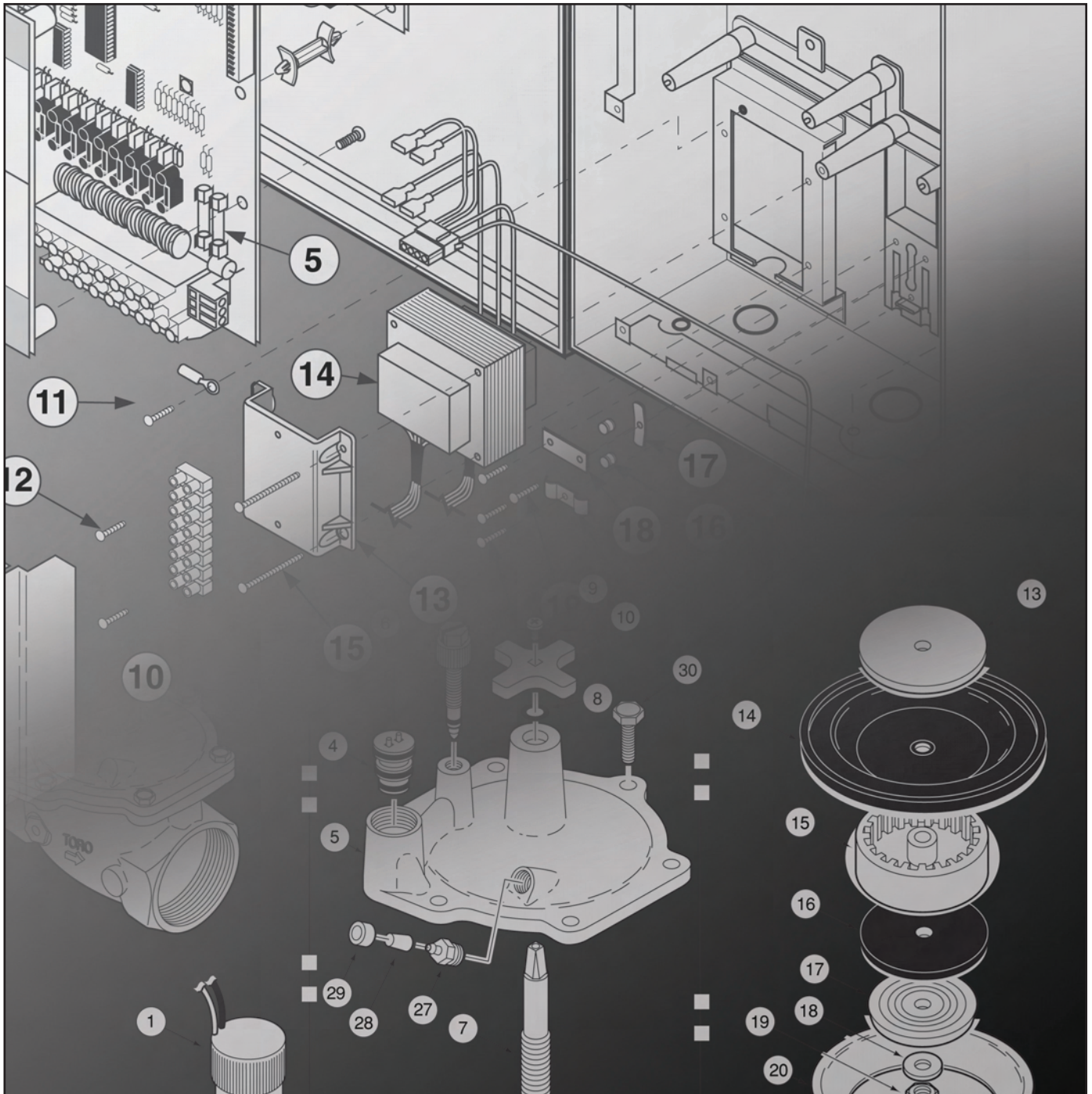


TORO

2010 Irrigation Products Illustrated Parts Breakout

Count on it.



Golf Controllers Section

GENERAL INFORMATION

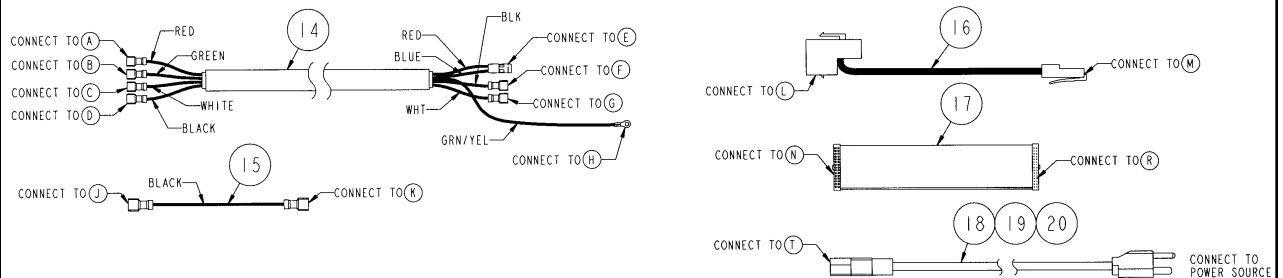
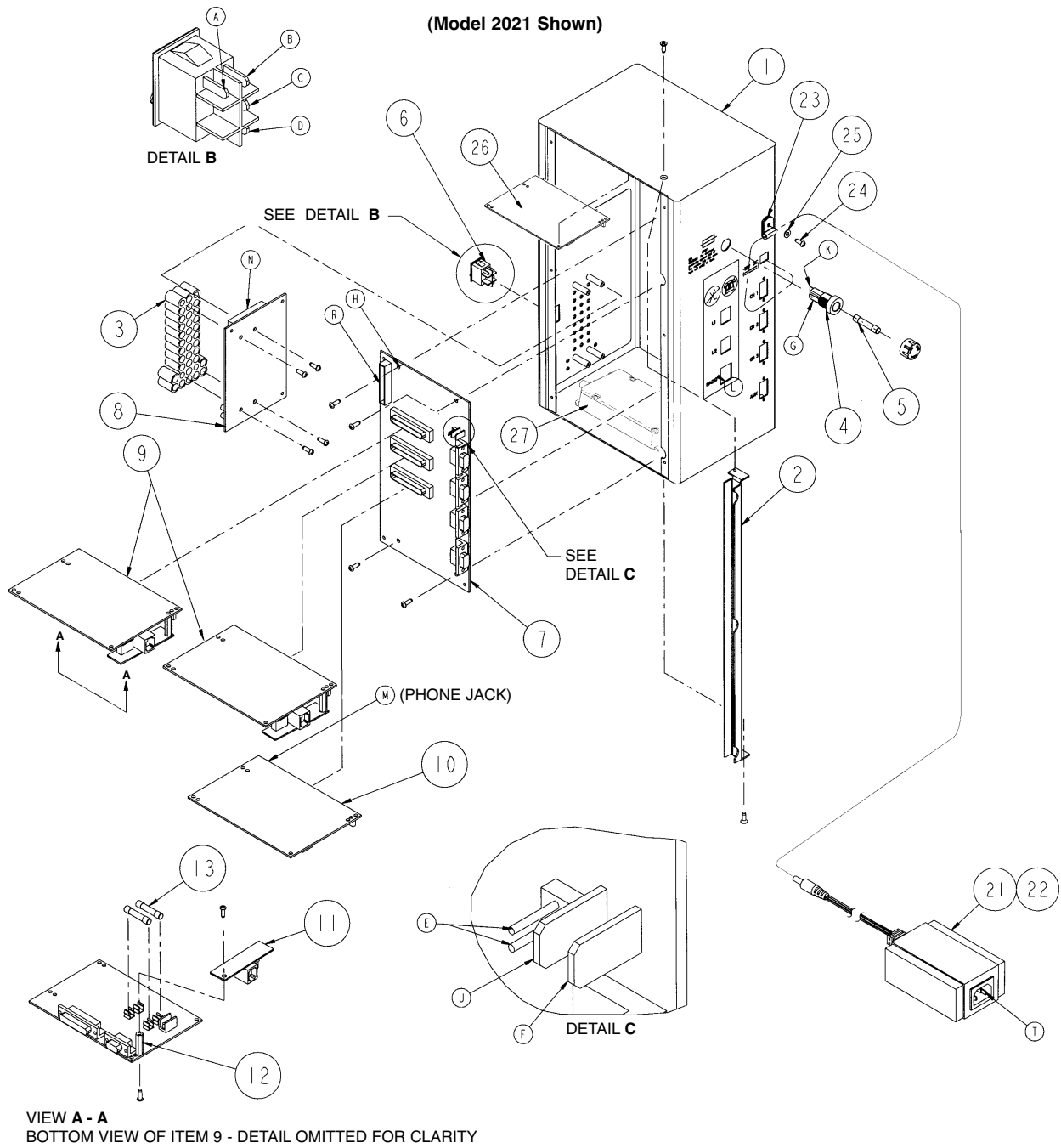
Please note the following usage guidelines:

- When dashes (- - -) are shown in place of a part number, the part is either not available for sale or not sold separately. Refer to the accompanying Service Items listing for availability.
- An asterisk (*) preceding a part number indicates the item is only available through the Toro Finished Goods Distribution System and must be ordered accordingly.
- This book is updated annually. The published part numbers and descriptions are subject to change. If changes and/or corrections are required, the updated information will be made available through the Toro Distributor Operations Bulletin and/or Tech Tip communications.
- Common abbreviations used within this publication:

A	= Ampere	NO	= Normally Open (Micro Switch)
Amp	= Ampere	NPT	= National Pipe Thread
Assy.	= Assembly	PC	= Part Circle
ADJ	= Adjustable	Pot.	= Potentiometer
B	= Barbed	PV	= Pilot Valve
BSP	= British Standard Pipe	PHPH	= Pan Head Phillips Head
COM	= Check-O-Matic	PHFH	= Pan Head Fillister Head
CR	= Contamination Resistant	PT	= Pin Type (Hydraulic)
CSA	= Canadian Standards Association	PR	= Pressure Regulated
EL	= Electric	Prog.	= Program
Elec	= Electric	RC	= Rubber Cover
Exp	= Export	RPD	= Revolutions Per Day
F	= Female	RPM	= Revolutions Per Minute
FC	= Full Circle (Sprinkler)	S	= Slip
FC	= Flow Control (Valve)	SST	= Stainless Steel
GPM	= Gallons Per Minute	SI	= Side Inlet
Hyd.	= Hydraulic	Svc	= Service
Hz	= Hertz	TM	= Timing Mechanism
in.	= Inch	V	= Volts
Int.	= Internal	VAC	= Volts Alternating Current
Int. T	= Internal Tooth	VDC	= Volts Direct Current
L/	= Less	VA	= Volt Amps
lbs.	= Pounds	VIH	= Valve In Head
M	= Male	w/	= with
M/F	= Male/Female	w/o	= without
N/I	= Not Indicated	"	= Inches
NC	= Normally Closed (Hydraulic)	'	= Feet
NC	= Normally Closed (Micro Switch)		
NO	= Normally Open (Hydraulic)		

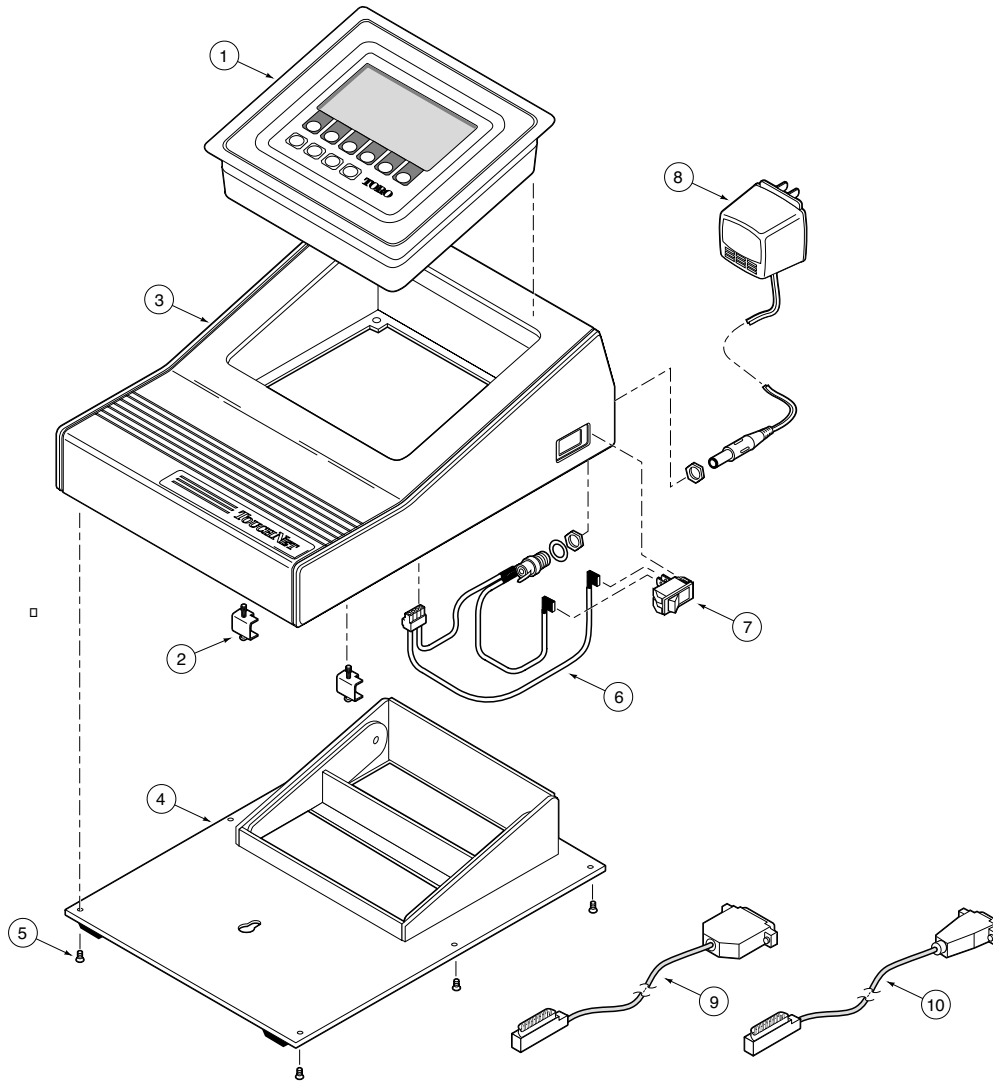
SitePro Field Interface Unit (FIU) Models 2010, 2011, 2020 and 2021

(Model 2021 Shown)



Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Housing, SNCX, FIU	1
2	-----	Bracket, FIU (See Service Item 102-0867)	1
3	-----	Front Plate, LED Display (See Service Item 102-0872)	1
4	360-0750	Holder, Fuse	1
5	360-0749	Fuse, 1.5 Amp	1
6	-----	Rocker Switch, Power (See Service Item 102-0873)	1
7	-----	PCB Assy., Serial, Back Plane (See Service Items 102-0869 through 102-0871)	1
8	-----	PCB Assy., LED (See service item 102-0872)	1
9	-----	PCB Assy., Standard Modem (See Service Item 102-0864)	2
10	-----	PCB Assy., Universal Modem (See Service Item 102-0866)	1
11	-----	Phone Jack Adapter, Standard Modem (See Service Item 102-0864)	2
12	-----	Spacer, #6-32 x 15/16" (See Service Assy. 102-0864)	2
13	-----	Fuse, 0.75 Amp (See Service Item 102-3819)	4
14	-----	Cable, FIU Power Switch (See Service Item 102-0875)	1
15	-----	Wire Assy., Black (See Service Item 102-0874)	1
16	-----	Cable Assy., Universal Modem (See Service Item 102-0866)	1
17	-----	Cable Assy., 30-Pin, Female Connectors (See Service Item 102-0876)	1
18	-----	Power Cord, U.S./Canada (See Service Item 102-0877)	1
19	-----	Power Cord, Europe (See Service Item 102-0879)	1
20	-----	Power Cord, English (See Service Item 102-0881)	1
21	-----	Transformer, 12 V d.c., 1.5A (See Service Item 102-0878)	1
22	-----	Transformer (Australian), 12V d.c., 1.5A (See Service Item 102-0882)	1
23	1-7204	Cable Clamp, 3/16"	1
24	4-1063	Screw, Tap, #6	1
25	1-3086	Flat Washer, #6, Brass	1
26	2011R	Communication Radio Assembly, 1-Wireline	1
26	2012R	Communication Radio Assembly, 2-Wireline	1
27	102-3125	Radio Adaptor Board	
		SERVICE ITEMS	
	102-1201	Kit, Service, Cable, SitePro, FIU (9-pin Male to 25-pin Female Serial Cable)	
	102-0864	PCB Assy., Standard Modem (Includes Items 9, 11, 12 & 13)	
	102-3819	3/4A Fuse (Includes Item 13) (10-pack)	
	102-0866	Universal Modem (Includes Items 10 & 16)	
	102-0867	FIU Bracket (Includes Item 2)	
	102-0868	1.5A Fuse Assy. (Includes 1 each of Items 4 & 5)	
	102-0869	PCB Assy. (FIU-2010), Serial Back Plane (Includes Item 7)	
	102-0870	PCB Assy. (FIU-2020 and FIU-2011), Serial Back Plane (Includes Item 7)	
	102-0871	PCB Assy. (FIU-2021), Serial Back Plane (Includes Item 7)	
	102-0872	PCB Assy., LED, FIU (Includes Item 3)	
	102-0873	Rocker Switch, Power (Includes Item 6)	
	102-0874	Wire Assy., Black (Includes Item 15)	
	102-0875	Cable, FIU Power Switch (Includes Item 14)	
	102-0876	Cable Assy., 30-pin Female Connectors, (Includes Item 17)	
	102-0877	Power Cord, U.S./Canada (Includes Item 18)	
	102-0878	Transformer, 12V d.c., 1.5A (Includes Item 21)	
	102-0879	Power Cord, Europe (Includes Item 19)	
	102-0881	Power Cord, English (Includes Item 20)	
	102-0882	Transformer, Australian, 12V d.c., 1.5A (Includes Item 22)	
	*102-0397	FIU Sensor Kit	
	*102-0767	FIU Additional Surge Protection Kit	
	*89-9116	FIU Wireline Path Upgrade Kit	
	*89-9117	FIU Radio-Link Accessory Kit	
		* Order Through Finished Goods Distribution System--Minneapolis	
Item No.	Part No.	Nomenclature	Quantity Per Assy.
FIU Internal Modem Breakdown			
Model No.	Standard Modem(s)	Universal Modem	
Model 2010	1	0	
Model 2011	1	1	
Model 2020	2	0	
Model 2021	2	1	

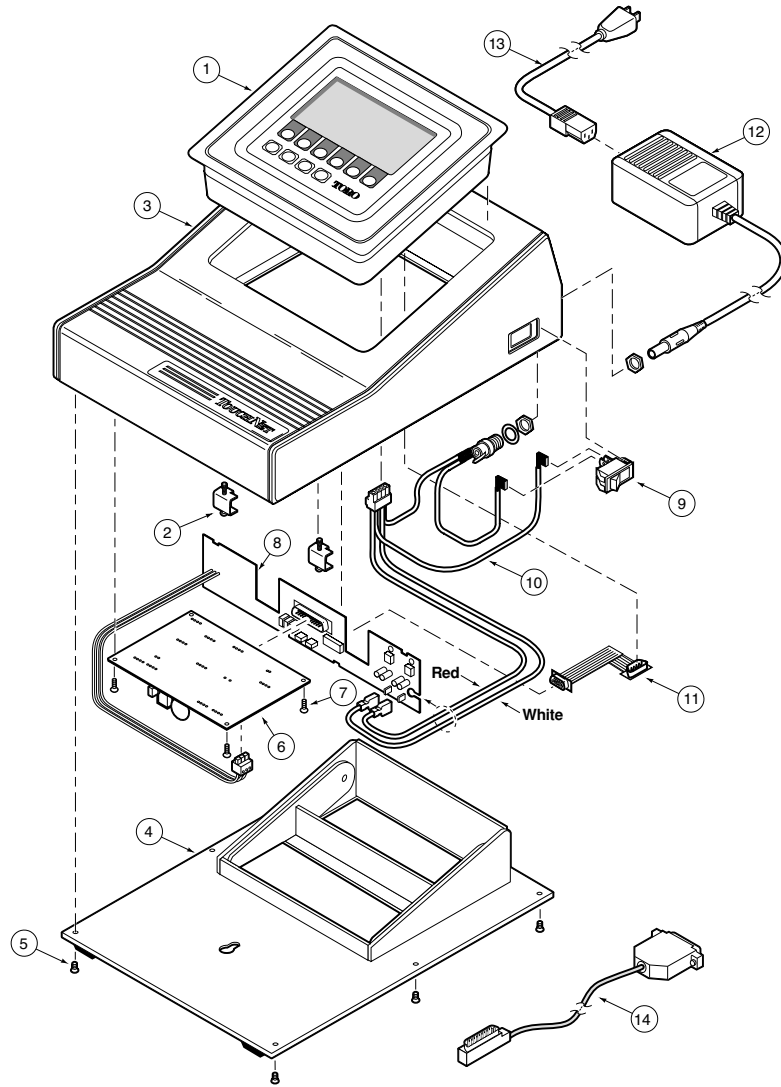
TouchNet For OSMAC



Item No.	Part No.	Description	Quantity Per Assy.
1	**89-8260	Data Panel, TouchNet	1
2	363-3549	Clamp	6
3	89-8357	Housing Assy. (Includes Items 3-5)	1
4	-----	Base, Housing	1
5	-----	Screw, Housing Base	6
6	89-8257	Wiring Harness Assy.	1
7	363-3531	Switch, Rocker	1
8	363-3535	Transformer Assy., 120 V a.c., 60 Hz	1
9	363-3537	Connection Cable Assy. (Use w/Motorola People Finder)	1
9	89-9065	Connection Cable Assy. (Use w/Hand-held Remote Interface)	1
10	102-0573	Connection Cable Assy. (Use w/Toro Wide or Narrow Band Base Station)	1

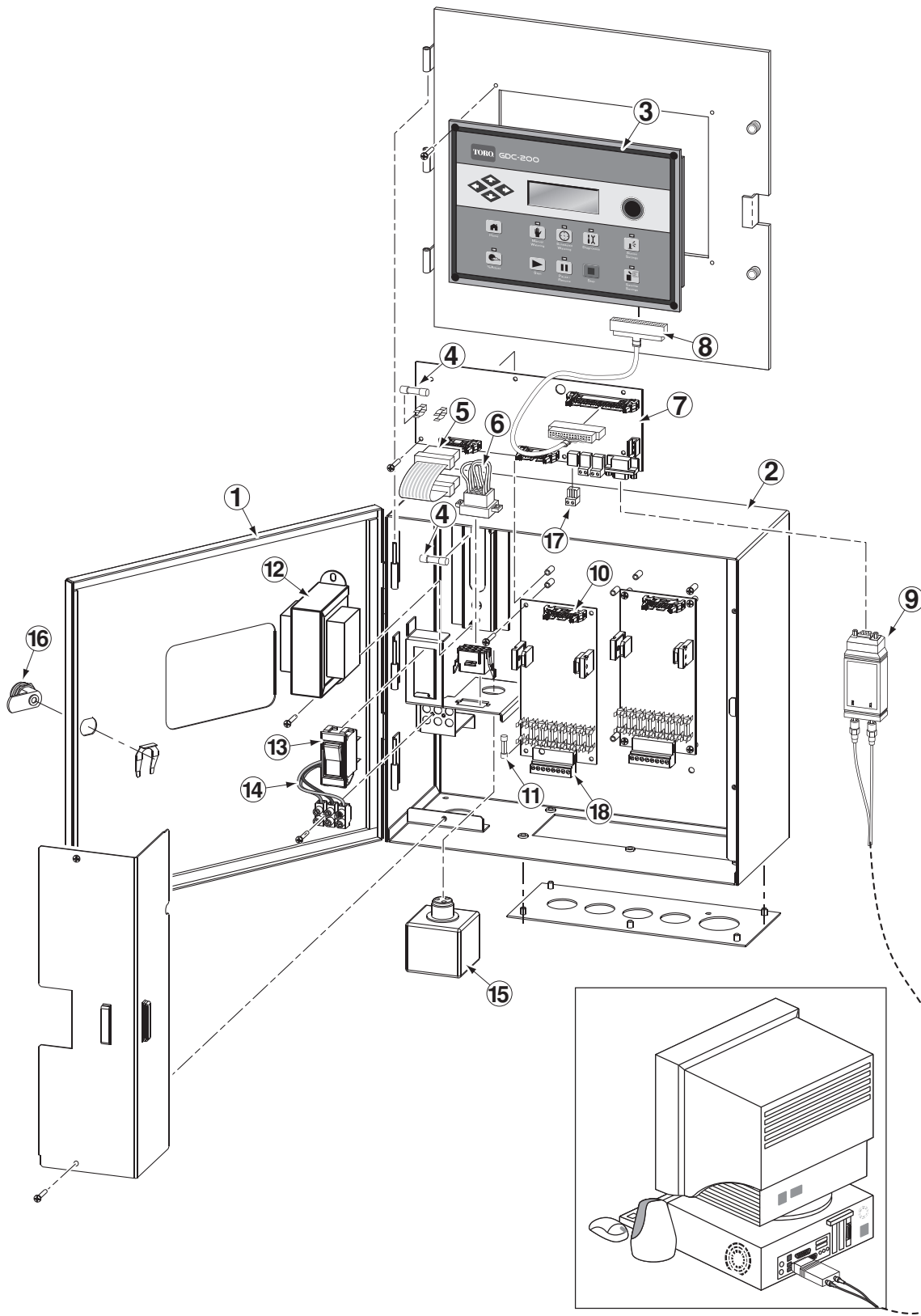
**Available from NSN

TouchNet For Network LTC Plus Satellite



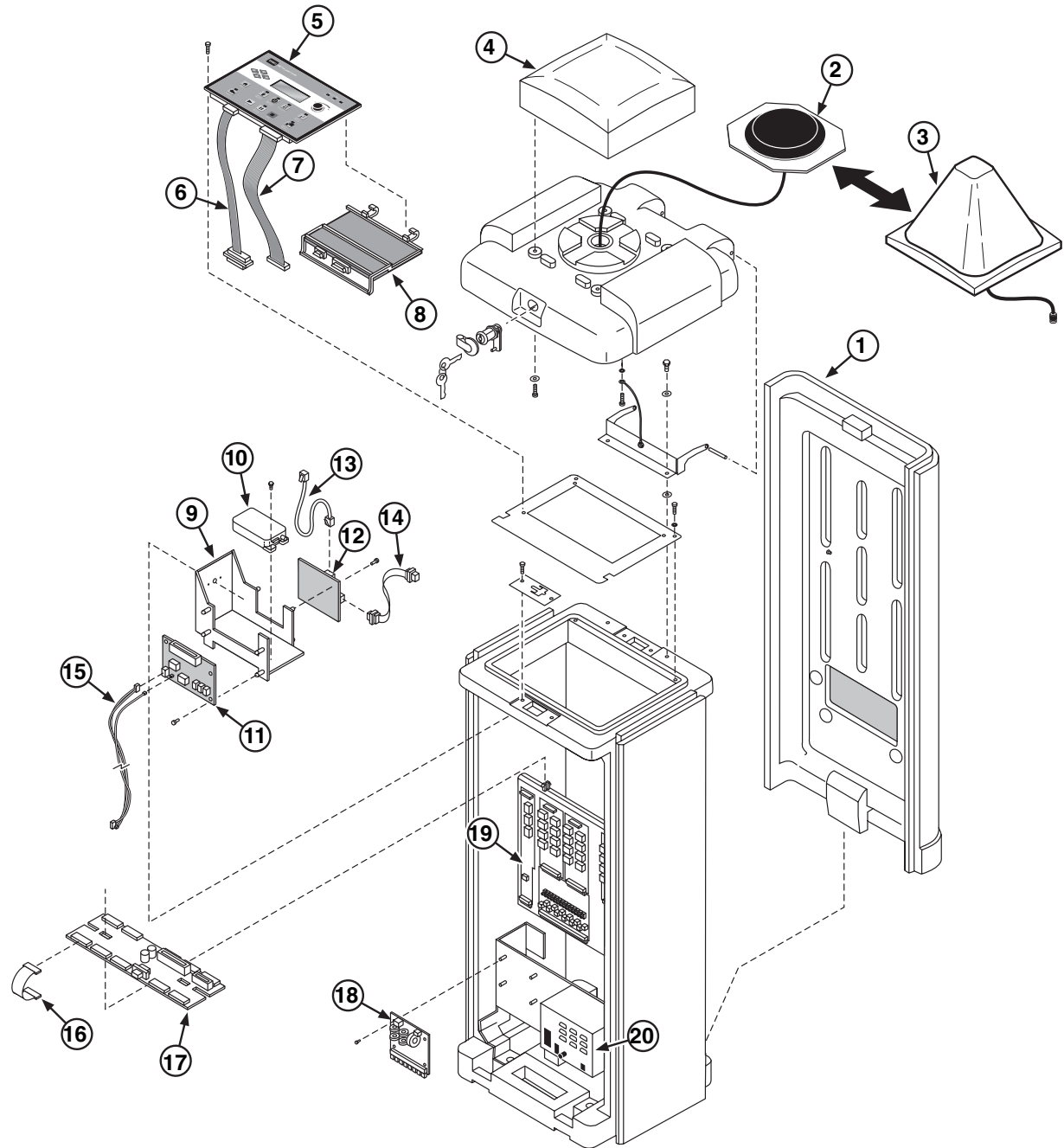
Item No.	Part No.	Description	Quantity Per Assy.
1	**89-8791	Data Panel, TouchNet	1
2	363-3549	Clamp	6
3	89-8357	Housing Kit (Includes Items 4 & 5)	1
4	-----	Base, Housing	1
5	-----	Screw, Machine , #4-40	6
6	102-0864	PCB Assy., Standard Modem	1
7	363-1355	Screw, Tap, #6	4
8	-----	PCB Assy., DTP-To-Modem	1
9	363-3531	Switch, Rocker	1
10	-----	Wire Harness Assy.	1
11	89-8534	Ribbon Cable Assy., Interface	1
12	102-0878	Transformer Assy., 12 V d.c.,1.5 Amp	1
13	102-0877	Power Cord, U.S./Canada	1
14	89-9065	Connection Cable Assy. (Use w/Hand-held Remote Interface)	1
**Available From NSN			

GDC – Stand-Alone & PC Models, 2-Wire Decoder Systems



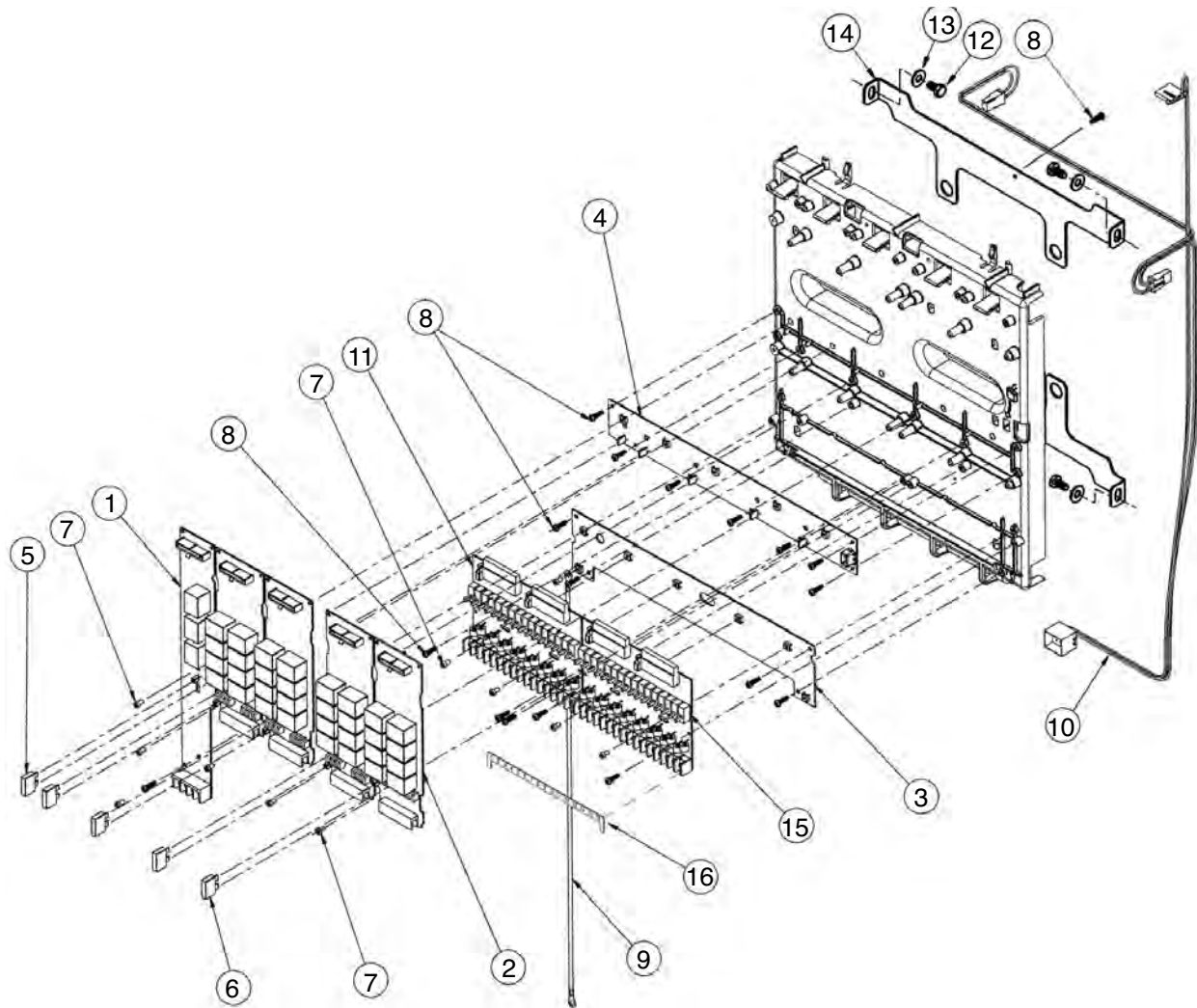
Item No.	Part No.	Description	Quantity Per Assy.
1	102-5048SK	Door, Gateway Decoder	1
2	102-5047SK	Cabinet, Gateway Decoder	1
3	102-6151SK	Timing Mechanism Assy., GDC (Stand Alone Models Only)	1
4	363-5606	Fuse, 3.15A	2
5	102-4598SK	Ribbon Cable Assy., Mother Board to Daughter Board	1
6	91-1626	Power Connector, 100V	1
6	91-1627	Power Connector, 120V	1
6	91-1629	Power Connector, 220V	1
7	102-7696SK	PCB Assy., Gateway Motherboard	1
8	102-5908SK	Cable Assy., Timing Mechanism to Motherboard (Stand Alone Models Only)	1
9	102-6461	Fiber Optic Converter Kit, Gateway to Central Computer (PC Models Only)	1
10	102-7693SK	PCB Assy., Gateway Daughterboard	2
11	363-4249	Fuse, 3A, Daughterboard	16
12	-----	Power Transformer (See Item 102-4768SK)	1
13	363-3361	Switch, Circuit Breaker, 1.5A	1
14	102-4766SK	Wire Harness, Terminal Block to Switch	1
15	-----	Surge Arrestor (See Item 102-4767SK)	1
16	363-3785	Lock Assy. w/ Keys	1
17	363-4500	Plug, 2 POS	3
18	363-3572	Plug, 8 POS	2
		SERVICE ITEMS	
	102-4768SK	Power Supply Assy. (Includes Item 12 and Associated Cable Assy.)	
	102-4767SK	Harness, Surge, Service (Includes Item 15 and Associated Cable Assy.)	
	102-4185SK	Battery, 3V	

