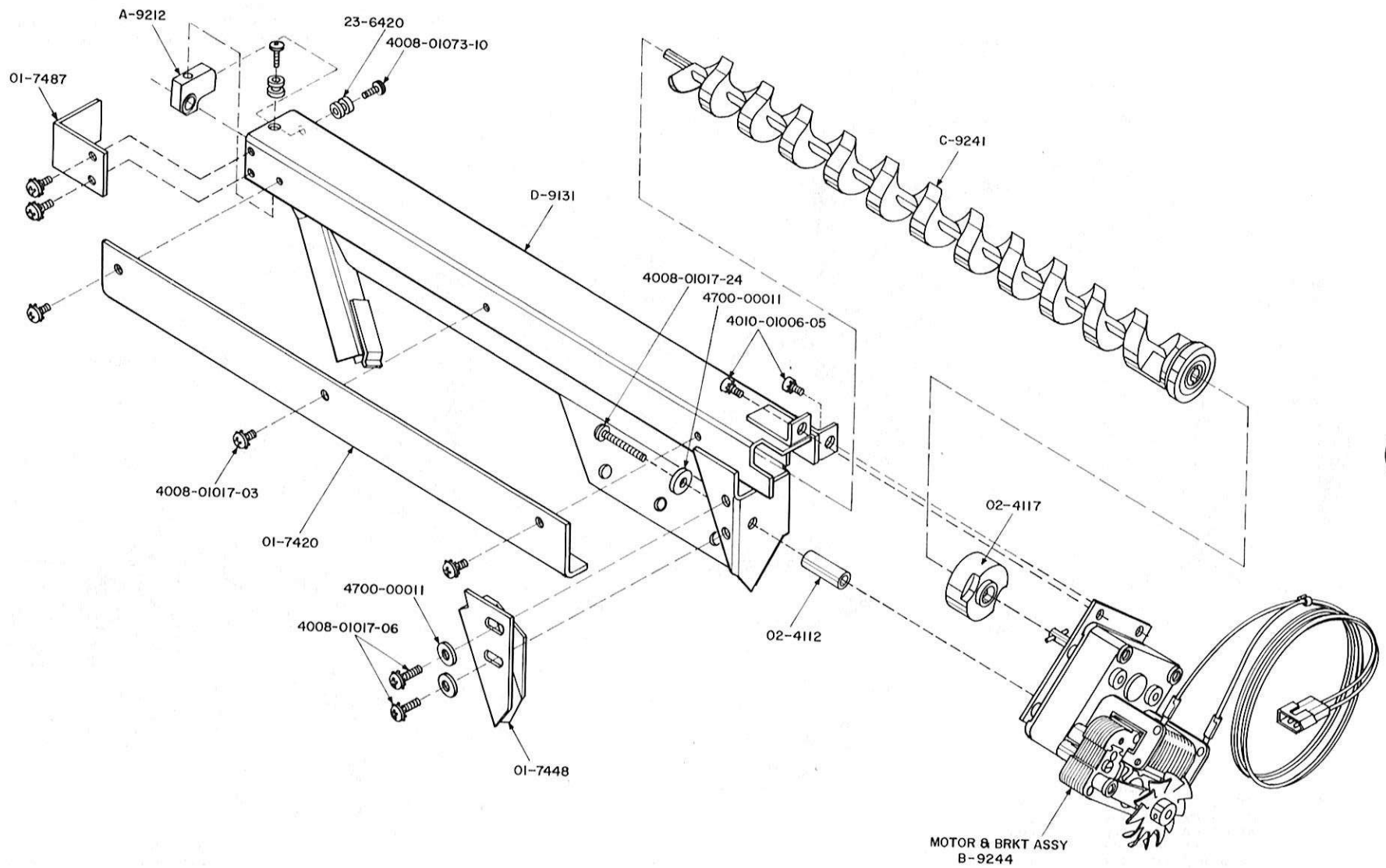
Control panel-screws, nuts, & washers (Cont'd.)

