



MODEL 28" and 39" GEM

GLASS FRONT MERCHANDISER ILLUSTRATED PARTS MANUAL

L0125 REV H

AUTOMATED MERCHANDISING SYSTEMS INC
255 WEST BURR BLVD.
KEARNEYSVILLE, WV 25430
304-725-6921 - Fax 304-725-6983

INTERNATIONAL A.M.S. S DE RL DE CV
KM. 9 CARR. AL CASTILLO NO. 8200
MPIO. DE EL SALTO, JAL. MEXICO 45680
5233-3-6-88-07-17 - Fax 5233-3-6-88-13-14

info@amsvendors.com
www.amsvendors.com

www.amsint.com.mx
servicio@amsint.com.mx

THIS PAGE INTENTIONALLY LEFT BLANK

AMS Glass Front Merchandiser
Model 28" and 39" GEM
Illustrated Parts Manual

Table of Contents

SECTION	PAGE
INTRODUCTION	
General Introduction	5
Manual Organization	5
Merchandiser Identification	6
Patent Disclosure	7
Publication Notice	7
CABINET DOOR ILLUSTRATION	8
MODEL 28" HOPPER ILLUSTRATION	12
MODEL 39" HOPPER ILLUSTRATION	14
CABINET ILLUSTRATION	16
BASE PLATE ILLUSTRATION	18
DOOR, CONTROL BAY ILLUSTRATION	20
RIGHT RAIL MOUNT ILLUSTRATION	24
LEFT RAIL MOUNT / LIGHTING ILLUSTRATION	28
MODEL 28" STANDARD TRAY ILLUSTRATION	30
MODEL 28" SCROLLING PRICE TRAY ILLUSTRATION	34
MODEL 39" (SNACK/CANDY/FOOD) STANDARD TRAY ILLUSTRATION	36
MODEL 39" SCROLLING PRICE TRAY ILLUSTRATION	40
1.5" HELIX TRAY ILLUSTRATION	44
ELECTRICAL HARNESS ILLUSTRATIONS	48
MODEL 28" HELIX ILLUSTRATIONS	60
MODEL 39" HELIX ILLUSTRATIONS	62

THIS PAGE INTENTIONALLY LEFT BLANK

GENERAL INTRODUCTION

The purpose of this manual is to give our customers a way of identifying major service parts for repair and replacement. The illustrations and parts list in this manual are for identification only. Some optional parts are also shown.

Illustrations of these major parts are keyed with our part numbers. The illustrations help identify the general design, position and orientation of these parts. The note section may also give important information.

Please refer to the section on merchandiser identification on the following pages. Without the model style and serial number it may be difficult to identify the required part.

Parts should be ordered from your distributor.

It is our intent to assist our customers with up-to-date documentation. However, this manual may not show all parts, variations or changes. Some parts may be shown out of scale. This manual is itself subject to change without notice. If any errors are found, please notify AMS so the correction can be included in later revisions. Engineering data and third party information are generally not included. The graphical data, group assembly data, parts, part assembly, parts breakout information and tabular data conveyed by this manual is proprietary and belongs to AMS, and holders without prior consent of or without knowledge of and by AMS must surrender this data immediately.

All measurements are in inches except where specified as Metric.

MANUAL ORGANIZATION

This manual is divided into general sections. Each section is further divided into the various subsections or subassemblies. These lead off with one or more illustrations showing the parts and each part is identified with a number. Note that some part numbers are for assemblies fabricated as a unit at AMS and are replaceable only as a unit. Also, other part numbers identify optional parts which may or may not have been contracted for and factory installed by AMS.

The part number in the illustration is listed with the description or title for that part. In some instances there may be multiple parts to choose from. The correct service or repair part for the style of merchandiser must be selected. A quantities column in the list indicates quantities required.

There is a note section where additional information may be found.

This manual contains additional and new information for a vendor as currently manufactured. Older revisions of this manual should be kept with older vendors.

MERCHANDISER IDENTIFICATION

When requesting service, replacement parts or technical assistance, please use the **Model Number** and the **Serial Number with Date Code**, found on the Serial Plate (Refer to Figure 1 below) affixed to the merchandiser. The plate is usually located inside the window. The information contained on this plate is necessary to determine what parts, kits, or maintenance apply to your vendor.

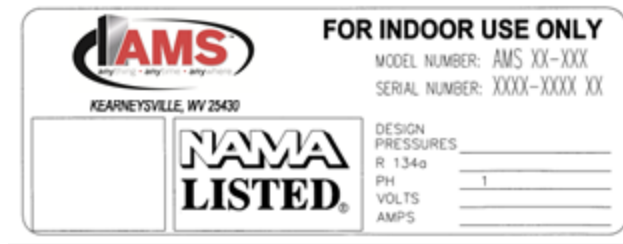
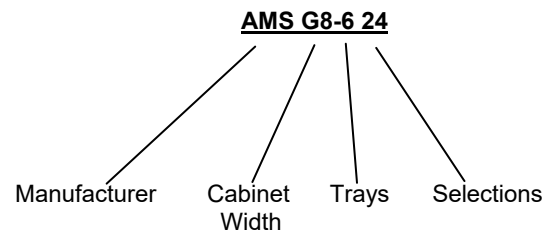


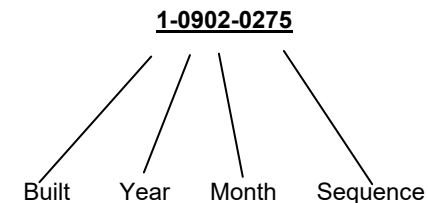
Figure 1 Typical Serial Plate

Model Number Breakdown



AMS G8-6-24 means this vendor is an Automated Merchandising Systems merchandiser, **28"** wide, with six (**6**) trays making available twenty four (**24**) positions for different products.

Example of Serial Number Breakdown



1-0902-0275 is translated as U.S. built (1), manufactured in 2009, month of February, and was the 275th manufactured.

Note: Manufactured in Mexico, Built = (2)

The next two digits identify the month. The first month of the year is **01** and the last month is **12**.

PATENT DISCLOSURE

This merchandiser and/or certain of its components are covered by one or more of the following U.S. and international patents;

U.S. PATENTS: 6,145,699; 6,384,402; 6,520,373; 6,708,079; 6,794,634; 7,191,915; 7,343,220; 7,742,837; 7,446,302; 8,003,931

CANADIAN PATENT: 2,329,314

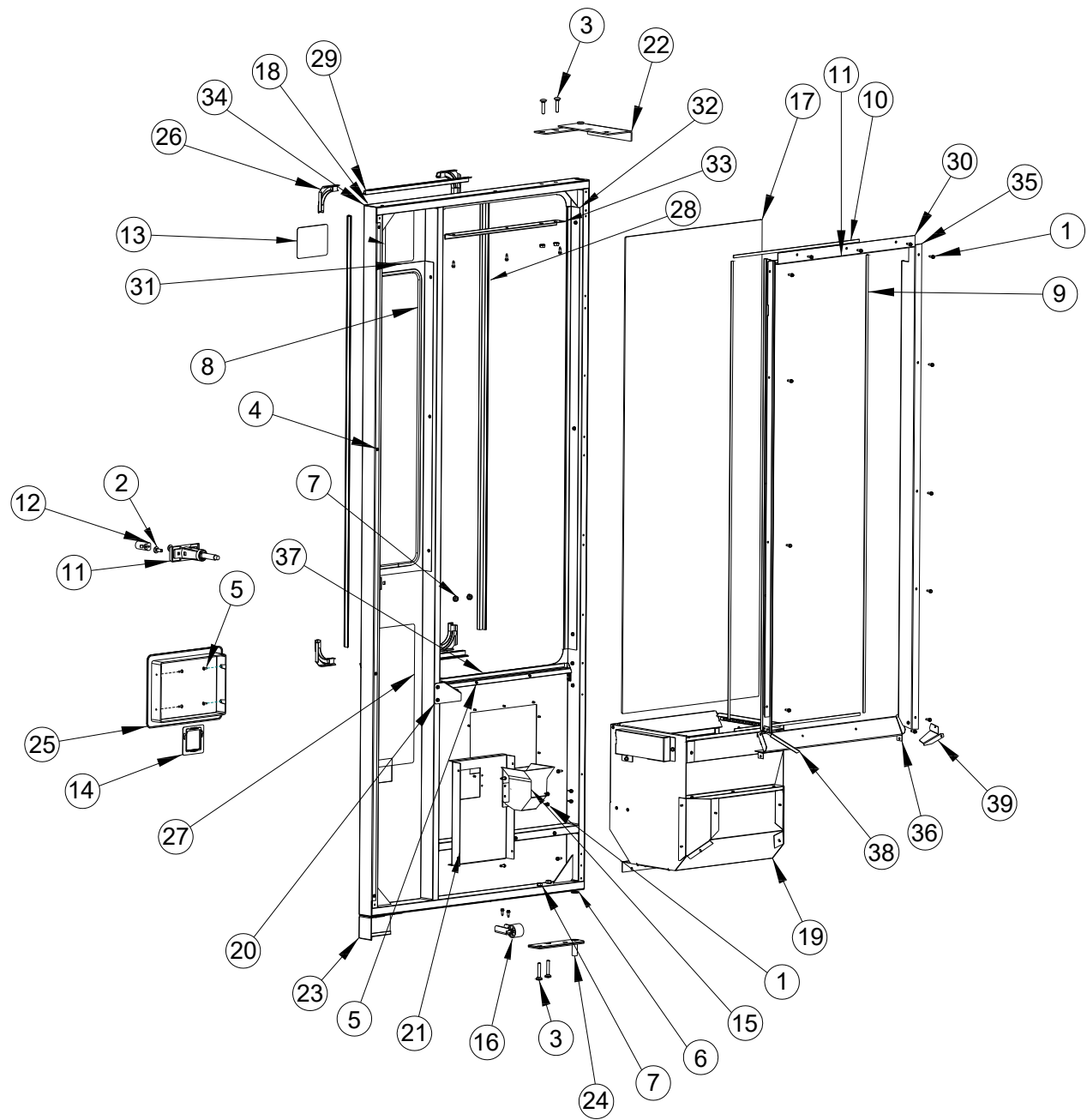
MEXICO PATENT: 230,714

PUBLICATION NOTICE

L0125, Revision H, ECN 4485, 03/14/19

It is our intent to assist our customers with up-to-date documentation: however, this manual may not contain all updates and is subject to revision without notice. Please contact our Service Department with your requests or comments.

CABINET DOOR ILLUSTRATION



CABINET DOOR PARTS LIST

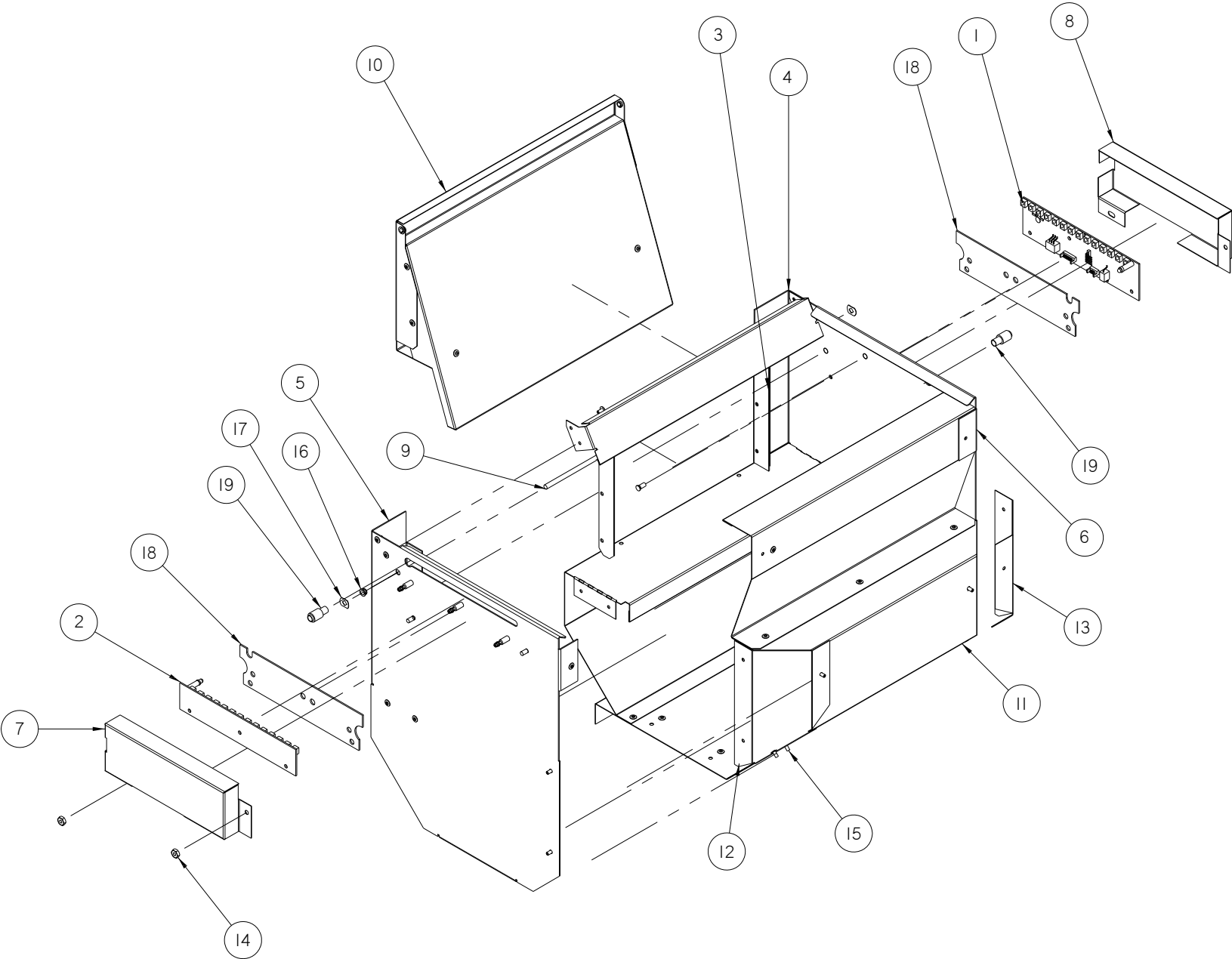
ITEM	PART NO.	PART DESCRIPTION	QTY.	NOTES
-	25259	Cabinet Door 28" Slim GEM (Complete)	1	Color Black
-	25263	Cabinet Door 39" Slim WIDE (Complete)	1	Color Black
1	3000	Sheet Metal Screw TEK 8-18 (1/2" Long)	49	(As Needed)
2	3004-06	Carriage Bolt, 1/4-20, 3/4"	2	
3	3004-10	Carriage Bolt, 1/4-20, 1 1/4"	4	
4	3009-02	Rivet, Steel Blk., 1/4"-Grip 1/8"	31	(As Needed)
5	3009-04	Rivet, Pop, Steel, 1/8"	7	
6	3023-15	Washer, Flat Nylon, 1/2	3	
7	3153-11	Nut, Hex w / Lock washer, 1/4-20	6	
8	3684	Edge Trim, Self Locking, 66.51" LG	1	
9	3726	Tape, Black Polyethylene Foam, .06 X 1/4 x 44.5	2	
10	3726	Tape, Black Polyethylene Foam, .06 X 1/4 x 16.5	2	
11	3818	Assy., T-Handle, Short Thread	1	
12	20131-05	Standard, T-Handle Cylinder w/1002 Keys	1	
13	21318-01	Decal, Warning, No Tip or Rock	1	English, Spanish, French
14	23372-01	Trim, Plastic Coin Cup, Gray	1	
15	23373-01	Assy., Plastic Coin Cup, Gray	1	
16	23718	Assy., Roller, Slim	1	Model 39" Wide Only
17	23865	Glass, Single Pane, 28" Slim	1	Model 28" Slim
	24164	Glass, Single Pane, 39" Wide	1	Model 39" Wide
18	23871	Assembly, Door Frame, Weldment, 28" Slim	1	Model 28" Slim
	24163	Assembly, Door Frame, Weldment, 39" Wide	1	Model 39" Wide
19	23873	Assembly, Hopper, 28" Slim	1	Model 28" Slim
	24170	Assembly, Hopper, 39" Wide	1	Model 39" Wide
20	23875	Brace, Door Kicker	1	
21	23881	Panel, Coin Cup Mounting, Slim	1	
22	23946	Assy., Top Hinge, Gem	1	
23	24005	False Leg, Gem	1	

ITEM	PART NO.	PART DESCRIPTION	QTY.	NOTES
24	24047	Assy., Door Hinge, Bottom, Gem	1	
25	24063-01	Trim, Vend Eyelet, 28" Gem, Epoch, Gray	1	Model 28" Wide
	21624-01	Trim, Vend Eyelet, Gray	1	Model 39" Wide
26	24099	Corner, Window Trim, Plastic	4	
27	24489	Decal, Programming Instructions, S3	1	
28	24761-09	Trim, Glass Installation, V2 (41.89")	2	2 Per Door
29	24761-10	Trim, Extruded Edge, 13.54"	2	Model 28" Slim
	24761-15	Trim, Glass Installation, V2 (24.12")	2	Model 39" Wide
30	24799	Retainer, Glass, Top, Gem, Epoch	1	Model 28" Slim
	27927	Retainer, Glass, Top, Gem, Epoch, C/L	1	Model 39" Wide
31	24822	Stiffener, Escutcheon, Gem, Epoch	1	
32	24880	Bracket, Vertical Window Stiffener, Gem, Epoch	2	
33	24881	Bracket, Top Window Stiffener, Gem, Epoch	1	Model 28" Slim
	24882	Bracket, Top Window Stiffener, Gem, Epoch	1	Model 39" Wide
34	25276	Door Skin, 28" Slim, Gem, Epoch	1	Color: Black
	25277	Door Skin, 39" Wide, Gem, Epoch	1	Color: Black
35	25279	Retainer, Glass, Left Side, Gem, Epoch	1	
36	25280	Retainer, Glass, Bottom, Gem, Epoch	1	Model 28" Slim
	25285	Retainer, Glass, Bottom, Gem, Epoch	1	Model 39" Wide
37	25281	Bracket, Bottom Window Stiffener, Gem, Epoch	1	Model 28" Slim
	25286	Bracket, Bottom Window Stiffener, Gem, Epoch	1	Model 39" Wide
38	25282	Assy., Vertical Kicker, Right, Gem, Epoch	1	
	25283	Product Kicker, Door, Right, Gem, Epoch	1	
39	25284	Kicker, Right Side, Gem, Epoch	1	

Note: Door skin decal (if equipped) is not shown in parts list.