Network VP Satellite (2006 and Later Model) – Plastic Cabinet



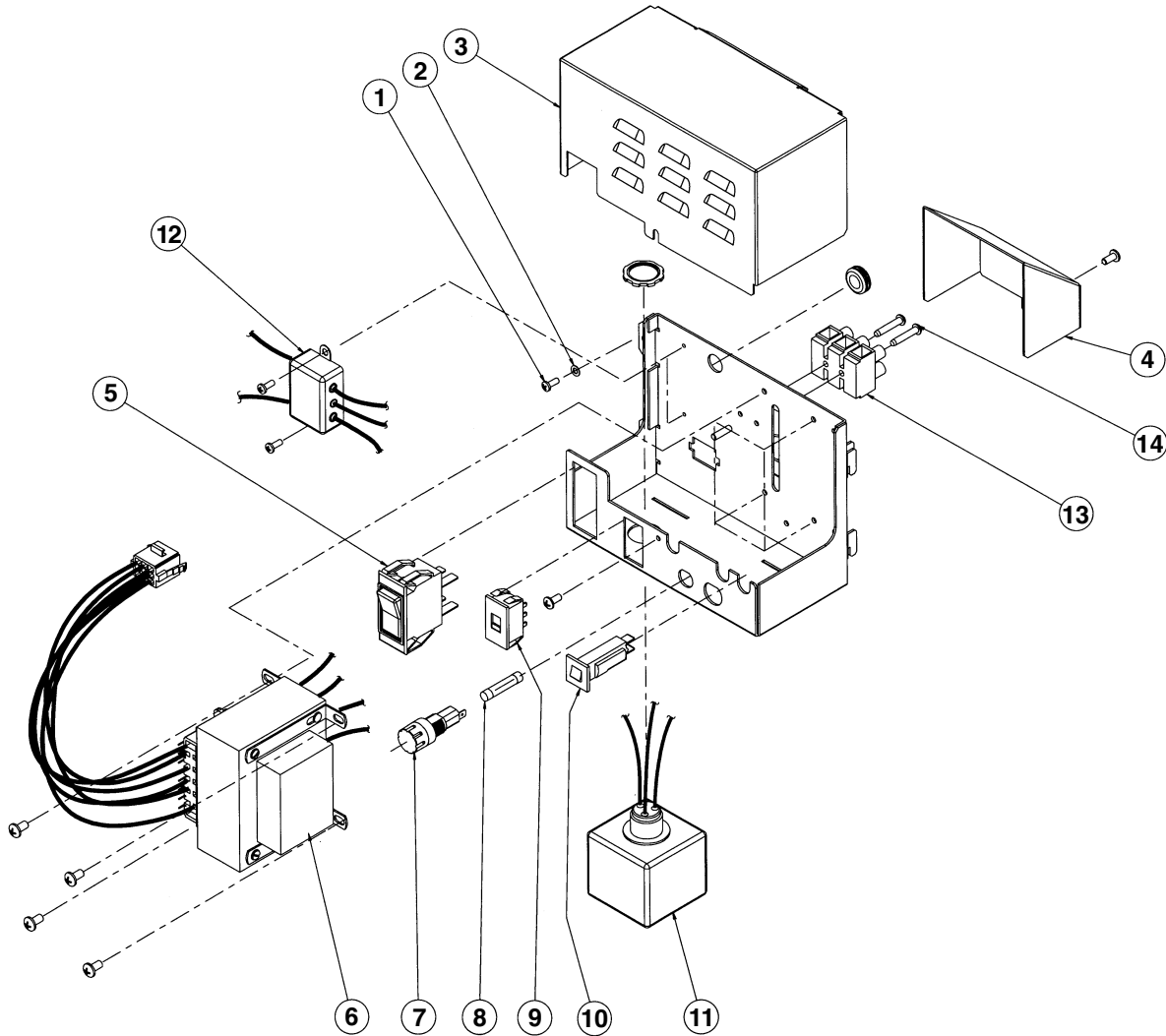
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Satellite Plastic Pedestal & Components (See Plastic Satellite Pedestal Section.)	1
2	-----	Antenna Assy., Plastic Pedestal (See Service Item 102-6808)	1
3	-----	Dome Antenna Assy., Plastic Pedestal (See Plastic Satellite Pedestal Section.)	1
4	102-4778	Cover, Satellite Lid	
5	102-3497SK	Timing Mechanism, VP Satellite	1
6	102-4573SK	Cable Assy., T/M to Modem	1
7	102-3030SK	Cable Assy., T/M to Distribution	1
8	-----	Standard Modem (See Service Item 89-9026)	1
9	-----	Bracket, Radio Assy. (UHF Models Only)	1
10	363-4638SK	Maxon Radio (UHF Models Only) (See Service Item 363-4638)	1
11	89-7701	*Universal Modem (UHF Models Only)	1
12	102-3125SK	*Radio Interface Board (UHF Models Only)	1
13	363-3619SK	*RJ-45 Cable Assy. (UHF Models Only)	1
14	102-3257SK	*DB-9 Cable Assy. (UHF Models Only)	1
15	-----	Cable Assy., Modem to Surge Board (UHF Models Only) (See Service Item 89-9044)	1
16	102-0670	Ribbon Cable, Power Distribution Board to Output Module	**
17	102-2782SK	Distribution Board	1
18	89-8589	PCB Assy. Surge Board	**
19	-----	VP Internal Components (See p. 212 for Parts List)	**
20	-----	Power Supply Assy. (See p. 213 for Parts List)	1
		SERVICE ITEMS	
	363-4185SK	Battery, VP Back-up, Service	
	89-9044	Cable Assy., Surge to Modem & Surge to Terminal Block	
	102-6808	Kit, Service, Antenna Assy., Plastic Pedestal (Includes Item 2)	
	89-9026	Service, Standard Modem (2-Wire Modem Models Only)	
		* Order Through Finished Goods Distribution System—Minneapolis	
		** Quantity Varies With Model	

Network VP Satellite – Internal Components



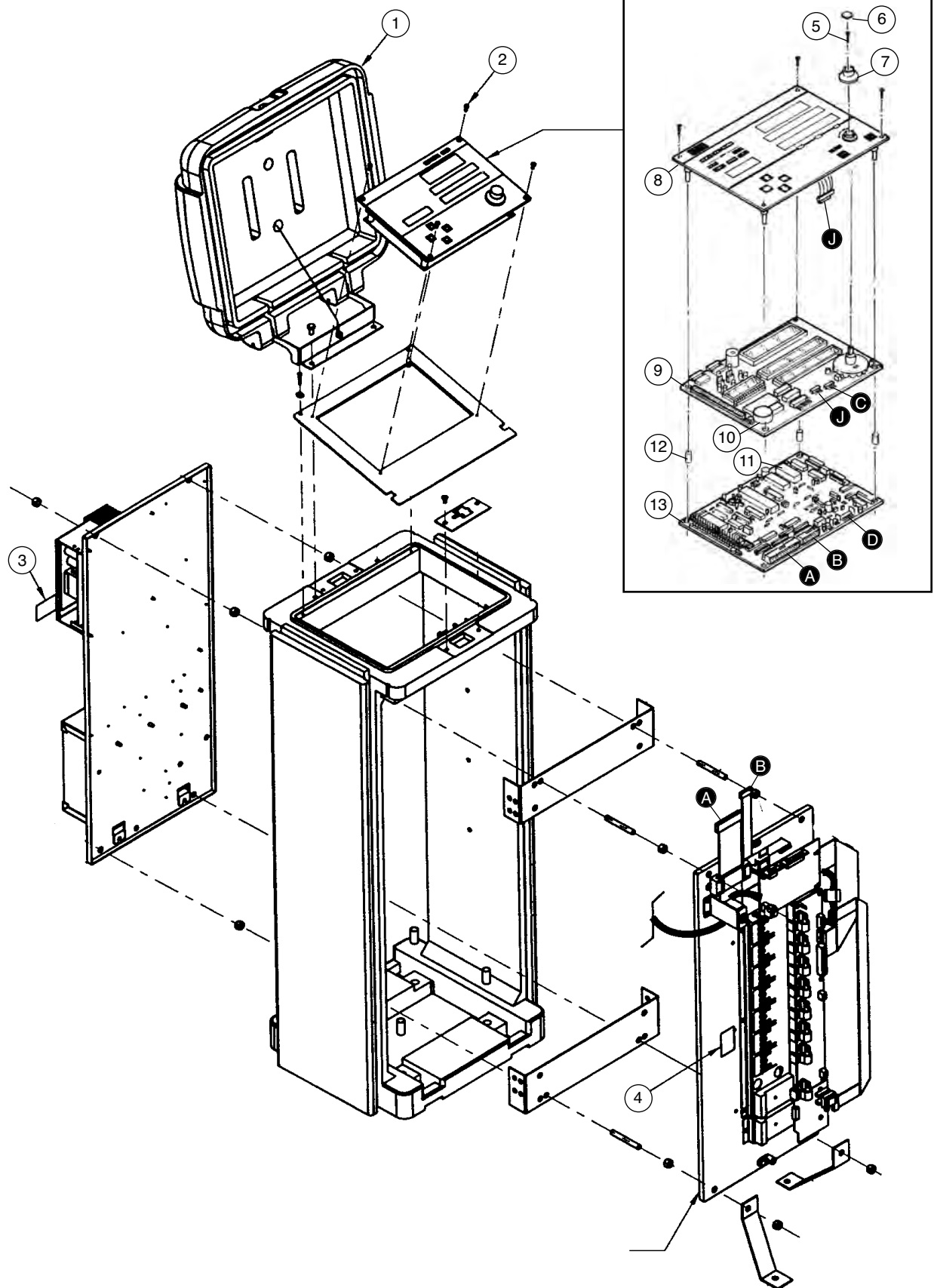
Item No.	Part No.	Description	Quantity Per Assy.
1	102-3015SK	Pump/Common Module Assy. (Includes Items 5, 7 & 102-0670 Ribbon Cable)	1
2	*102-0654	Output Module Assy., 8-Station (Includes Items 6, 7 & 102-0670 Ribbon Cable)	**
3	102-0652	Ground Bus Bar PCB Assy., Service (Includes Item 8)	1
4	102-0653	24 V a.c. Bus Bar PCB Assy., Service (Includes Item 8)	1
5	102-0658	Fuse, 1.0 Amp, Fast-blow, Service (5-pack)	1
6	102-0657	Fuse, 3.0 Amp, Fast-blow, Service (5-pack)	4
7	102-0671	Screw, Machine, 6-32 x 1/4"	11
8	363-1355	Screw, #6, Self-Taping	20
9	102-0685	Wire Harness Assy., Grounding	1
10	102-0686	Wire Harness Assy., Power Supply	1
N/I	*102-0638	8-Station Terminal Block (M0 Surge Level)	**
11	*102-0639	16-Station Module Assy. (M1 Surge Upgrade) (Includes Items 7 & 8)	**
11	*102-0640	16-Station Module Assy. (M2 Surge Upgrade) (Includes Items 7 & 8)	**
11	*102-0641	16-Station Module Assy. (M3 Surge Upgrade) (Includes Items 7 & 8)	**
11	*102-0642	16-Station Module Assy. (M4 Surge Upgrade) (Includes Items 7 & 8)	**
12	360-0595	Screw, Machine, 1/4-20 x 1/2"	4
13	360-0140	Washer, Flat, 1/4"	4
14	-----	Bracket, Mount Backplate	2
15	102-4586	Plastic Cover, Switches	**
16	102-5940SK	Kit, Station Labels, Numbered, Plastic	**
		* Order Through Finished Goods Distribution System—Minneapolis	
		** Quantity Varies With Model	

Network VP Satellite – Power Supply Assembly



Item No.	Part No.	Description	Quantity Per Assy.
1	4-1063	Screw, Tap, #6 x 3/8"	2
2	-----	Washer, Lock, #6	2
3	102-0646	Cover, Power Supply	1
4	102-0695	Cover, Wire Terminal	1
5	102-0666	Switch/Circuit Breaker, 1.5 Amp	1
6	-----	Transformer Assy. w/Wire Harness (See Service Item 102-0382)	1
7	102-0649	Fuse Holder Assy.	1
8	-----	Fuse, 3.2 Amp, Slow-Blow, Service (See Service Item 102-0650)	1
9	102-0648	Selector Switch, 115/230 V a.c.	1
10	102-0651	Circuit Breaker, 4.0 Amp	1
11	102-0668	Surge Protection Assy. w/Nut	1
12	102-0700	Filter Assy., EMI	1
13	102-0667	Terminal Block, 115/230V (Includes Item 14)	1
14	360-0297	Screw, Tap, #6	2
		SERVICE ITEMS	
	102-0650	Fuse, 3.2 Amp, Slow-blow (10-pack)	
	102-0382	Transformer Assy., Service	

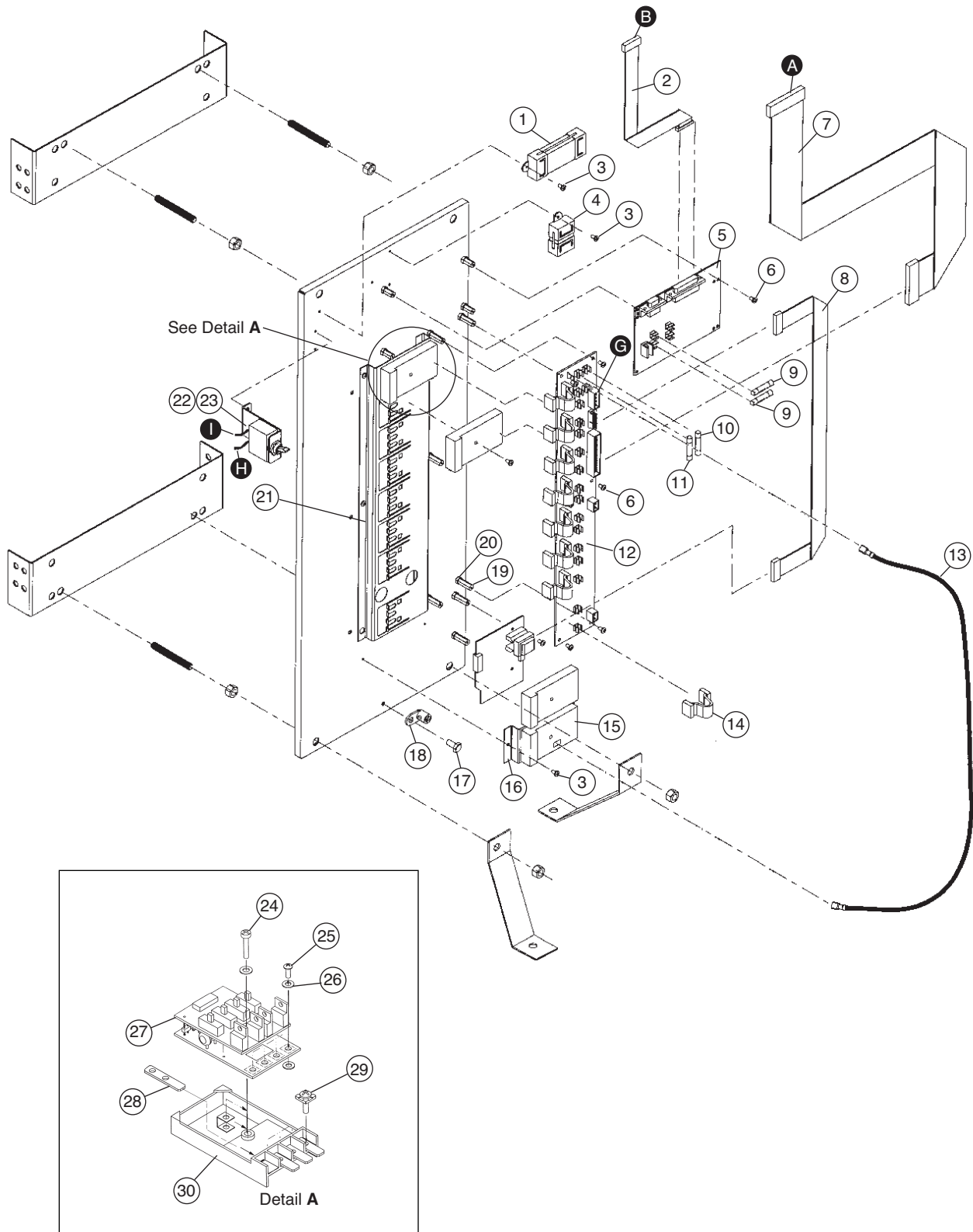
Network 8000 Satellite, Plastic Cabinet, Internal Components (Sheet 1 of 5)



Note: For **C** & **D** connection, refer to **Sheet 4**.

Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Satellite Plastic Pedestal & Components (See Plastic Satellite Pedestal Section.)	
2	4-1063	Screw, Tap, #6	6
3	-----	Label, Caution, Removable Door	1
4	-----	Label, Serial, FCC	1
5	363-1596	Screw, Tap, #6-19	1
6	35-7637	Cap, Knob	1
7	35-6237	Knob	1
8	35-6247	Faceplate Assy.	1
9	35-6246	PCB Assy., Display	1
10	363-2200	Battery, 3.9V	1
11	91-0976	IC, 27C256, Programmed (EPROM)	1
12	35-6243	Spacer	4
13	91-1790	PCB Assembly, Processor	1
SERVICE ITEMS			
	9-1051	Mounting Template, Plastic	
	91-2340	Control Panel Assy., Service (Includes Items 5–13)	

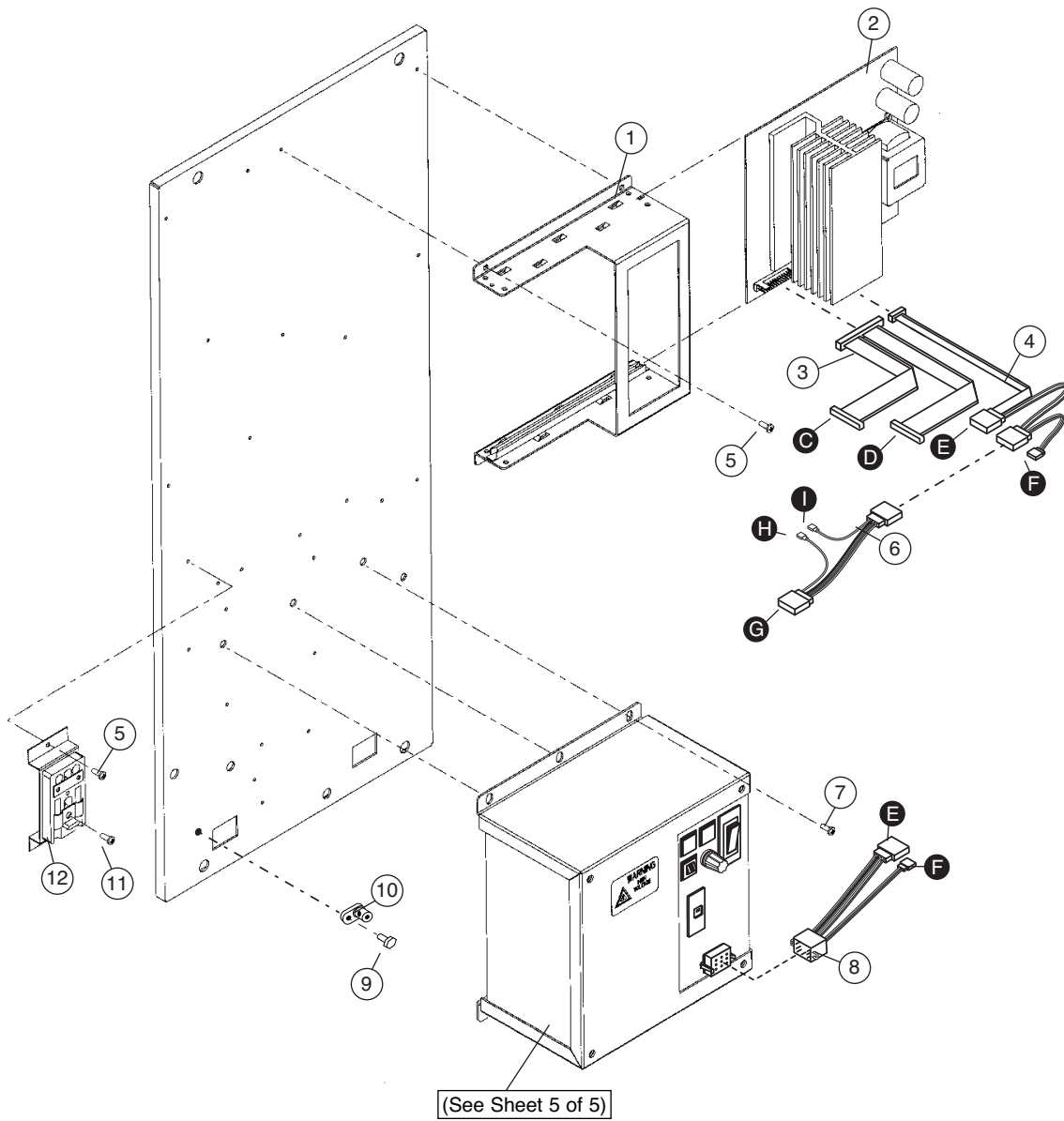
Network 8000 Satellite – Plastic Cabinet, 24V Output Assembly (Sheet 3 of 5)



Note: For **G**, **H** & **I** connection, refer to Sheet 4 of 5.

Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Ferrite, Flat Cable, 3"	1
2	-----	Cable Assy., Modem	1
3	4-1063	Screw, Tap, #6	9
4	-----	Ferrite, Flat Cable, 1.5"	1
5	102-0864	PCB Assy., Standard Modem	1
6	360-0285	Screw, Machine, 6-32 x 3/8"	18
7	35-8662	Cable Assy., Fuse Board	1
8	-----	Cable Assy., Voltage Monitor	1
9	102-3819	Fuse, 0.75 Amp, Modem (10-Pack)	2
10	363-2638	Fuse, 0.5 Amp, Distribution	1
11	363-2497	Fuse, 3.2 Amp, Slow-blow, Distribution	8
12	91-1783	PCB Assy., Fuse and Distribution	1
13	-----	Wire Assy., 18 AWG, Brown	1
14	35-8664	Cable Assy., Triac	8
15	91-1783	PCB Assy., Pump/Current Monitor	1
16	35-6346	Bracket, Pump Triac Module	1
17	360-0595	Screw, Machine, 1/4-20 x 1/2"	1
18	363-1553	Lug, Grounding	1
19	363-2812	Standoff, #6-32 x 3/8"	8
20	1-3079	Nut, Hex, 6-32	12
21	89-8150	Bracket, Triac Module	1
22	-----	Bracket, Switch	1
23	363-2370	Breaker, Circuit, 10 Amp	1
24	1-6051	Screw, #8 PHPH, Steel	9
25	3-2698	Screw, Tap, #6-32 x 1/4"	32
26	360-0600	Washer, Lock, Ext T	72
27	35-6399	Base Assy., Triac	8
28	35-6418	Terminal Tab, Triac	36
29	363-2431	Screw, #6 x 1/2", Hi-Lo w/Clamp	36
30	35-6418	Base, Triac Module	9
		SERVICE ITEMS	
	89-8100	ASSY., Triac Module, NW8K (Includes Items 24–27) (See Detail A)	
	35-6399	Base Assy., Triac Module (Includes Items 28–30) (See Detail A)	

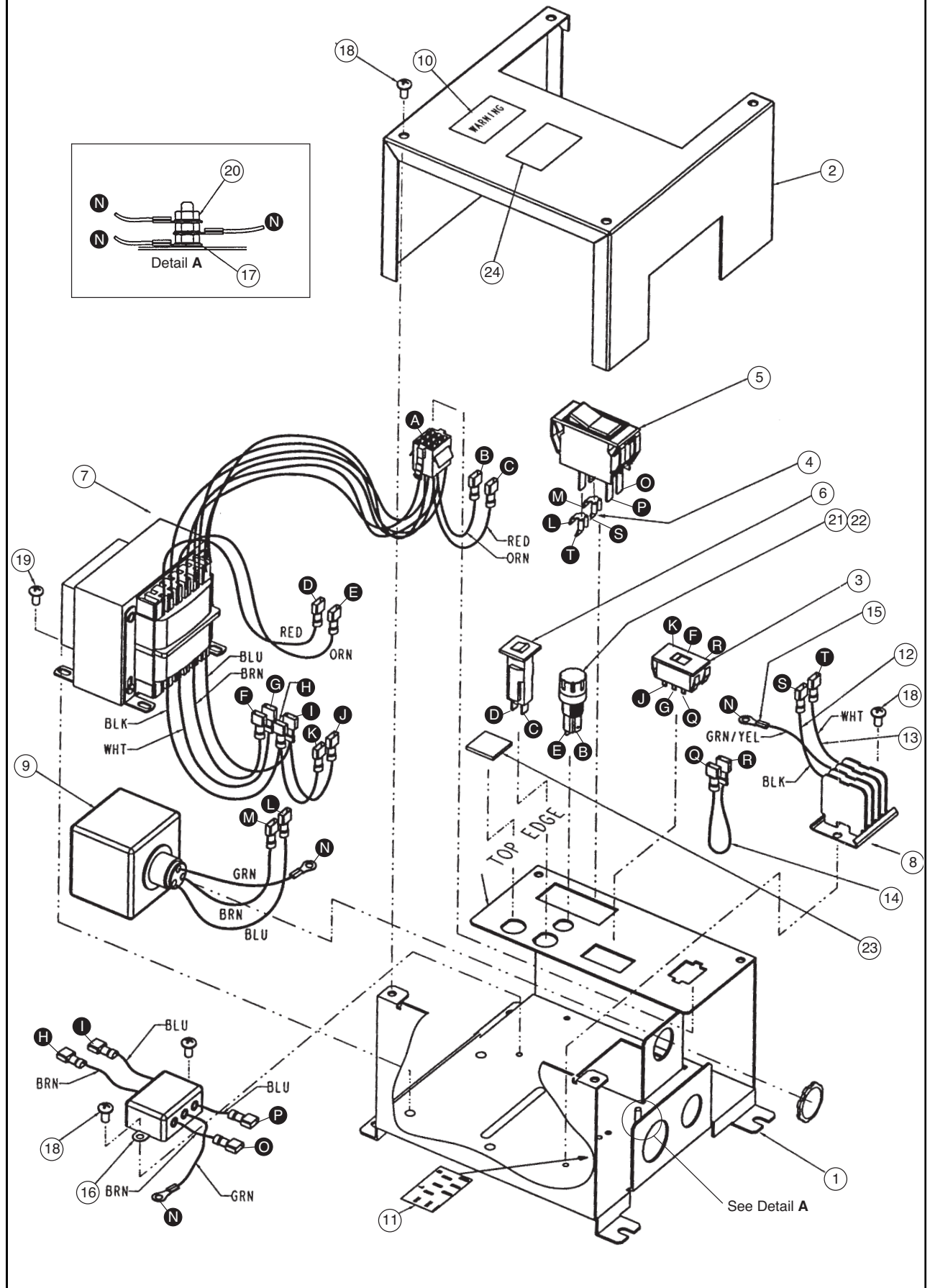
Network 8000 Satellite – Plastic Cabinet, AC/DC Power Supply (Sheet 4 of 5)



Note: For **C** & **D** connection, refer to **Sheet 1 of 5**. For **G**, **H** & **I** connection, refer to **Sheet 3 of 5**.

Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Bracket, AC-DC, NW8K	1
2	91-1779	PCB Assy., Power Supply	1
3	-----	Cable Assy., PCB to Modem	1
4	-----	Cable Assy., PCB to Power Supply	1
5	4-1063	Screw, Tap, #6 PHPH	6
6	-----	Cable Assy., PCB to Distribution Board	1
7	3-1453	Screw, Machine, #10-32 x 3/8", PHPH, SST	3
8	-----	Cable Assy., Power Supply to PCB	1
9	360-0595	Screw, Machine, 1/4-20 x 1/2"	1
10	363-1553	Lug, Grounding	1
11	363-3103	Screw, Tap, #6-19 x 3/4", PHPH	1
12	35-8833	Bracket Assy., Com Cable	1
		SERVICE ITEMS	
	35-8833	Bracket Assy., Communication Cable (Includes Items 5, 11 & 12)	

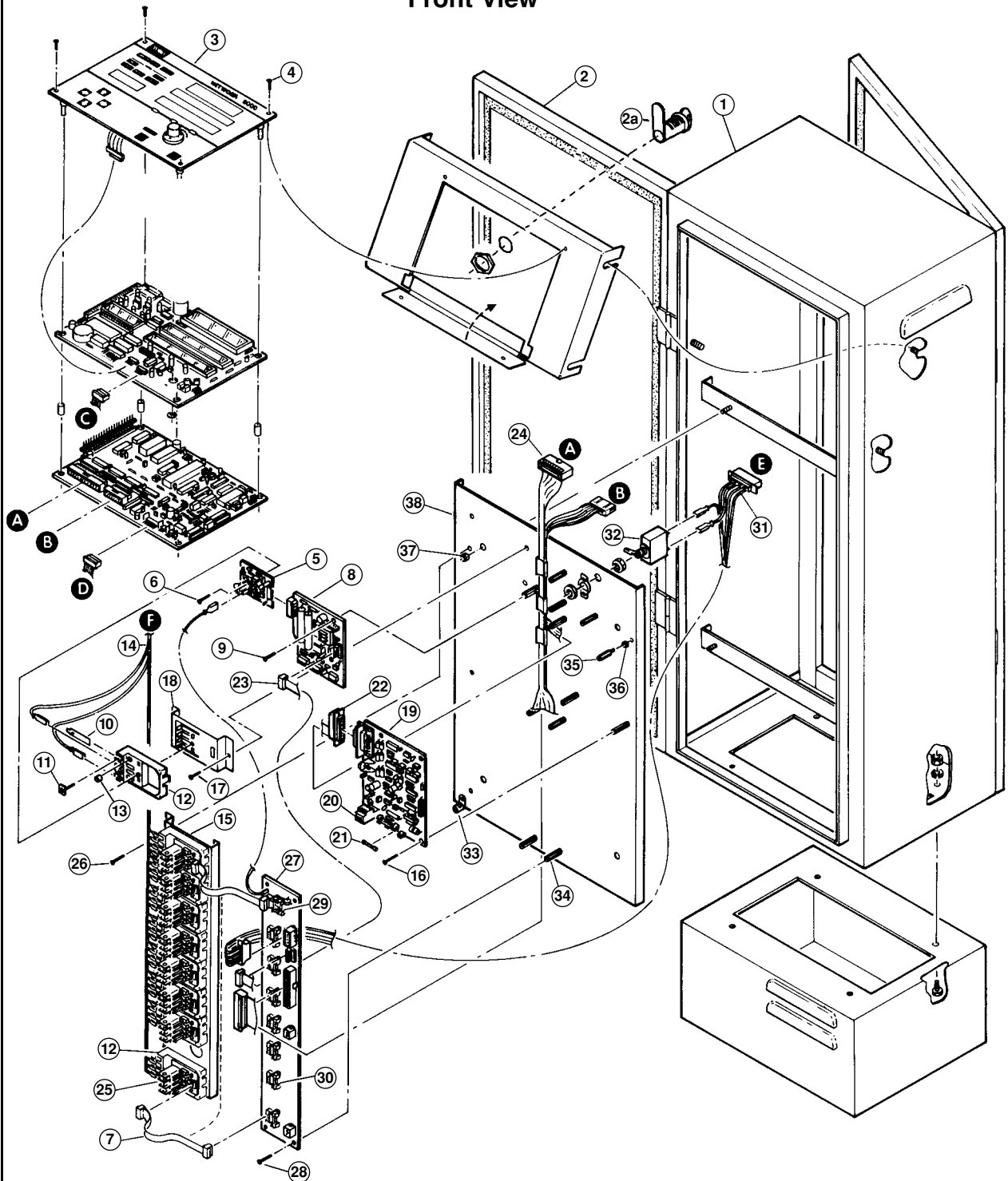
Network 8000 Satellite – Plastic Cabinet, Power Supply Assembly (Sheet 5 of 5)



Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Case, Base, Standard Power Supply	1
2	-----	Case Cover, Standard Power Supply	1
3	102-0648	Slide Switch 115/230 V a.c.	1
4	-----	Tab Adapter	1
5	363-3361	Switch, Circuit Breaker, 1.5 Amp	1
6	363-5270	Circuit Breaker, 4.0 Amp	1
7	89-8285	Transformer, Power Supply	1
8	363-2371	Terminal Block, 3-Position	1
9	89-7513	Surge Protection Assy.	1
10	89-0722	Label, Warning	4
11	-----	Label, Terminal Block	2
12	-----	Wire Assy., 18 AWG, Black	1
13	-----	Wire Assy., 8 AWG, White	1
14	-----	Wire Assy., 18 AWG, Black	1
15	-----	Wire Assy., 18 AWG, Green/Yellow	1
16	-----	Filter Assy., RFI	1
17	360-0600	Washer, Lock, External Tooth, #8	1
18	360-0498	Screw, Machine, #8-32 x 1/4" PHPH SST	4
19	3-1453	Screw, Machine, #10-32 x 3/8", PHPH	2
20	-----	Hex Nut, #8-32 w/Lock Washer	1
21	360-0750	Fuse Holder	1
22	363-2497	Fuse, 3.2 Amp	1
23	-----	Cap, Blank	1
24	-----	Label, Service Kit	1
		SERVICE ITEMS	
	89-8279	Power Supply Module (Includes Items 1–25)	

Network 8000 Satellite – Large Stainless-Steel Pedestal (Sheet 1 of 2)

Front View

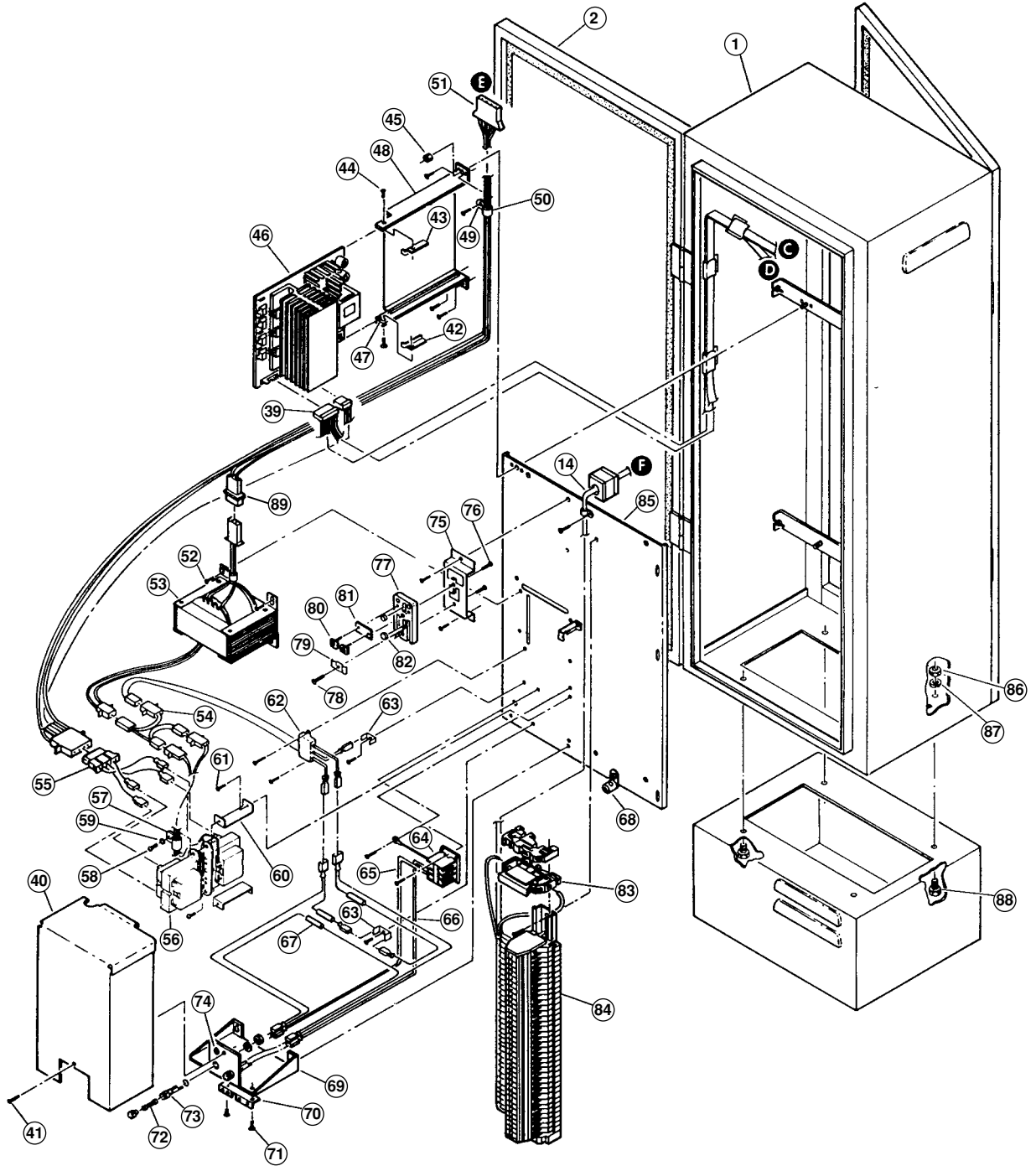


Note: A–F indicates cable connection points and routing.

Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Cabinet Assy., Pedestal Controller (See Service Items)	1
2	-----	Door, Cabinet (See Service Items)	2
2A	363-2814	Lock Assy. (Includes Keys)	2
3	-----	Control Panel Assy. (See p. 230 for Parts List)	1
4	360-0285	Screw, Machine #6-32 x 3/8", SST	4
5	35-6326	PCB Assy., Pump/Current Monitor	1
6	-----	Screw, Tap #8, SST	1
7	35-8664	Cable Assy., Triac Board	8
8	91-1782	PCB Assy., Valve Voltage Monitor	1
9	1-3076	Screw, Tap, #6-32 x 3/8".	2
10	35-6418	Tab, Terminal	4
11	363-2431	Screw, #6 x 1/2", HI-LO w/Clamp	4
12	35-3434	Base, Triac Module	8
13	360-0471	Surge Protector	4
14	35-8742	Cable Assy., Triac Module	1
15	35-8795	Bracket, Triac Module	1
16	1-3076	Screw, Tap, #6-32 x 3/8"	4
17	4-1063	Screw, Tap, #6	2
18	35-6346	Bracket, Pump Triac Module	1
19	89-7852	PCB Assy., Modem (Includes Items 20 & 21)	1
20	363-2231	Connector, 3-Pin, Female	1
21	363-2638	Fuse, 0.5 Amp, 250V, 3AG	1
22	35-6328	Cable Assy., Modem	1
23	35-8663	Cable Assy., Valve Voltage	1
24	35-8662	Cable Assy., Fuse Board	1
25	35-6332	PCB Assy., Triac Module	8
26	4-1063	Screw, Tap #6	6
27	91-1783	PCB Assy., Fuse and Distribution	1
28	1-3076	Screw, Tap, #6-32 x 3/8"	4
29	363-2497	Fuse, 3.2 Amp Slow-blow	8
30	363-2498	Fuse, 0.5 Amp Slow-Blow	1
31	35-8754	Cable Assy., Power, 24 V a.c.	1
32	363-2370	Circuit Breaker, 10 Amp	1
33	363-1553	Lug, Grounding	1
34	363-2804	Standoff, Hex, #6-32 x 1/2"	6
35	363-2812	Standoff, Hex, 6-32 x 3/4"	6
36	1-3079	Nut, Hex, 6-32	12
37	360-0594	Nut, Hex, 1/4-20	3
38	-----	Plate, Front Mounting	1
		SERVICE ITEMS	
	35-8480	Cabinet Assy., Pedestal Controller (Includes Items 1, 2, 2A and 39)	
	91-0986	Door Assy., Cabinet (Includes Items 2 and 2A)	
	35-6399	Base Assy., Triac Module (Includes Items 10-13)	
	9-1051	Board, Mtg Hole Pattern	
	363-1683	Washer, Flat, 5/16"	
	363-1684	Nut, Hex, 5/16-18	
	363-1686	Screw, Cap 5/16" x 4"	

Network 8000 Satellite – Large Stainless Steel Pedestal (Sheet 2 of 2)

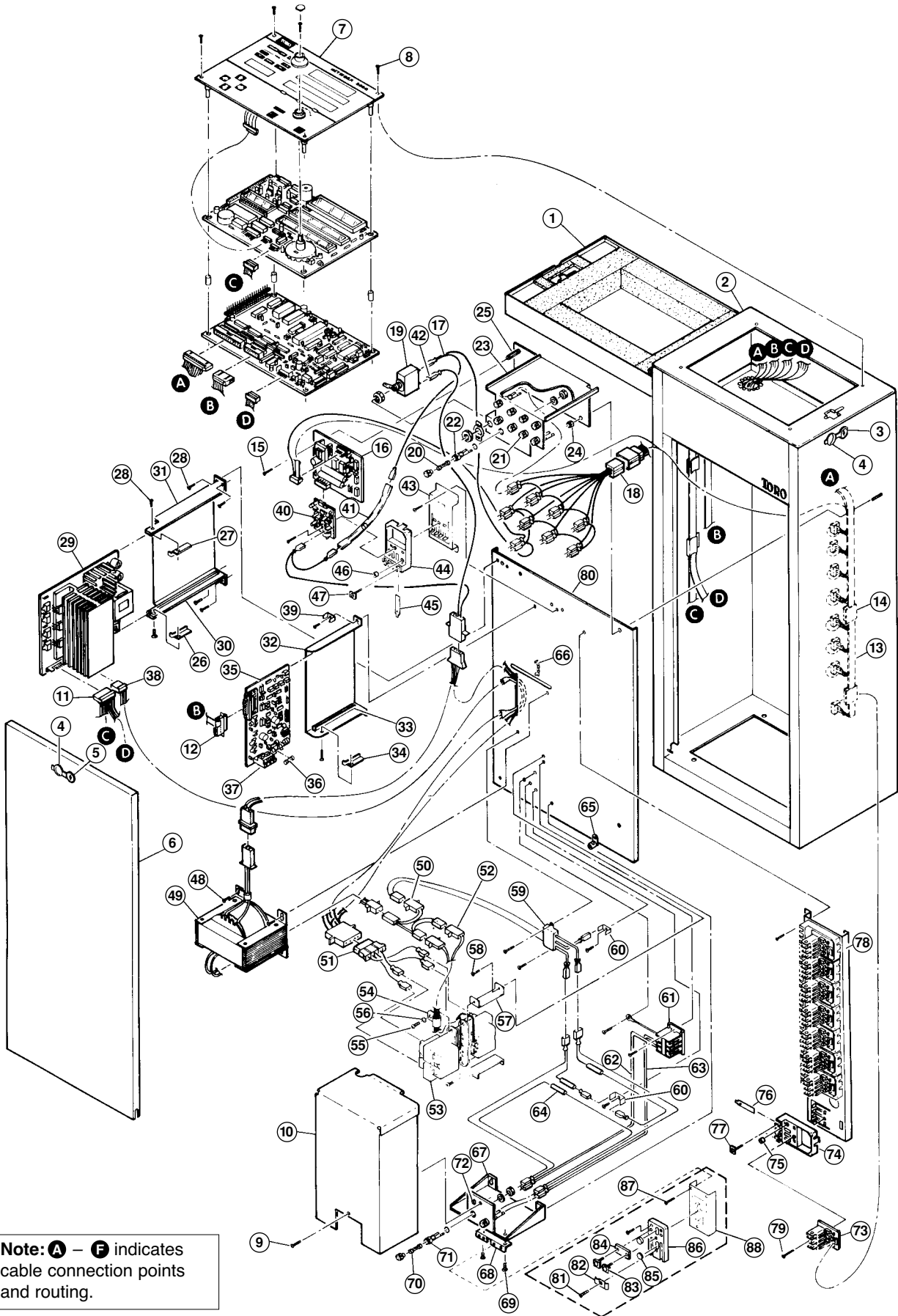
Back View



Note: C – F indicates cable connection points and routing.

Item No.	Part No.	Description	Quantity Per Assy.
39	35-8705	Cable Assy., Power	1
40	35-6345	Cover, Power Supply	1
41	3-2698	Screw, Tap, #6	1
42	35-8704	Bracket, Retainer, Lower	1
43	-----	Bracket, Retainer, Upper	1
44	4-1063	Screw, Tap, #6	2
45	360-0594	Nut, Hex, 1/4-20	1
46	91-1779	PCB Assy., Power Supply	1
47	363-2233	Guide, Card, PCB, 6-3/4"	2
48	35-8367	Bracket, Power Supply	1
49	-----	Washer, Flat, #8, Brass	2
50	1-7176	Clamp, Cable, Large	1
51	35-8755	Cable Assy., Power Level 3	1
52	360-0355	Screw, Tap, #8	1
53	35-8583	Transformer Assy., Triac	1
54	35-8792	Cable Assy., Transformer, 24V	1
55	35-8837	Cable Assy., Transformer, Power	1
56	91-1288	Transformer Assy., 24V, 20 VA	2
57	1-7176	Clamp, Cable, Large	1
58	360-0355	Screw, Tap, #8	1
59	3-4021	Washer, Flat, #8, Brass	1
60	35-8174	Bracket, Transformer	2
61	4-1063	Screw, Tap, #6	4
62	35-8904	Filter Assy., RFI	1
63	363-1346	Tab, Terminal	2
64	363-2371	Terminal Block	1
65	35-7841	Wire Assy., Fuse/Terminal Block, Black	1
66	35-7842	Wire Assy., Fuse/Terminal Block, White	1
67	360-0345	Surge Protector	3
68	363-1553	Lug, Grounding	1
69	-----	Bracket, Conduit	1
70	35-7738	Bracket, Pill Carrier	1
71	3-2698	Screw, #6 x 1/4"	5
72	363-2260	Fuse, 3 Amp	2
73	360-0750	Holder, Fuse	2
74	363-2459	Plug, Hole	1
75	35-8448	Bracket, Surge Protector	1
76	363-1596	Screw, Tap, #6-19	1
77	35-7458	Carrier, Surge Protector	1
78	363-3103	Screw, Tap #6-19 x 3/4", PHPH	1
79	363-2271	Clamp, Cable	1
80	363-2431	Screw, #6 x 1/2" Hi-Lo w/Clamp	2
81	35-7524	Strap	1
82	360-0471	Surge Protector	2
83	363-2635	Fuse, 7.5 Amp	1
84	363-2807	Terminal Strip	1
85	35-9703	Plate, Rear Mounting	1
86	363-1684	Nut, Hex, 5/16-18	8
87	363-1683	Washer, Flat, 5/16"	4
88	363-1686	Screw, Cap, 5/16" x 1.5"	4
89	89-7464	Cable Assy., Y-Harness	1
		SERVICE ITEMS	
	35-8833	Bracket Assy., Communication Cable (Includes Items 75-82)	
	35-8741	Bracket and Fuse Assy. (Includes Items 69-74)	
	35-9114	Lightning Protection Assy. (Includes Item 67)	
	35-8753	Transformer Assy., Power (Includes Items 56-60)	
	91-0987	PCB Assy., Mod. 30, 286, Network 8000 (SNC)	
	363-1684	5/16" Hex Nut, SST	
	363-1683	5/16" Flat Washer, SST	
	363-1686	5/16" x 4.5" Cap Screw, SST	
	35-9450	PCB Assy., Sensor Input, Network 8000 MC Unit	
	35-8472	Pressure Sensor Kit, Network 8000 MC Unit	
	35-9427	Cable Assy., Pressure Sensor, Network 8000 MC Unit	

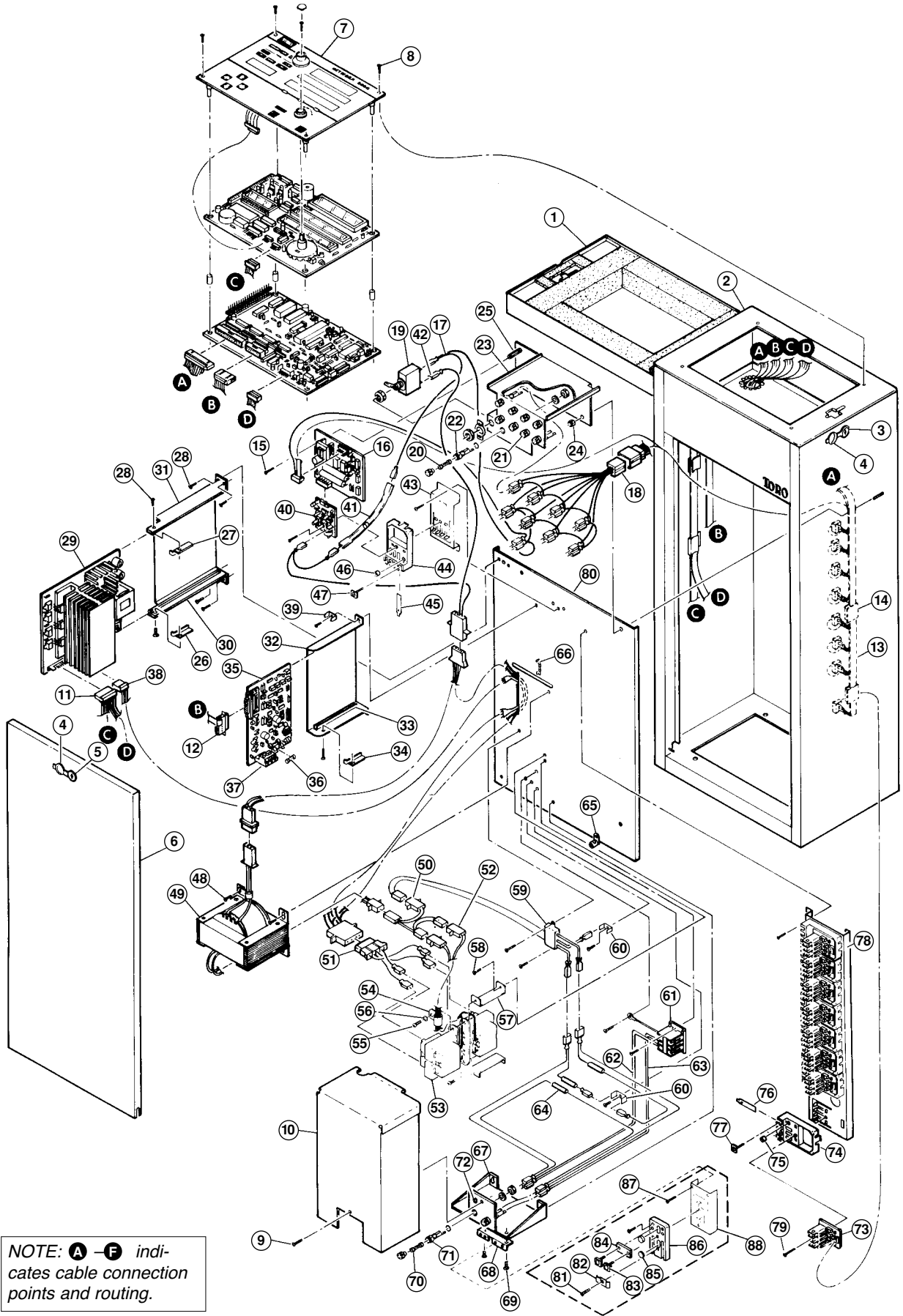
Network 8000 Satellite – Green Metal/Small Stainless Steel Pedestal (Sheet 1 of 2)



Note: A – F indicates cable connection points and routing.

Item No.	Part No.	Description	Quantity Per Assy.
1	9-4043	Lid Assy., Cabinet	1
2	89-0385	Housing, Green Metal Pedestal	1
3	360-0583	Lock Assy. (Includes Keys)	1
4	9-4303	Cover, Lock	2
5	360-0583	Lock, Assy. (Includes keys)	1
6	9-1018	Door, Pedestal	1
7	-----	Control Panel Assy. (See p. 230 for Parts List)	1
8	360-0285	Screw, #6-32 x 3/8", SST	4
9	3-2698	Screw, Machine, #6-32 x 1/4"	1
10	35-8706	Cover, Power Supply	1
11	35-8705	Cable Assy., Power	1
12	35-6328	Cable Assy., Modem	1
13	35-7605	Cable Assy., Triac Driver	1
14	363-2321	Clamp, Cable Flat	1
15	1-3076	Screw, #6-32 x 3/8"	1
16	91-1782	PCB Assy., Valve Voltage Monitor	1
17	35-7286	Wire Assy., Fuse	1
18	35-7575	Cable Assy., Triac, Fuse	1
19	363-2370	Circuit Breaker	1
20	363-2497	Fuse, 3.2 Amp, Slow-blow	8
21	363-2498	Fuse, 0.5 Amp, Slow-blow	1
22	360-0750	Holder, Fuse	9
23	35-7285	Bracket, Fuse	1
24	360-0594	Nut, Hex, #1/4-20	1
25	363-2812	Standoff, #6-32 x 3/4" Hex, M/F	8
26	35-8704	Bracket, Retainer, Lower	1
27	-----	Bracket, Retainer, Upper	1
28	4-1063	Screw, Tap, #6	6
29	91-1779	PCB Assy. Kit	1
30	363-2233	Guide, Card, PCB, 6-3/4"	2
31	35-8367	Bracket, Power Supply	1
32	35-8570	Bracket, Modem	1
33	363-2281	Guide, Card, PCB,	2
34	35-8704	Bracket, Retainer, Lower	1
35	91-1781	PCB Assy., Modem	1
36	363-2638	Fuse, 0.5 Amp	2
37	363-2231	Connector, 3-Pin, Female	1
38	35-8755	Cable Assy., Power Level 3	1
39	363-1346	Tab, Terminal	3
40	35-6326	PCB Assy., Pump and Current	1
41	35-7888	Surge Protector Assy.	1
42	35-8796	Cable Assy., 24V	1
43	35-6346	Bracket, Pump Triac Module	1
44	35-6399	Base Assy., Triac Module	9
45	35-6418	Terminal Tab	4
46	360-0471	Surge Protector	4
47	363-2431	Screw, #6 x 1/2", Hi-Lo w/Clamp	4
48	360-0355	Screw, Tap, #8	1
49	35-8583	Transformer Assy., Triac	1
50	35-8793	Cable Assy., Transformer, 24 V a.c.	1
51	35-8837	Cable Assy., Transformer, Power	1
52	363-1273	Connector, Pin	1
53	91-1288	Transformer Assy., Power	2
54	1-7176	Clamp, Cable, Large	1
55	360-0355	Screw, Tap, #8	1
56	3-4021	Washer, Flat, #8, Brass	1

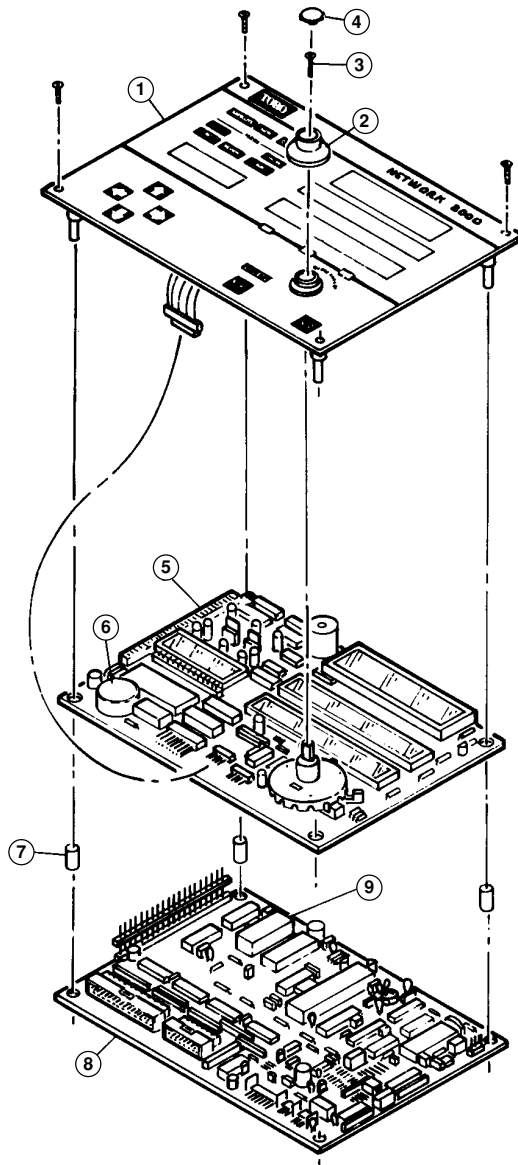
Network 8000 Satellite – Green Metal/Small Stainless Steel Pedestal (Sheet 2 of 2)



NOTE: A – F indicates cable connection points and routing.

Item No.	Part No.	Description	Quantity Per Assy.
57	35-8174	Bracket, Transformer	2
58	4-1063	Screw, Tap, #6	4
59	35-8904	Filter Assy., RFI	1
60	363-1346	Tab, Terminal	2
61	363-2371	Terminal Block	1
62	35-7841	Wire Assy., Fuse/Terminal Block, Black	1
63	35-7842	Wire Assy., Fuse/Terminal Block, White	1
64	360-0345	Surge Protector	3
65	363-1553	Lug, Grounding	1
66	35-7288	Clip, Ground	1
67	-----	Bracket, Conduit	1
68	35-7738	Bracket, Surge Pill Carrier	1
69	3-2698	Screw, #6 x 1/4"	5
70	363-2260	Fuse, 3 Amp	2
71	360-0750	Holder, Fuse	2
72	363-2459	Plug, Hole	1
73	35-6332	PCB Assy., Triac Module	1
74	35-3434	Base, Triac Module	1
75	360-0471	Surge Protector	32
76	35-6418	Terminal Tab	32
77	363-2431	Screw, Hex, 1/2", Hi-Lo w/Clamp	32
78	35-8795	Bracket, Triac Module	1
79	-----	Screw, Tap, #8	8
80	35-9703	Plate, Rear Mounting	1
81	360-0733	Screw, Tap, #6	1
82	363-2271	Clamp, Cable	1
83	363-2431	Screw, #6 x 1/2", Hi-Lo w/Clamp	2
84	35-7524	Strap	1
85	360-0471	Surge Protector	2
86	35-7458	Carrier, Surge Protector	1
87	363-1596	Screw, Tap, #6-19	1
88	35-7790	Bracket Assy., Surge Protector	1
		SERVICE ITEMS	
	91-0987	PCB Assy., Mod. 30, 286, Network 8000	
	91-0488	Pedestal, Satellite, Network 8000, Small Stainless Steel (Includes Items 1-6)	
	91-0291	Door Assy., Stainless Steel (Includes Items 4-6)	
	9-4993	Door Assy., Green Metal Pedestal (Includes Items 4-6)	
	9-1695	Lock Assy., Lid (Includes Items 3 & 4)	
	35-7287	Bracket Assy., Fuse (Includes Items 17-23)	
	35-8706	Plate Assy., Rear (Includes Items 26-80)	
	35-8753	Transformer Assy., Power (Includes Items 52-57)	
	35-9114	Lightning Protection Assy. (Includes Item 64)	
	35-8741	Bracket and Fuse Assy. (Includes Items 67-72)	
	35-6399	Base Assy., Triac Module (Includes Items 74-77)	
	35-8970	Kit, Installation, Network 8000 (Includes Items 81-88)	
	35-2355	Fuse Holder, Inline (Small Stainless Steel Pedestal Only)	
	363-2635	Fuse, 7.5 Amp	
	363-1684	Hex Nut, 5/16" (Small Stainless Steel Pedestal Only)	
	363-1683	Flat Washer, 5/16" (Small Stainless Steel Pedestal Only)	
	363-1686	Cap Screw, 5/16 x 4.5" (Small Stainless Steel Pedestal Only)	

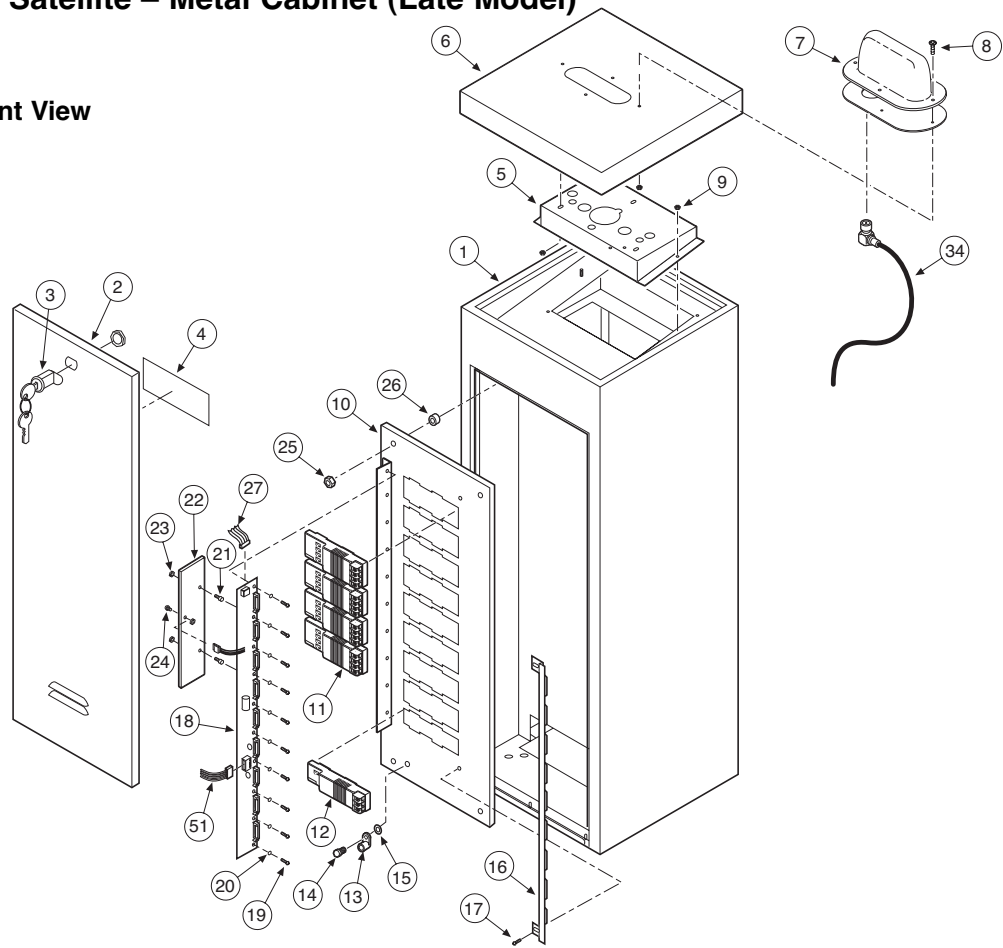
Network 8000 Satellite Control Panel Assembly



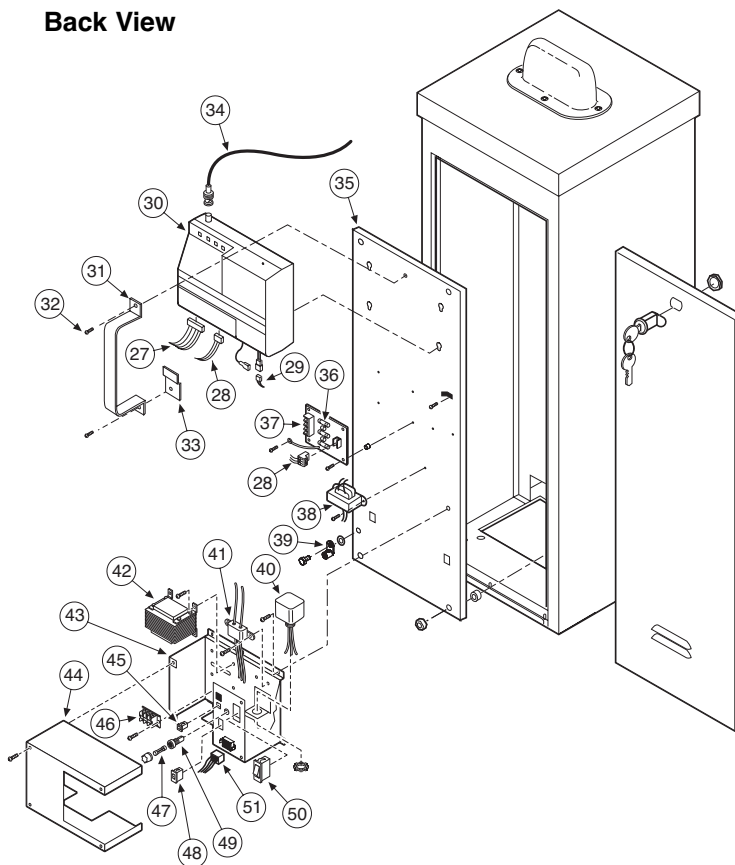
Item No.	Part No.	Description	Quantity Per Assy.
1	35-6247	Faceplate Assy., NW 8000 Sat.	1
1	-----	Faceplate Assy., NW 8000 MC Unit	1
1	-----	Faceplate Assy., NW 8000 PLC	1
2	35-6237	Knob	1
3	363-1596	Screw, Tap, #6-19	1
4	35-7637	Cap, Knob	1
5	91-1784	PCB Assy., Display, NW 8000 Sat.	1
5	91-1791	PCB Assy., Display, NW 8000 MC Unit	1
5	91-1772	PCB Assy., Display, NW 8000 PLC	1
6	363-2200	Battery, 3.9V	1
7	35-6243	Spacer	4
8	91-1790	PCB Assy., Processor, NW 8000 Sat.	1
8	91-1786	PCB Assy., Processor, NW 8000 MC Unit	1
8	91-1787	PCB Assy., Processor, NW 8000 PLC	1
9	995-94	EPROM, Network 8000 Satellite, Rev. 5.06	1
		SERVICE ITEMS	
	91-2340	Control Panel Assy., Network 8000 (Includes Items 1-9)	
	91-1278	Control Panel Assy., Network 8000 MC Unit (Includes Items 1-9)	
	91-1800	Control Panel Assy., Network 8000 PLC (Includes Items 1-9)	

Network DR2 Satellite – Metal Cabinet (Late Model)

Front View



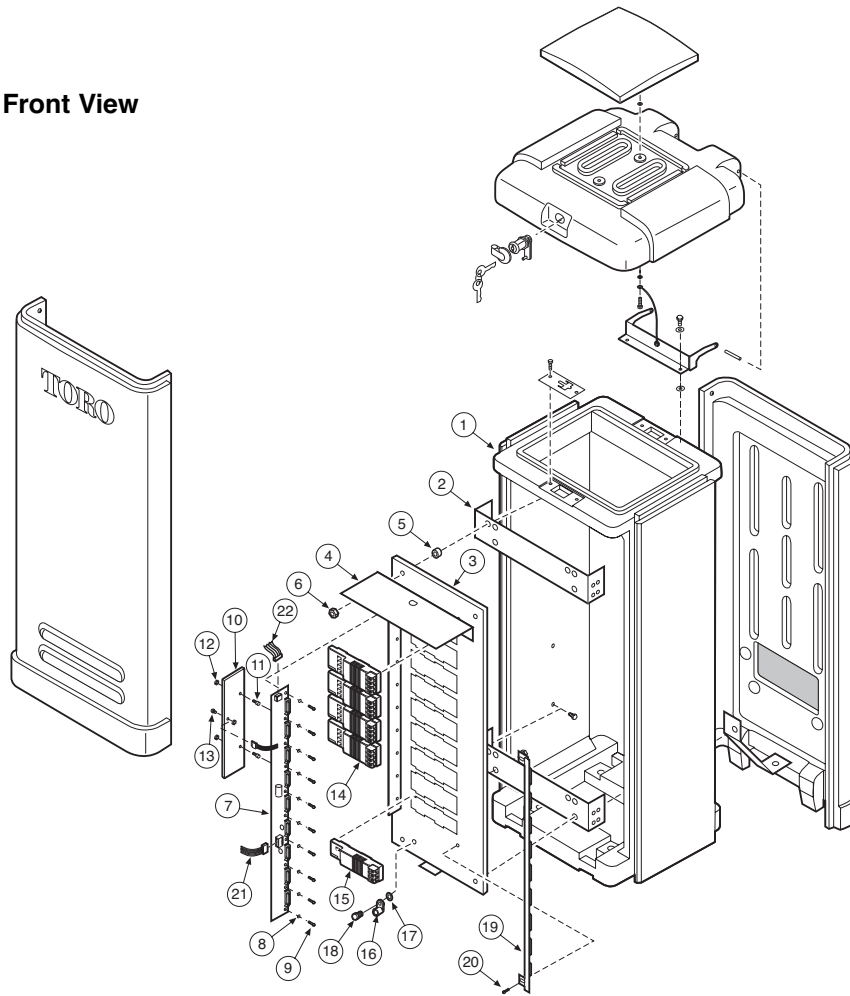
Back View



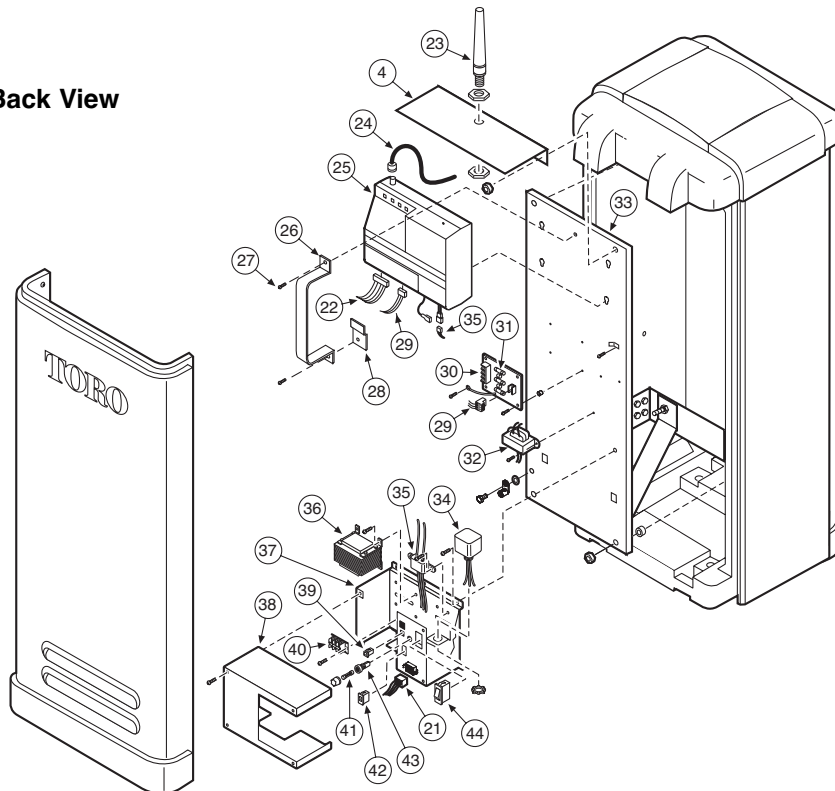
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Cabinet Assy., Pedestal, 13" x 13"	1
2	89-7842	Door Assy., (Includes item 3)	2
2	89-7846	Door Assy., SST (Includes item 3)	2
3	363-5369	Lock Assy., Door	2
4	91-0910	Decal, Caution, Removable Door	2
5	-----	Adapter, Pedestal Lid	1
6	-----	Lid, (Antenna-Mount) (See Service Items)	1
6	-----	Lid, SST (Antenna-Mount) (See Service Items)	1
7	-----	Antenna, Dome, 400–470 MHz (See Service Items)	1
8	-----	Screw, Machine, #10-32 x 5/8"	4#
9	-----	Hex Nut, #10-32 w/Ext T Lk	8
10	-----	Plate, Module, Mounting, 32	1
11	*MOD-S4	Module Assy., Output	4
12	89-7711	Module Assy., Pump	1
13	363-1553	Lug, Grounding	1
14	-----	Screw, Machine, 1/4-20 x 1/2"	1
15	-----	Washer, Lock, 1/4	2
16	89-7394	Lock, Module	1
17	363-1752	Screw, Machine, #10-32	2
18	89-7786	PCB Assy., BUF, Back Plane	1
19	360-0498	Screw, Machine, #8-32	10
20	-----	Washer, Lock, #8	10
21	-----	Spacer, #8-32, Male/Female	2
22	-----	Heat Sink	1
23	-----	Hex Nut, #8-32	2
24	360-0285	Screw, Machine, #6-32	1
25	363-3236	Hex Nut, 5/16	8
26	-----	Spacer	8
27	89-7771	Cable Assy., Output	1
28	-----	Cable Assy.	1
29	89-8001	EMI Filter Assy. (w/Cables)	1
30	*DR2-00-01	DR2 Scorpio, Frequency 1	1
30	*DR2-00-02	DR2 Scorpio, Frequency 2	1
30	*DR2-00-03	DR2 Scorpio, Frequency 3	1
30	*DR2-00-04	DR2 Scorpio, Frequency 4	1
30	*DR2-00-05	DR2 Scorpio, Frequency 5	1
30	*DR2-00-06	DR2 Scorpio, Frequency 6	1
30	*DR2-00-AA	DR2 Scorpio, Frequency, Special	1
31	-----	Bracket, Shipping,	1
32	-----	Screw, Tap, #6,	2
33	-----	Bracket, Terminal, Scorpio	1
34	-----	Cable Assy., Antenna	1
35	89-7750	Plate, Power Supply, Mounting	1
36	363-2638	Fuse, 0.5 Amp	3
37	89-7682	PCB Assy., LCM/Sensor Interface	1
38	89-7979	XFMR Assy., Isolation (w/Cables)	1
39	363-1553	Lug, Grounding	1
40	102-0668	Joslyn Surge Protector w/Nut	1
41	89-8001	EMI Filter Assy. (w/Cables)	1
42	-----	Transformer w/Wire Harness (See Service Item 102-0647)	1
43	-----	Power Supply Metal Base	1
44	-----	Power Supply Metal Cover	1
45	102-0651	Circuit Breaker, 4.0 Amp	1
46	363-3216	Terminal Block, Socket	1
47	102-0650	Fuse, 3.2 Amp (10-pack)	1
48	102-0648	Voltage Selector Switch	1
49	102-0649	Fuse Holder w/Cap	1
50	102-0666	ON/OFF Switch	1
51	-----	Cable Assy., Power Supply	1
		SERVICE ITEMS	
	360-0565	Keys, Lock (Golf #1382)	
	89-7775	Lid Assy., Ped., SST w/ Antenna (Includes Items 6–8)	
	89-8158	Lid, Pedestal (Non-Antenna)	
	89-8159	Lid, Pedestal, SST (Non-Antenna)	
	89-7789	Back Plate Assy., DR2 (Includes Items 10–24)	
	102-0647	Transformer Assy., Svc.	
		* Order Through Finished Goods Distribution System–Minneapolis	