Item	Part No.	Description	Qty.
9	4010-01085-08	Machine Screw, #10-32x1/2"	4
10	4410-01132	Elastic Stop Nut, #10-32	4
11	4410-01117	Hex Nut, #10-24	6
12	4701-00004	Lock Washer, #10, Split	6
13	4700-00021	Flat Washer, #10	8
14	4108-01019-10	Sheet Metal Screw, #8x5/8"	4
15	4108-01101-06	Sheet Metal Screw, #8x3/8"	2
16	4700-00103	Flat Washer, 17/64" I.D.X. 1/2" O.D., .015	2

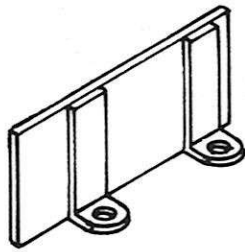
Control panel-screws, nuts, & washers

Item	Part No.	Description	Qty.
1	4002-01052-08	Machine Screw, #2-56x1/2"	6
2	4005-01052-04	Machine Screw, #5-40x1/4"	6
3	4703-00015	Lock Washer, #4, External	6
4	4701-00024	Lock Washer, #2, Split	6
5	4402-01117	Hex Nut, #2-56	6
6	4008-01003-05	Machine Screw, #8-32x5/16"	4
7	4008-01016-16	Machine Screw, #8-32x5/8"	2
8	4408-01119	Elastic Stop Nut, #8-32	2

D-9033



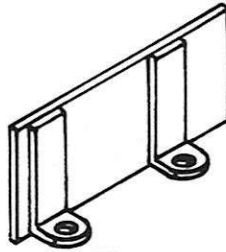
R-9133



"C"

A-8945

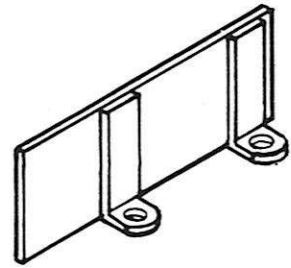
1/2 SIZE



"V"

A-8940

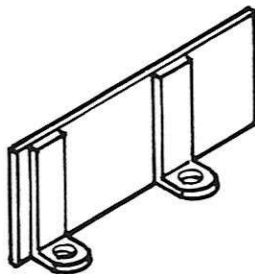
1/2 SIZE



"D"

A-8941

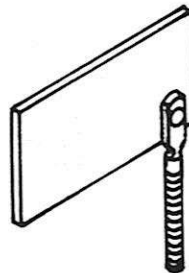
1/2 SIZE



"U"

A-8942

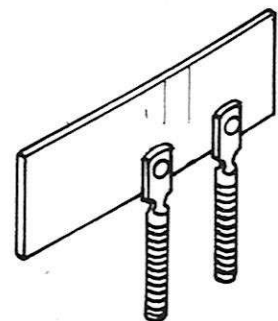
1/2 SIZE



"R" LEFT

A-8972

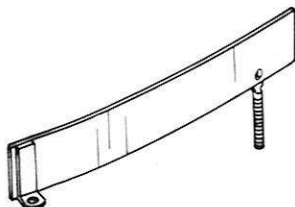
1/2 SIZE



"G" RIGHT

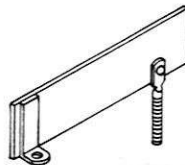
B-8975

1/2 SIZE



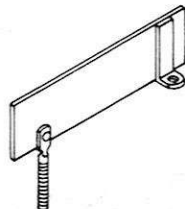
"E" RIGHT

B-8985



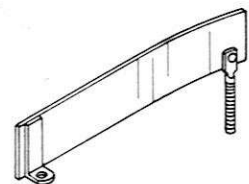
"H"

A-8974



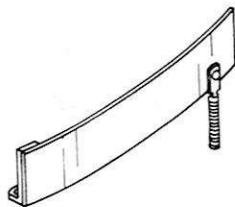
"P"