THIS PAGE INTENTIONALLY LEFT BLANK

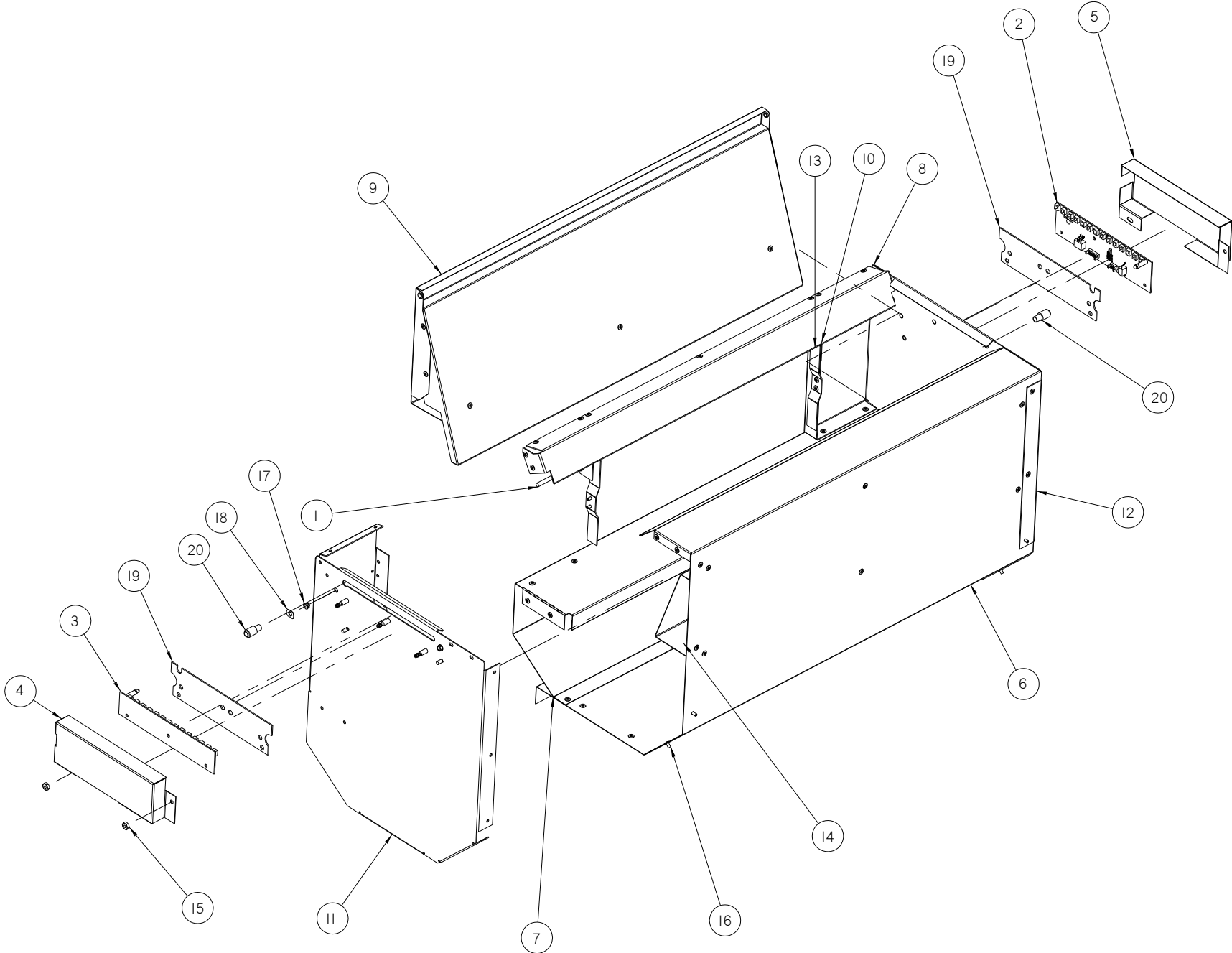
MODEL 28" HOPPER ILLUSTRATION



MODEL 28" HOPPER PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
-	23873	Assembly, Hopper, 28" Slim	
-	24461	Pad, Bottle Hopper, 28" Gem	Optional, Not Shown
-	24462	Cover, Bottle Hopper Pad, 28" Gem	Optional, Not Shown
1	27665-01	Sensor Board, Primary, Ver. 6, Green	Add (1) Sensor Extension 26051
2	27666	Sensor Board, Secondary, Ver. 6	Add (1) Sensor Extension 26051
3	23486	Hopper Frame	
4	23874	Deflector, Hopper	
5	23877	Assembly, Hopper Right Side	
6	23877-01	Assembly, Hopper Left Side	
7	23878	Bracket, Sensor Cover, Right	
8	23878-01	Bracket, Sensor Cover, Left	
9	23913	Vend Door Shaft	
10	23932	Assembly, Hopper Door	
11	23933	Assembly, Hopper Body	
12	23956	Hopper, Back Side, Left	
13	23956-01	Hopper, Back Side, Right	
14	3006-08	#8-32 Hex Nut	
15	3009-02	Rivet, Steel, 1/8" Black	
16	3015	Bearing, Nyliner	
17	3113	Tinnerman Fastener, 3/16	
18	25813	Lens, Delivery Sensor, Gem	
19	26051	Sensory Extension	

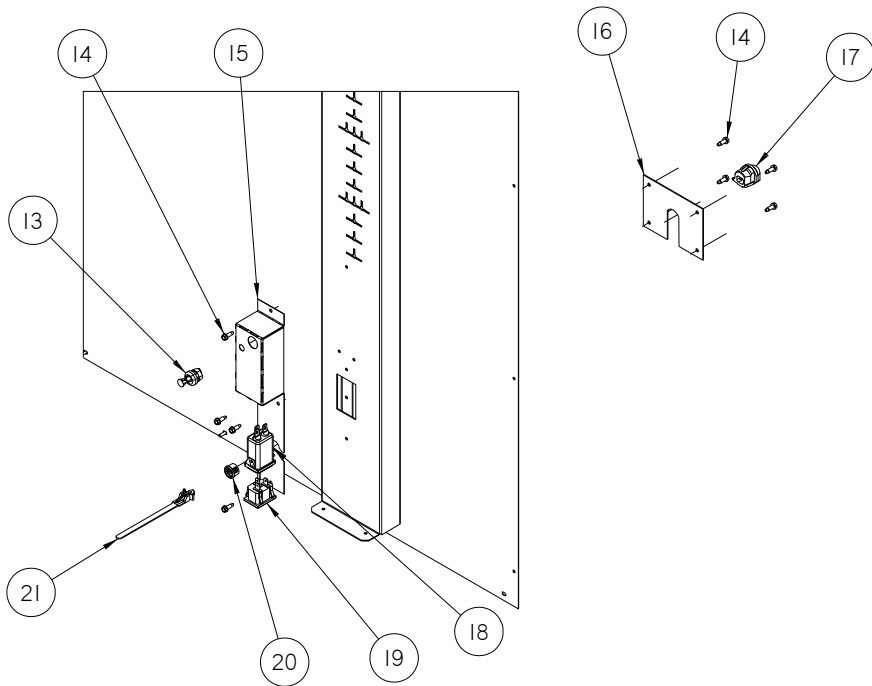
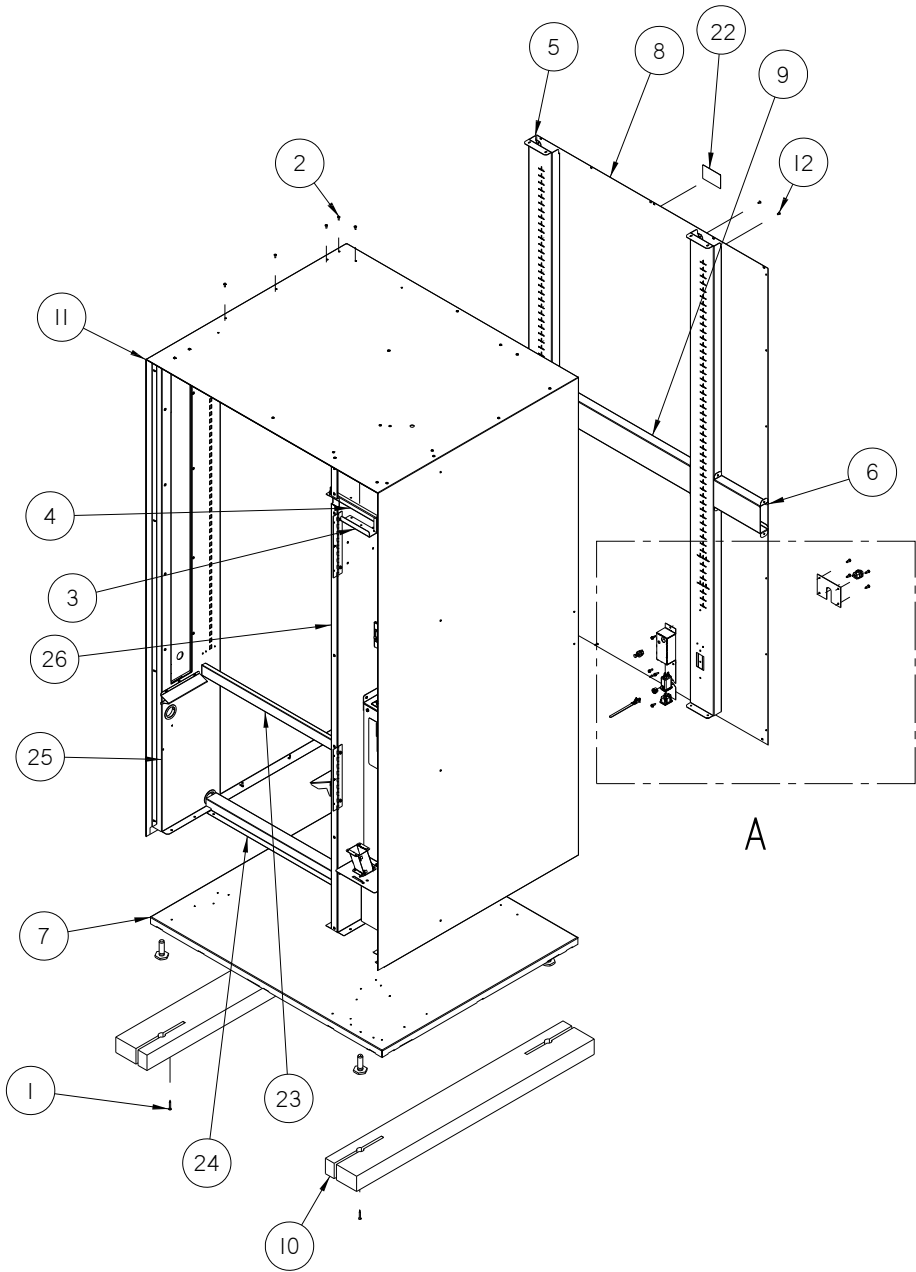
MODEL 39" HOPPER ILLUSTRATION



MODEL 39" HOPPER PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
-	24170	Assembly, Hopper, 39" Wide	
-	24491	Pad, Bottle Hopper, 39" Gem	Optional, Not Shown
-	24492	Cover, Bottle Hopper Pad, 39" Gem	Optional, Not Shown
1	20108	Vend Door Shaft	
2	27665	Sensor Board, Primary, Ver. 6, Red	Add (1) Sensor Extension 26051
3	27666	Sensor Board, Secondary, Ver. 6	Add (1) Sensor Extension 26051
4	23878	Bracket, Sensor Cover, Right	
5	23878-01	Bracket, Sensor Cover, Left	
6	24173	Panel, Hopper, Bottom	
7	24174	Panel, Hopper, Front	
8	24175	Deflector, Hopper	
9	24176	Assembly, Hopper Door	
10	24181	Frame, Hopper	
11	24182	Assembly, Hopper Right Side	
12	24183	Assembly, Hopper Left Side	
13	24188	Retainer, Hopper Trim	
14	24226	Insert, Hopper	
15	3006-08	#8-32 Hex Nut	
16	3009-02	Rivet, Steel, 1/8" Black	
17	3015	Bearing, Nyliner	
18	3113	Tinnerman Fastener, 3/16	
19	25813	Lens, Delivery Sensor, Gem	
20	26051	Sensor Extension	

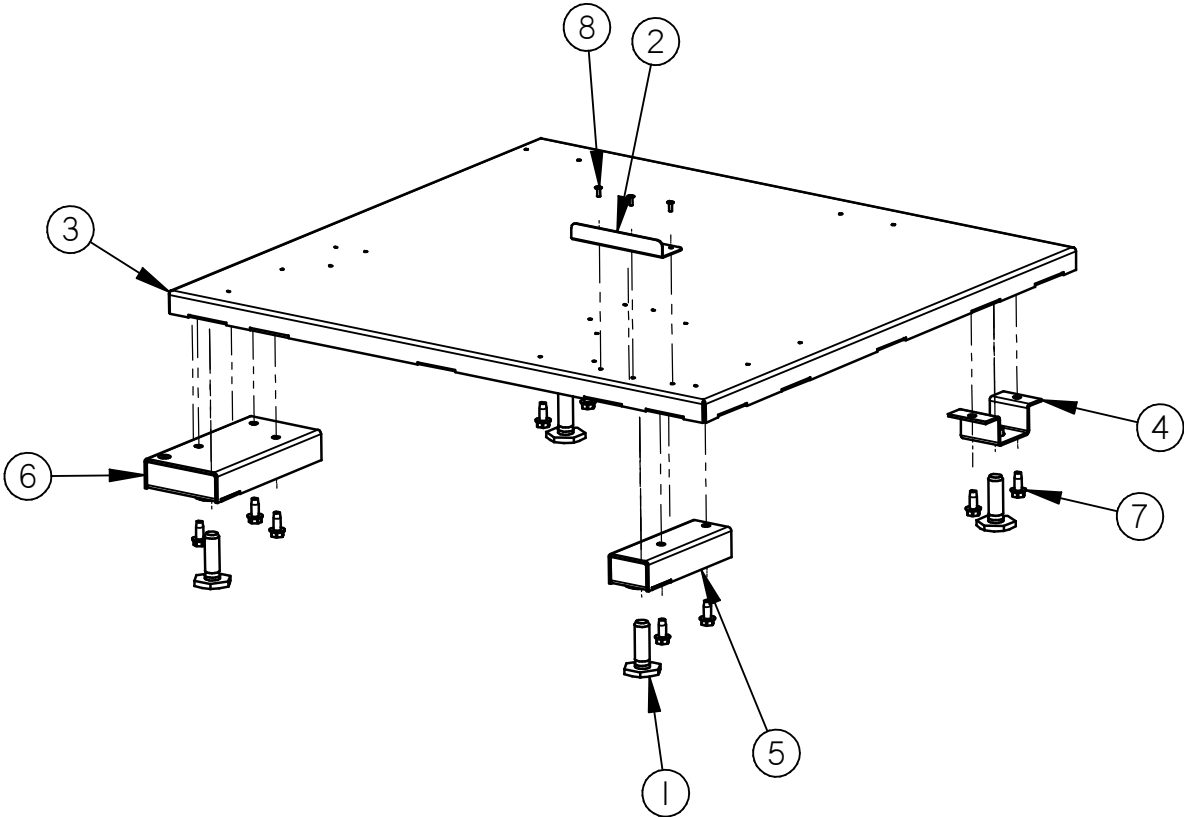
CABINET ILLUSTRATION



CABINET PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
	23925	Assembly, Cabinet, 28" Slim Gem	
	24143	Assembly, Cabinet, 39" Wide Gem	
1	3241-10	Screw, #6 Drywall	
2	3009-04	Rivet, Pop, Steel, 1/8, Black	
3	23701	Base, Coin Box Restriction	
4	23944	Spacer, Rail Mount, Gem	
5	23971	Rail Mount, Back, Gem	
6	24045	Support, Small, Rail Mount Back, Gem	
7	23853	Assembly, Base	Model 28" Slim
	26723		Model 39" Wide
8	23928	Wrapper Back	Model 28" Slim
	24147		Model 39" Wide
9	23456	Support, Back Rail Mount	Model 28" Slim
	24148		Model 39" Wide
10	24037	Pallet, Shipping	Model 28" Slim, Not Shown
	24158	Shipping Board	Model 39" Wide
11	23926	Wrapper, One Piece, Cabinet, 28" Gem	Model 28" Slim
	25962	Wrapper, One Piece, Cabinet, 39" Gem	Model 39" Wide
12	3009-02	Rivet, Steel, 1/8", Black	
13	3080	Strain Relief, Button Lock	
14	3000	Screw, Sheet Metal TEK 8-18 (1/2" Long)	
15	25790	Cover, IEC Inlet	
16	26009	Rear Cover Plate, Gem	
17	3908	Right Angle Strain Relief	
18	3827	Power Entry Module, CE	240V Only
19	3057	Inlet, Panel Mount, IEC	120V Only
20	3029-02	Bushing, Open/Closed	
21	3081	Wire Tie, 0.250 Panel Mount	
22	3270	Decal – Made In The USA	Not Shown
23	23960	Kicker, Back Plate, 28" Gem	Model 28" Slim
	24159	Kicker, Back Plate, 39" Gem	Model 39" Wide, (Remove For Gum & Mint Tray)
24	23464	Inner Hopper Slide Channel, Slim	Model 28" Slim
	24160	Channel, Wire Way, 39" Gem	Model 39" Wide
25	23891	Assy., Rail Mount Left, 28" & 39" Gem	
26	27359	Assy., Rail Mount Right, 28" & 39" Gem	
	24021	Bracket, Ballast Restraint	Canadian Model 28" Only (Not Shown)
	24053	Assembly, Stability Weight Weldment	Canadian Model 28" Only (Not Shown)