Network DR2 Satellite – Plastic Cabinet

Front View



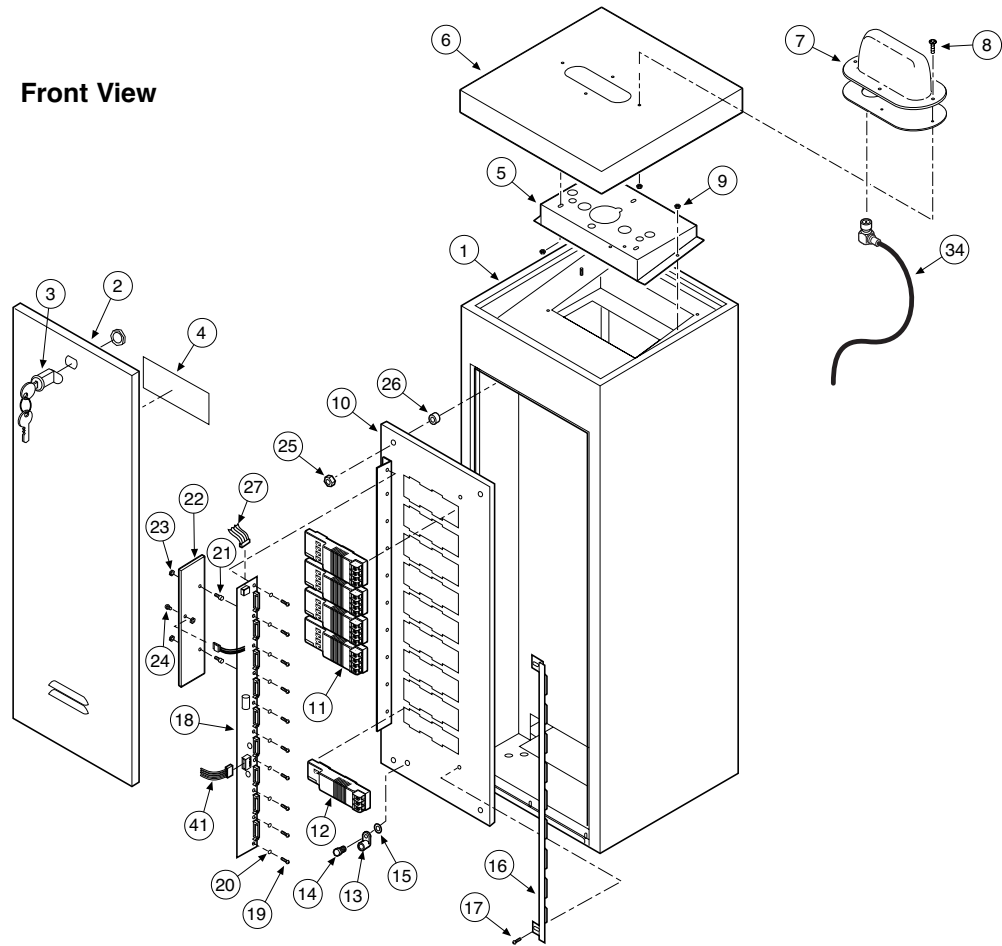
Back View



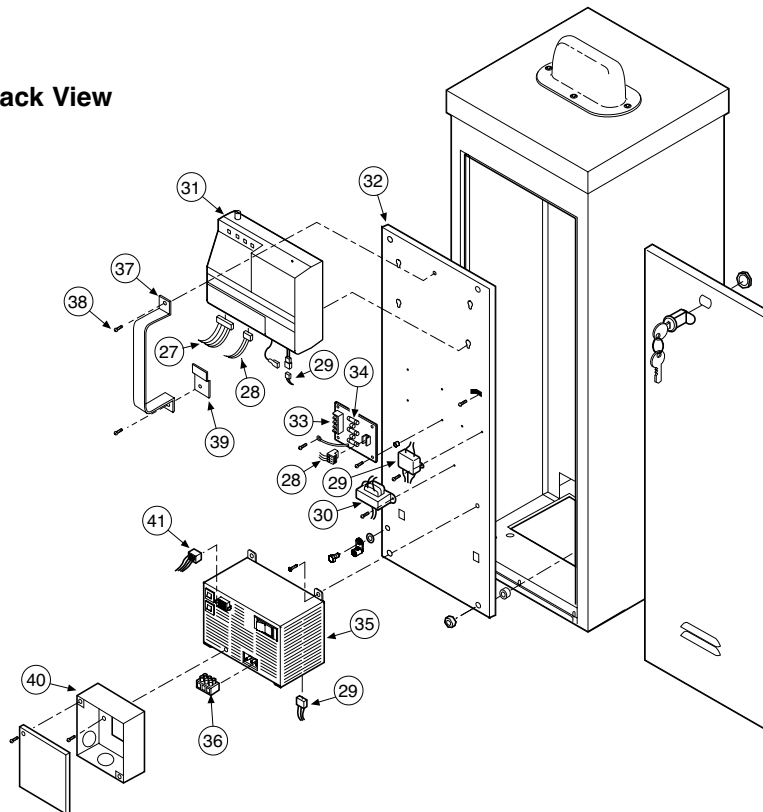
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Satellite Plastic Pedestal & Components (See p. 276-277 for Parts List)	1
2	89-8225	Bracket	2
3	-----	Plate, Module, Mounting	1
4	-----	Bracket, Antenna	2
5	*900-41	Retainer, Tube, 5/16" (Used as Spacer)	8
6	363-3236	Hex Nut, 5/16"	8
7	89-7786	PCB Assy., BUF, Back Plane	1
8	-----	Washer, Lock, #8	10
9	360-0498	Screw, Machine, #8-32	10
10	-----	Heat Sink	1
11	-----	Spacer, #8-32, Male/Female	2
12	-----	Hex Nut, #8-32	2
13	360-0285	Screw, Machine, #6-32	1
14	*MOD-S4	Module Assy., Output	4
15	89-7711	Module Assy., Pump	1
16	363-1553	Lug, Grounding	1
17	-----	Washer, Lock, 1/4"	2
18	-----	Screw, Machine, 1/4-20 x 1/2"	1
19	89-7394	Lock, Module	1
20	363-1752	Screw, Machine, #10-32	2
21	-----	Cable Assy., Power Supply	1
22	89-7771	Cable Assy., Output	1
23	*102-0655	Antenna, 450-475 MHz, w/BNC Connector	1
24	-----	Cable Assy., Antenna	1
25	*DR2-00-01	DR2 Scorpio, Frequency 1	1
25	*DR2-00-02	DR2 Scorpio, Frequency 2	1
25	*DR2-00-03	DR2 Scorpio, Frequency 3	1
25	*DR2-00-04	DR2 Scorpio, Frequency 4	1
25	*DR2-00-05	DR2 Scorpio, Frequency 5	1
25	*DR2-00-06	DR2 Scorpio, Frequency 6	1
25	*DR2-00-AA	DR2 Scorpio, Frequency, Special	1
26	-----	Bracket, Shipping,	1
27	-----	Screw, Tap, #6	2
28	-----	Bracket, Terminal, Scorpio	1
29	-----	Cable Assy.	1
30	89-7682	PCB Assy., LCM/Sensor Interface	1
31	363-2638	Fuse, 0.5 Amp	3
32	89-7979	Transformer Assy., Isolation w/Cables	1
33	-----	Plate, Mounting, Back	1
34	102-0668	Surge Protection Assy., w/Nut	1
35	89-8001	EMI Filter Assy. (w/Cables)	1
36	102-0647	Transformer w/Wire Harness	1
37	-----	Power Supply Metal Base	1
38	-----	Power Supply Metal Cover	1
39	102-0651	Circuit Breaker, 4.0 Amp	1
40	363-3216	Terminal Block, Socket	1
41	102-0650	Fuse, 3.2 Amp (10-pack)	1
42	102-0648	Voltage Selector Switch	1
43	102-0649	Fuse Holder w/Cap	1
44	102-0666	Switch, ON/OFF	1
		SERVICE ITEMS	
	89-7789	Back Plate Assy., DR2 (Includes Items 2, 3, 7, & 10-29)	
		* Order Through Finished Goods Distribution System--Minneapolis	

Network DR2 Satellite (Early Model)

Front View

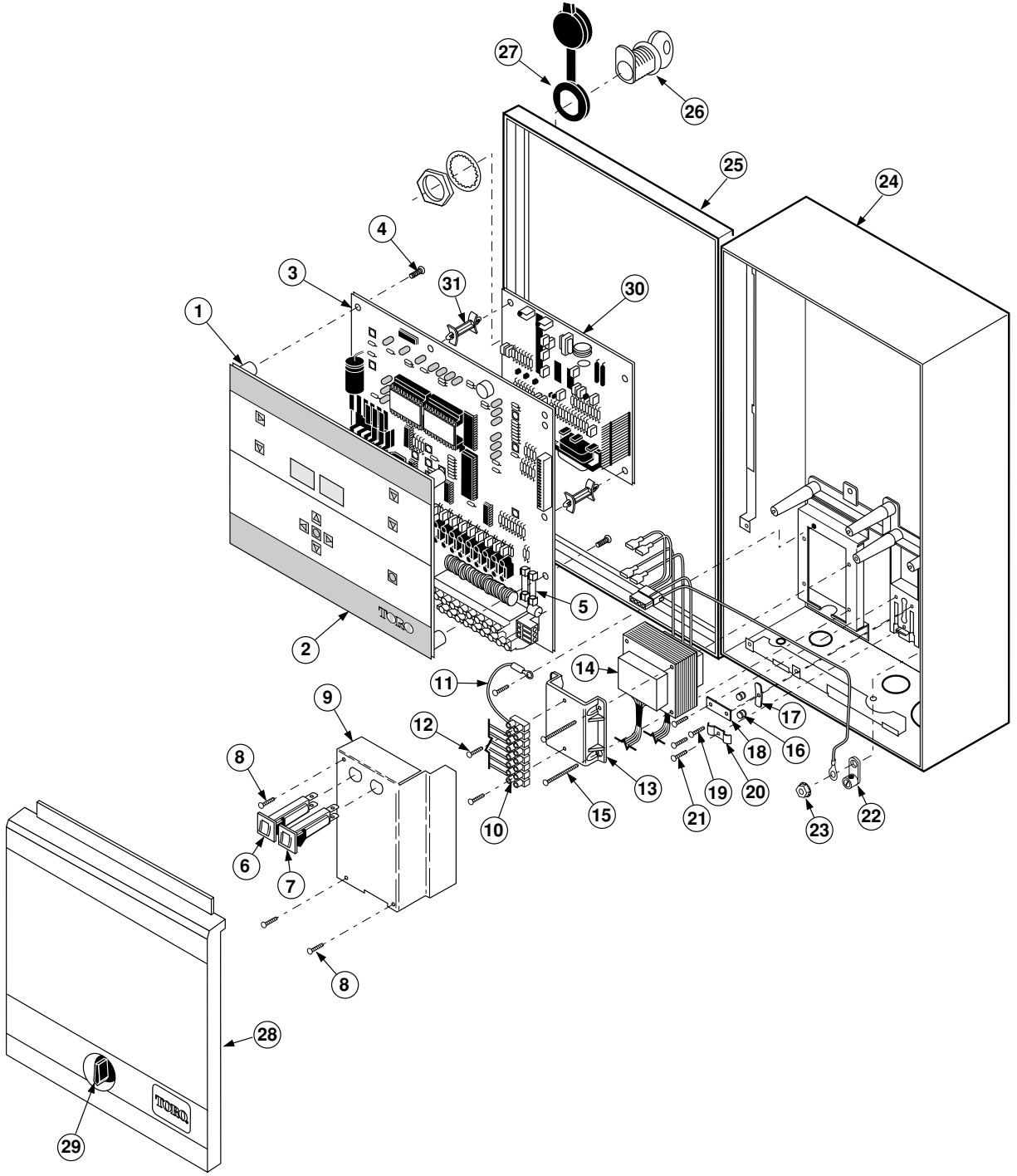


Back View



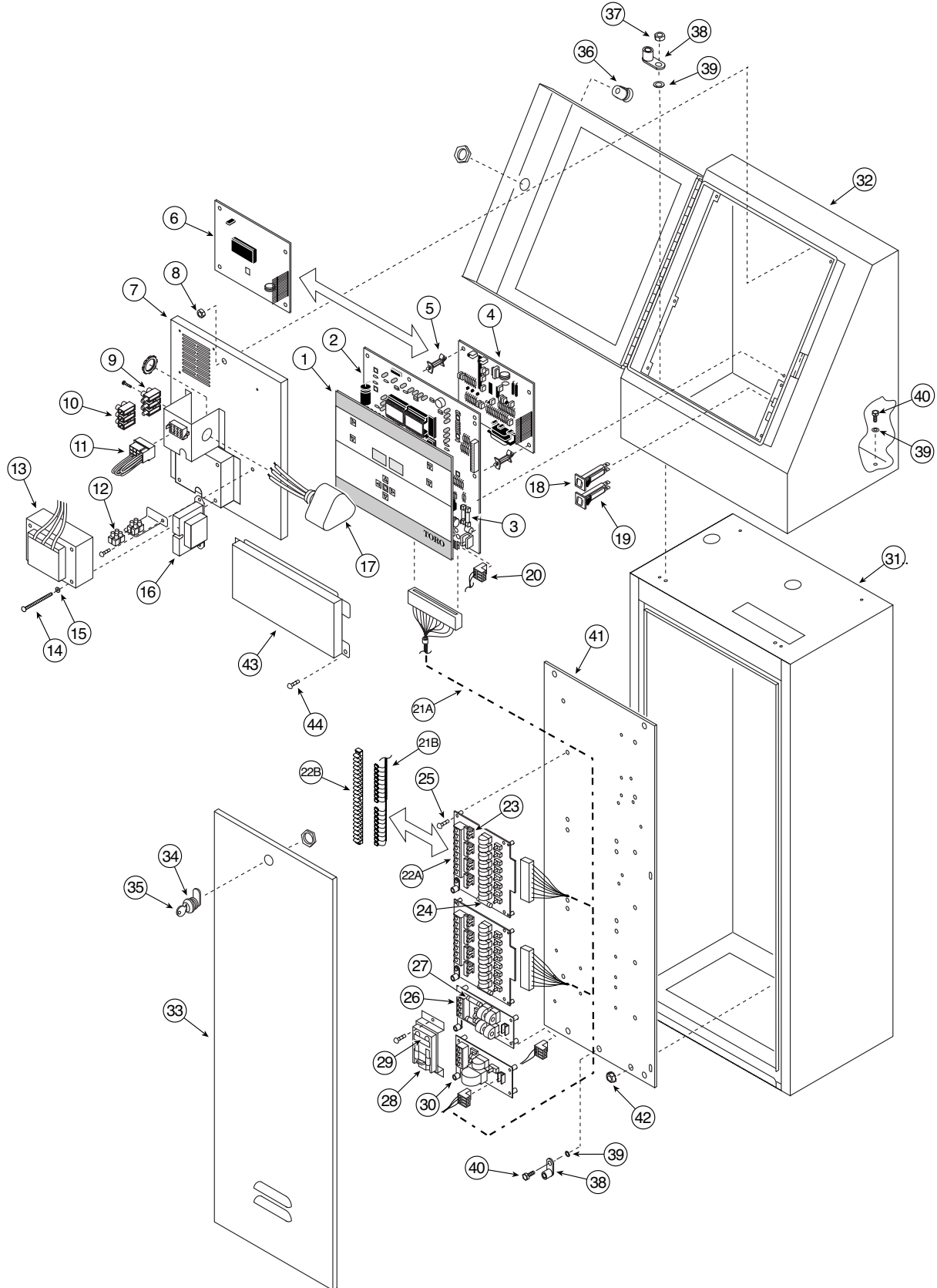
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Cabinet Assy., Pedestal, 13" x 13"	1
2	89-7842	Door Assy., (Includes Item 3)	2
2	89-7846	Door Assy., SST (Includes Item 3)	2
3	363-5369	Lock Assy., Door	2
4	91-0910	Decal, Caution, Removable Door	2
5	-----	Adapter, Pedestal, Lid	1
6	89-7793	Lid, (Antenna-Mount)	1
6	89-7881	Lid, SST (Antenna-Mount)	1
7	-----	Antenna, Dome, 400-470 MHz	1
8	-----	Screw, Machine, #10-32 x 5/8"	4
9	-----	Hex Nut, 10-32 w/Ext. Tooth Lock Washer	8
10	-----	Plate, Module, Mounting, 32	1
11	*MOD-S4	Module Assy., Output	4
12	89-7711	Module Assy., Pump	1
13	363-1553	Lug, Grounding	1
14	-----	Screw, Machine, 1/4-20 x 1/2"	1
15	-----	Washer, Lock, 1/4"	2
16	89-7394	Lock, Module	1
17	363-1752	Screw, Machine, #10-32	2
18	89-7786	PCB Assy., BUF, Back Plane	1
19	360-0498	Screw, Machine, #8-32	10
20	-----	Washer, Lock, #8	10
21	-----	Spacer, #8-32, M/F	2
22	-----	Heat Sink	1
23	-----	Hex Nut, #8-32	2
24	360-0285	Screw, Machine, #6-32	1
25	363-3236	Hex Nut, 5/16"	8
26	*900-41	Retainer Tube, 5/16" (Used as spacer)	8
27	89-7771	Cable Assy., Output	1
28	-----	Cable Assy.	1
29	89-8001	EMI Filter Assy. (Includes Cables)	1
30	89-7979	Transformer Assy., Isolation (Includes Cables)	1
31	*DR2-00-01	DR2 Scorpio, Frequency 1	1
31	*DR2-00-02	DR2 Scorpio, Frequency 2	1
31	*DR2-00-03	DR2 Scorpio, Frequency 3	1
31	*DR2-00-04	DR2 Scorpio, Frequency 4	1
31	*DR2-00-05	DR2 Scorpio, Frequency 5	1
31	*DR2-00-06	DR2 Scorpio, Frequency 6	1
31	*DR2-00-AA	DR2 Scorpio, Frequency, Special	1
32	89-7750	Plate, Power Supply, Mounting	1
33	89-7682	PCB Assy., LCM/Sensor Interface	1
34	363-2638	Fuse, 0.5 Amp	3
35	-----	Power Supply Assy. (See p. 246 for Parts List)	1
36	363-3216	Socket, Terminal Block	1
37	-----	Bracket, Shipping	1
38	-----	Screw, Tap, #6,	2
39	-----	Bracket, Terminal, Scorpio	1
40	89-7760	Box, Conduit, Mounting	
41	-----	Cable Assy., Power Supply	
		SERVICE ITEMS	
	360-0565	Keys, Two w/Ring (Golf #1382)	
	89-7775	Lid Assy., Ped., SST w/ Antenna (Includes items 6-8)	
	89-7880	Lid, Pedestal (Non-Antenna)	
	89-7882	Lid, Pedestal, SST (Non-Antenna)	
	89-7789	Back Plate Assy., DR2 (Includes items 10-24)	
		* Order Through Finished Goods Distribution System—Minneapolis	

Network LTC 1.0 Satellite – Wall Mount Cabinet



Item No.	Part No.	Description	Quantity Per Assy.
1	91-0547	Front Plate Assy.	1
2	91-0784	Overlay, LTC	1
3	91-0545	PCB Assy., LTC	1
4	363-1355	Screw, Tap, #6	5
5	363-2638	Fuse, 0.5 Amp	2
6	363-5271	Circuit Breaker, 0.75 Amp	1
7	363-5270	Circuit Breaker, 4.0 Amp	1
8	4-1063	Screw, Tap, #6	3
9	-----	Cover, Transformer	1
10	363-5219	Terminal Block, 8-Position	1
11	91-1005	Wire Assy., Green/Yellow	1
12	363-2033	Screw, Hi-Lo, #4-24	2
13	91-1030	Mount, Terminal Block	1
14	91-0919	Transformer Assy.	1
15	363-3103	Screw, Tap, #6-19	2
16	360-0471	Surge Protector (Pill)	2
17	91-0790	Terminal Plate, Contact	1
18	35-7524	Strap	1
19	363-2431	Screw w/Clamp, Hi-Lo, #6	2
20	363-2271	Clamp, Cable	1
21	363-5255	Screw, Machine, #6-32	1
22	363-1553	Lug, Grounding	1
23	360-0594	Nut, 1/4-20	1
24	-----	Cabinet Assy.	1
25	-----	Door Assy.	1
26	363-1414	Lock w/Dust Cover	1
27	9-4303	Cover, Lock	1
28	91-0782	Cover, Terminal	1
29	363-2351	Latch, Pawl	1
30	91-0777	PCB Assy., Modem	1
30	91-1046	PCB Assy., VT Adapter	1
31	363-2437	Standoff	4
		SERVICE ITEMS	
	91-0786	Switch Actuator	
	360-0565	Keys, 2 w/Ring (Golf #1382)	
	91-1331	Kit, Modem (Includes Items 30 & 31)	
	91-1200	Kit, VT Adapter (Includes Transformer and Installation Accessories)	
	91-1213	Kit, VT Adapter Transformer, Service	

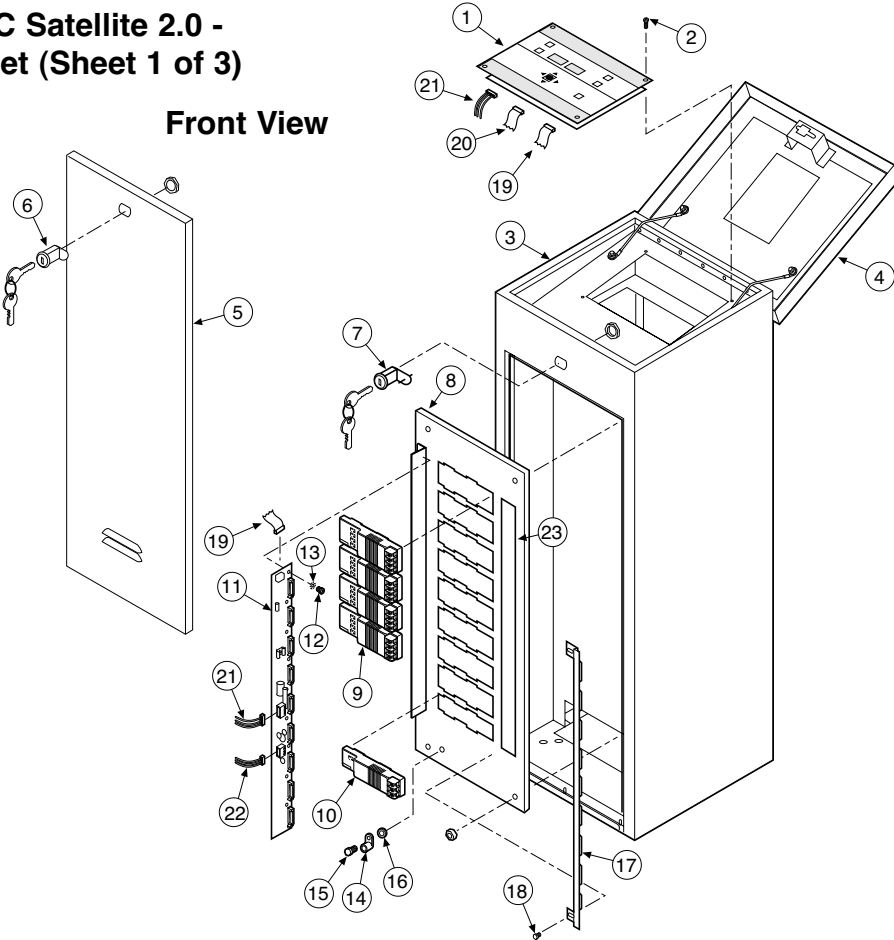
Network LTC 1.0 Satellite – Taper-top Cabinet



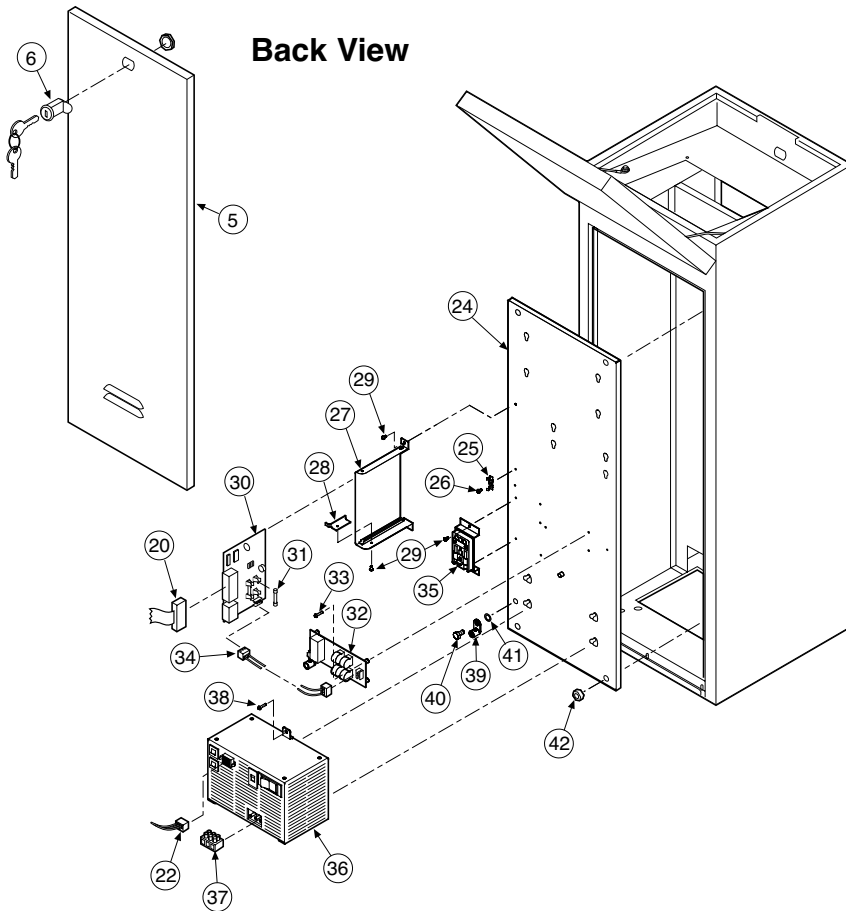
Item No.	Part No.	Description	Quantity Per Assy.
1	91-1591	Front Panel Assy., TM	1
2	91-2337	PCB Assy., TM	1
3	363-2638	Fuse, Fast Blow, 0.5 Amp	2
4	91-1331	PCB Assy., LTC Modem	1
5	363-2437	Standoff, Dual Locking	4
6	91-1046	PCB Assy, VT Adapter	1
7	-----	Backplate, Upper	1
8	363-1752	Nut, Hex, Locking	1
9	363-3215	Terminal Block, Plug, 3-Position	1
10	363-3216	Terminal Block, Socket, 3-Position	1
11	-----	Power Connector	4
12	363-3230	Terminal Block, Plug, 2-Position	1
13	91-1636	Transformer	1
14	363-3205	Screw, #8-32 x 1.5"	4
15	360-0600	Washer, Lock	4
16	363-1740	Transformer (VT)	1
17	363-3202	Surge Protector	1
18	363-5271	Circuit Breaker, 0.75 Amp	1
19	363-5270	Circuit Breaker, 4.0 Amp	1
20	363-2231	Connector, 3-Pin	1
21A	91-1641	Cable Assy., Surge	1
21B	91-1639	Cable Assy., Non-surge	1
22A	91-1957	PCB, Surge Protection, 8-Station	2
22B	363-3200	Terminal Block, 20-Position	1
23	360-0471	Surge Protector (Pill)	16
24	363-1222	Fuse, 3 Amp, Slow-blow	2
25	363-5362	Screw, Tap	16
26	91-1307	PCB Assy., Surge Protection, Communication	1
27	363-2638	Fuse, Fast Blow, 0.5 Amp	2
28	35-8833	Bracket Assy., Communication	1
29	360-0471	Surge Protector (Pill)	2
30	91-1305	PCB Assy., Surge Protection, Pump/Com	1
31	91-1587	Cabinet, 30", Galvanized (Includes Items 33–35)	1
31	-----	Cabinet, 30", SST (See Service Item 89-7486)	1
32	91-1586	Cabinet, Taper Top, Galvanized (Includes Items 35 & 36)	1
32	-----	Cabinet, Taper Top, SST(See Service Item 89-7486)	1
33	-----	Door, Cabinet, 30", Galvanized (See Service Item 89-7485)	1
33	-----	Door, Cabinet, 30", SST (See Service Item 89-7486)	1
34	360-0583	Lock Assy. w/Keys, Door (Includes Item 35)	1
35	360-0565	Keys, Two w/Ring (Golf #1382)	1
36	-----	Lock Assy, w/Keys, Cabinet, Taper Top (Includes Item 35)	1
37	360-0594	Nut, 1/4-20	1
38	363-1553	Lug, Grounding	2
39	363-1623	Washer, Lock	6
40	360-0595	Screw, 1/4-20 x 1/2"	4
41	91-1441	Mounting Plate, Rear	1
42	363-3236	Nut, Hex, 5/16"	4
43	-----	Cover, Access	1
44	1-3076	Screw, Machine	2
		SERVICE ITEMS	
	91-1593	Timing Mechanism Assy. (Includes Items 1–3)	
	89-7485	Cabinet Assy., Galvanized (Includes Items 31–40)	
	89-7486	Cabinet Assy., SST (Includes Items 31–40)	

**Network LTC Satellite 2.0 -
Metal Cabinet (Sheet 1 of 3)**

Front View



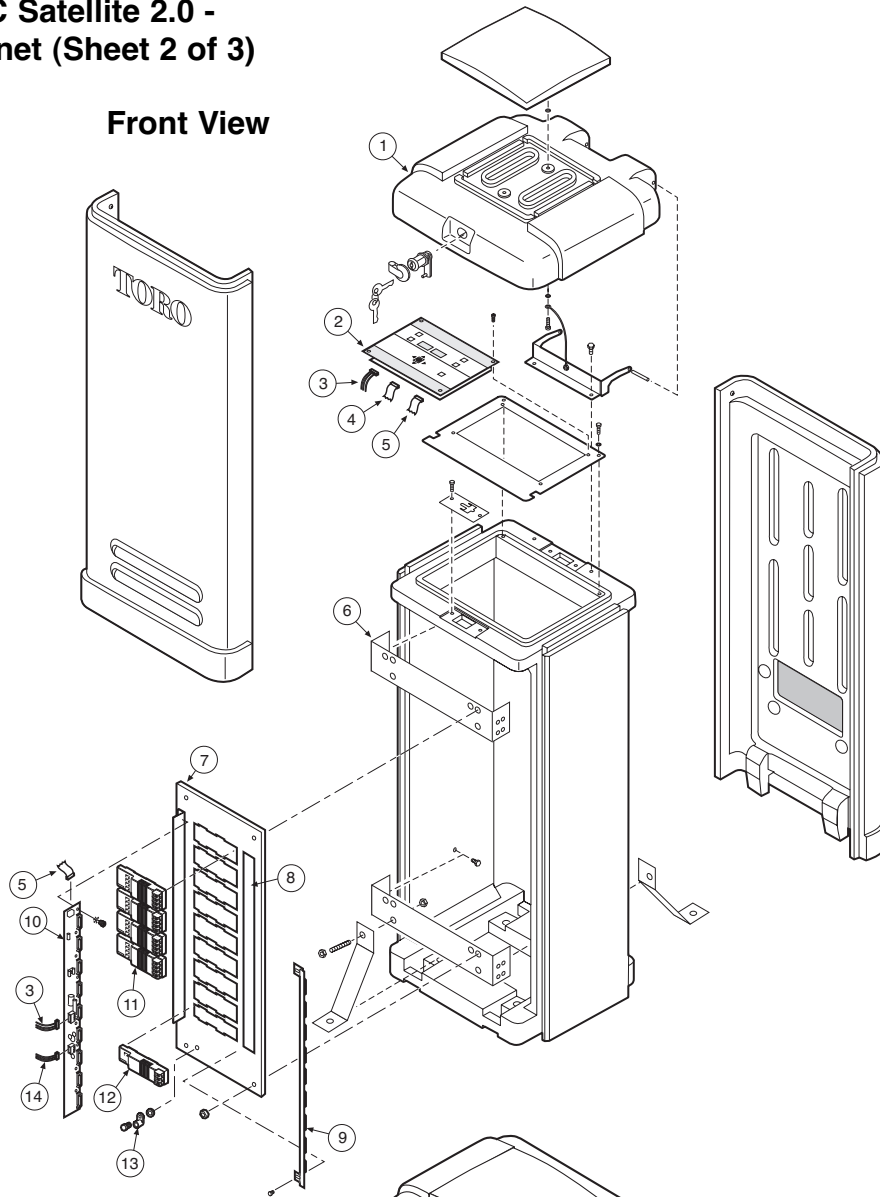
Back View



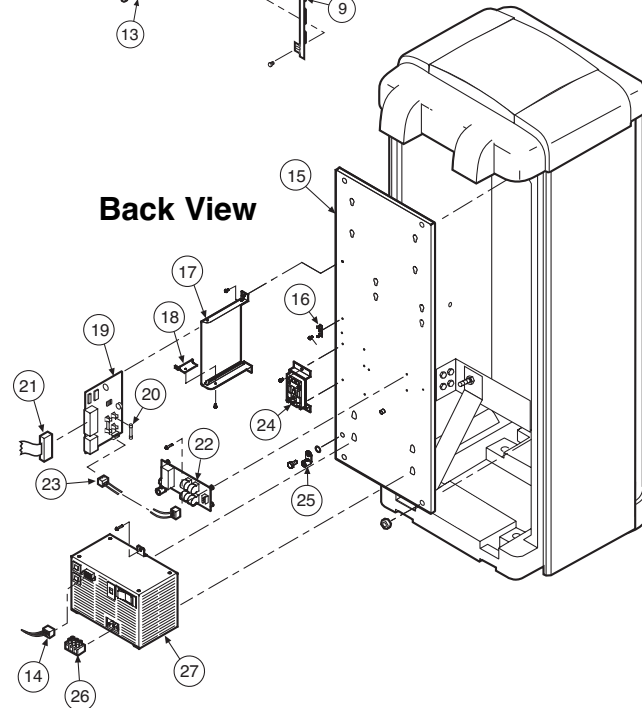
Item No.	Part No.	Description	Quantity Per Assy.
1	89-7708	Timing Mechanism Assy., LTC 2.0	1
2	360-0285	Screw, Machine, #6-32	4
3	-----	Pedestal, 13" x 13" (See Service Item 89-7983)	1
4	-----	Lid Assy., Pedestal (See Service Item 89-7983)	1
5	-----	Door Assy., Pedestal (See Service Item 89-7983)	2
6	363-5369	Lock Assy., Door	2
7	9-1695	Lock Assy., Lid	1
8	89-6730	Back Plate, Module	1
9	*MOD-S4	Module Assy., Output	4
10	89-7711	Module Assy., Pump	1
11	89-7710	Back Plane, PCB Assy.	1
12	360-0498	Screw, Machine, #8-32	10
13	-----	Washer, Lock, #8	10
14	363-1553	Lug, Grounding	1
15	-----	Screw, Machine, 1/4-20 x 1/2"	1
16	-----	Washer, Lock, Internal Tooth, 1/4"	1
17	89-7394	Lock, Module	1
18	-----	Screw, Machine, #10-32	2
19	8------	Cable Assy., Output Module	1
20	35-6328	Cable Assy., Modem	1
21	89-7707	Cable Assy. (Power To TM)	1
22	89-7335	Cable Assy., Power Supply	1
23	35-6394	Label, Station	1
24	-----	Back Plate, Power Supply	1
25	35-7288	Clip, Grounding	1
26	1-3082	Screw, Machine, #4-40	1
27	35-8570	Bracket, Modem	1
28	35-8704	Retainer, Bracket	1
29	363-5072	Screw, Tap, #6	5
30	89-7852	Modem Assy., Standard (Includes Item 31)	1
30	89-7680	Modem Assy., LTC/VT Adapter, 2.0	1
31	102-3819	Fuse, 0.75 Amp (10-Pack)	2
32	91-1307	Surge Protection PCB, Communication	1
33	363-5362	Screw, Tap, #6	4
34	91-1405	Cable Assy., Communication	1
35	35-8833	Bracket Assy., Communication Cable	1
36	-----	Power Supply (See p. 246 for Parts List)	1
37	363-3216	Socket, Terminal Block	1
38	-----	Screw, Tap, #10-32 x 3/8"	1
39	363-1553	Lug, Grounding	1
40	-----	Screw, Machine, 1/4-20 x 1/2"	1
41	-----	Washer, Lock, Internal Tooth, 1/4"	1
42	-----	Nut, 5/16-20	8
		SERVICE ITEMS	
	360-0565	Keys, Two w/Ring (Golf #1382)	
	89-7701	Modem Assy., Universal, Service	
	89-7709	Back Plate Assy. w/ Output Modules (Includes items 8–18)	
	89-7705	Back Plate Assy. w/Power Supply (Includes items 24–42)	
	89-7983	Pedestal Assy. 13" x 13" SST (Includes items 3–8)	
	363-2200	Battery, 3.9 Volt, Lithium	
	89-7172	EPROM Rev. 2.5	
	*89-8118	2.5 Upgrade Kit (Includes 2.5 EPROM, Installation Instructions & Faceplate Decal)	
		* Order Through Finished Goods Distribution System—Minneapolis	