A-8973



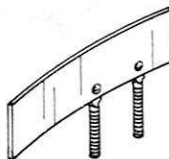
"S" LEFT

B-8976



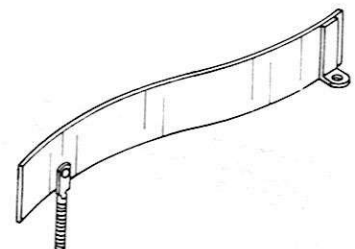
"G" LEFT

B-8980



"R" RIGHT

B-8981

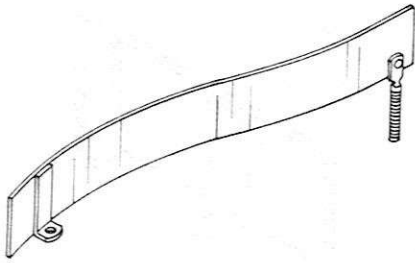


"F" RIGHT

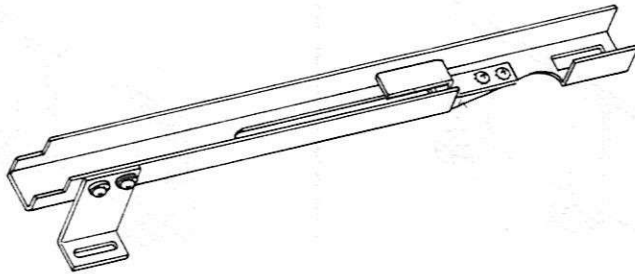
B-8979



1/4 SIZE UNLESS INDICATED

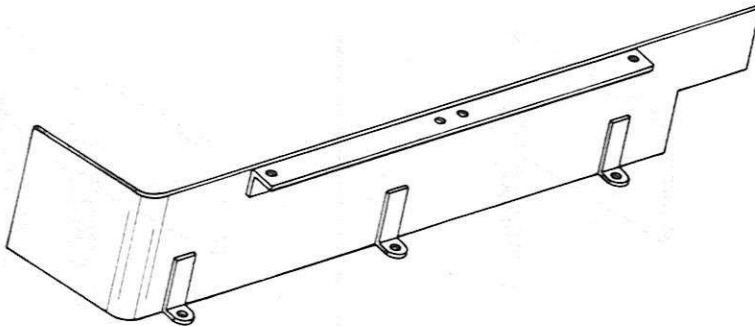


"F" LEFT
B-8978



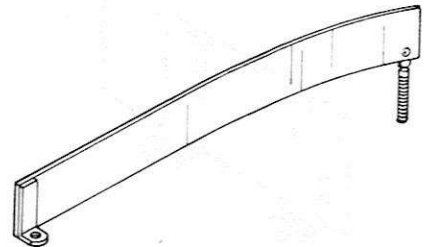
C-9128

SHOOTER FEED TROUGH ASSY

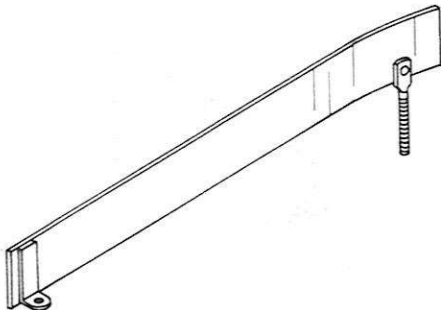


C-8946

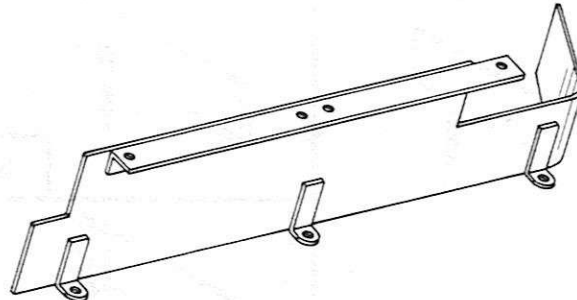
LOWER RIGHT DEFLECTOR PLATE



"T" LEFT
B-8984

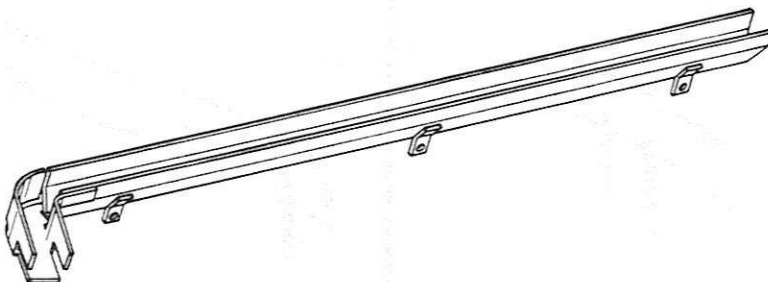


"S" RIGHT
B-8977



C-8947

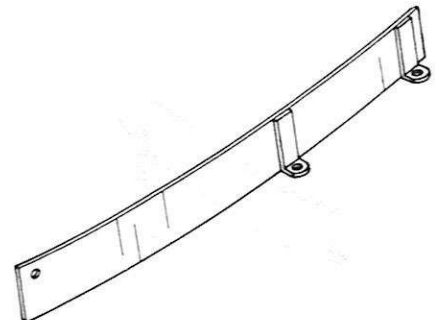
LOWER LEFT DEFLECTOR PLATE



1/8 SIZE

B-9123

BALL RETURN TROUGH ASSY



"E" LEFT
B-8982

CONNECTORS

NOTE: ALL CONNECTORS WHITE UNLESS OTHERWISE STATED.

1P2	5792-09290	9 Pin, Female; uses 5823-09360 polarizing key
1P3	5792-09288	4 Pin, Female; uses 5823-09360 polarizing key
1P4	5792-09288	4 Pin, Female; does not use polarizing key
1P5,1P6,1P7	5792-09290	9 Pin, Female; uses 5823-09360 polarizing key
1P8	5792-09302	12 Pin, Female; uses 5823-09360 polarizing key