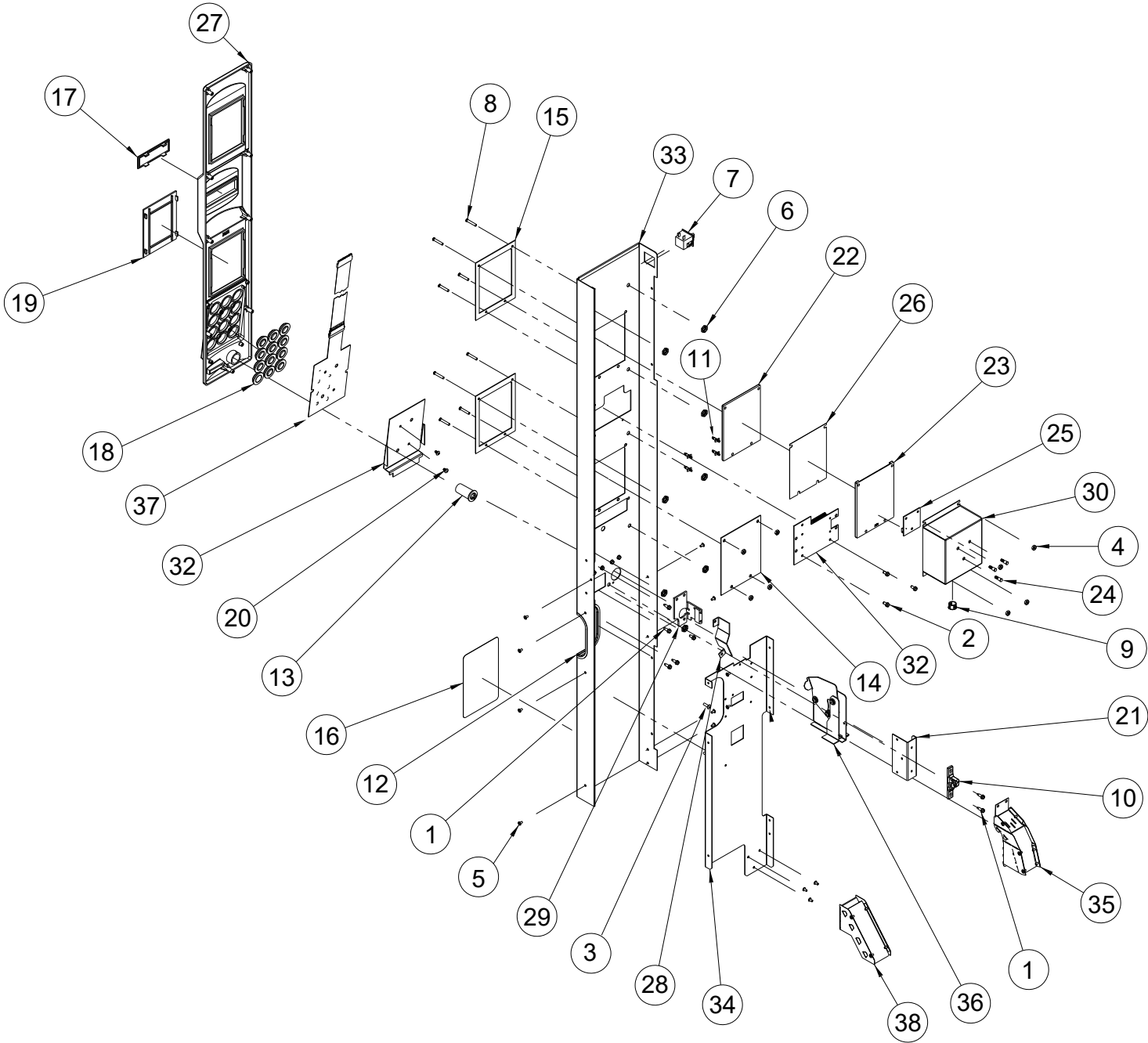
BASE PLATE ILLUSTRATION



BASE PLATE PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
	23853	Base Plate, 28" Slim Gem	
	26723	Base Plate, 39" Wide Gem	
1	20121	Leg, Leveling	
2	23701	Base, Coin Box, Restriction	
3	23855	Assembly, Base Weldment	Model 28" Slim
	25964		Model 39" Wide
4	23857	Assembly, Leg Weldment	
5	24009	Assembly, Leg, Extended Front	
6	24010	Assembly, Door Hinge w/Foot	
7	3007-06	Screw, 5/16 – 18, Type F	
8	3009-04	Rivet, Pop, Steel 1/8	

DOOR, CONTROL BAY ILLUSTRATION



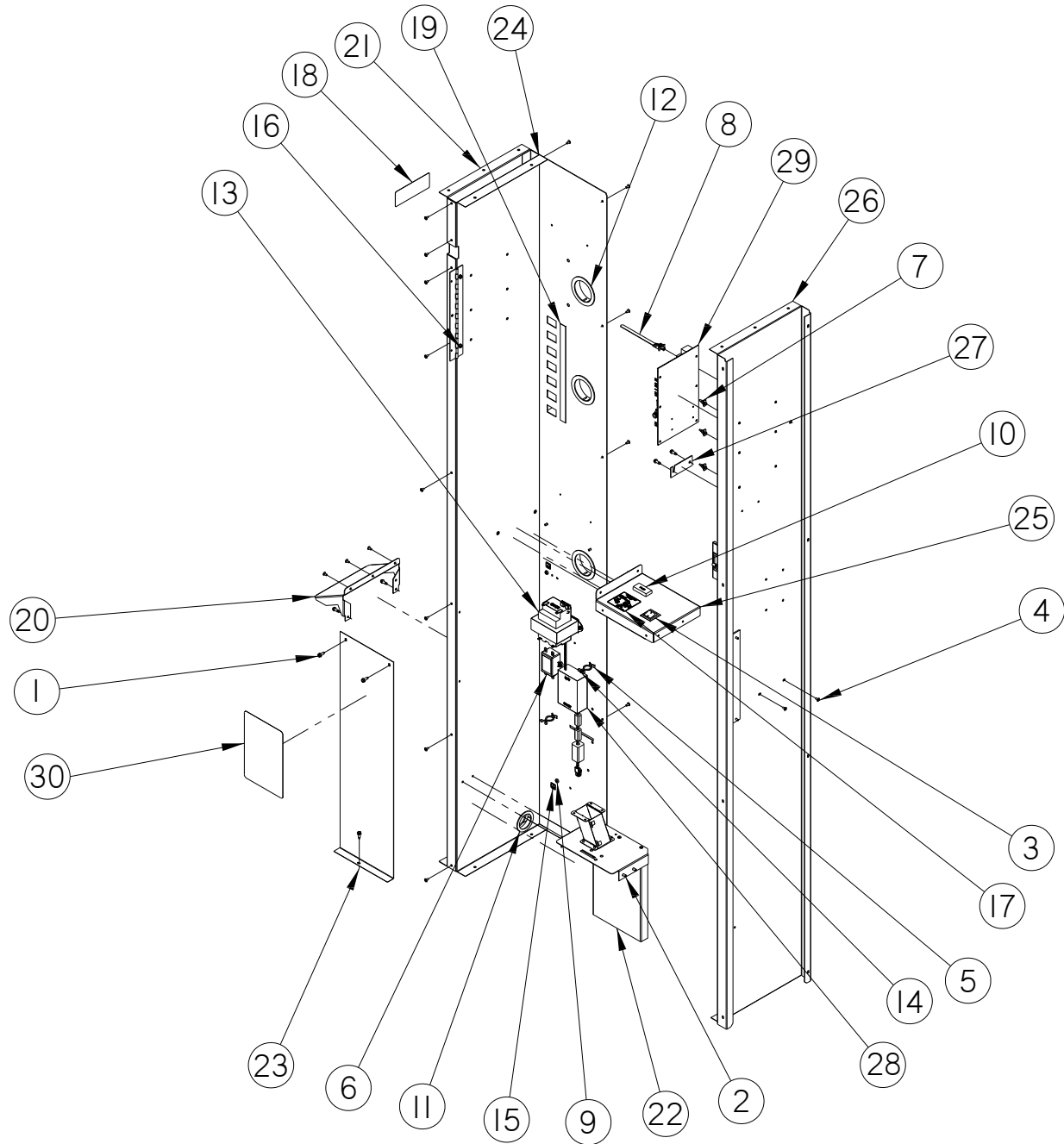
DOOR, CONTROL BAY PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
	24813	Assembly, Door, Control Bay	
1	3000	Screw, Sheet Metal TEK 8-18 (1/2" Long)	
2	3001-03	Screw, Sheet Metal, Type B, 8-18 (3/8" Long)	
3	3002-04	Screw, Machine, Type F 8-32	
4	3006-08	#8-32 Hex Nut	
5	3009-02	Rivet, Steel, Black 1/8" Dia. X 1/8" Grip	
6	3011	Self Threading Nut, 1/4" Stud	
7	3036	Switch, Panel Mount Rocker, Normally Closed	
8	3014-16	PEM Stud, #8-32, Flush Head	
9	3029-02	Bushing, Open/Closed	
10	3226-01	Keeper, Slam Action Latch	
11	3278	Circuit Board Support	
12	3693	Grommet Edging, 4.875" Long	
		Grommet Edging, 7.25" Long	
13	20081-01	Scavenger Button, Black	
14	20181	DBV Cover Plate	
15	20344	DBV Mounting Bezel Assembly	
16	21325	Decal, Warning, Tray Extension	English/Spanish/French
17	22175	Lens, Escutcheon, GFM, Version 2	Part of Assembly 24623
18	27473	Braille Button Matrix	
19	22184-01	DVB Cover Panel, Gray	
20	2389-02	Screw, Type B, No. 8, Pan Head, Phillips	

	PART NO.	PART DESCRIPTION	NOTES
21	24030	Bracket, Latch Mounting, 29" Slim	
22	24322	Insert, Place Holder, POS Display	
23	24323	Diffuser, Place Holder, POS Display	
24	3013-16	Stand-Off, Metal, Type SSS, .50	Part of Assembly 24339
25	24329	Board, LED, POS Display	
26	24330	Card, AMS, POS Display	
27	24616	Escutcheon, Plastic, Epoch	
28	24641	Scavenger Stop Bracket, Epoch	
29	24642	Bracket, Push Button Alignment, EPOCH	
30	24339	Assy., Lightbox w/Standoffs	
31	24739-03	Assembly, Display, EPOCH	
32	24782	Membrane Switch Mounting Plate, 4.76 x 3.57	
33	24814	Door Panel, Control Bay, GEM, EPOCH	
34	24816	Panel, Changer Mounting, GEM, EPOCH	
35	24817	Assy, Coin Chute, GEM, EPOCH	
36	24819	Assy., Scavenger System, GEM, EPOCH	
37	25688	Assembly, Lighted Keypad	
38	24832	Assy., Coin Chute, M.Panel to Bulkhead, Gem, Epoch	

THIS PAGE INTENTIONALLY LEFT BLANK

RIGHT RAIL MOUNT ILLUSTRATION



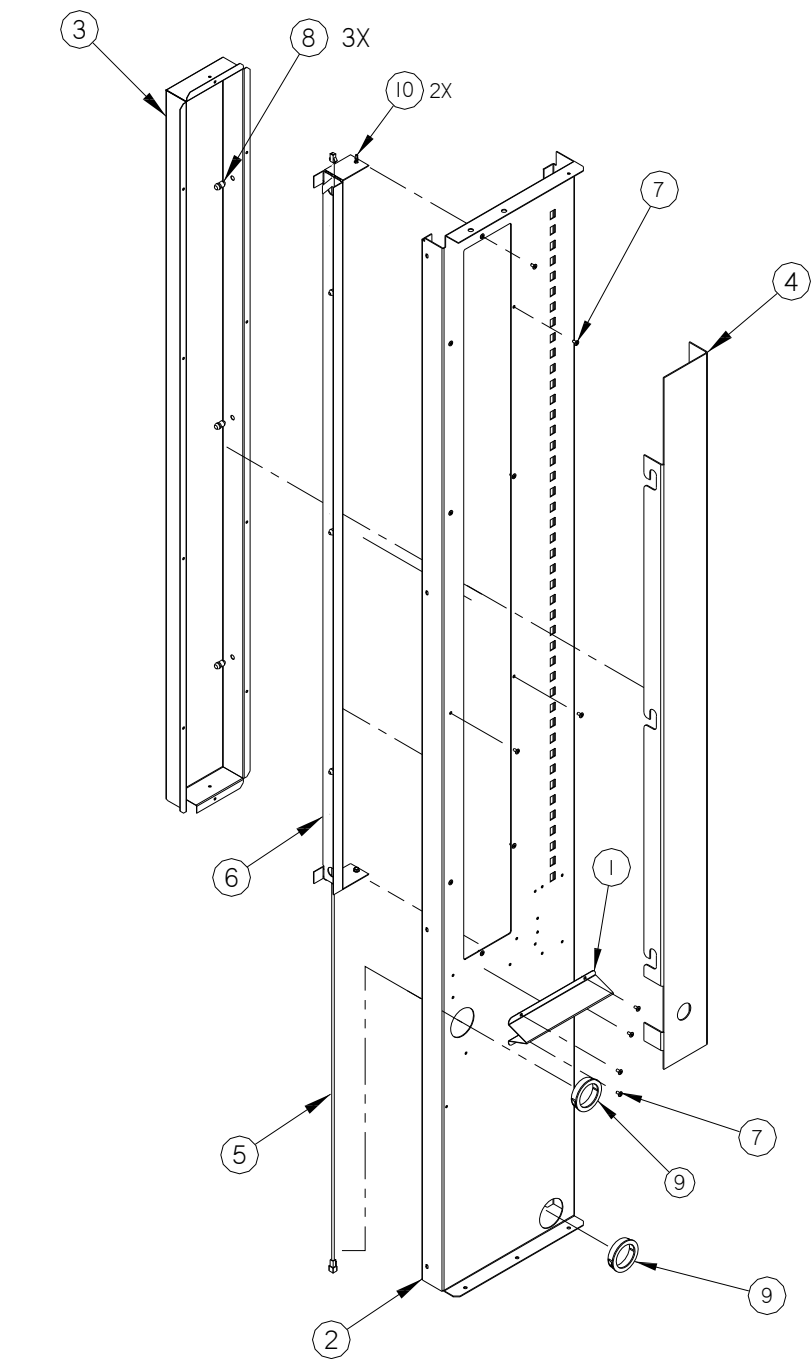
RIGHT RAIL MOUNT PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
	27359	Assembly, Rail Mount, Right, 39" Wide Gem & 28" Slim Gem	
1	3000	Screw, Sheet Metal TEK 8-18 (1/2" Long)	
2	3001-03	Screw, Sheet Metal, Type B, 8-18 (3/8" Long)	
3	30084	Switch, Rocker, On/Off	
4	3009-02	Rivet, Steel, Black 1/8 Dia. X 1/8 Grip	
5	3020	Wire Tie, Standoff	
6	3030	RFI Filter, 115V	Check Unit Voltage
7	3037-01	PC Board Support	
8	3081	Wire Tie, 0.250 Panel Mount	
9	3084-03	Screw, Sems, 8-32	
10	3133-30	Assembly, Fuse Holder And Fuses	
11	3205-24	Bushing, Plastic Snap, 1 3/4"	
12	3205-34	Bushing, Plastic Snap, 2 1/2"	
13	3257	Transformer, Class II, 120V/24V	Check Unit Voltage
	3258	Transformer, Class II, 240V/24V	Check Unit Voltage
14	3414-06	Screw, 4-40, Phillips Head, Trilobe 5/8 LG	
15	20756	Label, Ground	
16	20874	Hinge, Continuous, Window Panel	
17	21509	Decal, 24V Fuse, Ver. 2	
18	21594-52	Serial, Plate, AMS(WV), 120V	
	21594-53	Serial, Plate, AMS(WV), 240V	
19	22041	Decal, Tray Position, 1-7	
20	23887	Kicker, Rail Mount	
21	23888	Panel, Rail Mount, 29" Slim Vendor	
22	23900	Assembly, Bulkhead Multiuse Slim	
23	23908	Control Bay, Wire Cover	
24	23939	Insert, Rail Mount, 28" Gem	Model 28" Slim Gem