**Network LTC Satellite 2.0 -
Plastic Cabinet (Sheet 2 of 3)**

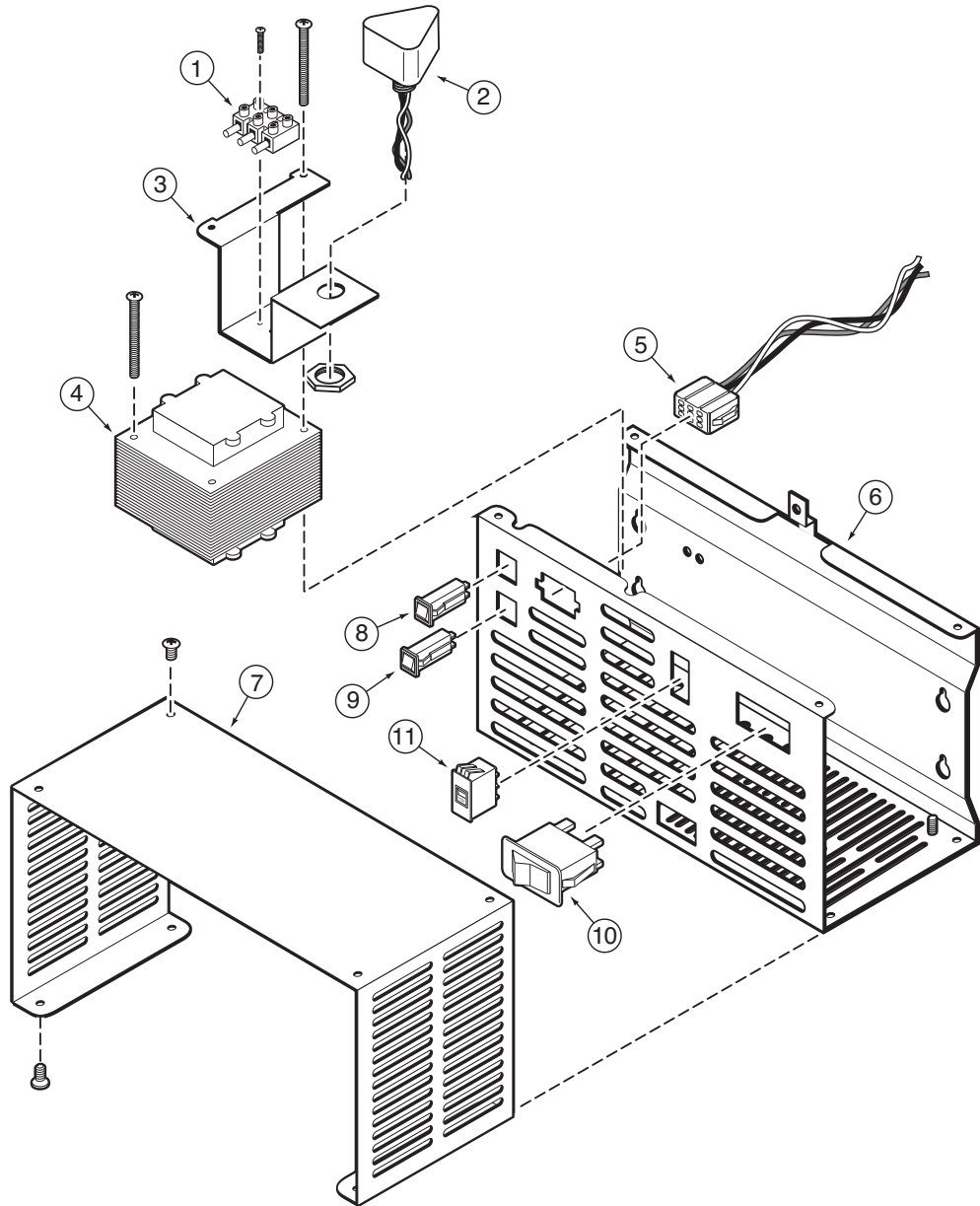
Front View



Back View

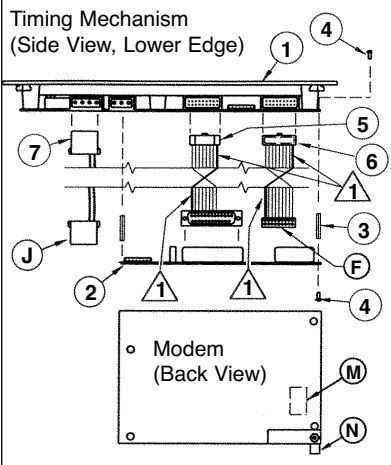


Network LTC Satellite 2.0 & Network DR2 Power Supply Assembly (Sheet 3 of 3)

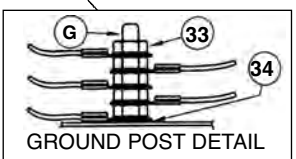
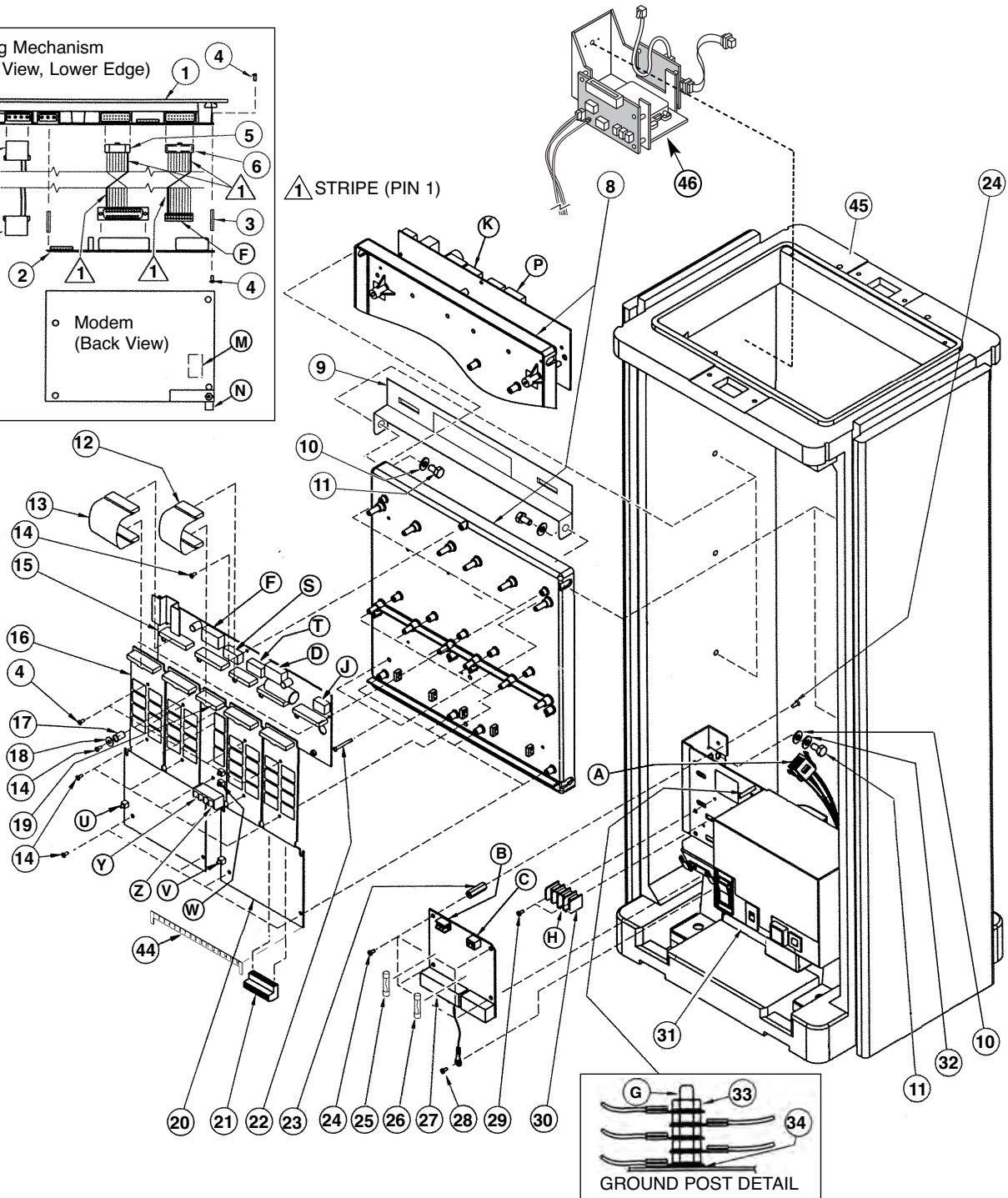


Item No.	Part No.	Description	Quantity Per Assy.
1	363-3215	Terminal Block, Plug, 3-Position	1
2	363-3435	Surge Protector	1
3	-----	Bracket, Surge	1
4	89-7334	Transformer Assy., LTC 2.0	1
4	89-7767	Transformer Assy., DR2	1
5	-----	Socket, 9-Pin	1
6	-----	Case, Power Supply	1
7	-----	Cover, Power Supply	1
8	363-3467	Circuit Breaker, 2.0 Amp	1
9	363-5270	Circuit Breaker, 4.0 Amp	1
10	363-3361	Switch, Power	1
11	102-0648	Switch, 115/230 V a.c. Selection (LTC Only)	1
		SERVICE ITEMS	
	89-7702	Power Supply Assy., Svc., LTC 2.0 (Includes Items 1–11)	
	89-7766	Power Supply Assy., Svc., Network DR2 (Early Production) (Includes Items 1–10)	

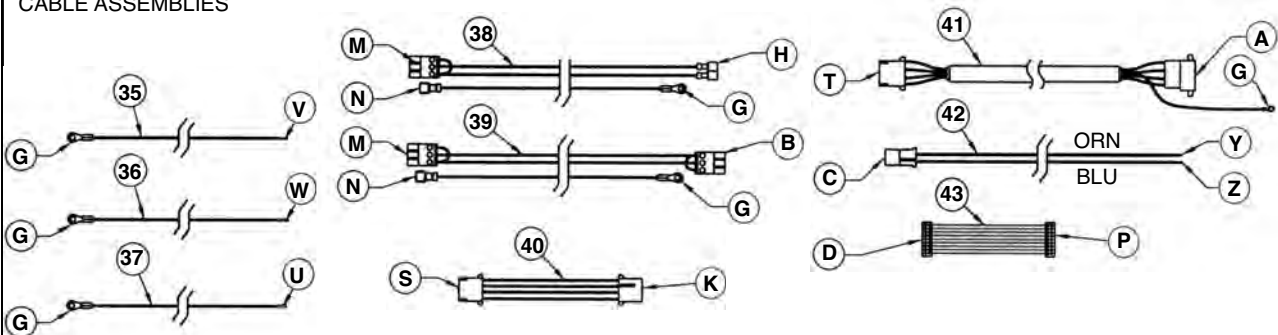
Network LTC Plus Satellite



▲ STRIPE (PIN 1)

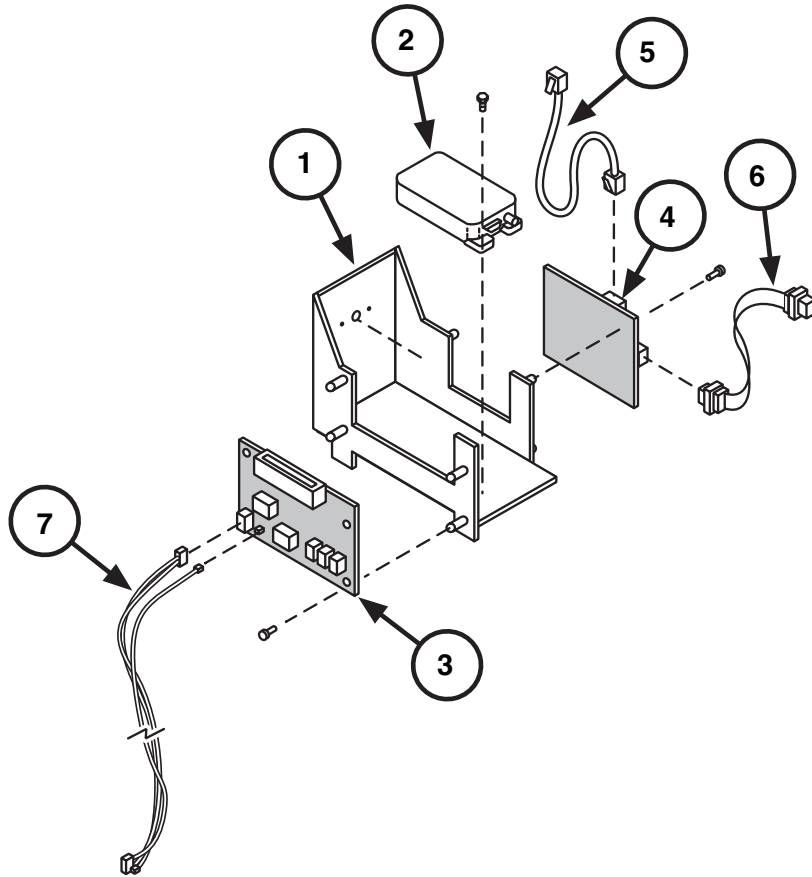


CABLE ASSEMBLIES



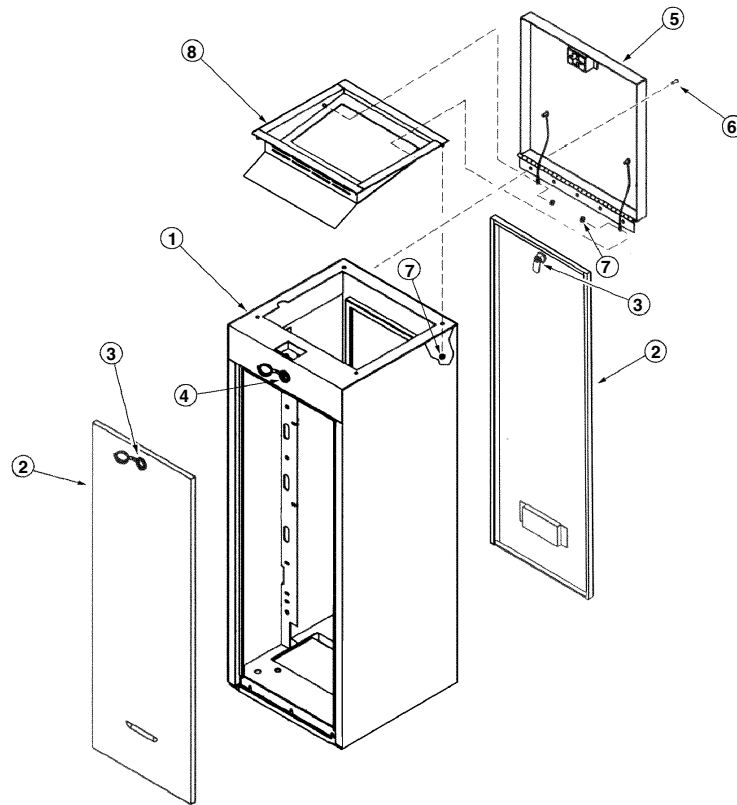
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Timing Mechanism Assy. (See Service Item 102-0794)	1
2	-----	Modem, Standard (See Service Item 89-9026)	1
3	-----	Standoff, Hex 1/4" x 1.5"	4
4	1-3078	Screw, Machine, #6-32 x 1/4"	4
5	89-9043	Cable Assy., Ribbon, Timing Mechanism to Modem	1
6	89-9042	Cable Assy., Ribbon, Timing Mechanism to Distribution Board	1
7	89-9041	Cable Assy., 2-Wire, Timing Mechanism Power	1
8	89-9027	Frame, Black Plastic Assy. (Includes Item 22)	2
9	-----	Bracket, Reinforce (Plastic Cabinet Models Only)	1
10	360-0140	Flat Washer, 1/4", SST	4
11	360-0595	Screw, Machine, 1/4-20 x 1/2", SST	8
12	102-0803	Cable Assy., Ribbon, 12-Pin (Pump/Common to Distribution)	1
13	102-0802	Cable Assy., Ribbon, 16-Pin (8-Station Output to Distribution)	4
14	363-1355	Screw, Tap, #6	**
15	-----	Parallel Distribution Board (See Service Item 102-0793)	1
16	-----	Output Module, 8-Station (See Service Item 102-0796)	**
17	-----	Retainer	2
18	363-5083	Washer, Brass	2
19	-----	Pump/Common Module (See Service Item 102-0795)	1
20	-----	16-Station Output Board (See Service Items 89-9033 – 89-9036)	**
21	89-9032	Connector, Terminal Block, 8-Station	**
22	363-3587	Screw, Tap, #8 x 1.5"	2
23	363-3603	Standoff, Hex, 5/16" x 1"	4
24	360-0285	Screw, Machine, #6-32 x 3/8"	8
25	-----	Fuse, 0.5 Amp, 250V (See Service Item 363-2638)	4
26	-----	Fuse, 7.5 Amp, 250V (See Service Item 363-2635)	4
27	-----	Pump/Common/Communication Surge Board (See Service Item 89-9039)	1
28	360-0136	Screw, Tap, #8 x 3/8"	1
29	4-1063	Screw, Tap, #6 x 3/8"	2
30	363-3574	Terminal Block, 2-Position	1
31	-----	Power Supply Assy. (See p. 252–253 for Parts List)	1
32	363-1623	Washer, Star	4
33	-----	Hex Nut, #8-32 w/External Tooth Lock Washer	5
34	360-0600	Lock Washer, #8, External Tooth	1
35	-----	Wire Assy., Ground, 14 AWG x 8" (See Service Item 89-9049)	**
36	-----	Wire Assy., Ground, 14 AWG x 10.5" (See Service Item 89-9049)	1
37	-----	Wire Assy., Ground, 14 AWG x 13" (See Service Item 89-9049)	1
38	-----	Cable Assy., Modem to Terminal Block (See Service Item 89-9044)	1
39	-----	Cable Assy., Modem to Surge Board (See Service Item 89-9044)	1
40	89-9045	Cable Assy., 4-Wire Jumper	1
41	89-9046	Cable Assy., 4-Wire, Shielded	1
42	89-9047	Cable Assy., 2-Wire, Pump/Com Board to Surge Board	1
43	89-9048	Cable Assy., Ribbon, Jumper	1
44	102-5940SK	Kit, Station Labels, Numbered, Plastic	**
45	-----	Satellite Plastic Pedestal (See p. 276-277 for Parts List)	1
46	-----	Radio Assembly (See Network LTC Plus Radio Assembly Section for Details)	1
		SERVICE ITEMS	
	102-0793	Parallel Distribution Board (Includes Item 14)	
	102-0794	Timing Mechanism, Svc. (Includes Items 1, 3, 4 & 6)	
	*102-0795	Pump/Com Module Svc. (Includes Items 12, 14, 17 18 & 19)	
	*102-0796	Output Module, 8-Station Svc. (Includes Items 4, 13 & 14)	
	89-9026	Standard Modem, Svc. (Includes Items 2–5)	
	89-9027	Frame, Black Plastic Assy. Svc. (Includes Item 22)	
	*89-9033	16-Station Output Board w/o Surge Pills or Switches (Includes Item 14)	
	*89-9034	16-Station Output Board w/Switches (Includes Item 14)	
	*89-9035	16-Station Output Board w/Surge Pills (Includes Item 14)	
	*89-9036	16-Station Output Board w/Surge Pills or Switches (Includes Item 14)	
	*89-9039	Pump/Common/Communication Surge Board (Includes Items 23 24 & 27)	
	89-9044	Cable Assy. Svc., Surge to Modem & Surge to Terminal Block (Incl. Items 37 & 38)	
	89-9049	Ground Wire Assy., Svc. (Includes Items 35, 36 & 37)	
	363-2638	Fuse, 0.5A, 250V	
	363-2635	Fuse, 7.5A, 250V	
	102-9124SK	LTC+ tp VP Conversion Kit	
		* Order Through Finished Goods Distribution System–Minneapolis	
		** Quantity Varies With Model	

Network LTC Plus Radio Assembly



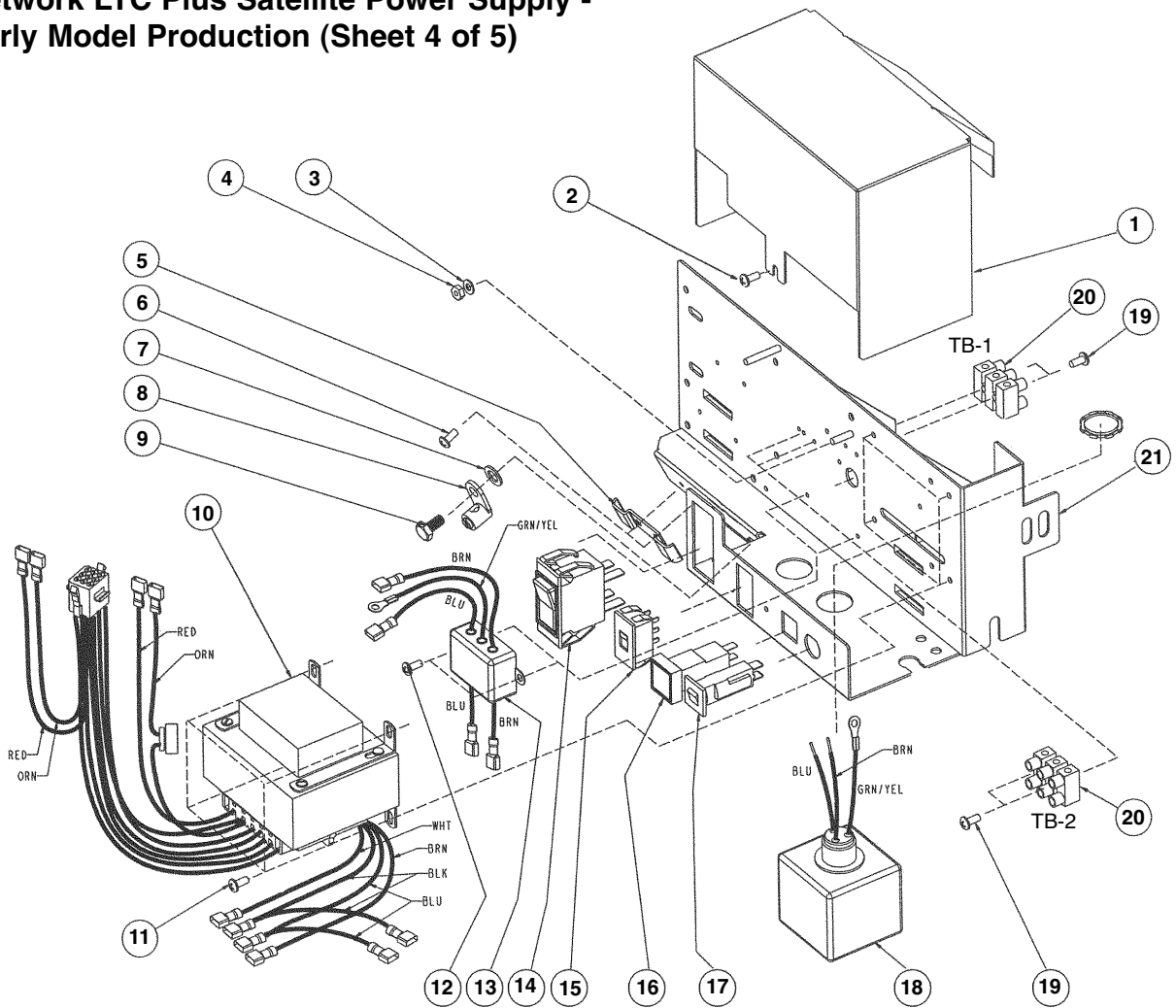
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Bracket, Radio Assy. (UHF Models Only)	1
2	363-4638SK	Maxon Radio (UHF Models Only) (See Service Item 363-4638)	1
3	89-7701	*Universal Modem (UHF Models Only)	1
4	102-3125SK	*Radio Interface Board (UHF Models Only)	1
5	363-3619SK	*RJ-45 Cable Assy. (UHF Models Only)	1
6	102-3257SK	*DB-9 Cable Assy. (UHF Models Only)	1
7	-----	Cable Assy., Modem to Surge Board (UHF Models Only)	1

**Network LTC Plus Satellite -
Metal Cabinet (Sheet 3 of 5)**



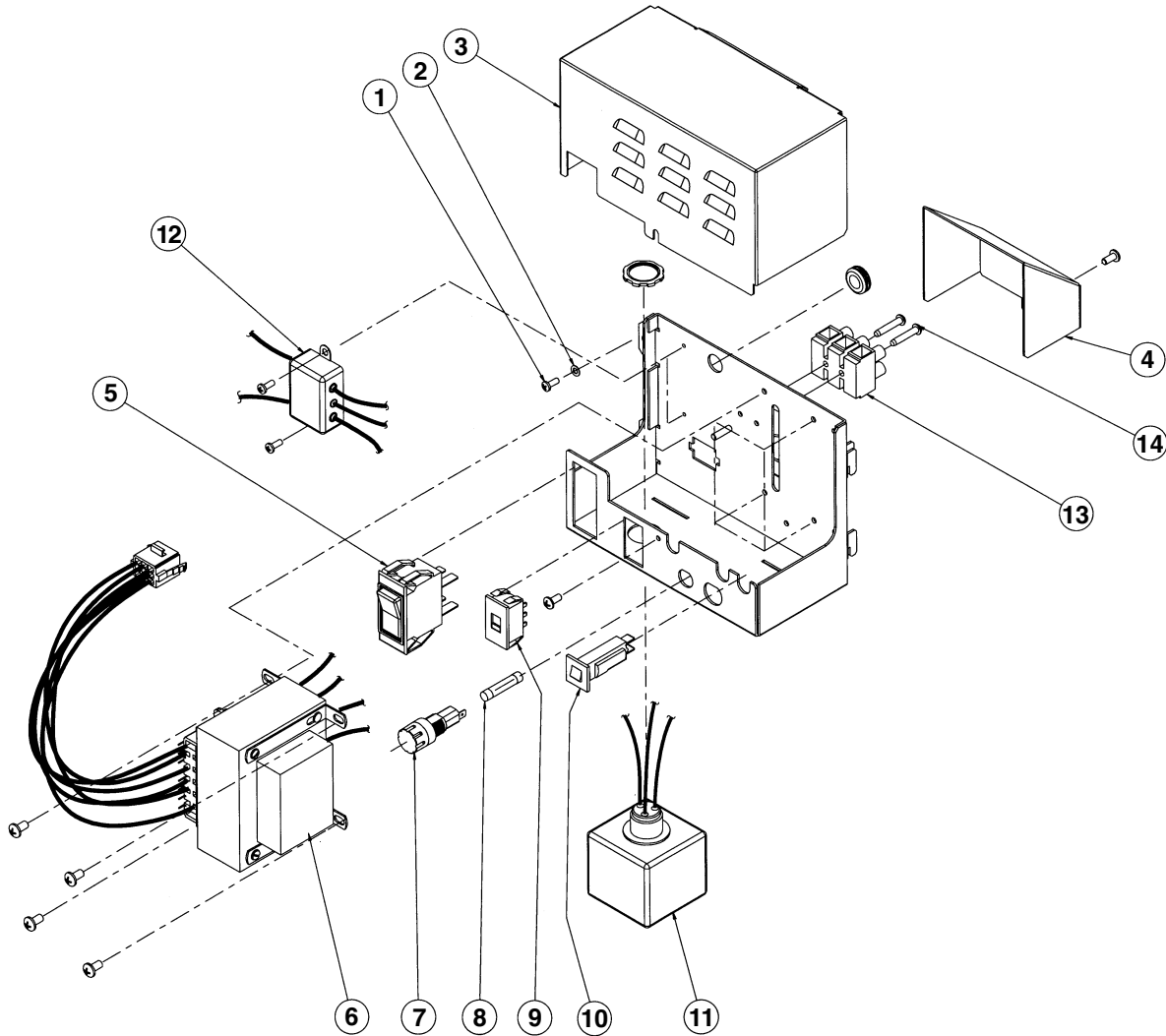
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Base, Pedestal, Green, SST (See Service Item 102-0702)	1
2	-----	Door, Pedestal, Green, SST (See Service Item 102-0704)	2
3	-----	Lock, Door (See Service Item 102-0714)	2
4	-----	Lock, Cover (See Service Item 102-0705)	2
5	102-0703	Cover, Pedestal Green, SST	1
6	363-3438	Screw, #10-32 x 3/4", SST	5
7	363-1752	Hex Nut, #10-32, SST	4
8	102-0684	Mount, Timing Mechanism, SST	1
		SERVICE ITEMS	
	360-0565	Keys, Two w/Ring (Golf #1382)	
	102-0702	Base, Pedestal Green, SST w/Lock Assy, Svc. (Incl. Items 1 & 4, Cover & Keys)	
	89-8294	Pedestal Assy., Green, SST, Service (Includes Items 1-7)	
	102-0714	Lock Kit, Door, Service (Includes Item 3, Lock Cover & Keys)	
	102-0705	Lock Kit, Cover, Service (Includes Item 4 Lock Cover & Keys)	
	102-0704	Door, Pedestal, Green, SST, Service (Includes Item 2, 3, Lock Cover & Keys)	

Network LTC Plus Satellite Power Supply - Early Model Production (Sheet 4 of 5)



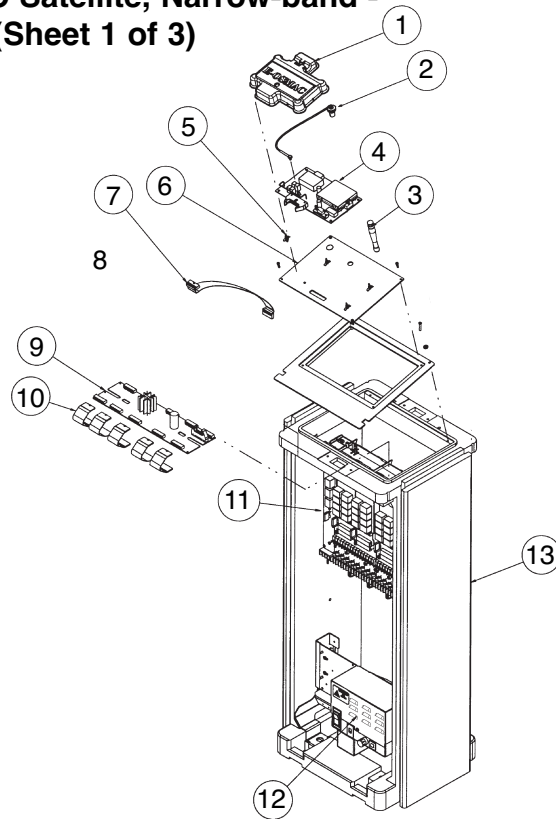
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Cover (See Service Item 102-0800)	1
2	360-0136	Screw, Tap, #8 x 3/8"	1
3	360-0600	Washer, Lock	1
4	-----	Nut, Hex, #8-32	1
5	-----	Clamp, Com Cable	1
6	1-6051	Screw, Tap, #8	1
7	363-1623	Washer, Lock, 1/4"	1
8	363-1553	Lug, Grounding	1
9	360-0595	Screw, Machine, 1/4-20 x 1/2"	1
10	-----	Transformer Assy. (See Service Item 102-0791)	1
11	-----	Screw, Tap, #10 x 3/8"	4
12	4-1063	Screw, Tap, #6 x 3/8"	2
13	102-0700	Filter Assy., RFI	1
14	102-0666	Switch, Circuit Breaker, 1.5A	1
15	102-0648	Selector Switch, 115/230V	1
16	102-0788	3.2A Fuse Holder Assy.	1
17	102-0651	Circuit Breaker, 4.0A	1
18	102-0668	Surge Protection Assy. w/Nut	1
19	360-0297	Screw, Tap, #6	4
20	-----	Terminal Block, 3-position (See Service Item 102-0792)	2
21	-----	Plate, Transformer Mounting (See Service Item 102-0801)	1
		SERVICE ITEMS	
	102-0791	Transformer w/Wire Harness Assy., Svc.	
	102-0792	Terminal Block, Svc. (Includes Item 19)	
	102-0800	Cover, Power Supply, Svc. (Includes Item 2)	
	102-0801	Power Supply Mount, Svc.	
	102-0650	Fuse, 3.2A, Slow-blow (10-pack)	10

Power Supply Assembly, Network LTC Plus Satellite (Late Model Production) and E-Series OSMAC (Sheet 5 of 5)



Item No.	Part No.	Description	Quantity Per Assy.
1	4-1063	Screw, Tap, #6 x 3/8"	2
2	-----	Washer, Lock, #6	2
3	102-0646	Cover, Power Supply	1
4	102-0695	Cover, Wire Terminal	1
5	102-0666	Switch/Circuit Breaker, 1.5 Amp	1
6	-----	Transformer Assy. w/Wire Harness (See Service Item 102-0647)	1
7	102-0649	Fuse Holder Assy.	1
8	-----	Fuse, 3.2 Amp, Slow-Blow, Service (See Service Item 102-0650)	1
9	102-0648	Selector Switch, 115/230 V a.c.	1
10	102-0651	Circuit Breaker, 4.0 Amp	1
11	102-0668	Surge Protection Assy. w/Nut	1
12	102-0700	Filter Assy., EMI	1
13	102-0667	Terminal Block, 115/230V (Includes Item 14)	1
14	360-0297	Screw, Tap, #6	2
		SERVICE ITEMS	
	102-0650	Fuse, 3.2 Amp, Slow-blow (10-pack)	
	102-0647	Transformer Assy., Svc.	