2P2,2P3,2P4, 2P6,2P8,2P10, 2P11,2P12,2P13,2P14, 2P16,2P17,2P19,2P20	5792-09290	9 Pin, Female; uses 5823-09360 polarizing key
2P5, 2P15	5792-09517	6 Pin, Female; uses 5823-09360 polarizing key
2P7	5792-09303	15 Pin, Female; uses 5823-09360 polarizing key
2P9	5792-09288	4 Pin, Female; uses 5823-09360 polarizing key
2P18	5792-09526	3 Pin, Female; uses 5821-09079 pins
3P1	5792-09109	12 Pin, Female; uses 5820-09080 Male pin and 5821-09081 Female pins
3P2	5792-09108	6 Pin, Female; uses 5821-09081 pins
3P3, 3P8	5792-09336	9 Pin, Female; uses 5823-09360 polarizing key
3P4	5792-09302	12 Pin, Female; uses 5823-09360 polarizing key
3P5	5792-09517	6 Pin, Female; uses 5823-09360 polarizing key
3P6	5792-09303	15 Pin, Female; uses 5823-09360 polarizing key
3P9	5792-09454	2 Pin, Female; uses 5821-09081 pins
4P5	5790-09521	18 Pin, Board Edge Connector
4P6	5790-09518	6 Pin, Board Edge Connector
4P7	5790-09519	9 Pin, Board Edge Connector
6J1	5791-09316	6 Pin, Male; uses 5820-09080 pins
6P1	5792-09318	6 Pin, Female; Blue; uses 5821-09081 pins

NOTE: ALL CONNECTORS WHITE UNLESS OTHERWISE STATED.