ITEM	PART NO.	PART DESCRIPTION	NOTES
25	23940	Support, Rail Mount, 29" Slim Vendor	
26	24853	Assembly, Rail Mount, Right, Inner, Gem, Epoch	
27	24897	Strap, Strain Relief, Keypad, Epoch	
28	25690	Harness, Power Supply, 12VDC	110V
	27913	Harness, Power Supply, 12VDC, w/Ferrites	220V
29	26910	Control Board, S3, Isolated LED Power	
30	27411	Decal, Warning, Snack, English/Spanish/French	

THIS PAGE INTENTIONALLY LEFT BLANK

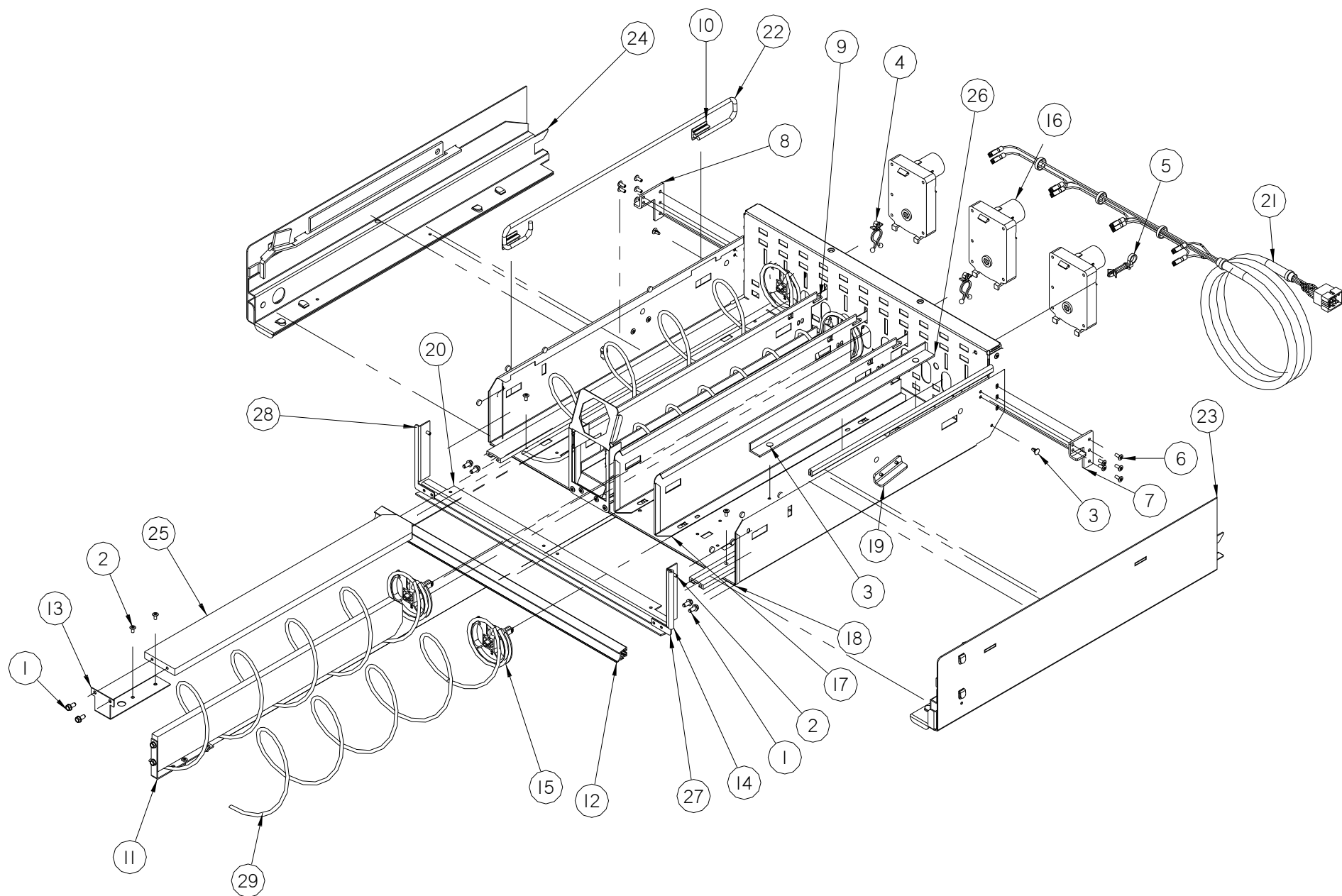
LEFT RAIL MOUNT / LIGHTING ILLUSTRATION



LEFT RAIL MOUNT / LIGHTING PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
-	23891-02	Assembly, Rail Mount Left, Gem, C/L, Non-CE	110V
	23891-03	Assembly, Rail Mount Left, Gem, C/L, CE	220V
1	23446	Product Kicker, Left Gem	
2	23892	Rail Mount, Forward, Left Gem	
3	23893	Box, 35" Lamp Mounting, Gem	
4	23894	Cover, 35" Lamp, Gem	
5	25630-01	LED Lightbar, 42", CleanLife	Part of 25792 or 25792-01
6	25792	Assy., Lampholder, C/L LED's, w/o Ferrites	110V
	25792-01	Assy., Lampholder, C/L LED's, with Ferrites	220V
7	3009-02	Rivet, Steel, Black 1/8" DIA. X 1/8 Grip	
8	3038	Rivet, Nylon, Trim	
9	3205-24	Bushing, Plastic Snap 1 3/4"	
10	3342-04	Screw, Sheet Metal Tek—8—18	

MODEL 28" STANDARD TRAY ILLUSTRATION



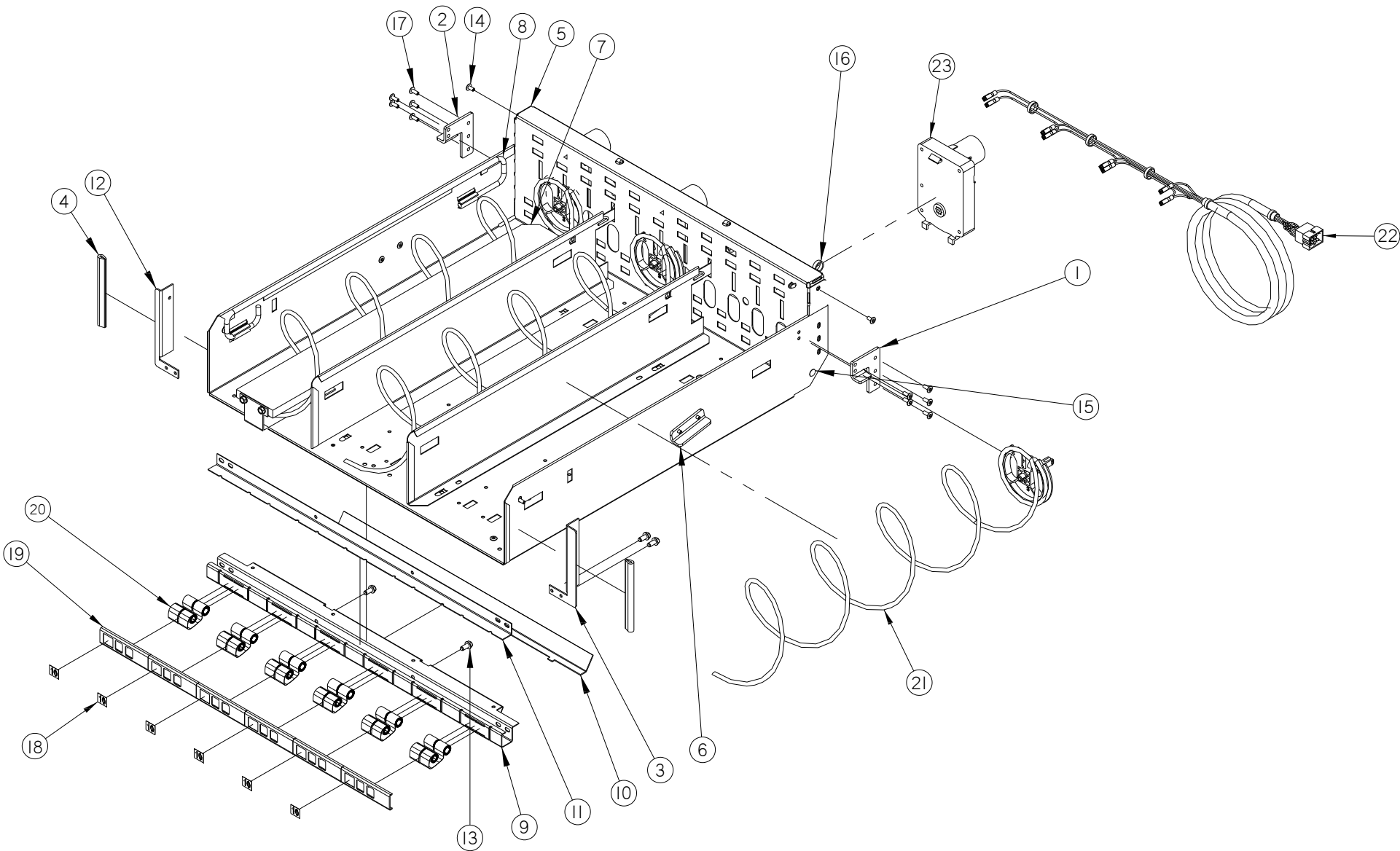
MODEL 28" STANDARD TRAY PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
	23965	Assembly, Standard Tray, 28" Slim	
1	3001-03	Screw, Sheet Metal, Type B, 8-18 (3/8" Long)	
2	3009-02	Rivet, Steel, 1/8", Black	
3	3019	Canoe Clip	
4	3020	Wire Tie, Standoff	
5	3042-01	Wire Tie, Panel Mount	
6	3295-03	Rivet, Steel, 1/8", Plated	
7	20073	Tray Stop	
8	20073-01	Tray Stop, LH	
9	20133	Tray Divider Spring	
10	20220	Extrusion, Candy Pusher	Optional Item
11	20421	Helix Splitter Bracket	Optional Item
12	20465-06	Extrusion, Price Marker	
13	20527	Bracket, Cup Rail, Small Helix	Optional Item (Part of 23967, Cup Rail, Small Helix)
—	20528	Bracket, Cup Rail, Large Helix	Not Shown (Part Of 24062, Cup Rail, Large Helix)
—	27092	Label Sheet, Selection Marker	Not Shown
14	20796-01	Edge Trim, Selection Marker	
15	20966	Helix Adapter	
16	23007	Motor w/Home Circuit, CCW	Optional Item
	23007-01	Motor w/Home Circuit, CW	
17	23996	Tray Divider, Reduced Depth	Includes Divider with 20133 Spring, Select Type, Numbers to Form Columns
	24335	Tray Divider High	
	24337	Tray Divider Extra High	
18	23448	Tray Body, Reduced Depth	
19	23471	Tray Stop, Intermediate, Slim	
20	23492	Tray Doubler	
21	23501	Harness, Tray, 6 Column	

ITEM	PART NO.	PART DESCRIPTION	NOTES
22	23502	Bar, Candy Pusher	
23	23545	Right Rail Tray, 28" Model	
24	23546	Left Rail Tray, 28" Model	
25	23553	Helix Splitter	Optional Item (Part of 23967 and 24062, Rail Cups)
26	23969	Helix Alignment Device	Optional Item
—	24046-01	Kit, Mini-Dispenser	Optional Item, Not Shown
27	24050	Tray Corner, Narrow	
28	24050-01	Tray Corner, Narrow, LH	
29	————	Helix, Small CCW, Painted	1 Per Column, See Model 28 Helix for Options

THIS PAGE INTENTIONALLY LEFT BLANK

MODEL 28" SCROLLING PRICE TRAY ILLUSTRATION

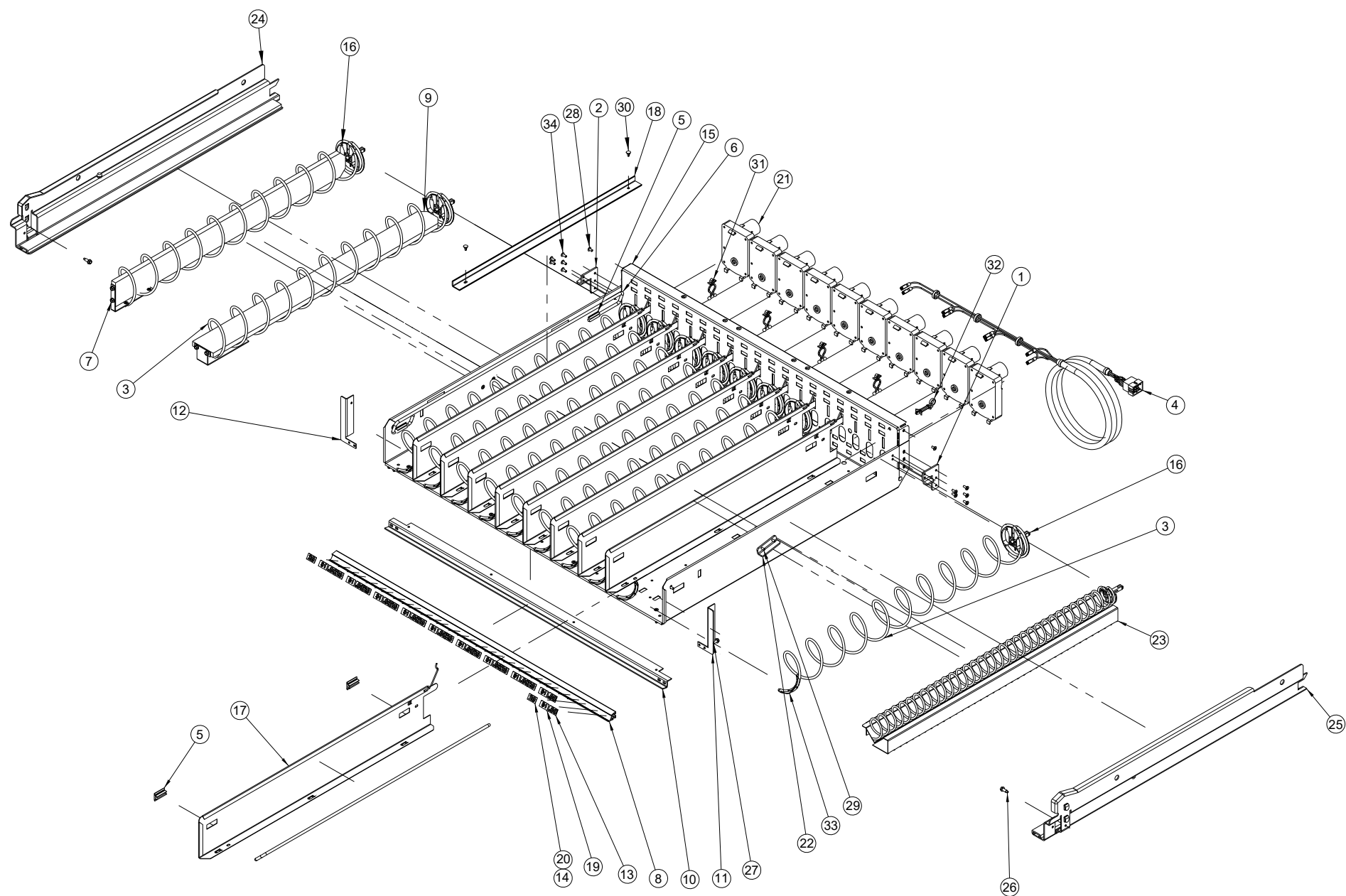


MODEL 28" SCROLLING PRICE TRAY PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
	24020	Assembly, Tray, Scrolling Price, 28" Slim	
1	20073	Tray Stop	
2	20073-01	Tray Stop, LH	
3	24050	Tray Corner, RH	
4	20796-01	Edge Trim, Tray Corner	
5	23448	Tray Body, Reduced Depth	
6	23471	Tray Stop, Intermediate, Slim	
7	23967	Kit, Cup Rail	Optional Item
8	23968	Kit, Candy Pusher	Optional Item
9	24017	Stiffener, Tray, Scrolling Prices	
10	24018	Cover, Tray Stiffener	
11	24019	Guide, Scrolling Prices	
12	24050-01	Tray Corner, LH	
13	3001-03	Screw, Sheet Metal, Type B, 8-18 (3/8" Long)	
14	3009-02	Rivet, Steel, Blk., 1/8" Grip, 1/8"	
15	3019	Canoe Clip	
16	3042-01	Wire Tie	
17	3295-03	Rivet, Steel, 1/8", Plated	
18	23292	Location Label	
19	23791	Cover, 10 Select	Quantities Optional
	23791-01	Cover, 10 Select Blank	
20	23321	Scroll, Price .00-.95	Quantities Optional
	23322	Scroll, Price 1-20	
21	—	Helix	1 Per Column. See Model 39 Helix For Options
22	23501	Harness, Tray 6 Column	
23	23007	Motor, W/Home Circuit, CCW	Optional Item
	23007-01	Motor, W/Home Circuit, CW	

Note: Reference Model 28" Standard Tray for additional parts.