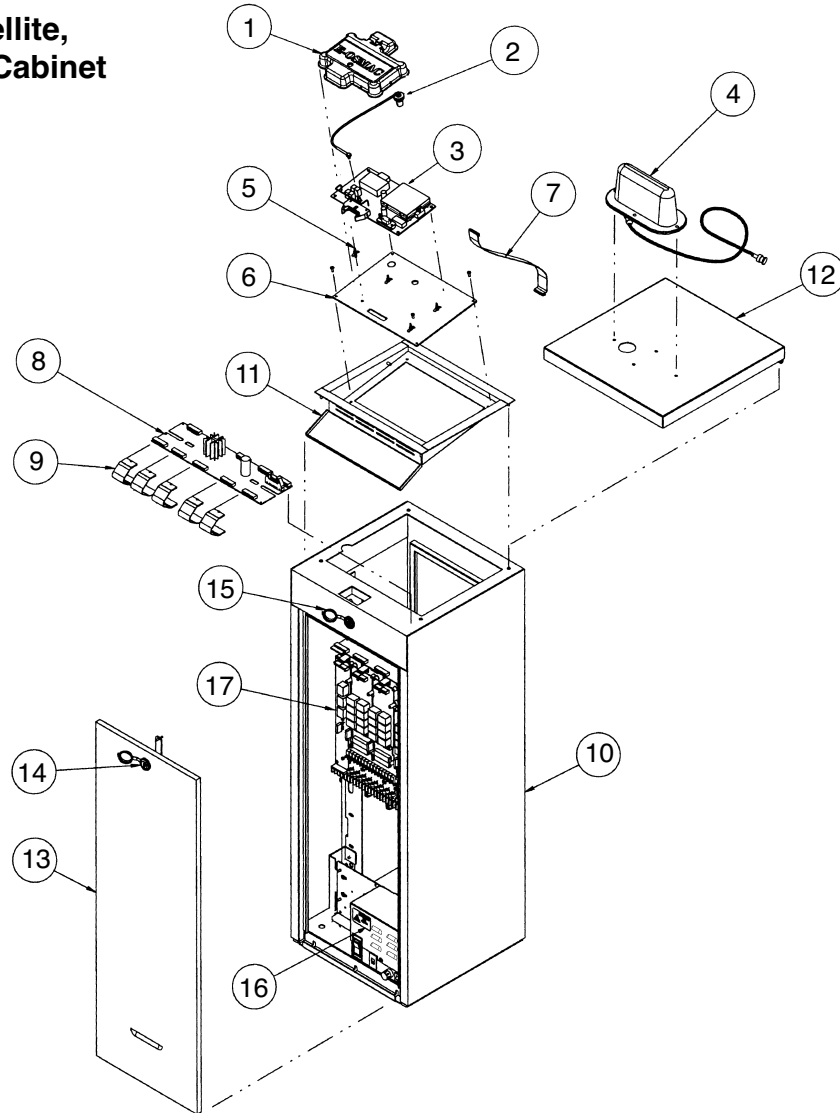
E-Series OSMAC Satellite, Narrow-band - Plastic Cabinet (Sheet 1 of 3)



Item No.	Part No.	Description	Quantity Per Assy.
1	102-2624	Cover, Decoder PCB,	1
2	102-1204	Cable, Antenna, External, Narrow-band Decoder	1
3	*102-0655	Antenna, 450–475 MHz, w/BNC Connector (optional)	–
4	*102-1202	Narrow-band Decoder Module for Plastic Cabinet	1
5	363-3946	Standoff, Plastic, Locking	4
6	102-0661	Faceplate, Decoder Mounting	1
7	*102-0659	Ribbon Cable (Output Distribution Module to Decoder Module)	1
8	102-0664	Mounting Plate, TM	1
9	*102-0672	Output Distribution Module Assy.	1
10	*102-0670	Ribbon Cable (Output Distribution Module to Output Modules) **(Qty Varies w/Model)	**
11	-----	Field Interface Components (See p. 256 for Parts Listing)	–
12	102-0408	See Power Supply Assembly, Network LTC Plus Sat and E-Series OSMAC section.	1
13	-----	See Plastic Satellite Pedestal Section for details.	1

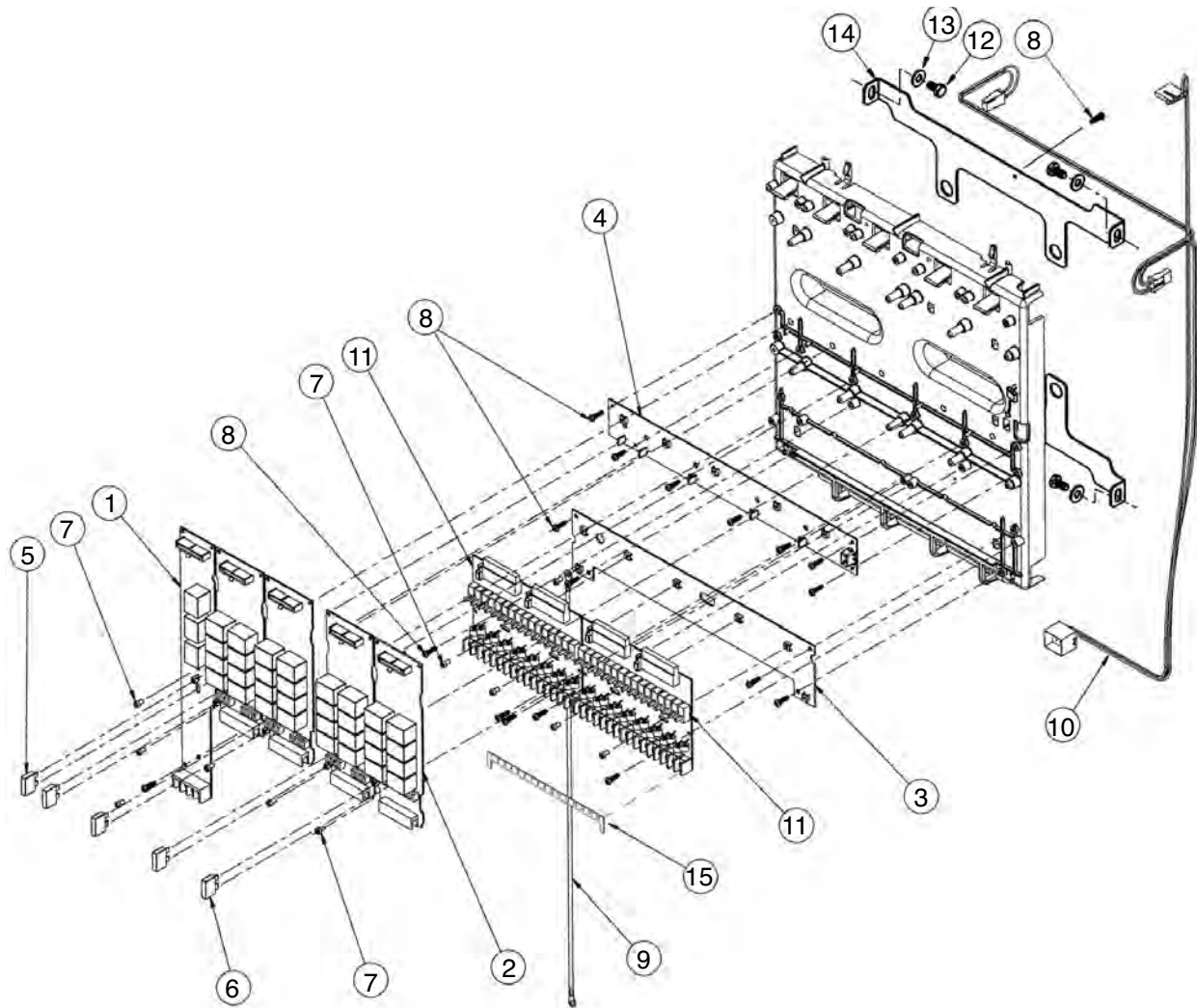
* Order Through Finished Goods Distribution System—Minneapolis

**E-Series OSMAC Satellite,
Narrow-band - Metal Cabinet
(Sheet 2 of 3)**



Item No.	Part No.	Description	Quantity Per Assy.
1	102-0662	Cover, Decoder Module Assy.	1
2	102-1204	Cable, Antenna, External, Narrow-band Decoder	1
3	*102-1203	Narrow-band Decoder Module for Metal Cabinet	1
4	102-0663	UHF Dome Style Antenna Assy., 450-475 MHz w/Cable	1
5	363-3946	Standoffs, Plastic, Locking	4
6	102-0661	Faceplate, Decoder Mounting	1
7	102-0659	Ribbon Cable (Decoder Module to Distribution Module)	1
8	*102-0672	Distribution Board, Output, Parallel	1
9	102-0670	Ribbon Cable (Distribution Board to Output Module) ** (Quantity Varies With Model)	**
10	-----	Base, Pedestal, SST w/Lock Assy. (See Service Item 102-0702)	1
11	-----	Mounting Plate, TM (See Service Item 102-0684)	1
12	-----	Lid Assy., Pedestal, SST (See Service Item 102-0703)	1
13	-----	Door, Pedestal, SST, w/Lock Assy., (See Service Item 102-0704)	2
14	-----	Lock Assy., Door, (See Service Item 102-0714)	2
15	-----	Lock Assy., Pedestal Base (See Service Item 102-0705)	1
16	102-0645	Power Supply Assy. (See p. 253 for Parts Listing)	1
17	-----	Field Interface Components (See p. 256 for Parts Listing)	-
		SERVICE ITEMS	
	102-0684	Mounting Plate, TM, Service (Includes Item 11)	1
	102-0714	Lock Assy., Door, w/Keys & Cover, Service (Includes Item 14)	
	102-0705	Lock Assy., Pedestal Base, w/Keys & Cover, Service (Includes item 15)	
	102-0702	Base, Pedestal, SST w/Lock Assy., Service (Includes Items 10 & 15)	
	102-0696	Pedestal Assy., Service (Includes Items 10-15)	
	102-0703	Lid Assy., Pedestal, SST, Service (Includes Item 12)	
	102-0704	Door, Pedestal, SST, w/Lock Assy., Service, (Includes Item 14)	
	102-2605	Antenna Kit, Narrow Band	
		* Order Through Finished Goods Distribution System—Minneapolis	

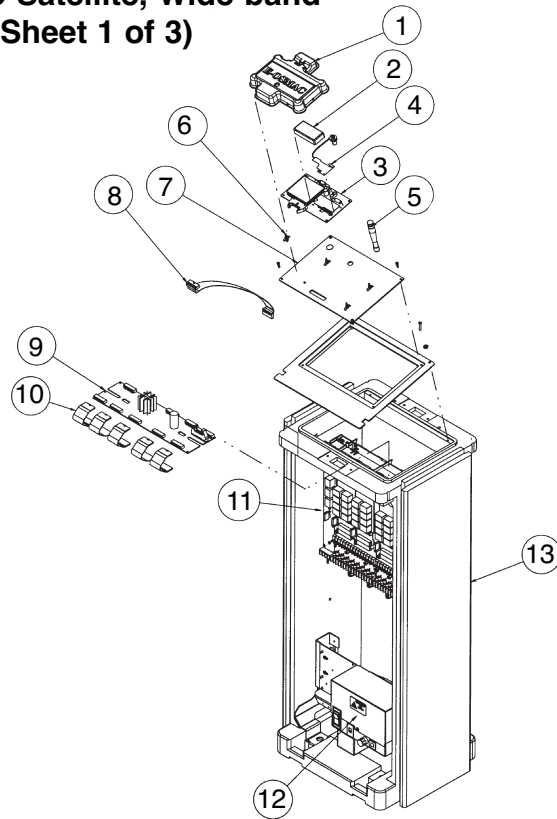
E-Series OSMAC Satellite, Narrow-band, Field Interface Components (Sheet 3 of 3)



Item No.	Part No.	Description	Quantity Per Assy.
1	*102-0669	Pump/Common Module Assy. (Includes Items 5, 7 & 102-0670 Ribbon Cable)	1
2	*102-0654	Output Module Assy., 8-Station (Includes Items 6, 7 & 102-0670 Ribbon Cable)	**
3	102-0652	Ground Bus Bar PCB Assy., Service (Includes Item 8)	1
4	102-0653	24 V a.c. Bus Bar PCB Assy., Service (Includes Item 8)	1
5	102-0658	Fuse, 1.0 Amp, Fast-blow, Service (5-pack)	1
6	102-0657	Fuse, 3.0 Amp, Fast-blow, Service (5-pack)	4
7	102-0671	Screw, Machine, 6-32 x 1/4"	11
8	363-1355	Screw, #6, Self-Taping	20
9	102-0685	Wire Harness Assy., Grounding	1
10	102-0686	Wire Harness Assy., Power Supply	1
N/I	*102-0638	8-Station Terminal Block (M0 Surge Level)	**
11	*102-0639	16-Station Module Assy. (M1 Surge Upgrade) (Includes Items 7 & 8)	**
11	*102-0640	16-Station Module Assy. (M2 Surge Upgrade) (Includes Items 7 & 8)	**
11	*102-0641	16-Station Module Assy. (M3 Surge Upgrade) (Includes Items 7 & 8)	**
11	*102-0642	16-Station Module Assy. (M4 Surge Upgrade) (Includes Items 7 & 8)	**
12	360-0595	Screw, Machine, 1/4-20 x 1/2"	4
13	360-0140	Washer, Flat, 1/4"	4
14	-----	Bracket, Mount Backplate	2
15	102-5940SK	Kit, Station Labels, Numbered, Plastic	**

* Order Through Finished Goods Distribution System—Minneapolis
 ** Quantity Varies With Model

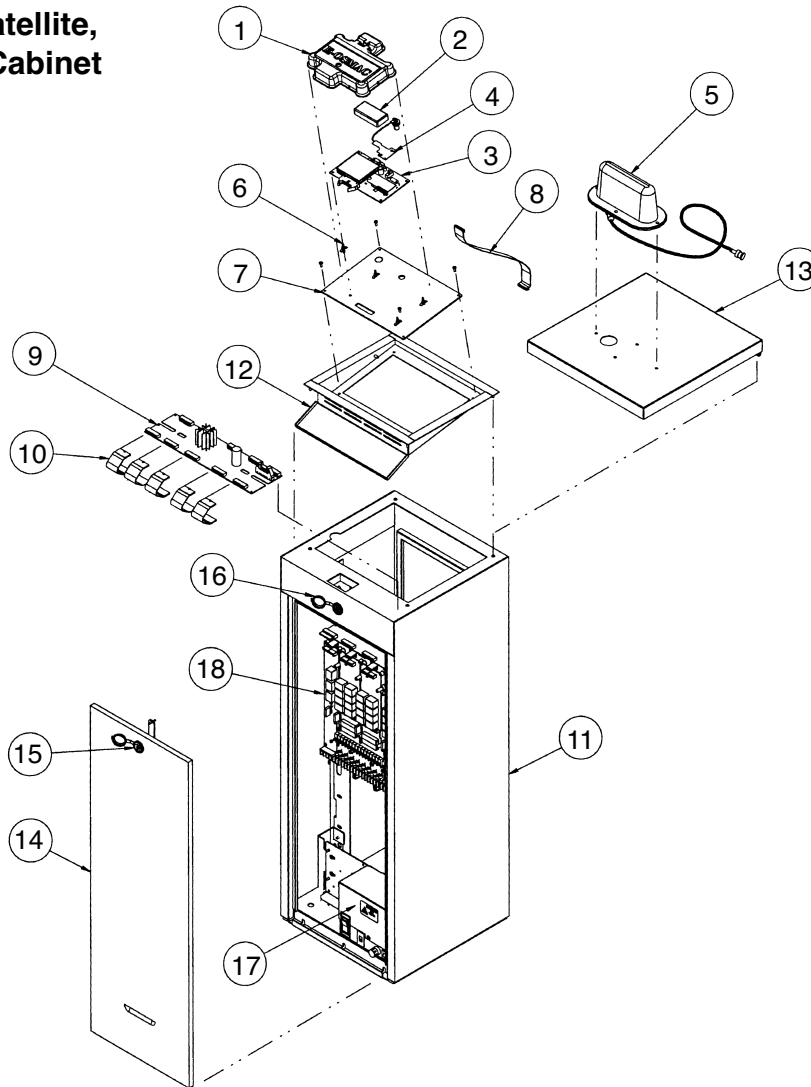
**E-Series OSMAC Satellite, Wide-band -
Plastic Cabinet (Sheet 1 of 3)**



Item No.	Part No.	Description	Quantity Per Assy.
1	102-2624	Cover, Decoder PCB,	1
2	*N1551	Receiver Module	1
3	*102-0660	Decoder Frequency Module Assy. (Includes Item 6)	1
4	*102-0656	Antenna PCB Assy. (Optional)	-
5	*102-0655	Antenna, 450-475 MHz, w/BNC Connector (Optional)	-
6	363-3946	Standoff, Plastic, Locking	4
7	102-0661	Faceplate, Decoder Mounting	1
8	*102-0659	Ribbon Cable (Output Distribution Module to Decoder Module)	1
9	*102-0672	Output Distribution Module Assy.	1
10	*102-0670	Ribbon Cable (Output Distribution Module to Output Modules) ** (Qty Varies w/Model)	**
11	-----	Field Interface Components (See p. 259 for Parts Listing)	-
12	102-0408	Power Supply Assy. (See p. 253 for Parts Listing)	1
13	-----	See Plastic Satellite Pedestal section for details.	1

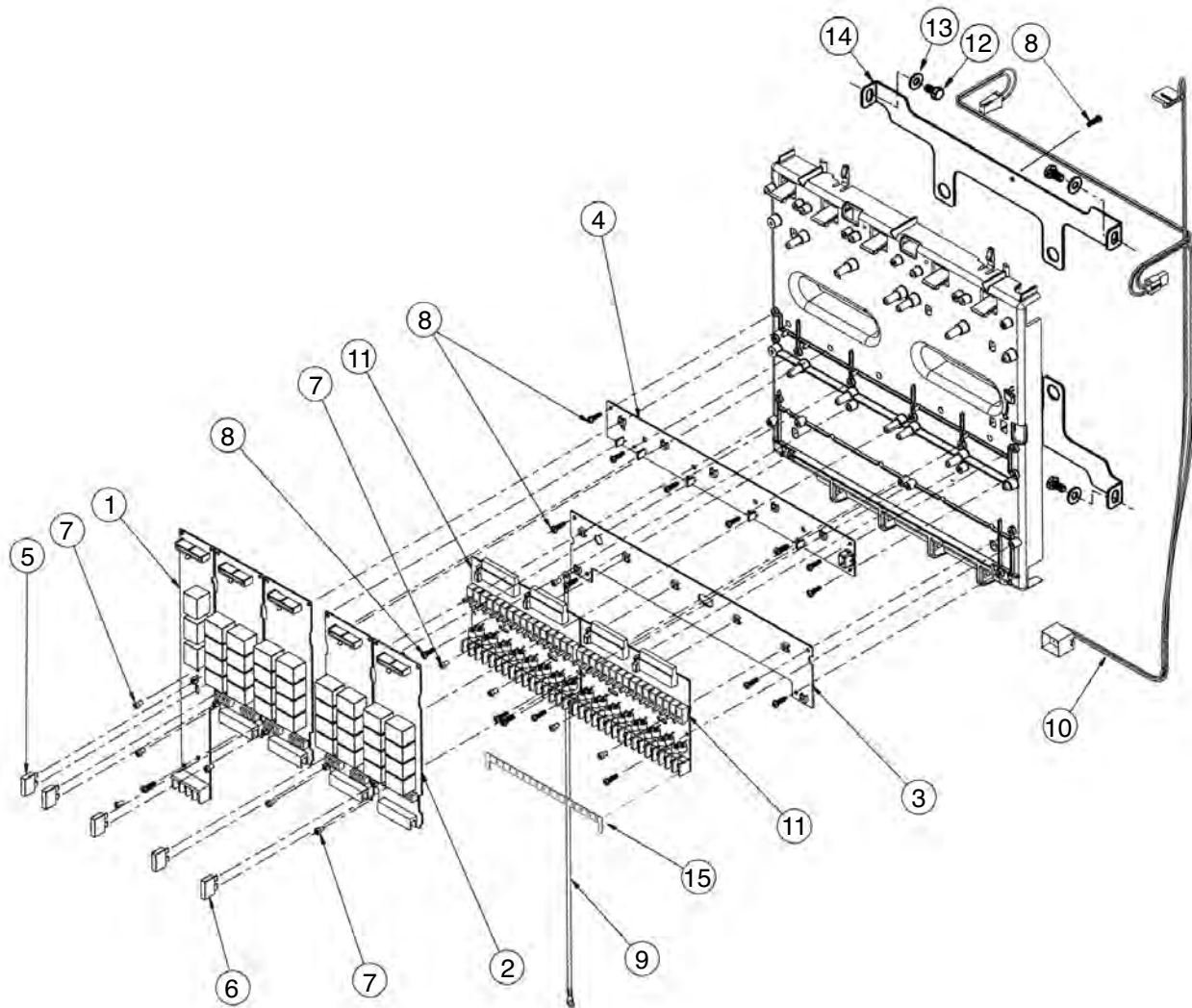
* Order Through Finished Goods Distribution System—Minneapolis

**E-Series OSMAC Satellite,
Wide-band - Metal Cabinet
(Sheet 2 of 3)**



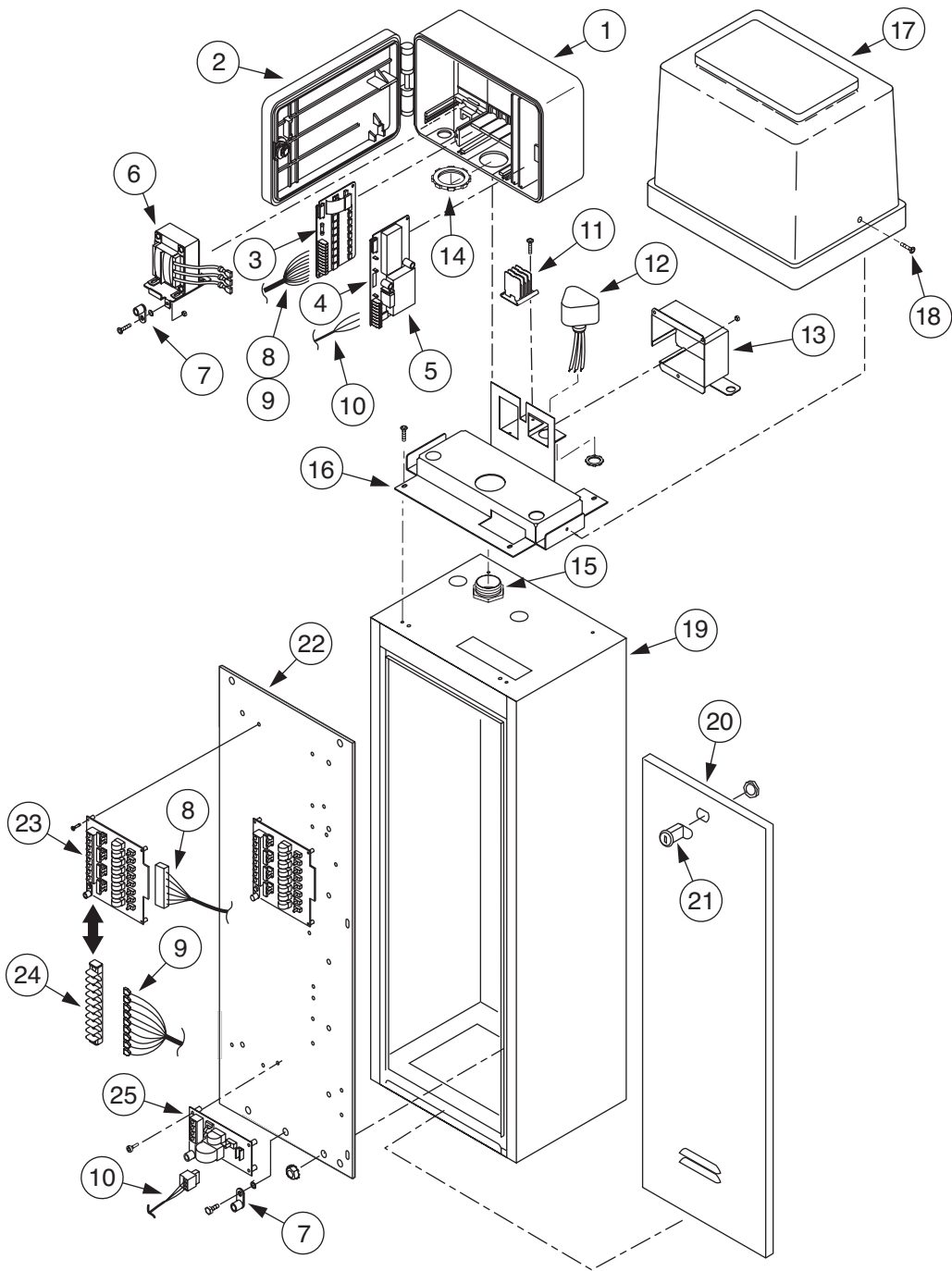
Item No.	Part No.	Description	Quantity Per Assy.
1	102-2624	Cover, Decoder Module Assy., Service	1
2	*N1551	Receiver Module	1
3	*102-0660	Receiver/Decoder Module Assy. (Includes Item 6)	1
4	*102-0656	Antenna PCB Assy.	1
5	102-0663	UHF Dome Style Antenna Assy., 450–475 MHz, Service, w/Cable	1
6	363-3946	Standoffs, Plastic, Locking	4
7	102-0661	Faceplate, Decoder Mounting	1
8	*102-0659	Ribbon Cable (Decoder Module to Distribution Module)	1
9	*102-0672	Distribution Board, Output, Parallel	1
10	*102-0670	Ribbon Cable (Distribution Board to Output Module) ** (Quantity Varies w/Model)	**
11	-----	Base, Pedestal, SST w/Lock Assy. (See Service Item 102-0702)	1
12	-----	Mounting Plate, TM (See Service Item 102-0684)	1
13	-----	Lid Assy., Pedestal, SST (See Service Item 102-0703)	1
14	-----	Door, Pedestal, SST, w/Lock Assy., (See Service Item 102-0704)	2
15	-----	Lock Assy., Door, (See Service Item 102-0714)	2
16	-----	Lock Assy., Pedestal Base (See Service Item 102-0705)	1
17	102-0645	Power Supply Assy. (See p. 253 for Parts Listing)	1
18	-----	Field Interface Components (See p. 259 for Parts Listing)	—
	SERVICE ITEMS		
	102-0684	Mounting Plate, TM, Service (Includes Item 12)	1
	102-0714	Lock Assy., Door, w/Keys & Cover, Service (Includes Item 15)	
	102-0705	Lock Assy., Pedestal Base, w/Keys & Cover, Service (Includes item 16)	
	102-0702	Base, Pedestal, SST w/Lock Assy., Service (Includes Items 11 & 16)	
	102-0696	Pedestal Assy., Service (Includes Items 11–16)	
	102-0703	Lid Assy., Pedestal, SST, Service (Includes Item 13)	
	102-0704	Door, Pedestal, SST, w/Lock Assy., Service, (Includes Item 15)	
		* Order Through Finished Goods Distribution System—Minneapolis	

E-Series OSMAC Satellite, Wide-band, Field Interface Components (Sheet 3 of 3)



Item No.	Part No.	Description	Quantity Per Assy.
1	*102-0669	Pump/Common Module Assy. (Includes Items 5, 7 & 102-0670 Ribbon Cable)	1
2	*102-0654	Output Module Assy., 8-Station (Includes Items 6, 7 & 102-0670 Ribbon Cable)	**
3	102-0652	Bus Bar, PCB Assy., Ground, Service (Includes Item 8)	1
4	102-0653	Bus Bar PCB Assy., 24 V a.c, Service (Includes Item 8)	1
5	102-0658	Fuse, 1.0 Amp, Fast-blow, Service (5-pack)	1
6	102-0657	Fuse, 3.0 Amp, Fast-blow, Service (5-pack)	4
7	102-0671	Screw, Machine, #6-32 x 1/4"	11
8	363-1355	Screw, #6, Self-taping	20
9	102-0685	Wire Harness Assy., Grounding	1
10	102-0686	Wire Harness Assy., Power Supply	1
N/I	*102-0638	8-Station Terminal Block (M0 Surge Level)	**
11	*102-0639	16-Station Module Assy.(M1 Surge Upgrade) (Includes Items 7 & 8)	**
11	*102-0640	16-Station Module Assy.(M2 Surge Upgrade) (Includes Items 7 & 8)	**
11	*102-0641	16-Station Module Assy.(M3 Surge Upgrade) (Includes Items 7 & 8)	**
11	*102-0642	16-Station Module Assy.(M4 Surge Upgrade) (Includes Items 7 & 8)	**
12	360-0595	Screw, Machine, 1/4-20 x 1/2"	4
13	360-0140	Washer, Flat, 1/4"	4
14	-----	Bracket, Mount Backplate	2
15	102-5940SK	Kit, Station Labels, Numbered, Plastic	**
		* Order Through Finished Goods Distribution System—Minneapolis	
		**Quantity Varies With Model	

OSMAC Satellite - 8 x 13 Metal Cabinet, Electric (Sheet 1 of 6)



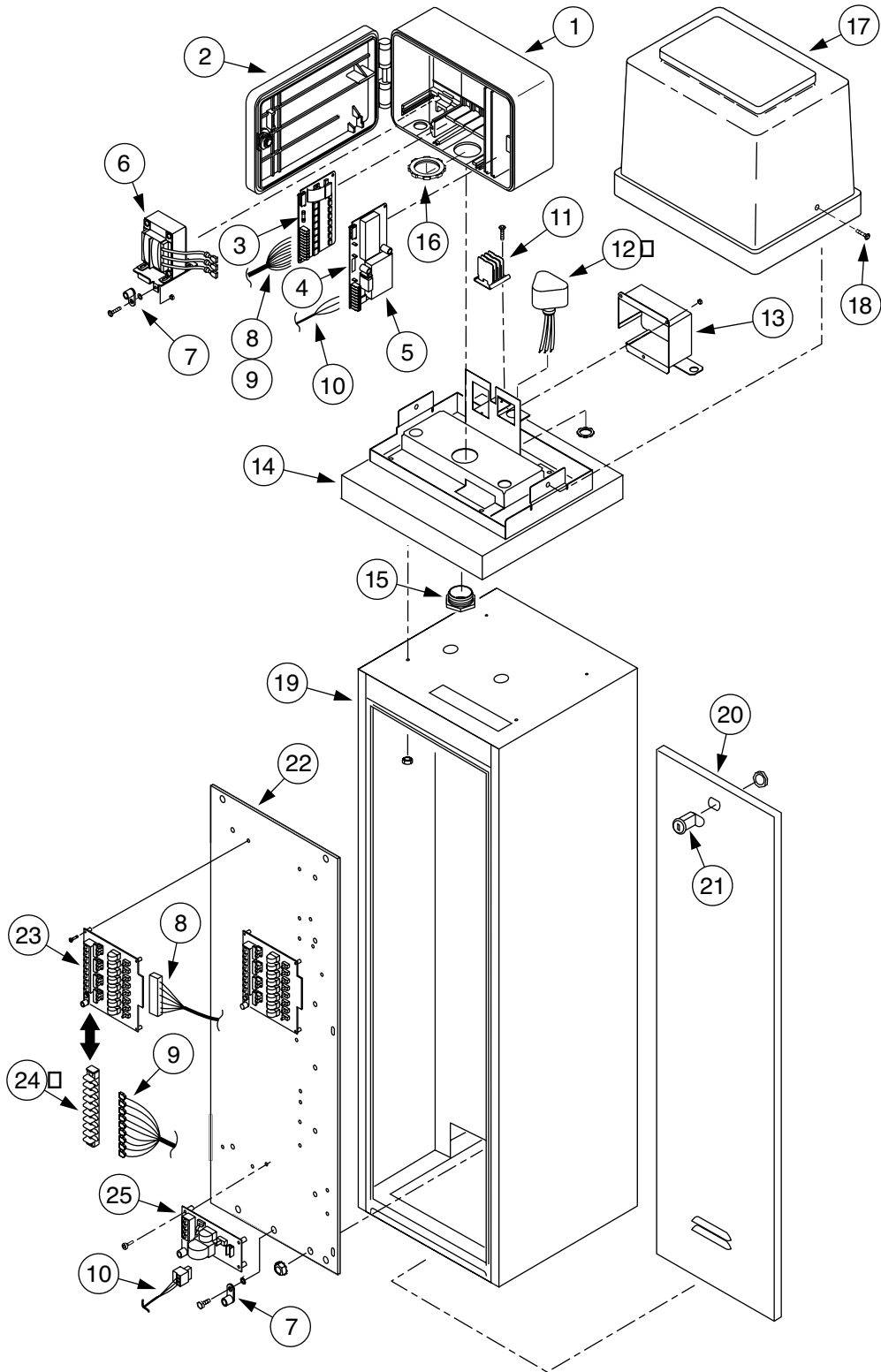
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Housing, Cover, RDR50	1
2	-----	Cover, Housing	1
3	*NLN3491A	Output PCB, 8-Station	1
4	*NLN3485	Decoder Module, RDR50	1
4	*NLN3794	Decoder Module, RDR16	1
5	*N1551-X	Receiver Module, (See Finished Goods Price List For Specific Frequency)	1
6	*NPN8010	Transformer, 24 V a.c.	1
7	363-1553	Lug, Grounding	2
8	91-1905	Cable Assy., Surge Protection, Short	**
8	91-1906	Cable Assy., Surge Protection, Medium	**
8	91-1907	Cable Assy., Surge Protection, Long	**
9	91-2151	Cable Assy., EL, Short	**
9	91-2152	Cable Assy., EL, Medium	**
9	91-2153	Cable Assy., EL, Long	**
10	91-2433	Cable Assy., Pump/Common	1
11	363-2371	Terminal Block, 3-Position	1
12	89-6870	Surge Protector, OSMAC	1
13	91-1865	Cover, Safety, AC	1
14	-----	Locknut, 1.25"	1
15	-----	Conduit Nipple, 1.25"	1
16	91-1884	Adapter, OSMAC, 13" x 8.5", SST	1
17	91-1860	Cover, OSMAC	1
18	363-3438	Screw, Machine, #10-32 x 1/2", SST	2
19	91-1508	Cabinet Assy., SST (Includes Items 19–21)	1
20	-----	Door	2
21	363-5369	Lock Assy. w/Keys	2
22	91-1441	Plate, Mounting	2
23	91-1957	PCB Assy., Surge Protection, 8-Station	**
24	363-3313	Terminal Block, 9-Position	**
25	91-1305	PCB Assy., Surge Protection, Pump/Common	1

* Order Through Finished Goods Distribution System—Minneapolis
** Quantity Varies With Model

Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Housing, RDR50	1
2	-----	Cover, Housing	1
3	*NLN3491A	Output PCB, 8-Station	1
4	*NLN3485	Decoder Module, RDR50	1
4	*NLN3794	Decoder Module, RDR16	1
5	*N1551-X	Receiver Module (See Finished Goods Price List For Specific Frequency)	1
6	*NPN8010	Transformer, 24 V a.c.	1
7	363-1553	Lug, Grounding	2
8	91-1899	Cable Assy., Hyd., Short	**
8	91-1901	Cable Assy., Hyd., Medium	**
8	91-1902	Cable Assy., Hyd., Long	**
9	363-2371	Terminal Block, 3-Position	1
10	89-6870	Surge Protector, OSMAC	1
11	91-1865	Cover, Safety, AC	1
12	91-1884	Adapter, OSMAC, 13" x 8.5", SST	1
13	-----	Conduit Nipple, 1.25"	1
14	-----	Locknut, 1.25"	1
15	91-1860	Cover, OSMAC	1
16	363-3438	Screw, Machine, #10-32 x 1/2", Stainless	2
17	91-1508	Cabinet Assy., SST (Includes Items 17-19)	1
18	-----	Door	2
19	363-5369	Lock Assy. w/Keys	2
20	-----	Plate, Mounting	1
21	-----	Electric/Hydraulic Converter Module (See p. 129 for Parts List)	1
22	-----	Mounting Plate, Terminal Block	1
23	363-1553	Lug, Grounding	1
24	363-3263	Terminal Block, 9-Position	**

* Order Through Finished Goods Distribution System—Minneapolis
**Quantity Varies With Model