6J2	5791-09124	1 Pin, Male; uses 5820-09078 pins
6P2	5792-09125	1 Pin, Female; uses 5821-09079 pins
7J1	5791-09097	24 Pin, Male; uses 5820-09078 pins
7P1	5792-09098	24 Pin, Female; uses 5821-09079 pins
7J2	5791-09093	15 Pin, Male; uses 5820-09078 pins
7P2	5792-09094	15 Pin, Female; uses 5821-09079 pins
7J3, 7J4, 7J4A, 7J4B	5791-09316	6 Pin, Male; uses 5820-09080 pins
7P3, 7P4	5792-09318	6 Pin, Female; Blue; uses 5821-09081 pins
7P4A, 7P4B (220V)	5792-09317	6 Pin, Female; Red; uses 5821-09081 pins
7P4A, 7P4B (110V)	5792-09318	6 Pin, Female; Blue; uses 5821-09081 pins
7P4B, 220V	5792-09318	6 Pin, Female; Blue; uses 5821-09081 pins
7J5	5791-09838	5 Pin, Male; uses 5820-09078 pins
7P5	5792-09839	5 Pin, Female; uses 5821-09079 pins
7J6, 7J8	5791-09111	3 Pin, Male; uses 5820-09080 pins
7P6, 7P8	5792-09110	3 Pin, Female; uses 5821-09081 pins
8J1	5791-09093	15 Pin, Male; uses 5820-09078 pins
8P1	5792-09094	15 Pin, Female; uses 5821-09079 pins
8J2	5791-09549	36 Pin, Male; Black; uses 5820-09078 pins
8P2	5792-09550	36 Pin, Female; Black; uses 5821-09079 pins
8J3	5791-09095	15 Pin, Male; uses 5820-09078 pins
8P3	5792-09096	15 Pin, Female; Black; uses 5821-09709 pins
8J4	5791-09111	3 Pin, Male; uses 5820-09080 pins
8P4	5792-09110	3 Pin, Female; uses 5821-09081 pins

NOTE: ALL CONNECTORS WHITE UNLESS OTHERWISE STATED.

8J5,8J6,8J7	5791-09138	9 Pin, Male; uses 5820-09078 pins
8P5,8P6,8P7	5792-09139	9 Pin, Female; uses 5821-09079 pins
8J8	5791-09188	4 Pin, Male; uses 5820-09078 pins
8P8	5792-09189	4 Pin, Female; uses 5821-09079 pins
9J1	5791-09132	12 Pin, Male; uses 5820-09078 pins
9P1	5792-09133	12 Pin, Female; uses 5821-09079 pins
10P1	5792-09105	9 Pin, Female; uses 5822-09076 pins and 5823-09082 polarizing key
10P2	5792-09288	4 Pin, Female; does not use polarizing key
10P3	5792-09290	9 Pin, Female; uses 5823-09360 polarizing key
10P4	5792-09103	4 Pin, Female; uses 5822-09076 pins and 5823-09082 polarizing key
13J1	5791-09111	3 Pin, Male; uses 5820-09080 pins
13P1	5792-09110	3 Pin, Female; uses 5821-09081 pins
14P1,14P2,14P3	5792-09290	9 Pin, Female; uses 5823-09360 polarizing key
14P4	5792-09502	10 Pin, Female; uses 5823-09360 polarizing key
14J5	5791-09549	36 Pin, Male; uses 5820-09078 pins
14P5	5792-09102	36 Pin, Female; uses 5821-09079 pins
15P1	5792-09105	9 Pin, Female; uses 5822-09076 and 5823-09082 polarizing key
15P2	5792-09290	9 Pin, Female; uses 5823-09360 polarizing key
15P3	5792-09565	6 Pin, Female; uses 5823-09360 polarizing key
15P4	5792-09526	3 Pin, Female; uses 5823-09360 polarizing key
15J5	5791-09138	9 Pin, Male; uses 5820-09078 pins
15P5	5792-09139	9 Pin, Female; uses 5821-09079 pins
15J6	5791-09188	4 Pin, Male; uses 5820-09078 pins
15P6	5792-09189	4 Pin, Female; uses 5821-09079 pins