MODEL 39" (SNACK/CANDY/FOOD) GEM/EPIC TRAY ILLUSTRATION



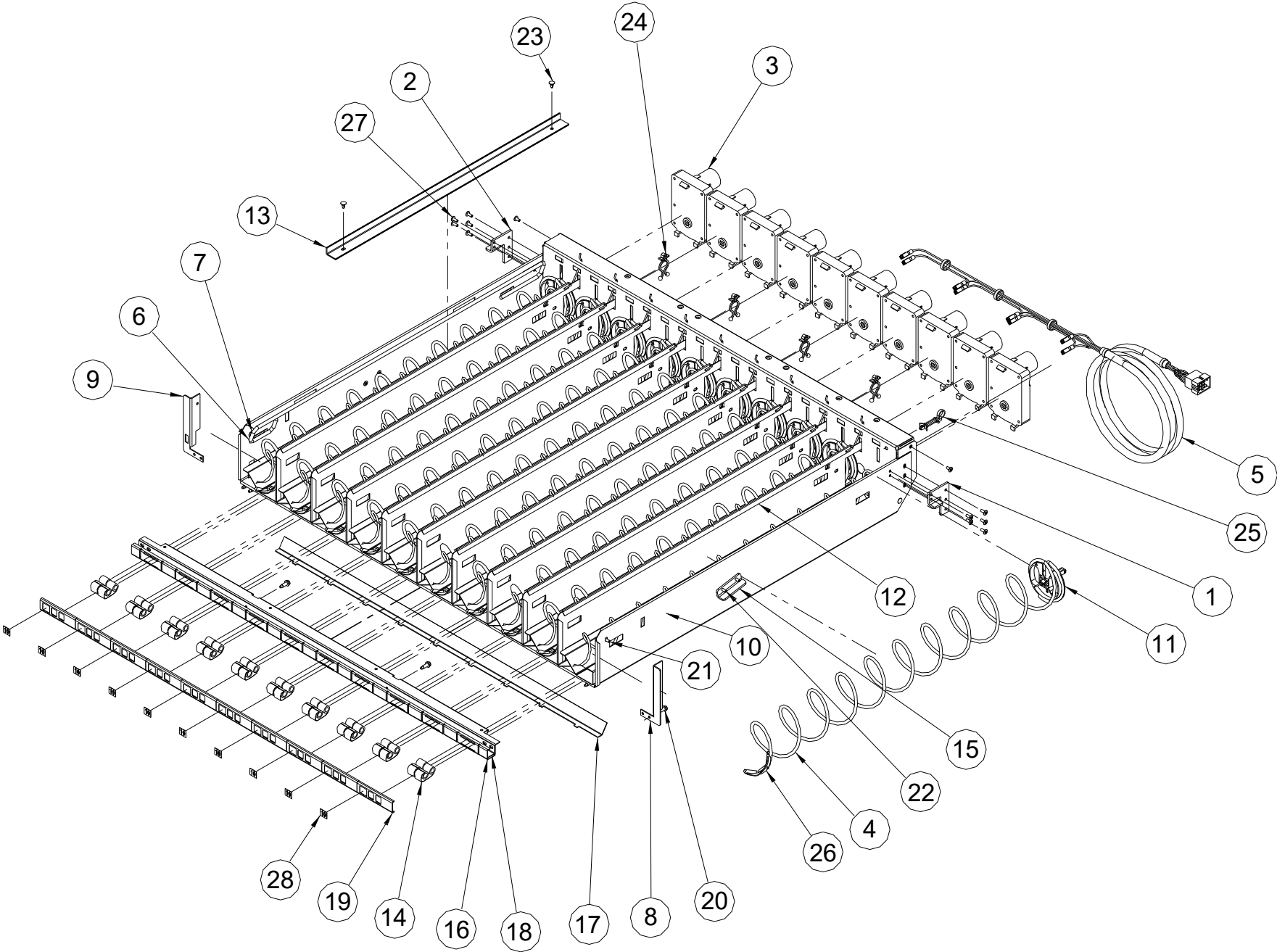
MODEL 39" (SNACK/CANDY/FOOD) GEM/EPIC TRAY PARTS LIST

ITEM	PART NO.	PART DESCRIPTION	NOTES
	27681	Assembly, (Snack/Candy/Food) Standard Tray, 39"	
1	20073	Tray Stop	
2	20073-01	Tray Stop, LH	
3	-----	Helix	1 Per Column. See Model 39 Helix For Options
4	20147	Harness, Tray 10 Column	
5	20220	Extrusion, Candy Pusher	Optional, 2 Per 20221 & Divider With Cutouts
6	20221	Bar, Candy Pusher	Optional, 1 Per Divider With Cutouts
7	20450	Kit, Helix Splitter	Optional, 1 Per Selection
8	20465-01	Extrusion, Price Marker, Reduced Height	
9	20535	Kit, Cup Rail, Small Helix, 2.6"	Optional, 1 Per Selection
	20536	Kit, Cup Rail, 4" Helix	
10	20544	Tray Doubler, Ver. 2 (39")	
11	24050	Tray Corner, RH	
12	24050-01	Tray Corner, LH	
13	20614	Label Sheet, Reduced Height, Price	
14	27092	Label Sheet, Selection Marker, Reduced Height	Included with Machine
15	24055	Tray Body, HCHP, Reduced Depth (39")	
16	20966	Helix Adaptor, Without Hub	
17	21138	Assembly, Tray Divider	Includes Divider With 20133 Spring, Select Type, Numbers To Form Columns
	21139	Assembly, Tray Divider, High	
	23664	Assembly, Tray Divider, Extra High	
18	22192	Helix Alignment Device, PVC	
19	22908	Label Sheet, Reduced Height, Price W/\$	
20	22909	Label Sheet, Reduced Height, Location, White	
21	23007	Motor, With Home Circuit, CCW	Optional Item
	23007-01	Motor, With Home Circuit, CW	

ITEM	PART NO.	PART DESCRIPTION	NOTES
22	23471	Tray Stop, Intermediate	
23	24046	Kit, Mini-Dispenser	Optional, 3 Different Pitch Helices
24	24487	Assembly, Tray Rail, 39" Gem (LH)	
25	24487-01	Assembly, Tray Rail, 39" Gem (RH)	
26	3000	Screw, Sheet Metal TEK 8-18 (1/2" Long)	
27	3001-03	Screw, Sheet Metal, Type B, 8-18 (3/8" Long)	Safety Screws For Rails
28	3009-02	Rivet, Steel, Blk., 1/8 " Grip, 1/8"	
29	3009-04	Rivet, Steel, Blk., 1/8" Grip, 1/4"	
30	3019	Canoe Clip	2 Per Helix Alignment Device
31	3020	Wire Tie, Stand Off	
32	3042-01	Wire Tie, Panel Mount	
33	3111	Helix Ejector	
34	3295-03	Rivet, Steel, 1/8", Plated	

THIS PAGE INTENTIONALLY LEFT BLANK

MODEL 39" (SNACK/CANDY/FOOD) SCROLLING PRICE GEM/EPIC TRAY ILLUSTRATION



MODEL 39" (SNACK/CANDY/FOOD) SCROLLING PRICE GEM/EPIC TRAY PARTS LIST

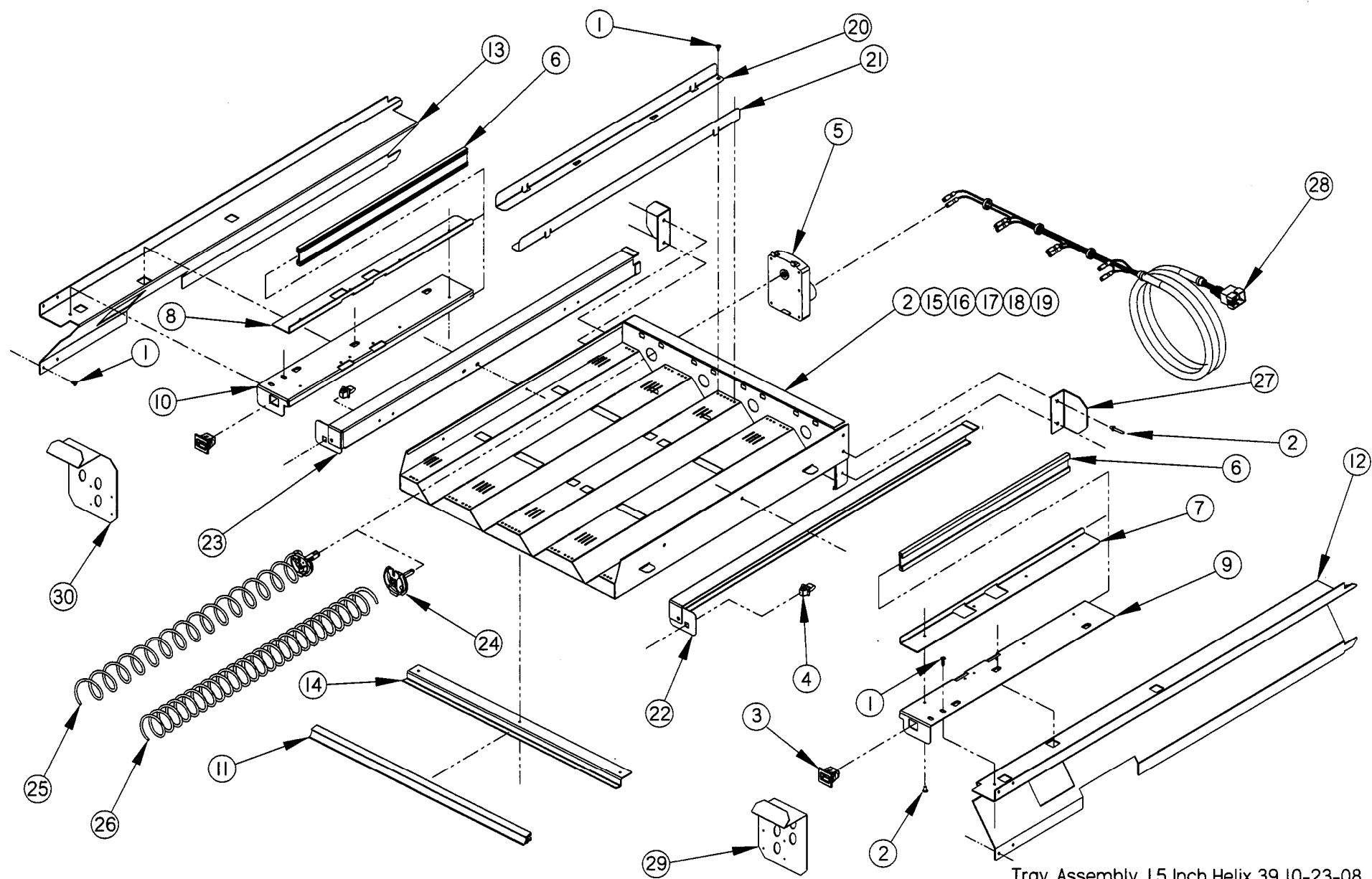
ITEM	PART NO.	PART DESCRIPTION	NOTES
	27682	Assembly, Tray, (39") GRM/EPIC, Snack, Base, S/P	
1	20073	Tray Stop	
2	20073-01	Tray Stop Left	
3	23007	Motor, with Home Circuit, CCW	Optional Item
	23007-01	Motor, with Home Circuit, CW	
4	-----	Helix	1 Per Column. See Model 39" Helix For Options
5	20147	Harness, Tray 10 Column	
6	20220	Extrusion, Candy Pusher	Optional
7	20021	Bar, Candy Pusher	Optional
8	24050	Tray Corner, RH	
9	24050-01	Tray Corner, LH	
10	24055	Tray Body, HCHP, Reduced Depth (39")	
11	20966	Helix Adapter	
12	21138	Divider, Standard	Includes Divider With 20133 Spring, Select Type, Numbers To Form Columns
	21139	Divider, High	
	23664	Divider, Extra High	
13	22192	Helix Alignment Device	Optional
14	23322	Scroll, Price Label, 1-20	
	23321	Scroll, Price Label, .00-.95	
15	23471	Tray Stop Intermediate	
16	23785	Tray Stiffener	
17	23786	Tray Stiffener Cover	
18	23787	Guide	
19	23791	10 Select Cover	Optional
	23791-01	10 Select Cover, No Windows	Optional
20	3000	Screw, Sheet Metal, TEK 8-18 (1/2" Long)	

ITEM	PART NO.	PART DESCRIPTION	NOTES
21	3009-02	Rivet, Steel, Blk., 1/8"-Grip 1/8"	
22	3009-04	Rivet, Steel, Blk., 1/8"-Grip 1/4"	
23	3019	Canoe Clip	2 Per Helix Alignment Device
24	3020	Wire Tie Standoff	
25	3042-01	Wire Tie, Panel Mount	
26	3111	Helix Ejector	
27	3295-03	Rivet, Steel, 1/8", Plated	
28	23292	Location Label	

Note: Reference Model 39" Standard Tray for additional parts.

THIS PAGE INTENTIONALLY LEFT BLANK

1.5" HELIX TRAY ILLUSTRATION



Tray, Assembly, 1.5 Inch Helix 39 10-23-08

1.5" HELIX TRAY PARTS LIST

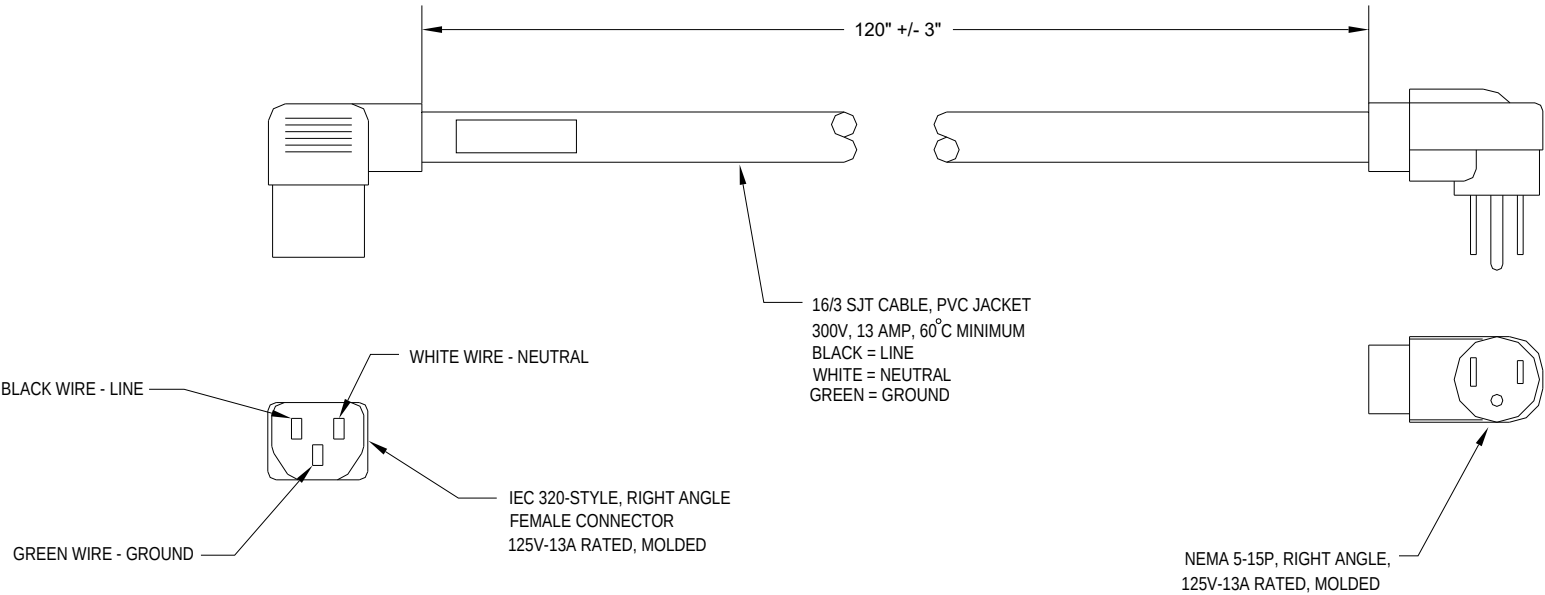
ITEM	PART NO.	PART NAME	QTY.	NOTES
	21193	Assembly, Tray, 1.5" Helix		
1	3000	Screw, Sheet Metal, TEK 8-18 (1/2" Long)	24	
2	3009-02	Rivet, Steel, Blk., 1/8"-Grip 1/8"	26	
3	3246	Latch, Nylon, Gum And Mint	2	
4	3247	Strike, Nylon, Gum And Mint	2	
5	23007	Motor, Single Helix, CCW	4	
6	20236	Extrusion, Gum And Mint Rail	2	
7	20237	Extrusion Mount, Upper (Gum And Mint) (Right Side)	1	
8	20237-01	Extrusion Mount, Upper (Gum And Mint) (Left Side)	1	
9	20238	Extrusion Mount, Lower (Gum And Mint) (Right Side)	1	
10	20238-01	Extrusion Mount, Lower (Gum And Mint) (Left Side)	1	
11*	20465-04	Extrusion, Price Marker, Reduced Height	1	
12	20973	Rail, Gum And Mint, Reduced Depth (39") (Right Side)	1	Rails To Fit Tray To 39" Cabinet
13	20973-01	Rail, Gum And Mint, Reduced Depth (39") (Left Side)	1	
14	21196	Doubler, Tray 1.5" Helix Tray	1	
15	21197	Tray Body, 1.5" Helix Tray	1	Parts Are Factory Assembled As A Unit
16	21199	Tray Back, 1.5" Helix Tray	1	
17	21200	Tray Inner Side, 1.5" Helix Tray	2	
18	21201	Tray Inner Section, 1.5" Helix Tray	2	
19	21202	Tray Inner Mid Section, 1.5" Helix Tray	1	
20	21203	Divider, Tray, 1.5" Helix Tray, RH	4	
21	21203-01	Divider, Tray, 1.5" Helix Tray, LH	4	
22	21204	Tray Slide Channel, 1.5" Helix Tray, RH	1	

*Tray also comes in scrolling price option. Contact your distributor for details.