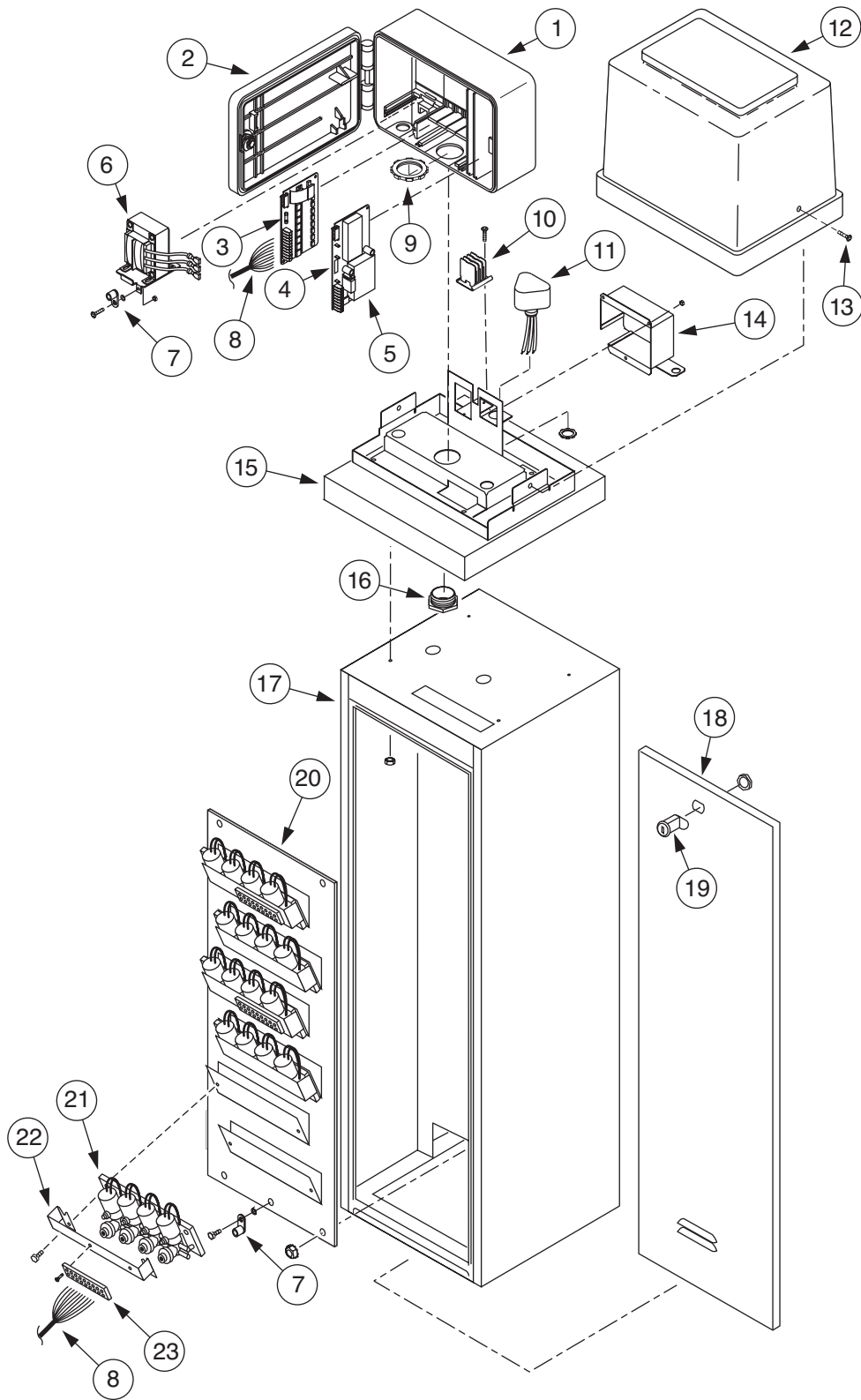
OSMAC Satellite – 13 x 13 Metal Pedestal, Electric (Sheet 3 of 6)



Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Housing, RDR50	1
2	-----	Cover, Housing	1
3	*NLN3491A	Output PCB, 8-Station	1
4	*NLN3485	Decoder Module, RDR50	1
4	*NLN3794	Decoder Module, RDR16	1
5	*N1551-X	Receiver Module (See Finished Goods Price List For Specific Frequency)	1
6	*NPN8010	Transformer, 24 V a.c.	1
7	363-1553	Lug, Grounding	2
8	91-1905	Cable Assy., Surge Protection, Short	**
8	91-1906	Cable Assy., Surge Protection, Medium	**
8	91-1907	Cable Assy., Surge Protection, Long	**
9	91-2151	Cable Assy., EL, Short	**
9	91-2152	Cable Assy., EL, Medium	**
9	91-2153	Cable Assy., EL, Long	**
10	91-2433	Cable Assy., Pump/Common	1
11	363-2371	Terminal Block, 3-Position	1
12	89-6870	Surge Protector, OSMAC	1
13	91-1865	Cover, Safety, AC	1
14	91-1884	Adapter, OSMAC, 13" x 8.5", SST	1
15	-----	Conduit Nipple, 1.25"	1
16	-----	Locknut, 1.25"	1
17	91-1860	Cover, OSMAC	1
18	363-3438	Screw, Machine, #10-32 x 1/2", SST	2
19	89-7128	Cabinet Assy., SST (Includes Items 17-19)	1
20	-----	Door	2
21	363-5369	Lock Assy. w/Keys	2
22	-----	Plate, Mounting	1
23	91-1957	PCB Assy, Surge Protection, 8-Station	1
24	-----	Terminal Block, 9-Position	1
25	91-1305	PCB Assy., Surge Protection, Pump/Common	1

* Order Through Finished Goods Distribution System--Minneapolis
** Quantity Varies With Model

OSMAC Satellite – 13 x 13 Metal Pedestal, Hydraulic (Sheet 4 of 6)

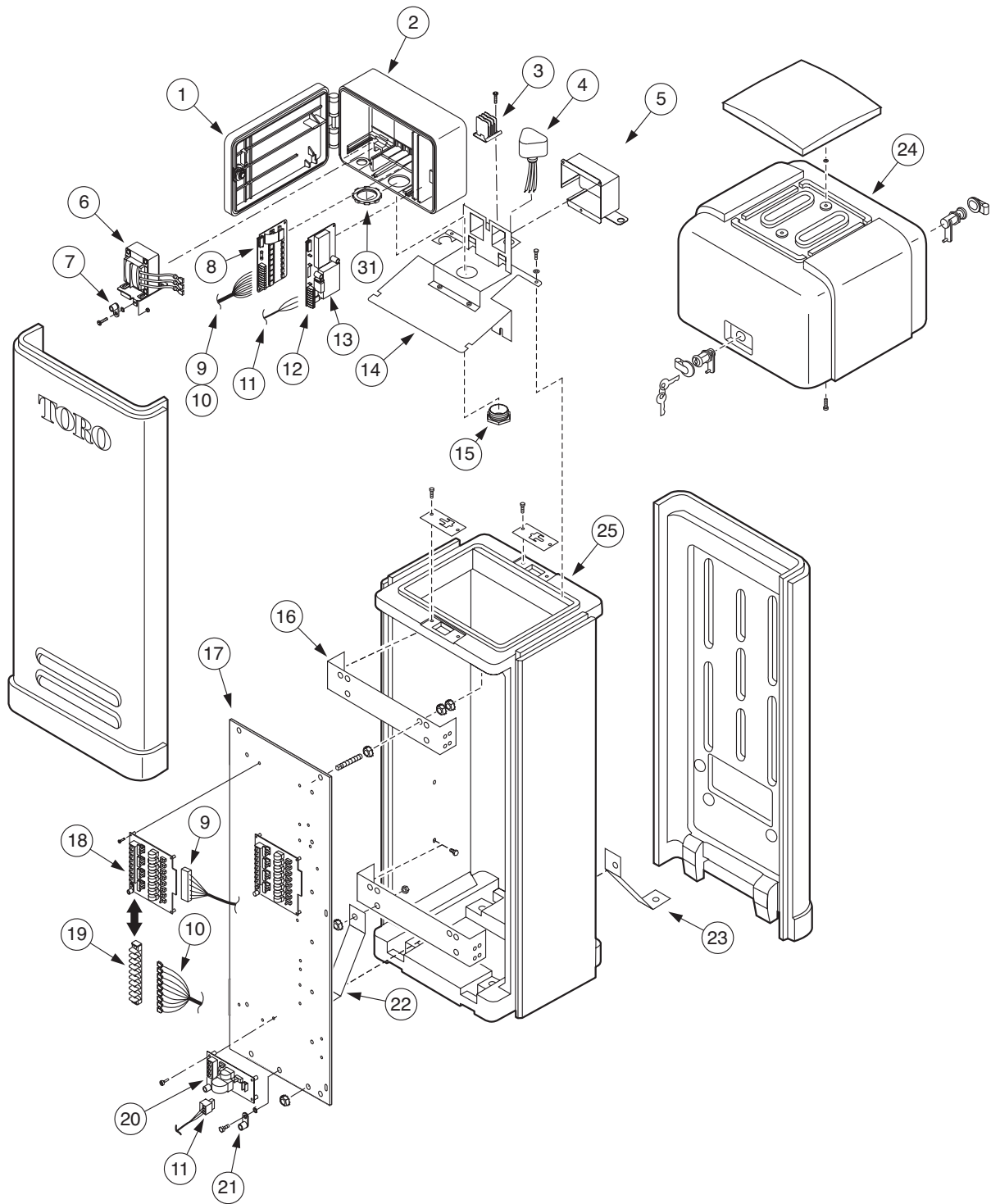


Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Housing, RDR50	1
2	-----	Cover, Housing	1
3	*NLN3491A	Output PCB, 8-Station	1
4	*NLN3485	Decoder Module, RDR50	1
4	*NLN3794	Decoder Module, RDR16	1
5	*N1551-X	Receiver Module (See Finished Goods Price List For Specific Frequency)	1
6	*NPN8010	Transformer, 24 V a.c.	1
7	363-1553	Lug, Grounding	1
8	91-1899	Cable Assy., Hyd., Short	**
8	91-1901	Cable Assy., Hyd., Medium	**
8	91-1902	Cable Assy., Hyd., Long	**
9	-----	Locknut, 1.25"	1
10	363-2371	Terminal Block, 3-Position	1
11	89-6870	Surge Protector, OSMAC	1
12	91-1860	Cover, OSMAC	1
13	363-3438	Screw, Machine, #10-32 x 1/2", SST	2
14	91-1865	Cover, Safety, AC	1
15	91-1886	Adapter, OSMAC, 13" x 13", SST	1
16	-----	Conduit Nipple, 1.25"	1
17	91-7128	Cabinet Assy., 13" x 13", SST (Includes Items 17-19)	1
18	-----	Door	2
19	363-5369	Lock Assy. w/Keys	2
20	-----	Plate, Mounting	**
21	-----	Electric/Hydraulic Converter Module (See p. 129 for Parts List)	**
22	-----	Bracket Support, Electric/Hydraulic Converter	**
23	363-3313	Terminal Block, 9-Position	**

* Order Through Finished Goods Distribution System—Minneapolis

** Quantity Varies With Model

OSMAC Satellite – Plastic Cabinet, Electric (Sheet 5 of 6)

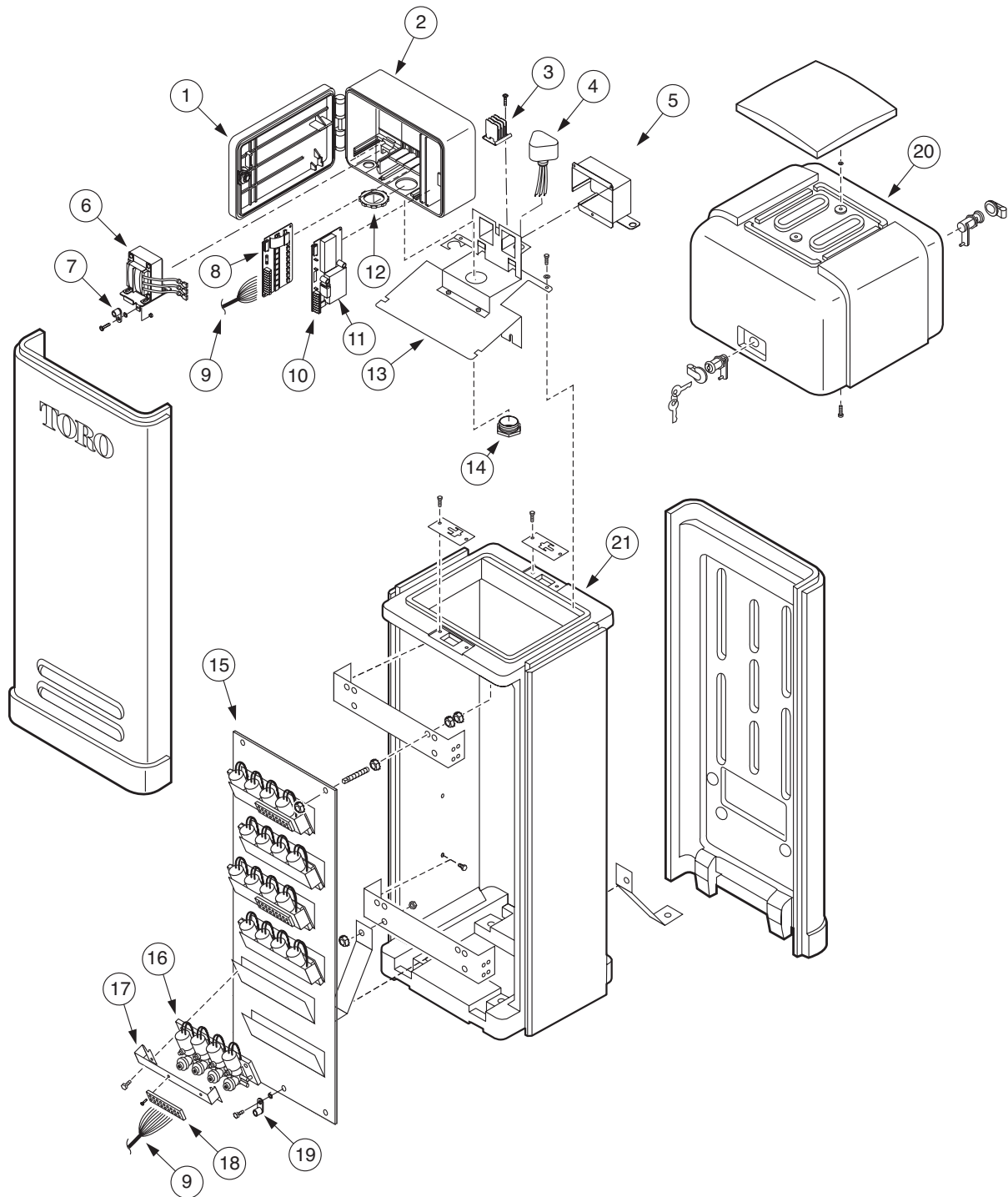


Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Cover, Housing	1
2	-----	Housing, RDR50	1
3	363-2371	Terminal Block, 3-Position	1
4	89-6870	Surge Protector, OSMAC	1
5	91-1865	Cover, Safety, AC	1
6	*NPN8010	Transformer, 24 V a.c.	1
7	363-1553	Lug, Grounding	2
8	*NLN3491A	Output PCB, 8 Station	1
9	91-1905	Cable Assy., Surge Protection, Short	**
9	91-1906	Cable Assy., Surge Protection, Medium	**
9	91-1907	Cable Assy., Surge Protection, Long	**
10	91-2151	Cable Assy., EL, Short	**
10	91-2152	Cable Assy., EL, Medium	**
10	91-2153	Cable Assy., EL, Long	**
11	91-2433	Cable Assy., Pump/Common	1
12	*NLN3485	Decoder Module, RDR50	1
12	*NLN3794	Decoder Module, RDR16	
13	*N1551-X	Receiver Module (See Finished Goods Price List For Specific Frequency)	1
14	-----	Adapter, OSMAC, Stainless Steel	1
15	-----	Conduit Nipple, 1.25"	1
16	-----	Bracket	2
17	91-1441	Plate, Mounting	2
18	91-1957	PCB Assy., Surge Protection, 8-Station	**
19	363-3263	Terminal Block, 9-Position	**
20	91-1305	PCB Assy., Surge Protection, Pump/Common	1
21	363-1553	Lug, Grounding	1
22	-----	Bracket Support	1
23	-----	Bracket Support, Offset	1
24	89-8344	Cover, Plastic, Tall	1
25	-----	See Plastic Satellite Pedestal section for details.	1

* Order Through Finished Goods Distribution System—Minneapolis

** Quantity Varies With Model

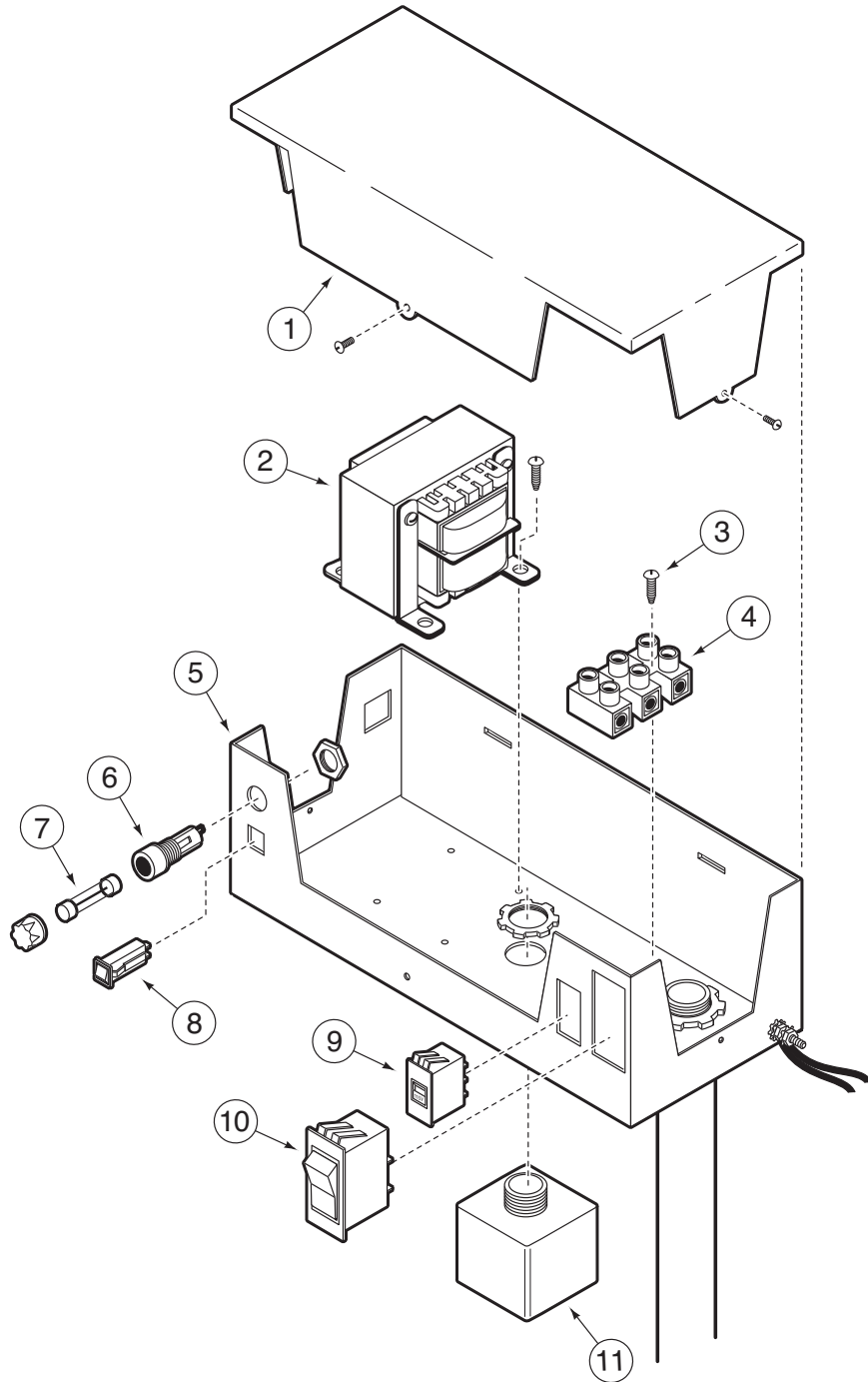
OSMAC Satellite – Plastic Cabinet, Hydraulic (Sheet 6 of 6)



Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Cover, Housing	1
2	-----	Housing, RDR50	1
3	363-2371	Terminal Block, 3-Position	1
4	89-6870	Surge Protector, OSMAC	1
5	91-1865	Cover, Safety, AC	1
6	*NPN8010	Transformer, 24 V a.c.	1
7	363-1553	Lug, Grounding	2
8	*NLN3491A	Output PCB, 8-Station	1
9	91-1899	Cable Assy., Surge Protection, Short	**
9	91-1901	Cable Assy., Surge Protection, Medium	**
9	91-1902	Cable Assy., Surge Protection, Long	**
10	*NLN3485	Decoder Module, RDR50	1
10	*NLN3794	Decoder Module, RDR16	1
11	*N1551	Receiver Module	1
12	363-3259	Locknut 1.25"	1
13	-----	Adapter, OSMAC, Stainless Steel	1
14	363-3258	Conduit Nipple, 1.25"	1
15	-----	Plate, Mounting	2
16	-----	Electric/Hydraulic Converter Module (See p. 129 for Parts List)	**
17	91-1562	Mounting Plate, Terminal Block	**
18	363-3263	Terminal Block, 9 Position	**
19	363-1553	Lug, Grounding	1
20	89-8344	Cover, Plastic, Tall	1
21	-----	See Plastic Satellite Pedestal section for details.	1

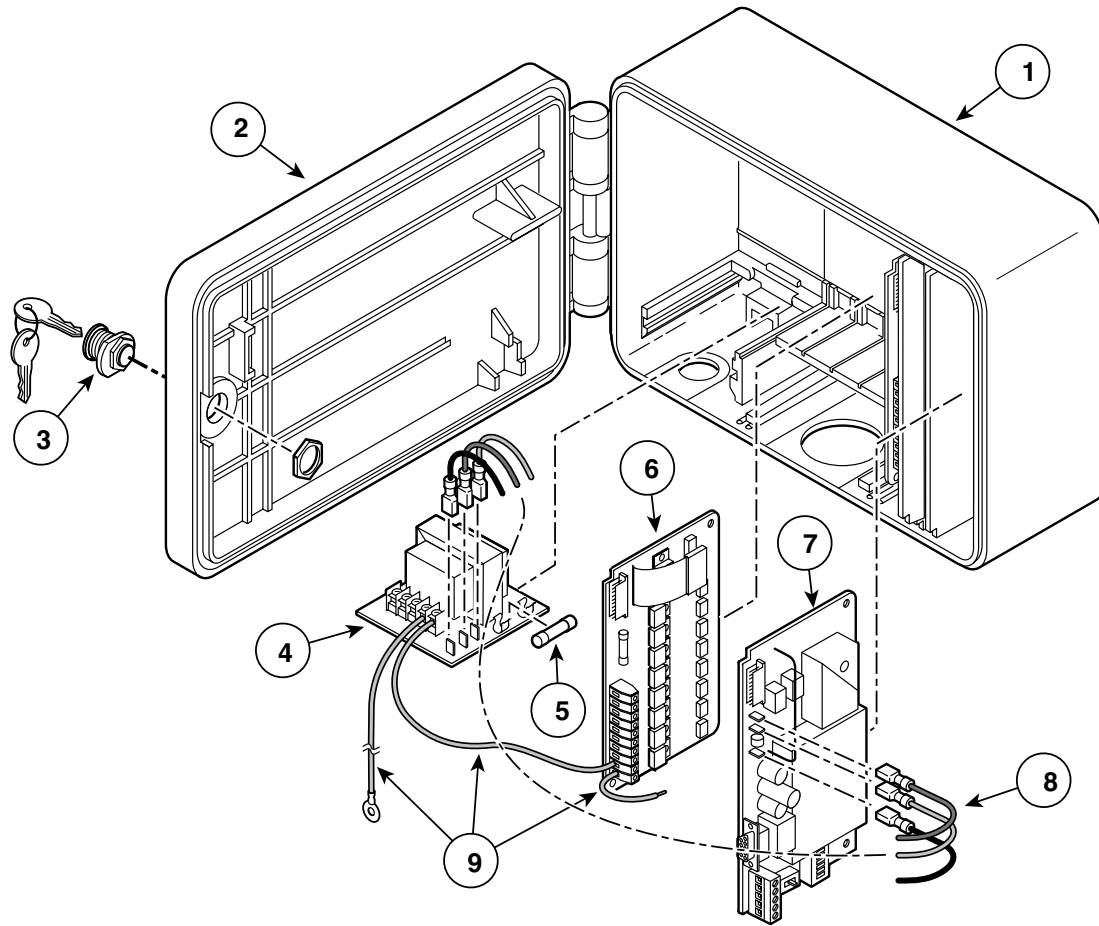
* Order Through Finished Goods Distribution System--Minneapolis
** Quantity Varies With Model

OSMAC RDR Unit – Power Supply Assembly



Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Cover	1
2	-----	Transformer Assy. w/Wire Harness (See Service Item 102-0647)	1
3	-----	Screw, Tap, #6	6
4	102-0667	Terminal Block, 115/230V (Includes Item 3)	1
5	-----	Bracket, RDR Power Supply	1
6	102-0649	Fuse Holder Assy.	1
7	-----	Fuse, 3.2 Amp, Slow-Blow, Service (See Service Item 102-0650)	1
8	102-0651	Circuit Breaker, 4.0 Amp	1
9	102-0648	Selector Switch, 115/230 V a.c.	1
10	102-0666	Switch/Circuit Breaker, 4.0 Amp, Power	1
11	102-0668	Surge Protection Assy. w/Nut	1
		SERVICE ITEMS	
	102-0647	Transformer Assy., Svc.	
	102-0650	Fuse, 3.2 Amp, Slow-Blow (10-pack)	

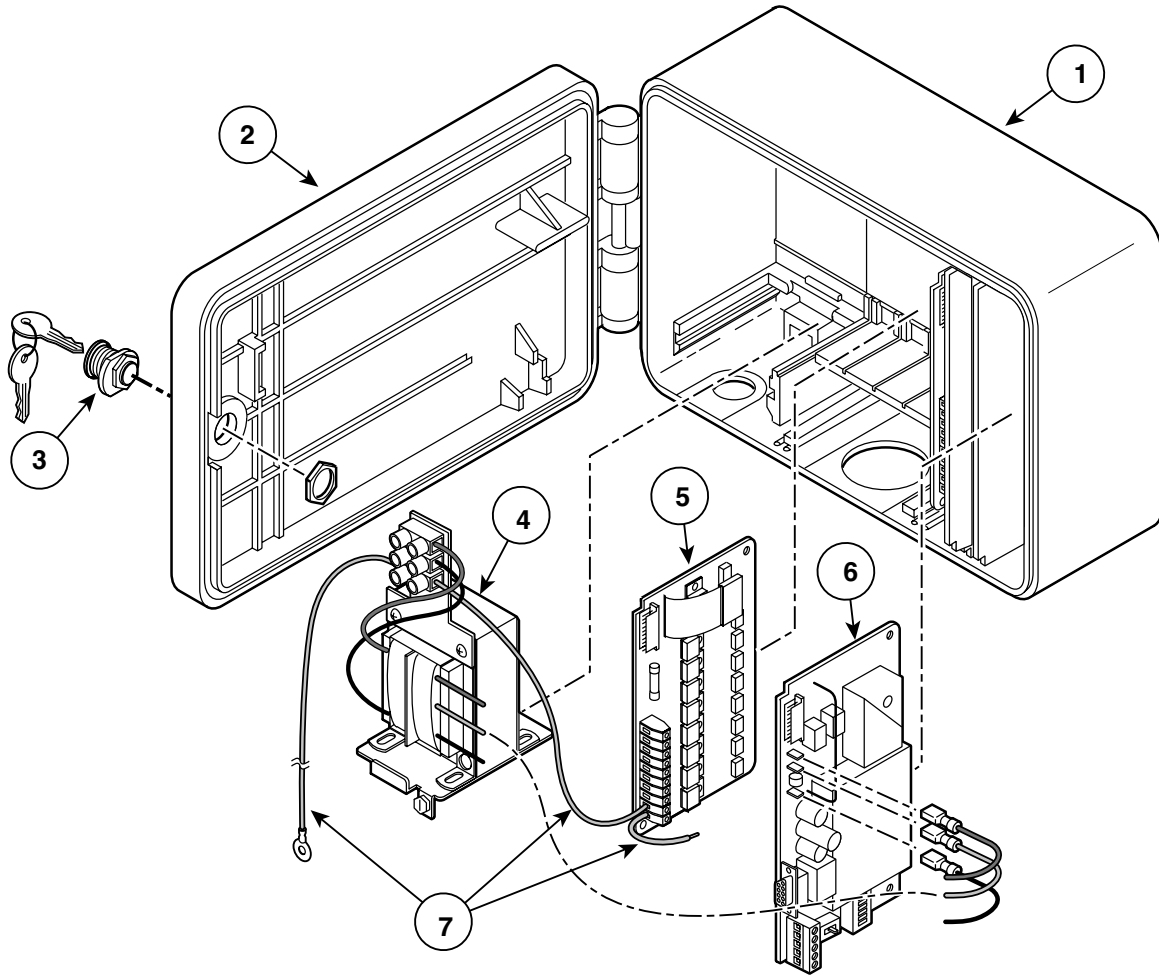
OSMAC RDR - Model RDR0160LVN0



Item No.	Part No.	Description	Quantity Per Assy.
1	102-2921	Kit, OSMAC RDR Housing	1
2	102-2920	Kit, OSMAC RDR Housing Cover	1
3	363-4120	Lock Assy. w/Keys	1
4	102-3067	24 to 12 V a.c. Transformer Board	1
5	102-3068	2A Slow-blow Fuse	1
6	*NLN3491A	Output PCB Assy., 8-Station	2
7	102-1828	PCBA, OSMAC, Narrow-band Decoder	1
8	102-3069	Kit, Power Wires, RDR LV	1
9	102-3077	Kit, Ground Wires (3)	1
N/I	-----	Bracket, Wall Mount	1

* Order Through Finished Goods Distribution System—Minneapolis

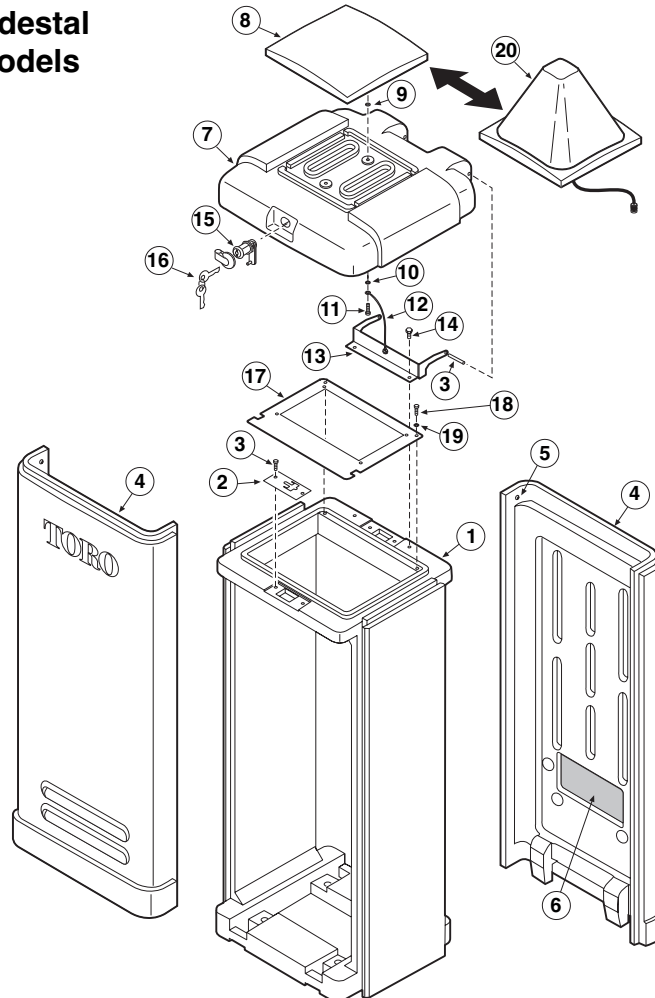
OSMAC RDR - Model RDR0160LVCE



Item No.	Part No.	Description	Quantity Per Assy.
1	102-2921	Kit, OSMAC RDR Housing	1
2	102-2920	Kit, OSMAC RDR Housing Cover	1
3	363-4120	Lock Assy. w/Keys	1
4	102-3076	24 to 12 V a.c. Transformer w/Terminal Block	1
5	*NLN3491A	Output PCB Assy., 8-Station	2
6	102-1828	PCBA, OSMAC, Narrow-band Decoder	1
7	102-3077	Kit, Ground Wires (3)	1
N/I	-----	Bracket, Wall Mount	1

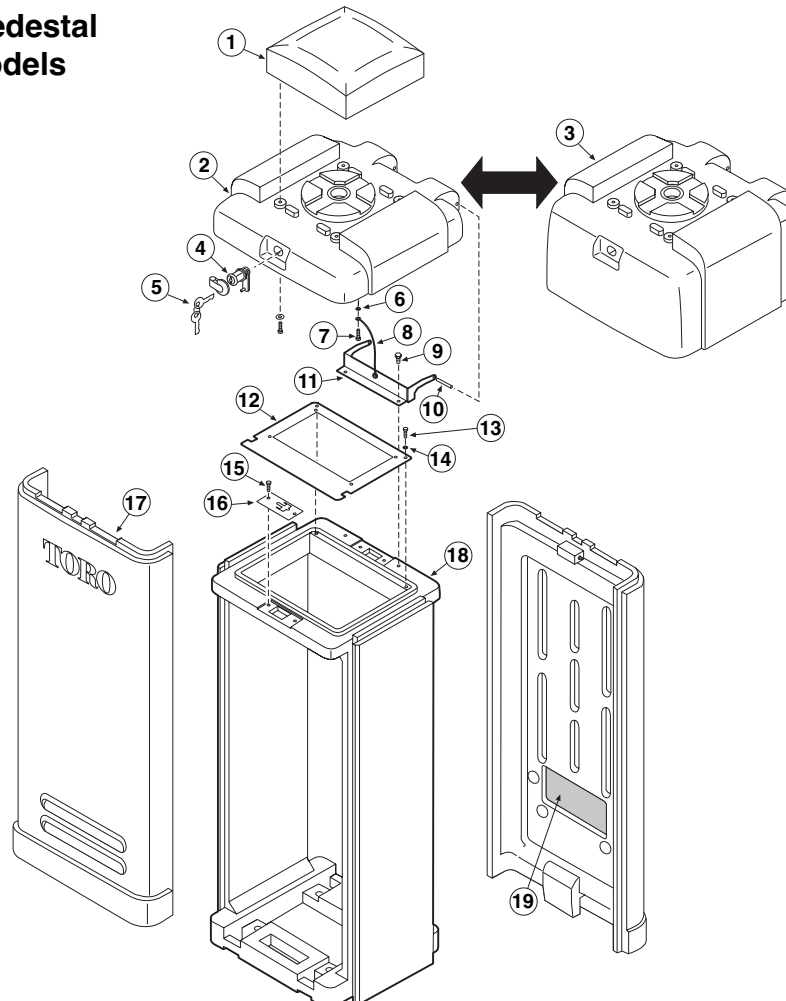
* Order Through Finished Goods Distribution System—Minneapolis