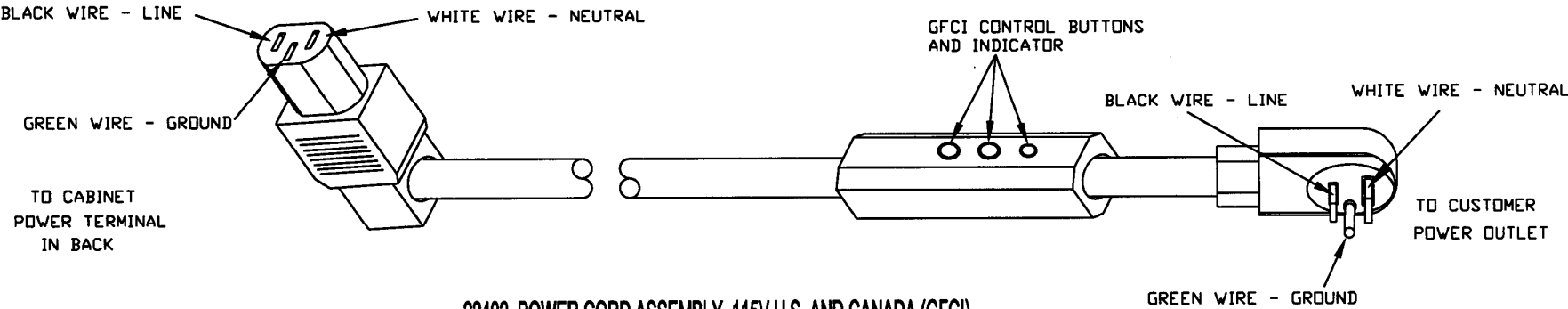
ITEM	PART NO.	PART DESCRIPTION	QTY.	NOTES
23	21204-01	Tray Slide Channel, 1.5" Helix Tray, LH	1	
24	21206	Helix Adapter, 1.5" Helix Tray	4	
25	21207-15	Helix, 1.5" Tray, Counterclockwise, Black, 15 Pitch	2	Tray Is Equipped With Two Of Each See Helix Section
26	21207-25	Helix, 1.5" Tray, Counterclockwise, Black, 25 Pitch	2	Tray Is Equipped With Two Of Each See Helix Section
27	21523	Bracket, Stop, 1.5" Helix Tray	2	
28	21584	Harness, 1.5" Helix Tray	1	
29	24252	Kicker, Gum And Mint, 39" Gem	1	Parts May Not Resemble Illustration
30	24252-01	Kicker, Gum And Mint LH, 39" Gem	1	

THIS PAGE INTENTIONALLY LEFT BLANK

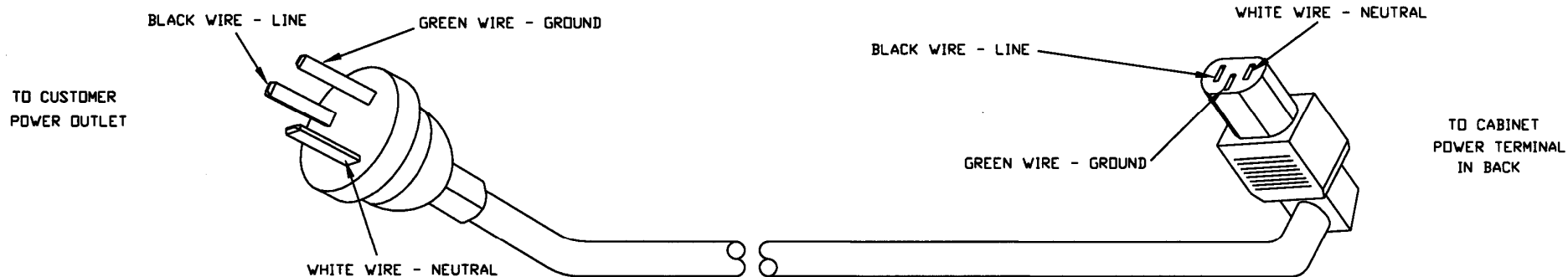
ELECTRICAL HARNESS ILLUSTRATIONS



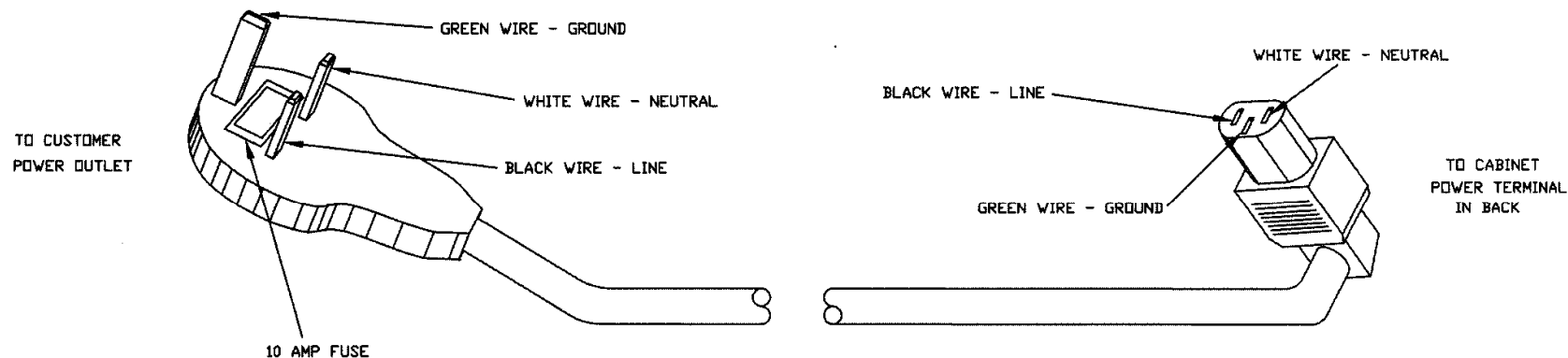
20142, POWER CORD ASSEMBLY, 115V DOMESTIC



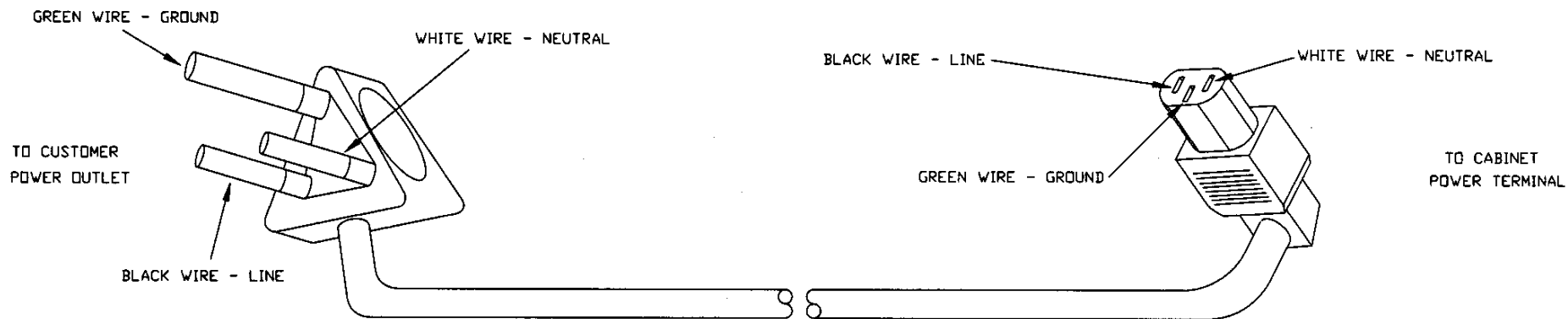
22402, POWER CORD ASSEMBLY, 115V U.S. AND CANADA (GFCI)



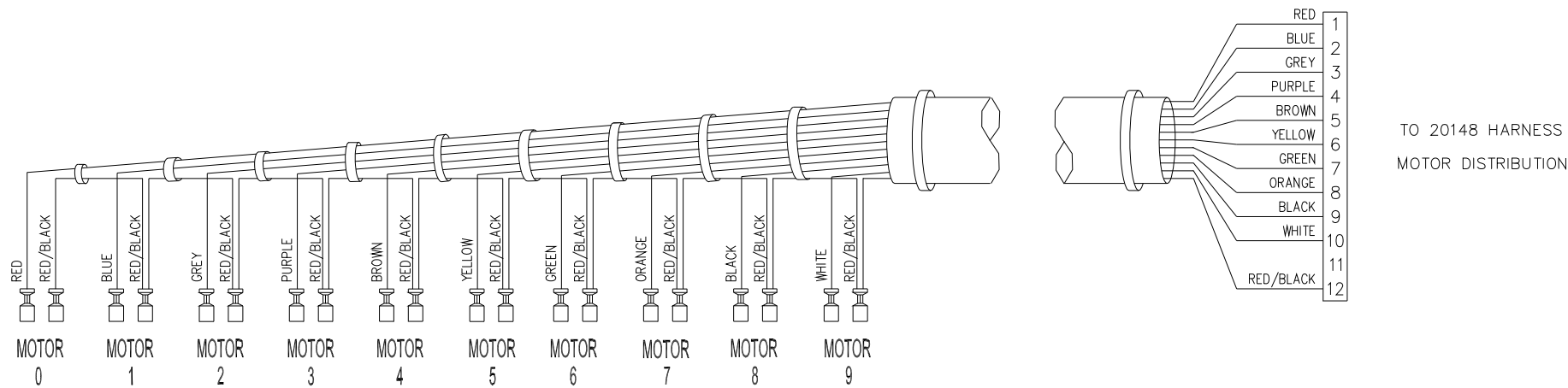
3173, POWER CORD, AUSTRALIA



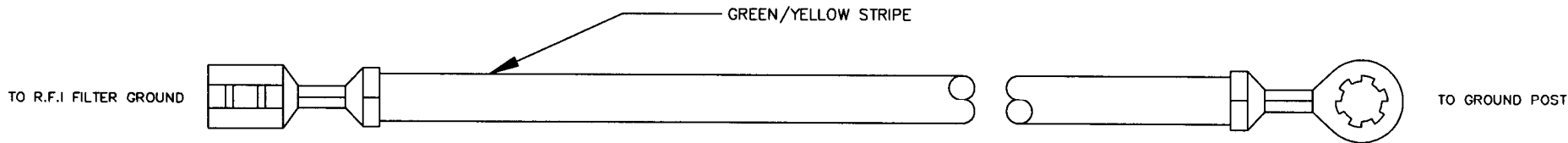
3194, POWER CORD, U.K. & IRELAND



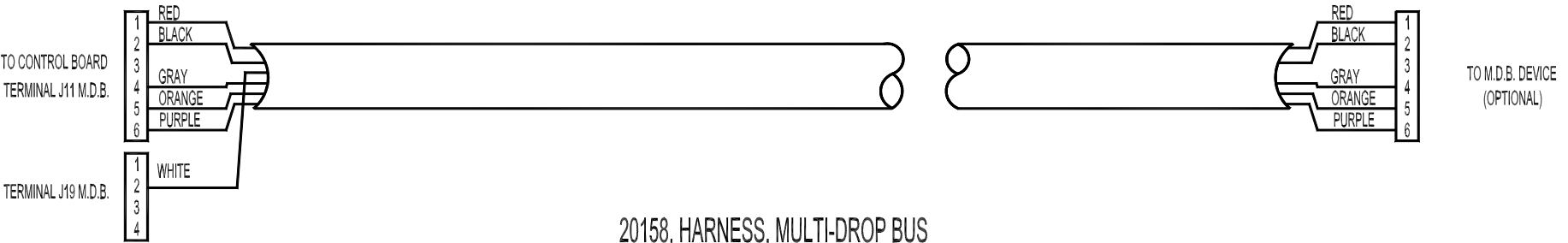
3208 POWER CORD, INDIA AND SOUTH AFRICA



20147, HARNESS, TRAY, 10 COLUMN

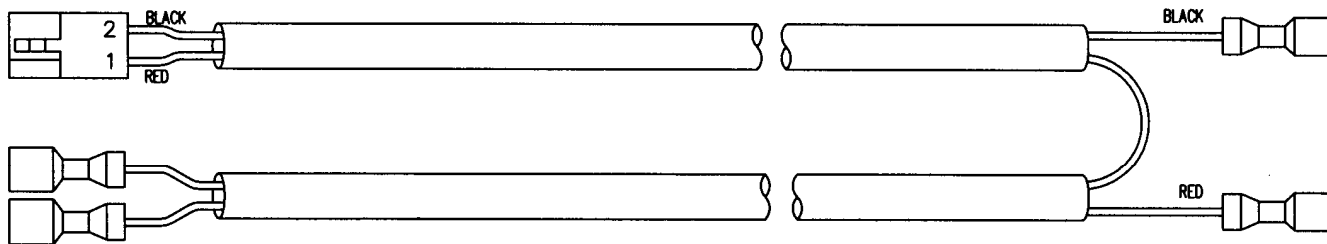


20154, HARNESS, R.F.I. FILTER GROUND



20158, HARNESS, MULTI-DROP BUS

TO 21591 HARNESS, POWER
AND REFRIGERATION RELAY,
LEFT SIDE DOOR SWITCH



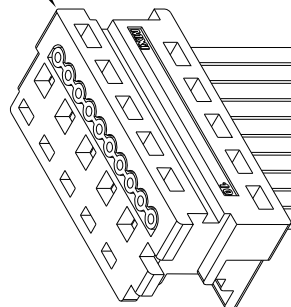
TO TRANSFORMER
24 VAC SECONDARY

TO FUSE HOLDER

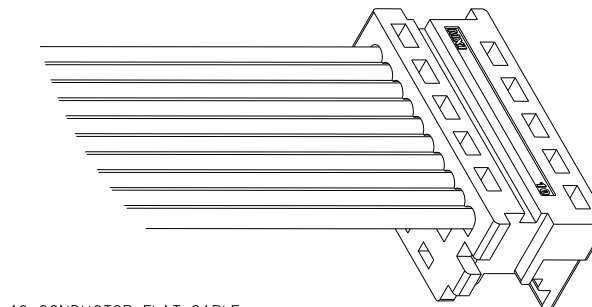
20701, HARNESS, TRANSFORMER AND FUSE

10 POSITION CONNECTOR (2 PLACES)

TO 24342 SENSOR
TERMINAL J1



LARGE LOCATING NOTCH
ON SAME SIDE AT BOTH ENDS

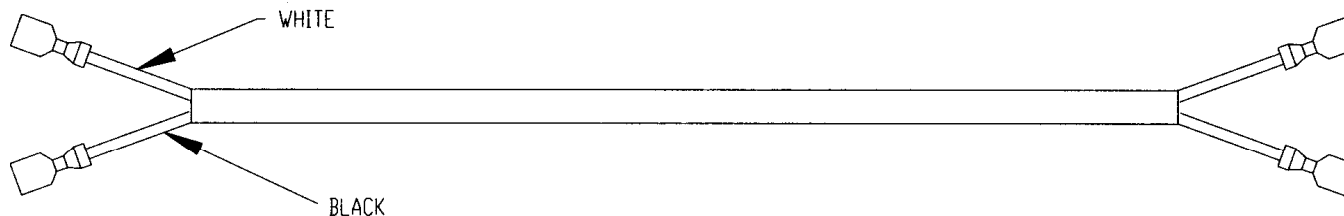


TO 24343 SENSOR
TERMINAL J8

10 CONDUCTOR FLAT CABLE

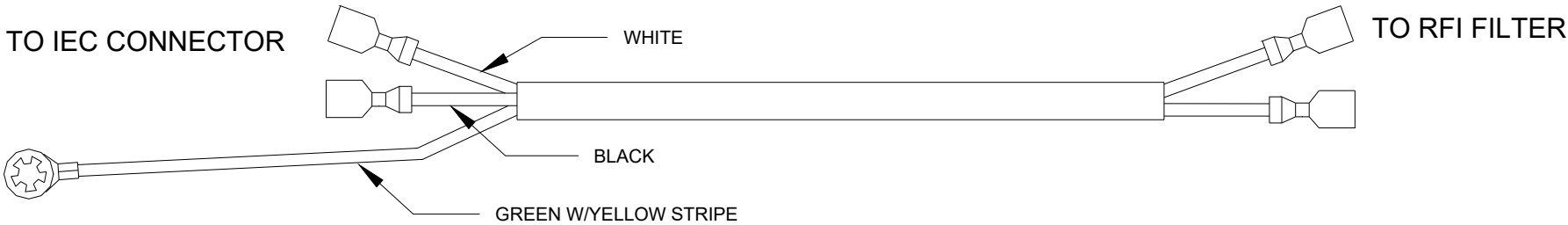
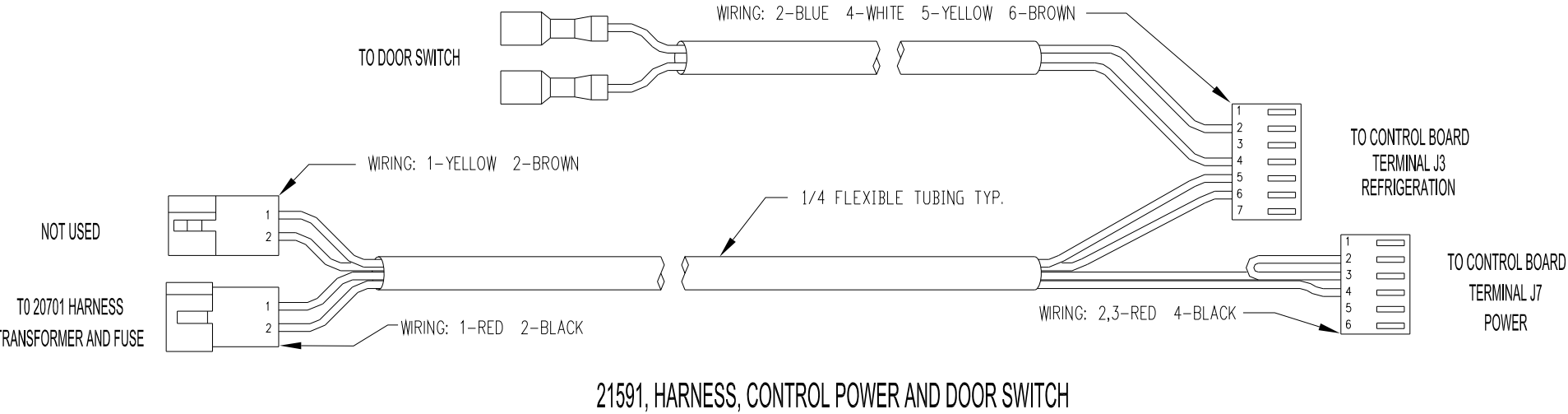
21426 HARNESS, DELIVERY SENSOR DETECTOR/EMITTER

TO ON/OFF SWITCH

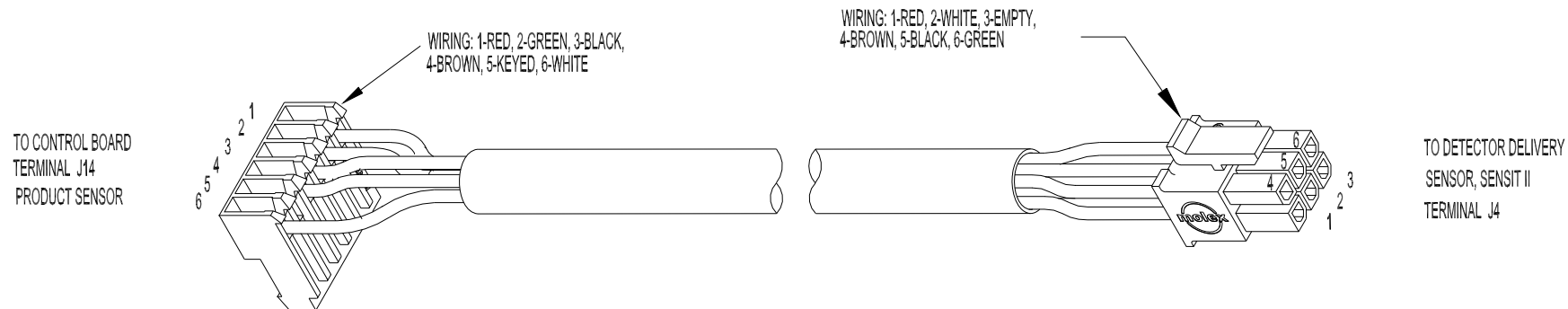


TO R.F.I. FILTER
INPUT SIDE

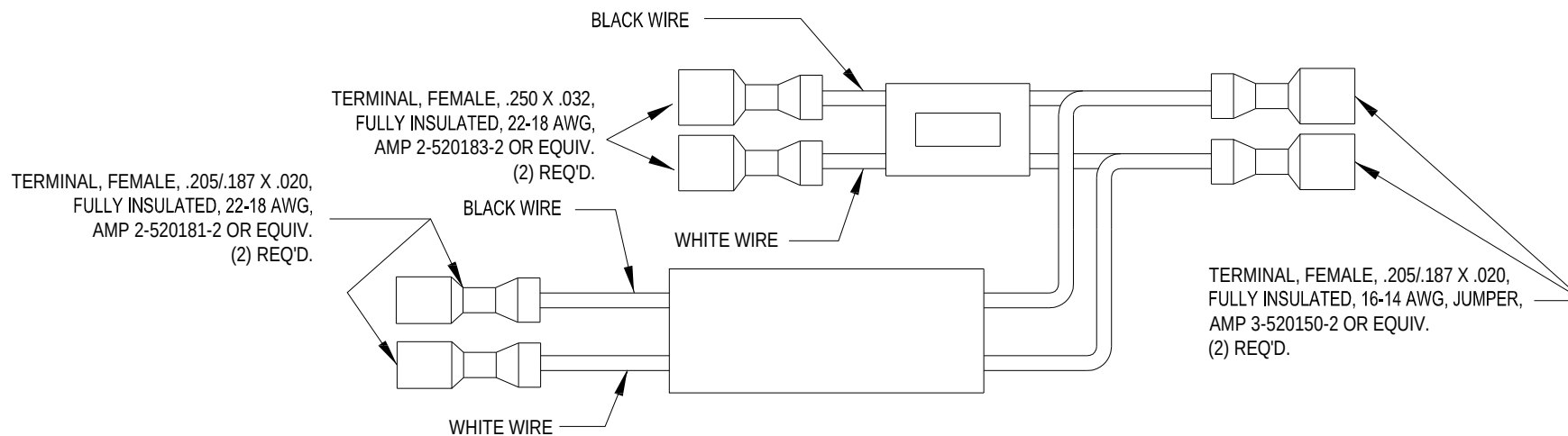
21485, HARNESS, ON/OFF SWITCH



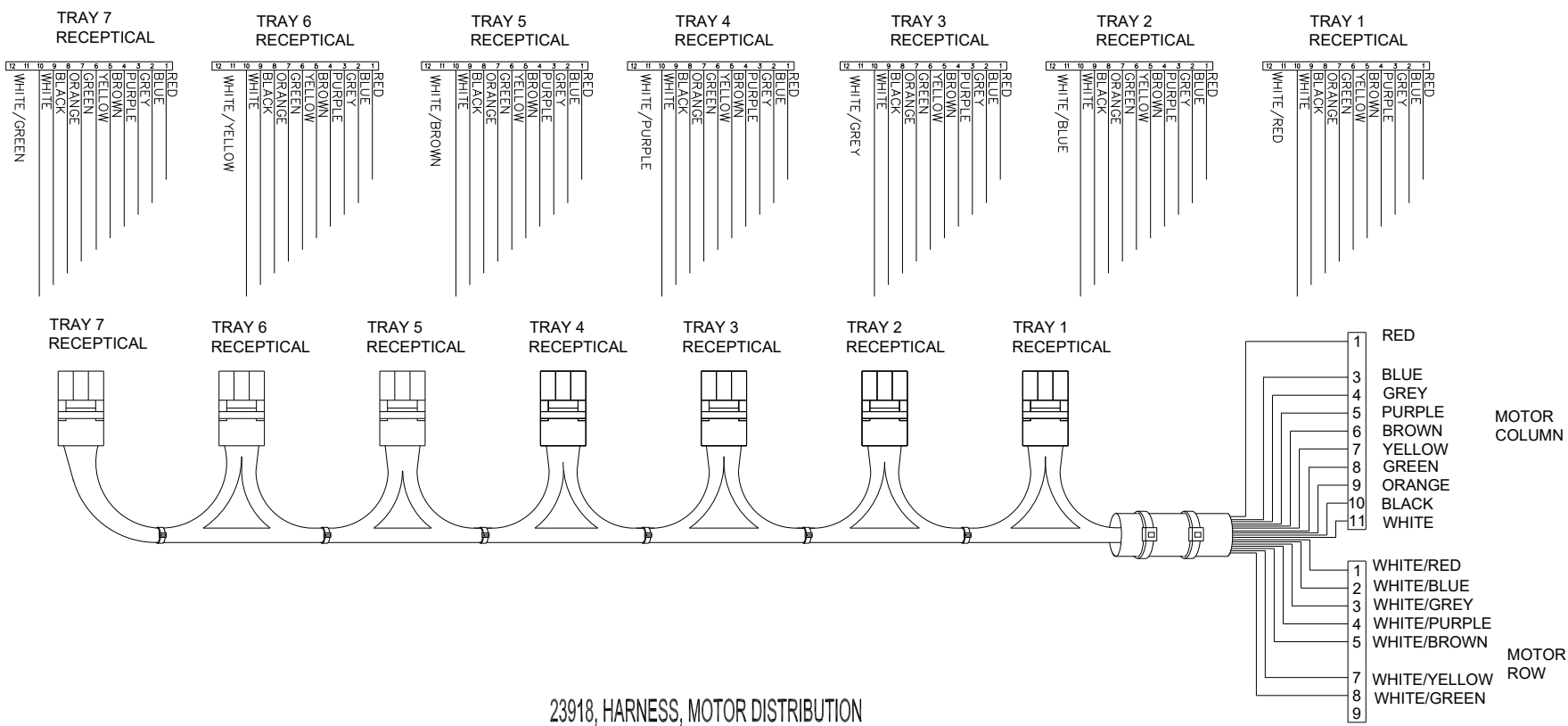
23357, HARNESS POWER INPUT



23503 HARNESS, DELIVERY SENSOR DETECTOR/CONTROL, SENSIT II

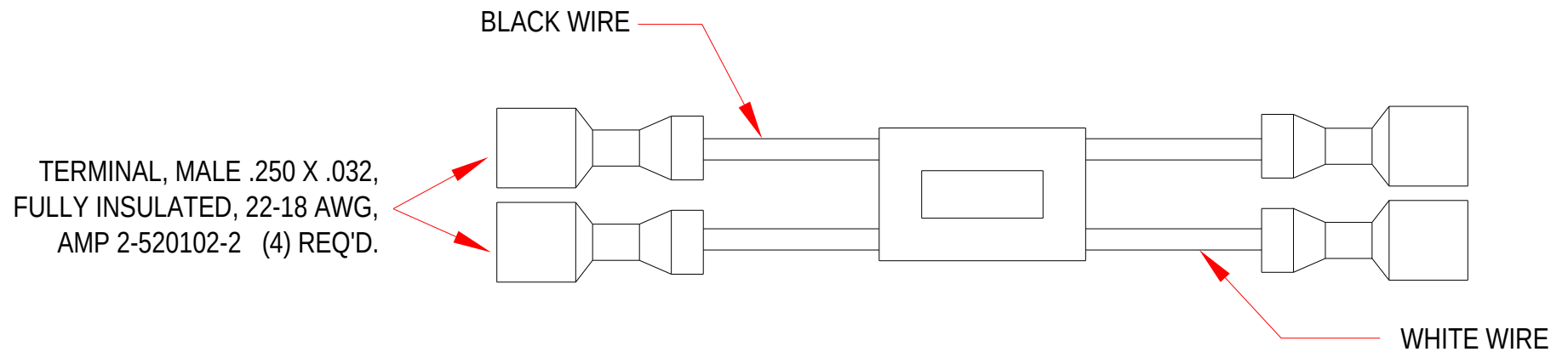


23625, HARNESS, DUAL TRANSFORMER, NO BALLAST

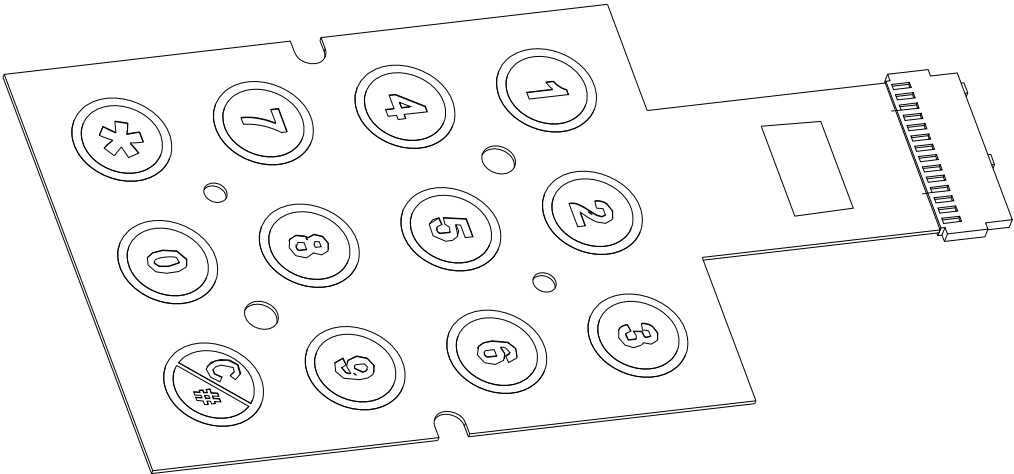




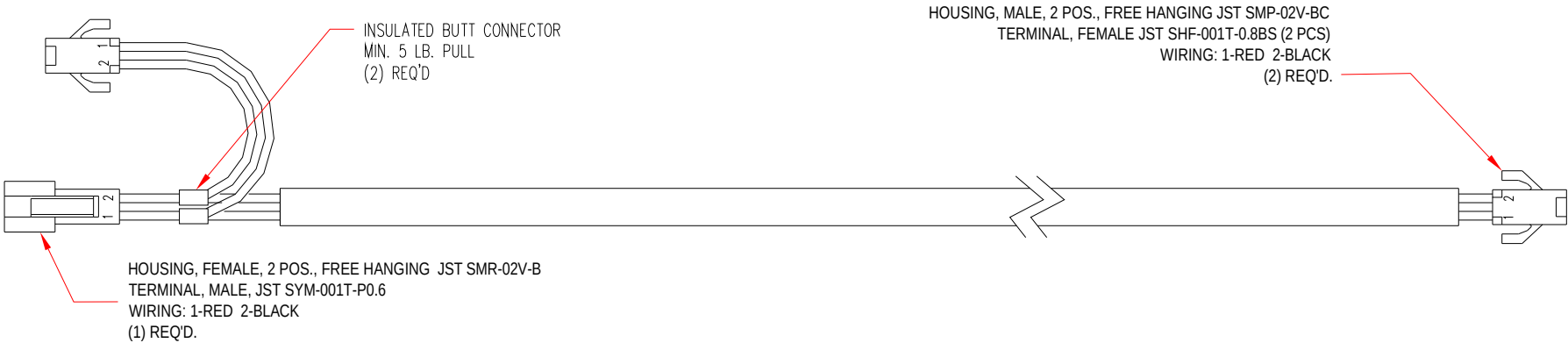
24338 HARNESS, LIGHTED POS POWER



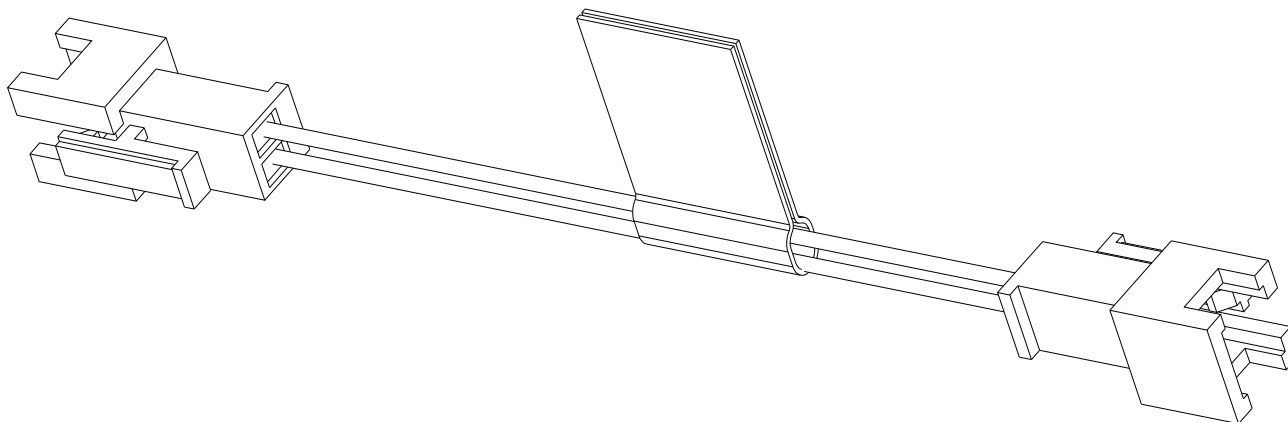
25494 RFI, FILTER BYPASS



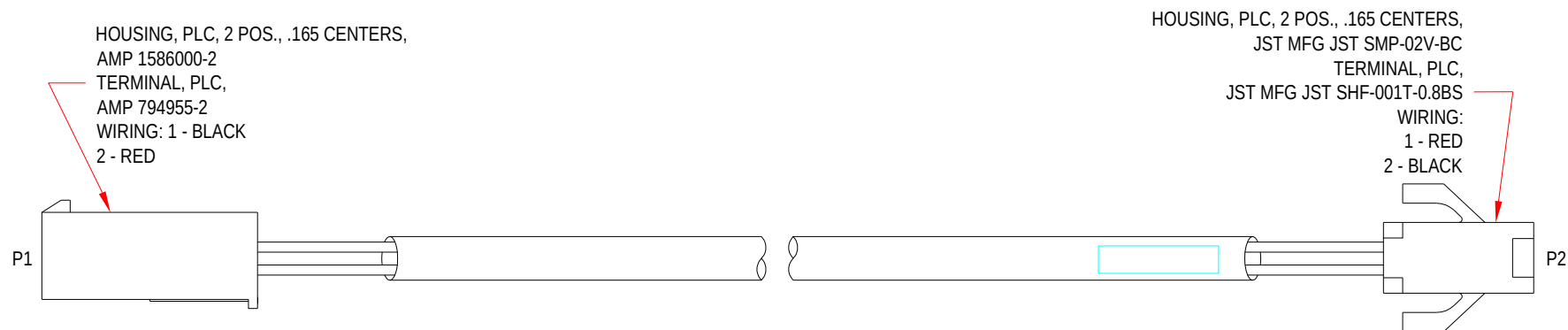
25688 ASSEMBLY, LIGHTED KEYPAD



25753 HARNESS, EXTENSION, LED, CLEANLIFE



26519, HARNESS, CLEANLIFE GENDER CHANGER

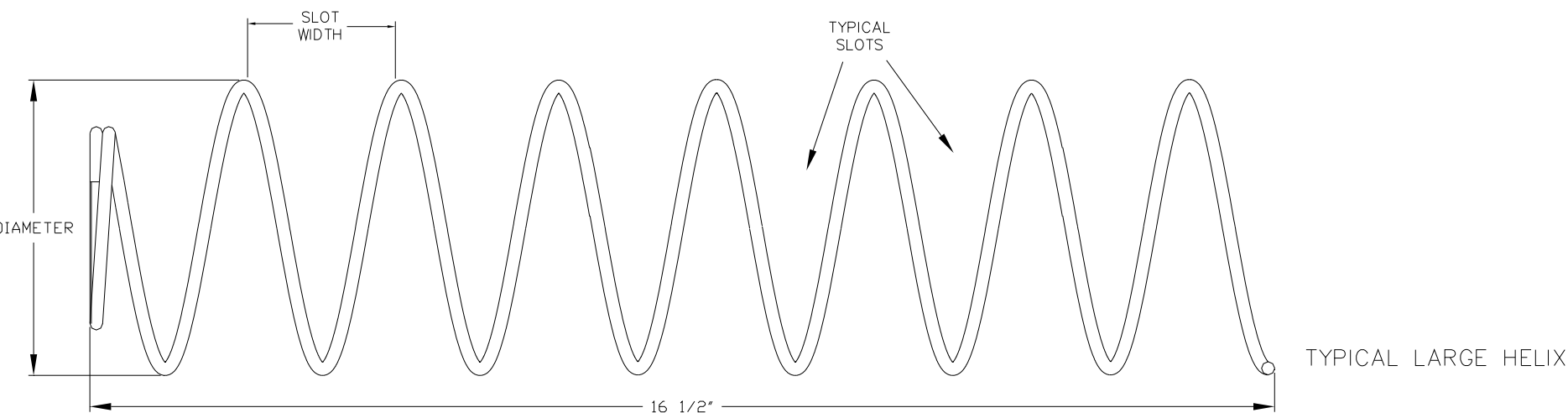
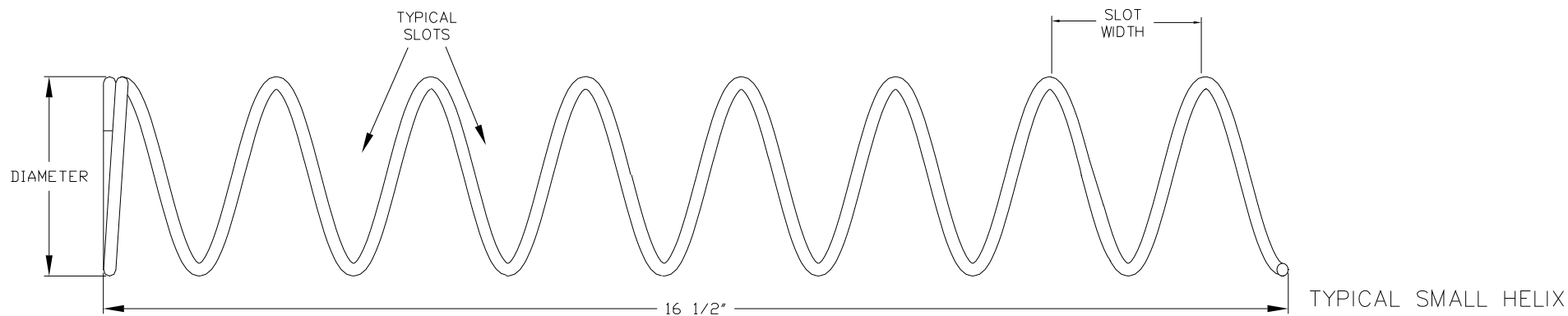
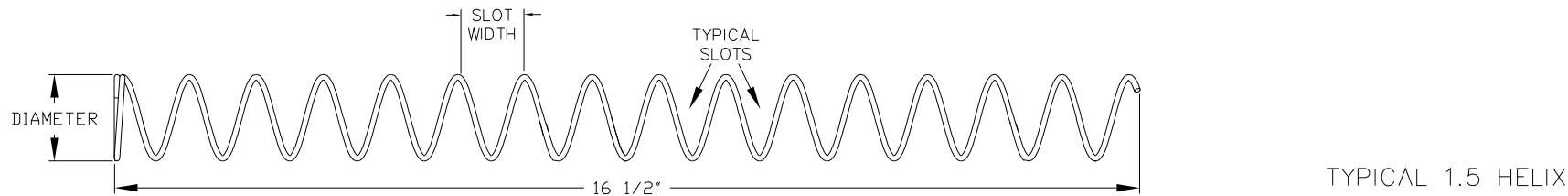


27569 HARNESS, ASSEMBLY, LED EXTENSION / ADAPTOR CLEANLIFE

ELECTRICAL HARNESS PARTS LIST		
PART NO.	PART DESCRIPTION	NOTES
20142	Power Cord, Mexico	
22402	Power Cord Assembly, 115V U.S. And Canada	
3173	Power Cord, Australia	
3194	Power Cord, U.K. And Ireland	
3208	Power Cord, India And South Africa	
20147	Harness, Tray, 10 Column	39" Gem
20154	Harness, R.F.I. Filter Ground	
20158	Harness, Multi-Drop Bus	
20701	Harness, Transformer and Fuse	
21426	Harness, Delivery Sensor Detector, Emitter	
21485	Harness, On/Off Switch	
21591	Harness, Control Power And Door Switch	
23357	Harness, Power Input	
23503	Harness, Delivery Sensor Detector/Control	
23625	Harness, Dual Transformer, No Ballast	
23918	Harness, Motor Distribution	
24015-01	Harness, Display, 23" Long	
24338	Lighted POS Power Harness	
25494	Harness, RFI Filter, Bypass	
25688	Assembly, Keypad	
27569	Harness, Assembly, LED Extension/Adaptor CleanLife	
28565	Harness, Assembly, Dual LED Extension/Adaptor CleanLife	

THIS PAGE INTENTIONALLY LEFT BLANK

MODEL 28" HELIX ILLUSTRATIONS

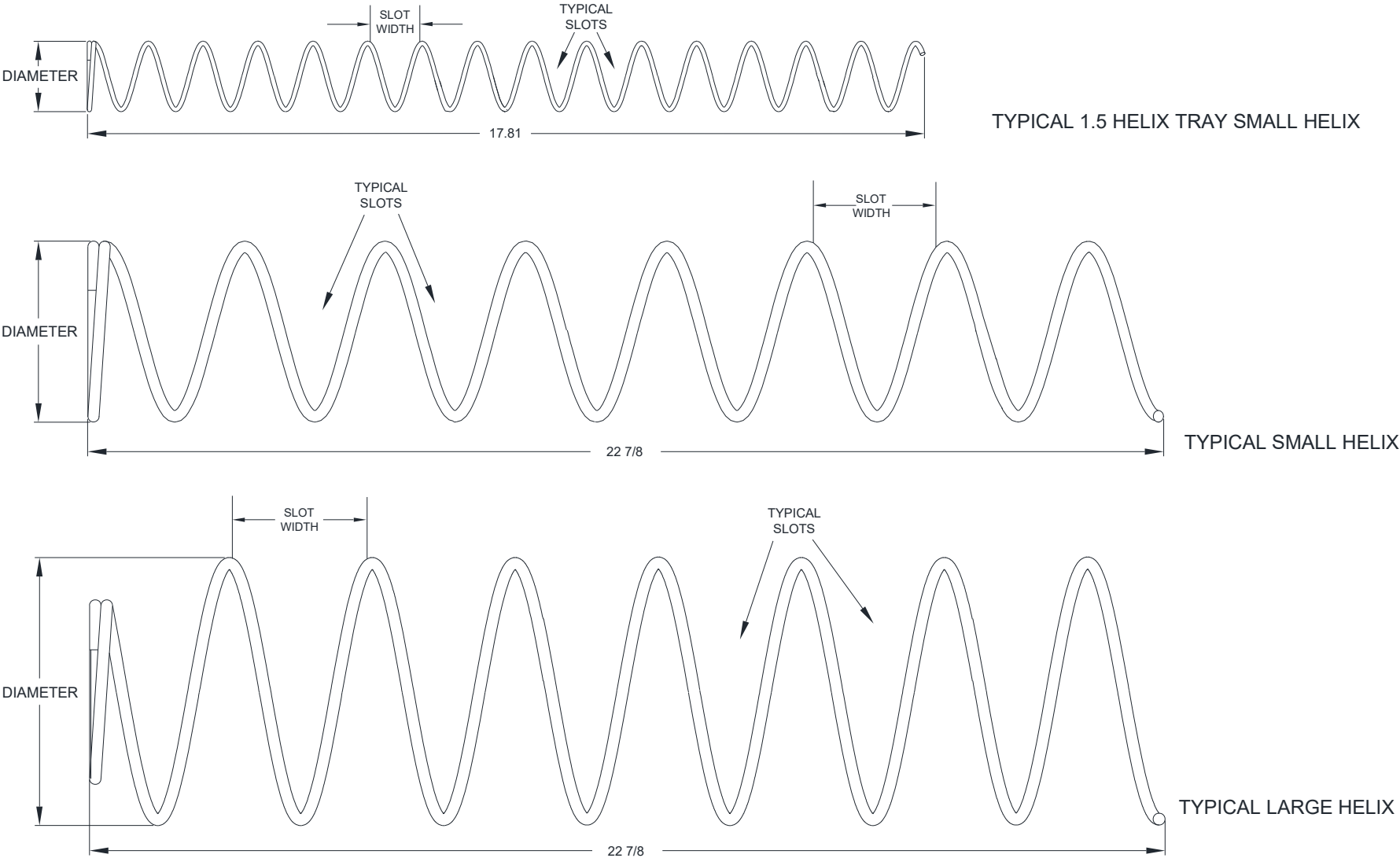


MODEL 28" HELIX PARTS LIST							
PART NO.	HELIX DESCRIPTION *	SLOT (VEND) WIDTH	NUMBER OF SLOTS (PITCH)	HELIX OUTSIDE DIAMETER	TURN	QTY. PER COLUMN	NOTES
24061-07	Helix, 1.5", CCW, Black	2	7	1.5	CCW	1	Use With Mini-Dispenser Kit 24026-01
24061-14	Helix, 1.5", CCW, Black	1 1/8	14	1.5	CCW	1	Use With Mini-Dispenser Kit 24026-01
24061-23	Helix, 1.5", CCW, Black	5/8	23	1.5	CCW	1	Use With Mini-Dispenser Kit 24026-01
24031-03	Helix, 2.6", CW, Black	3 5/8	3	2.6	CW	1 Set	Use With 23549-03 To Couple Motors
24031-04	Helix 2.6". CW Black	2 1/4	4	2.6	CW	1 Set	Use With 23549-04 To Couple Motors
24031-05	Helix, 2.6", CW, Black	3	5	2.6	CW	1 Set	Use With 23549-05 To Couple Motors
24031-07	Helix, 2.6", CW, Black	2	7	2.6	CW	1 Set	Use With 23549-07 To Couple Motors
24031-08	Helix, 2.6", CW, Black	1 3/4	8	2.6	CW	1 Set	Use With 23549-08 To Couple Motors
24031-10	Helix, 2.6", CW, Black	1 3/8	10	2.6	CW	1	
23549-03	Helix, 2.6", CCW, Black	3 5/8	3	2.6	CCW	1	
23549-05	Helix, 2.6", CCW, Black	3	5	2.6	CCW	1	
23549-06	Helix, 2.6", CCW, Black	2 1/4	6	2.6	CCW	1	
23549-07	Helix, 2.6", CCW, Black	2	7	2.6	CCW	1	
23549-08	Helix, 2.6", CCW, Black	1 3/4	8	2.6	CCW	1	
23549-10	Helix, 2.6", CCW, Black	1 1/2	10	2.6	CCW	1	
23549-12	Helix, 2.6", CCW, Black	1 3/16	12	2.6	CCW	1	
23549-16	Helix, 2.6", CCW, Black	1	16	2.6	CCW	1	
23976-03	Helix, 3.75", CCW, Black	4 1/4	3	3.75	CCW	1	
23976-05	Helix, 3.75", CCW, Black	2 3/4	5	3.75	CCW	1	
23976-06	Helix, 3.75", CCW, Black	2 1/4	6	3.75	CCW	1	
23976-07	Helix, 3.75", CCW, Black	2	7	3.75	CCW	1	
23976-09	Helix, 3.75", CCW, Black	1 3/4	9	3.75	CCW	1	
23976-11	Helix, 3.75", CCW, Black	1 3/8	11	3.75	CCW	1	

*Contact your distributor for special helix diameters and pitch.

*Contact AMS for your application.

MODEL 39" HELIX ILLUSTRATIONS



MODEL 39" HELIX PARTS LIST

PART NO.	HELIX DESCRIPTION *	SLOT (VEND) WIDTH	NUMBER OF SLOTS (PITCH)	HELIX OUTSIDE DIAMETER	TURNS	QTY. PER COLUMN	NOTES
20119-07	Helix, Small CW, Black	2 5/8	7	2.6	CW	1 Set	Use With 20120-07 As A Set
20120-07	Helix, Small CCW, Black	2 5/8	7	2.6	CCW	1 Set	
20119-10	Helix, Small CW, Black	1 7/8	10	2.6	CW	1 Set	Use With 20120-10 As A Set
20120-10	Helix, Small CCW, Black	1 7/8	10	2.6	CCW	1 Set	
20119-05	Helix, Small CW, Black	4	5	2.6	CW	1	
20119-09	Helix, Small CW, Black	2 1/4	9	2.6	CW	1	
20120-05	Helix, Small CW, Black	4	5	2.6	CCW	1	
20120-08	Helix, Small CCW, Black	2 1/2	8	2.6	CCW	1	
20120-09	Helix, Small CCW, Black	2 1/4	9	2.6	CCW	1	
20120-12	Helix, Small CCW, Black	1 7/8	12	2.6	CCW	1	
20120-15	Helix, Small CCW, Black	1 7/8	15	2.6	CCW	1	
20120-18	Helix, Small CCW, Black	1 7/8	18	2.6	CCW	1	
20120-24	Helix, Small CCW, Black	1 7/8	24	2.6	CCW	1	
20120-32	Helix, Small CCW, Black	1/2	32	2.6	CCW	1	
21207-15	Helix, 1.5", CCW, Black	1	15	1.5	CCW	1	Use in 1.5" Helix Tray
21207-25	Helix, 1.5", CCW, Black	9/16	25	1.5	CCW	1	Use in 1.5" Helix Tray
21336	Helix, 3", CCW, Black	3 1/2	6	3	CCW	1	Bottle Tray
21337	Helix, 3", CCW, Black	3 1/5	6	3	CCW	1	Bottle Tray
21465-04	Helix, 3.75" CCW, Black	4 1/8	4	3.75	CCW	1	Large Diameter
21465-05	Helix, 3.75" CCW, Black	3 1/4	5	3.75	CCW	1	Large Diameter
21465-07	Helix, 3.75" CCW, Black	2 5/8	7	3.75	CCW	1	Large Diameter
21465-09	Helix, 3.75" CCW, Black	2	9	3.75	CCW	1	Large Diameter

PART NO.	HELIX DESCRIPTION*	SLOT (VEND) WIDTH	NUMBER OF SLOTS (PITCH)	HELIX OUTSIDE DIAMETER	TURNS	QTY. PER COLUMN	NOTES
21465-10	Helix, 3.75" CCW, Black	1 3/4	10	3.75	CCW	1	Large Diameter
21465-12	Helix, 3.75" CCW, Black	1 1/2	12	3.75	CCW	1	Large Diameter
21465-15	Helix, 3.75" CCW, Black	1 1/4	15	3.75	CCW	1	Large Diameter
23268-10	Helix, 1.5", CCW, Black	1 7/8	10	1.5	CCW	1	Use in 1.5" Helix Tray
23268-20	Helix, 1.5", CCW, Black	1	20	1.5	CCW	1	Use in 1.5" Helix Tray
23268-32	Helix, 1.5", CCW, Black	1/2	32	1.5	CCW	1	Use in 1.5" Helix Tray

*Contact your distributor for special helix diameters and pitch.

*Contact AMS for your application.

THIS PAGE INTENTIONALLY LEFT BLANK

THIS PAGE INTENTIONALLY LEFT BLANK

THIS PAGE INTENTIONALLY LEFT BLANK