Plastic Satellite Pedestal 2006 and Earlier Models



Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Base, Plastic Pedestal (See Service Item 89-8348)	1
2	-----	Plate, Locking	1
3	363-5334	Screw, #10-32 x 3/4", SST	2
4	-----	Door, Plastic Pedestal (See Service Item 89-8347)	2
5	-----	Detent Latch Assy., Door (See Service Item 89-8347)	2
6	-----	Air Filter, Foam (See Service Item 89-8347)	2
7	-----	Cover, Plastic, Standard (See Service Item 89-8345)	1
8	-----	Cap, Vent (See Service Item 89-8355)	1
9	-----	Washer, Silicone (See Service Item 89-8355)	2
10	-----	Washer, Flat (See Service Item 89-8355)	2
11	363-3438	Screw, machine, #10-32 x 3/4", SST	1
12	102-3086	Cable, Restraining	1
13	-----	Hinge, Cover (See Service Item 89-8345)	1
14	360-0595	Screw, Machine, 1/4-20 x 1/2", SST	2
15	-----	Lock Assy. (See Service Item 89-8346)	1
16	360-0565	Keys, Lock (Golf #1382)	2
17	102-0664	Plate, Face	1
18	363-3541	Screw, Trim, #6	2
19	363-3542	Washer, Finish, #6	2
20	102-3126	Dome Antenna Assy., Used in VP / LTC+ and E-OSMAC (2006 and Later Models)	
		SERVICE ITEMS	
	89-8348	Base Assy., Service (Includes Items 1-3)	
	89-8347	Door Assy., Service (Includes Items 4-6)	
	89-8345	Cover Assy., Standard, Service (Includes Items 7-16)	
	89-8355	Vent Cap Assy., Service (Includes Items 8-11)	
	89-8346	Lock Kit, Service (Includes Item 15, 16 & Lock Cover)	

Plastic Satellite Pedestal 2006 and Later Models



Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Cap, Vent	1
2	102-6147	Cover, Plastic, Enhanced	1
3	-----	Cover, Plastic, Enhanced, RDR	1
4	-----	Lock Assy. (See Service Item 89-8346)	1
5	360-0565	Keys, Lock (See Service Item 360-0565)	2
6	-----	Washer, Flat	2
7	363-3438	Screw, machine, #10-32 x 3/4", SST	1
8	102-3086	Cable, Restraining	1
9	360-0595	Screw, Machine, 1/4-20 x 1/2", SST	2
10	363-5334	Screw, #10-32 x 3/4", SST	2
11	-----	Hinge, Cover	1
12	102-0664	Plate, Face	1
13	363-3541	Screw, Trim, #6	2
14	363-3542	Washer, Finish, #6	2
15	363-3707	Screw, #10-32 x 3/4", SST	2
16	102-6155	Plate, Locking	1
17	102-6146	Door, Plastic Pedestal, Enhanced	2
18	102-4775	Base, Plastic Pedestal, Enhanced	1
19	-----	Air Filter, Foam	2
		SERVICE ITEMS	
	102-6144SK	Kit, Service, Pedestal, Complete	
	102-4775SK	Kit, Service, Base, Pedestal (Includes Items 15, 16 & 18)	
	102-6146SK	Kit, Service, Door, Pedestal (Includes Items 17 & 19)	
	102-6147SK	Kit, Service, Cover, Pedestal, Short (Includes Items 1-11)	
	102-4778SK	Kit, Service, Cover, Vent (Includes Item 1)	
	89-8346	Kit, Service, Lock (Includes Item 4, 5 & Lock Cover)	



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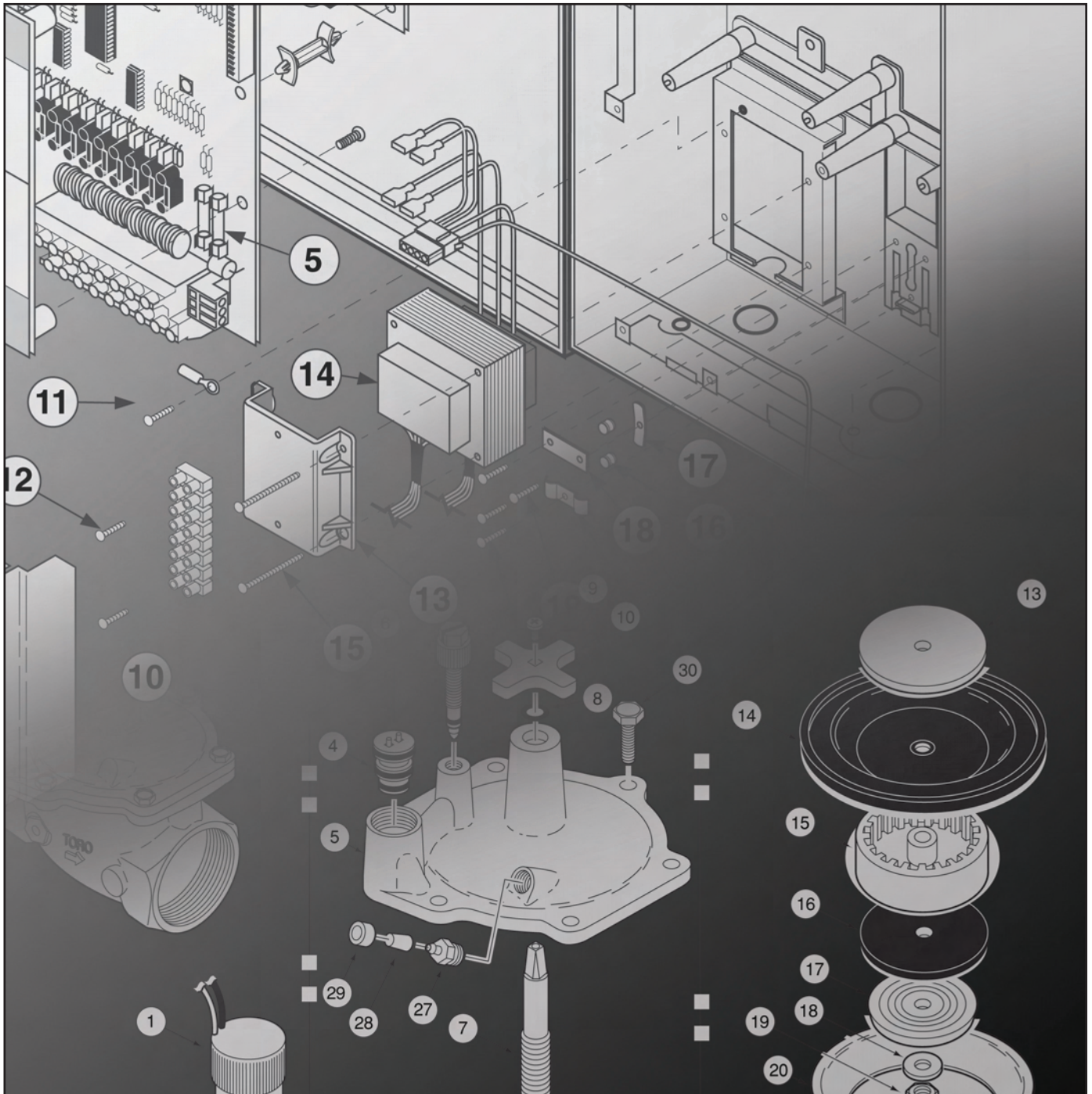
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TORO

2010 Irrigation Products

Illustrated Parts Breakout

Count on it.



Golf Sprinklers Section

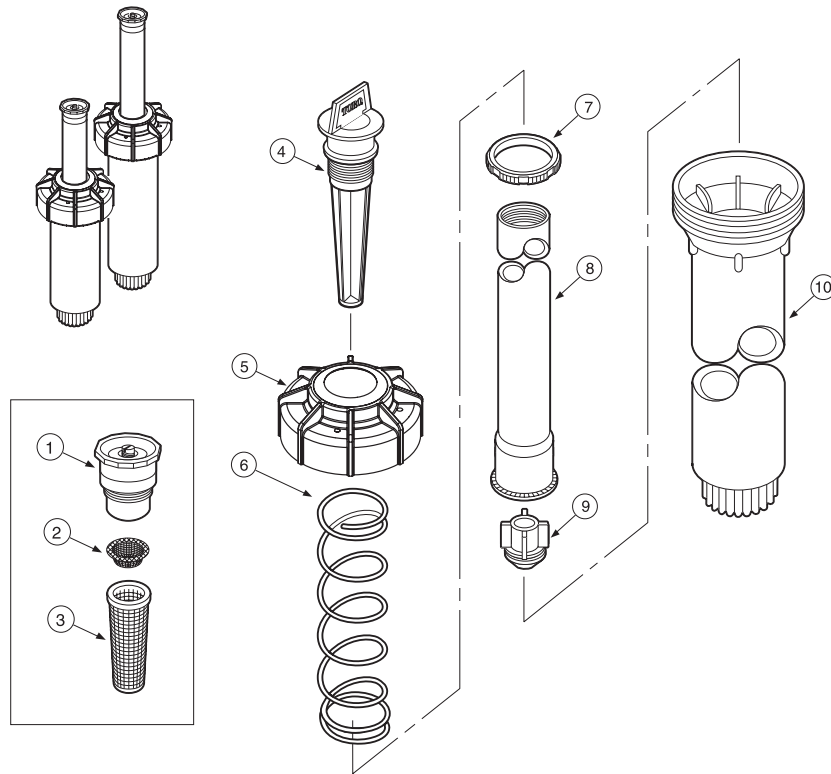
GENERAL INFORMATION

Please note the following usage guidelines:

- When dashes (- - -) are shown in place of a part number, the part is either not available for sale or not sold separately. Refer to the accompanying Service Items listing for availability.
- An asterisk (*) preceding a part number indicates the item is only available through the Toro Finished Goods Distribution System and must be ordered accordingly.
- This book is updated annually. The published part numbers and descriptions are subject to change. If changes and/or corrections are required, the updated information will be made available through the Toro Distributor Operations Bulletin and/or Tech Tip communications.
- Common abbreviations used within this publication:

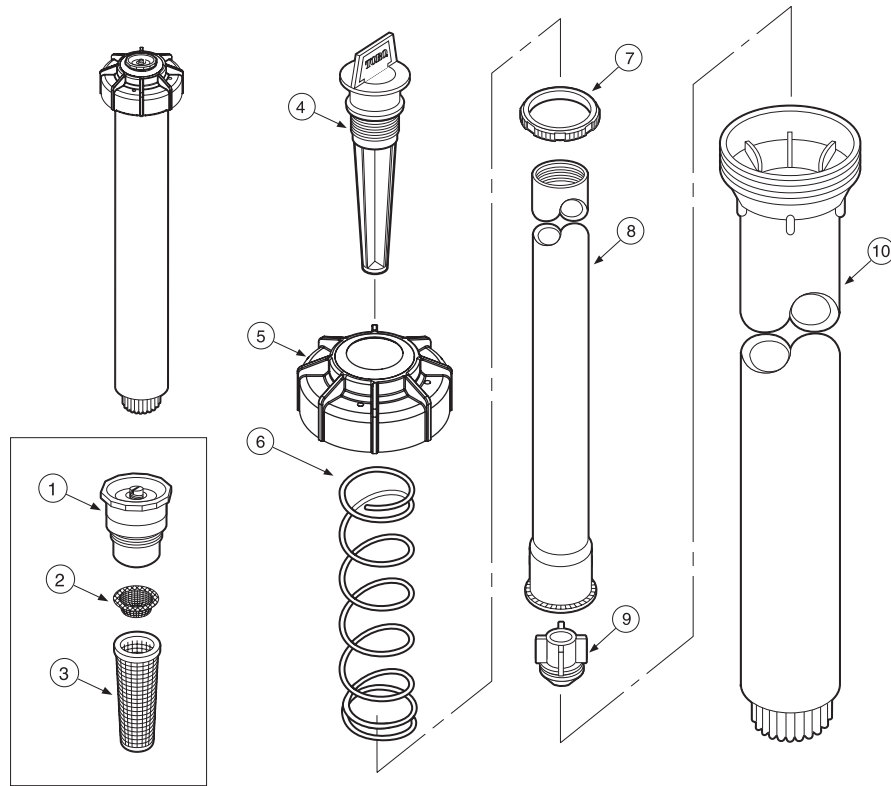
A	= Ampere	NO	= Normally Open (Micro Switch)
Amp	= Ampere	NPT	= National Pipe Thread
Assy.	= Assembly	PC	= Part Circle
ADJ	= Adjustable	Pot.	= Potentiometer
B	= Barbed	PV	= Pilot Valve
BSP	= British Standard Pipe	PHPH	= Pan Head Phillips Head
COM	= Check-O-Matic	PHFH	= Pan Head Fillister Head
CR	= Contamination Resistant	PT	= Pin Type (Hydraulic)
CSA	= Canadian Standards Association	PR	= Pressure Regulated
EL	= Electric	Prog.	= Program
Elec	= Electric	RC	= Rubber Cover
Exp	= Export	RPD	= Revolutions Per Day
F	= Female	RPM	= Revolutions Per Minute
FC	= Full Circle (Sprinkler)	S	= Slip
FC	= Flow Control (Valve)	SST	= Stainless Steel
GPM	= Gallons Per Minute	SI	= Side Inlet
Hyd.	= Hydraulic	Svc	= Service
Hz	= Hertz	TM	= Timing Mechanism
in.	= Inch	V	= Volts
Int.	= Internal	VAC	= Volts Alternating Current
Int. T	= Internal Tooth	VDC	= Volts Direct Current
L/	= Less	VA	= Volt Amps
lbs.	= Pounds	VIH	= Valve In Head
M	= Male	w/	= with
M/F	= Male/Female	w/o	= without
N/I	= Not Indicated	"	= Inches
NC	= Normally Closed (Hydraulic)	'	= Feet
NC	= Normally Closed (Micro Switch)		
NO	= Normally Open (Hydraulic)		

590G-4 & 590G-6



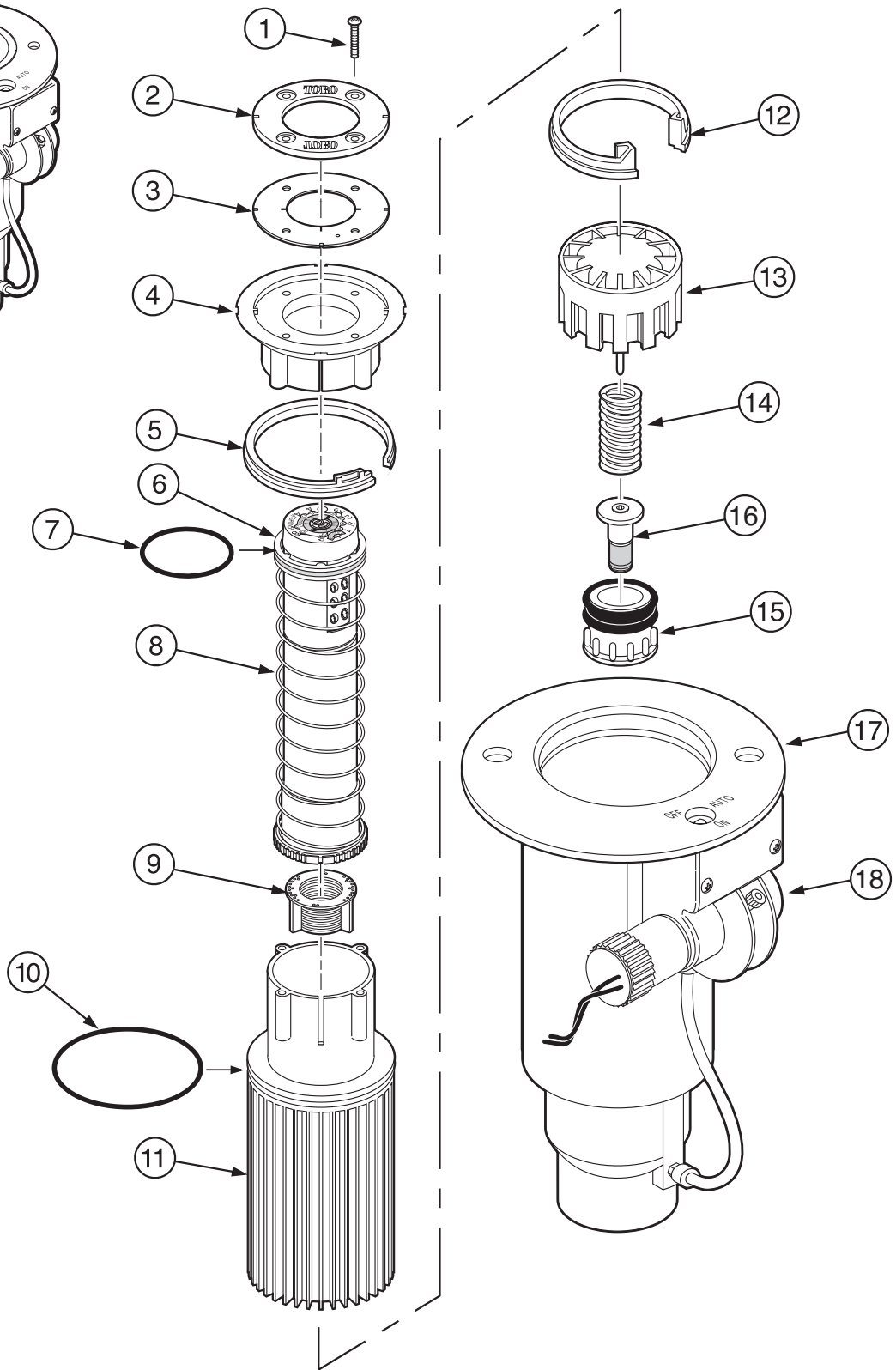
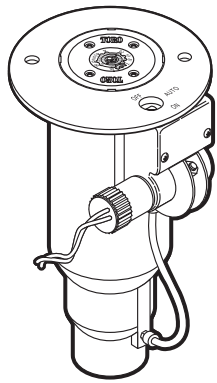
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Nozzle	1
2	89-5548	Screen, Filter, SST	1
3	9-5112	Screen, Riser (White Plastic, Regular Mesh)	1
3	89-8738	Screen, Riser (Red Plastic, Fine Mesh)	1
4	102-0621	Flush Plug, PRX & XF	1
5	102-1833	Cap, 590G	1
5	102-7660	Cap, Lavender	1
6	35-9632	Spring, 590G-4, COM	1
6	35-9633	Spring, 590G-6, COM	1
7	89-0463	Retainer, Spring	1
8	89-0969	Riser, 4"	1
8	89-0856	Riser, 6"	1
9	89-5896	COM Assy.	1
10	89-0968	Body, 4"	1
10	89-0970	Body, 6"	1
		SERVICE ITEMS	
	102-3995	XF Riser Assy., 4P, COM (Includes Items 4, 8 & 9)	
	102-3997	XF Riser Assy., 6P, COM (Includes Items 4, 8 & 9)	

590G-12



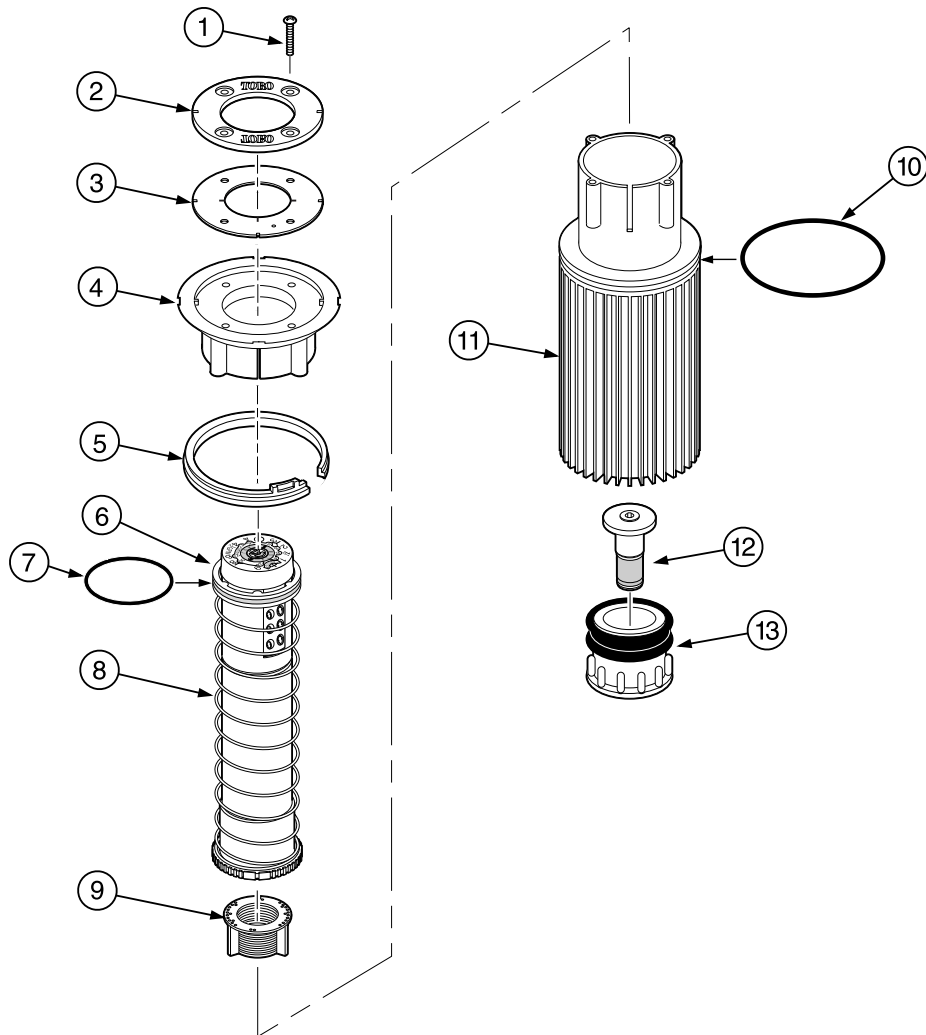
Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Nozzle	1
2	89-5548	Screen, Filter, SST	1
3	9-5112	Screen, Riser (White Plastic, Regular Mesh)	1
3	89-8738	Screen, Riser (Red Plastic, Fine Mesh)	1
4	102-0621	Flush Plug, PRX & XF	1
5	102-1833	Cap, 590G	1
5	102-7660	Cap, Lavender	1
6	35-9634	Spring, Return, 590G-12, COM	1
7	89-0855	Ratchet	1
8	102-1246	Riser	1
9	89-5896	COM Assy.	1
10	9-7236	Body, 12"	1
		SERVICE ITEMS	
	102-3999	XF Riser Assy., 12P COM (Includes Items 4, 9 & 10)	

720 Series



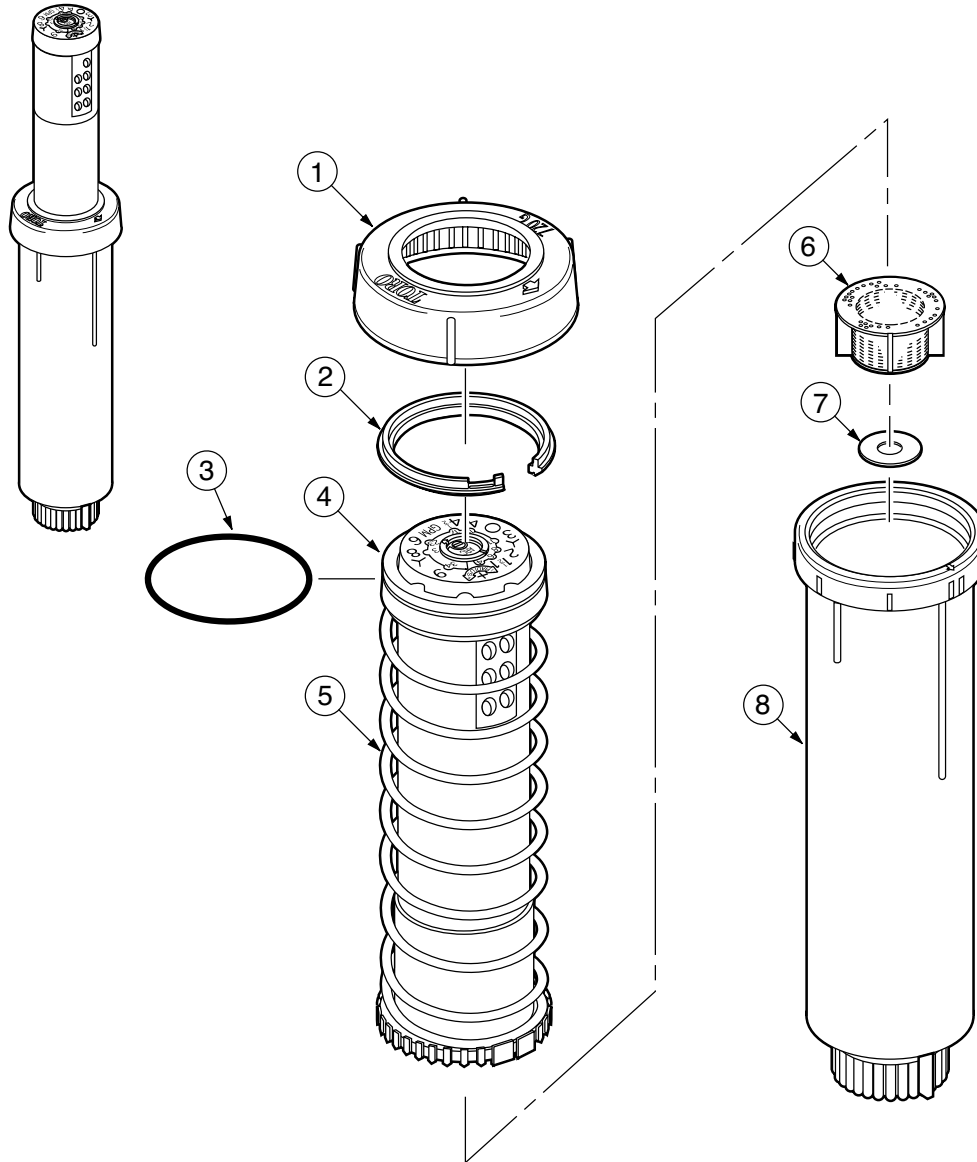
Item No.	Part No.	Description	Quantity Per Assy.
1	363-3864	Screw, #8-32 x 1"	4
2	102-0257	Retainer, Debris Seal	1
2	102-0258	Retainer, Debris Seal, Effluent	1
3	102-5385	Seal, Debris	1
4	89-9446	Support, Riser	1
5	89-1385	Snap Ring	1
6	102-0255	Retainer, O-Ring, 720	1
7	363-4195	O-Ring, 0.070" x 1.864" x 2.004" Buna	1
8	89-9725	Riser Assembly, PC (Includes Items 6–9)	1
8	89-9726	Riser Assembly, FC (Includes Items 6–9)	1
9	89-9428	Screen	1
10	363-4102	O-Ring, Paraffin AS-568 232	1
11	89-9443	Sleeve, Riser	1
12	89-4702	Snap Ring, Valve	1
13	9-1487	Cylinder Assy., EL	1
14	3-2633	Spring, NO, EL	1
15	102-0081	Piston Assy., EL, Low Flow (Includes Item 16)	1
16	35-9646	Filter Assy., Metering, EL, NC	1
17	-----	Body Assy. (See p. 102)	1
18	-----	Pilot Valve Assy. (See p. 109)	1
		SERVICE ITEMS	
	102-0082	Valve Assy., EL, Low Flow, (Includes Items 13–15)	
	*102-0108	Conversion Assy., 720 PC, Ribbed Body, (Includes Items 1–11, 15 & 16)	
	*102-0110	Conversion Assy., 720 PC, Ribbed Body, Effluent, (Includes Items 1–11, 15 & 16)	
	*102-0112	Conversion Assy., 720 FC, Ribbed Body, (Includes Items 1–11, 15 & 16)	
	*102-0114	Conversion Assy., 720 FC, Ribbed Body, Effluent, ((Includes Items 1–11, 15 & 16)	
		SERVICE TOOLS	
	995-15	Selector Tool (Flag Tool)	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-08	Valve Removal Tool	
	995-76	Valve Installation Tool	
	995-83	Multi-purpose Tool	
	89-7350	Adjustment Key	
		* Order Through Finished Goods Distribution System—Minneapolis	

720 Series Conversion Assembly



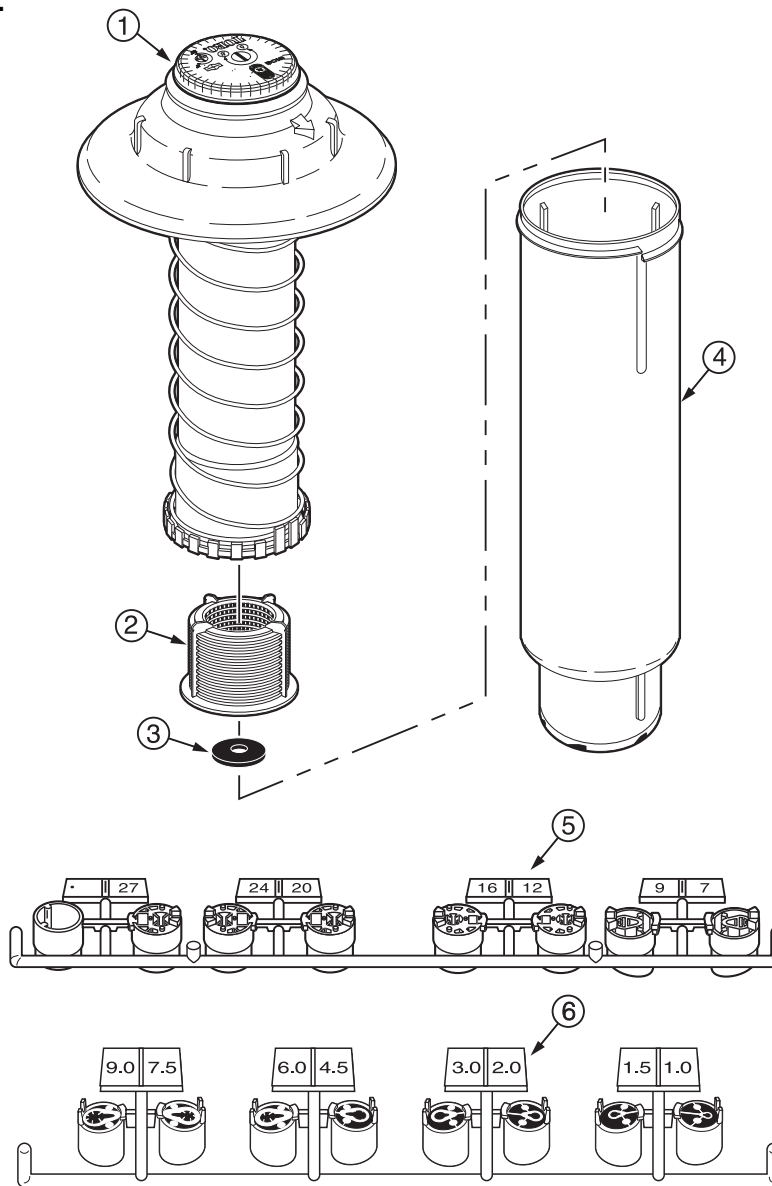
Item No.	Part No.	Description	Quantity Per Assy.
	*102-0108	Conversion Assy., 720 PC, Ribbed Body, (Includes Items 1–13)	
	*102-0110	Conversion Assy., 720 PC, Ribbed Body, Effluent, (Includes Items 1–13)	
	*102-0112	Conversion Assy., 720 FC, Ribbed Body, (Includes Items 1–13)	
	*102-0114	Conversion Assy., 720 FC, Ribbed Body, Effluent, (Includes Items 1–13)	
1	363-3864	Screw, #8-32 x 1"	4
2	102-0257	Retainer, Debris Seal	1
2	102-0258	Retainer, Debris Seal, Effluent	1
3	102-5385	Seal, Debris	1
4	89-9446	Support, Riser, Ribbed Body	1
5	89-1385	Snap Ring	1
6	102-0255	Retainer, O-Ring, 720	1
7	363-4195	O-Ring, 0.070" x 1.739" x 1.879" Buna	1
8	89-9725	Riser Assembly, Part-circle (Includes Items 6–9)	1
8	89-9726	Riser Assembly, Full-circle (Includes Items 6–9)	1
9	89-9428	Screen	1
10	363-4102	O-Ring, Paraffin AS-568 232	1
11	89-9443	Sleeve, Riser	1
12	35-9646	Filter Assy., Metering, EL, NC	1
13	102-0081	Piston Assy., EL, Low Flow (Includes Item 12)	1
* Order Through Finished Goods Distribution System—Minneapolis			

720G Series



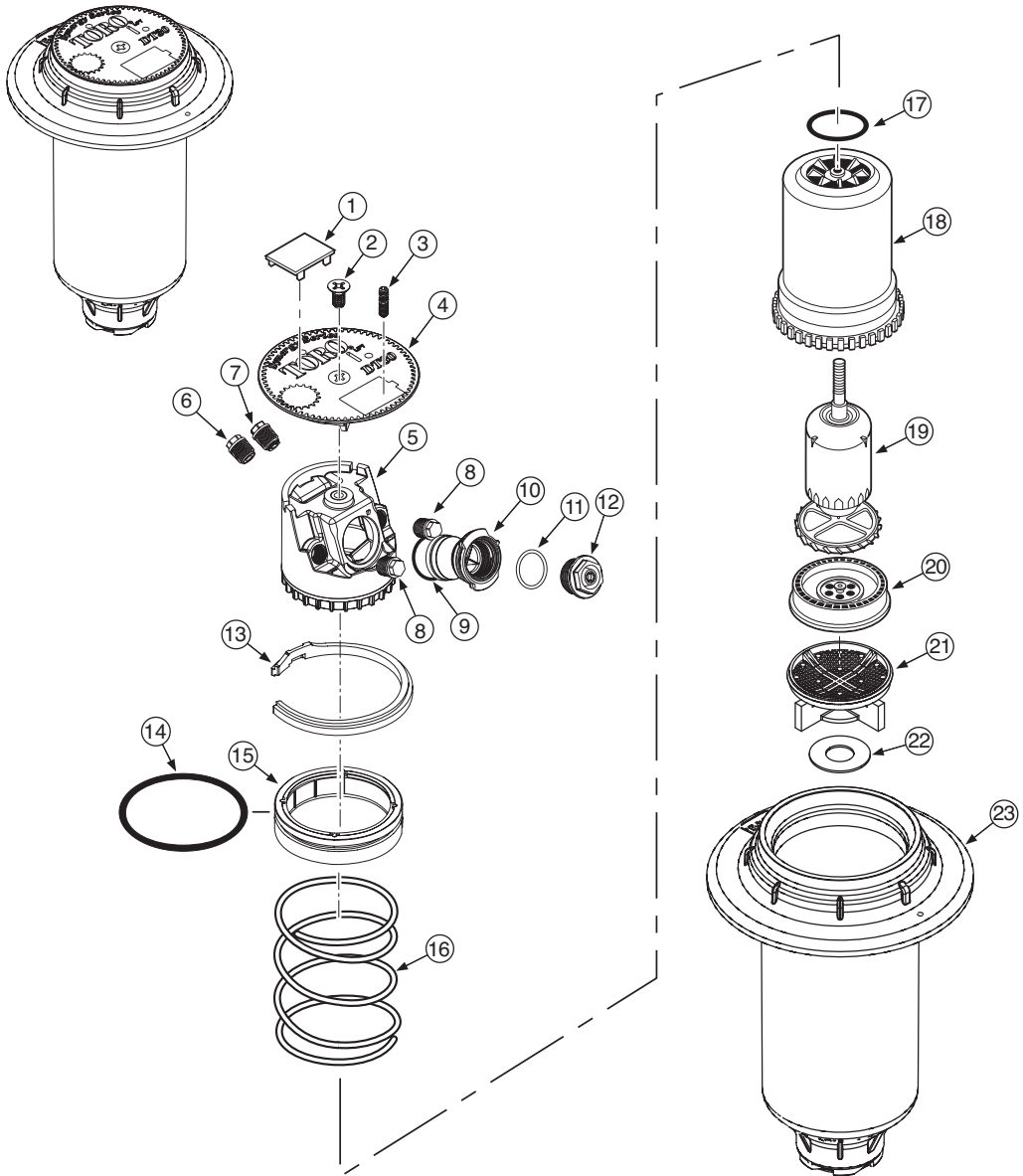
Item No.	Part No.	Description	Quantity Per Assy.
1	102-2277	Cover, Rubber Body	1
1	102-2278	Cover, Rubber Body, Effluent	1
2	89-8657	Snap Ring	1
3	363-4195	O-Ring	1
4	-----	Retainer w/Seal, (See Service Item 102-2247)	1
5	*725G	Riser Assembly (Adjustable Part Circle)	1
5	*724G	Riser Assembly (Full-Circle)	1
5	*725GE	Riser Assembly (Adjustable Part-Circle, Effluent)	1
5	*724GE	Riser Assembly (Full-Circle, Effluent)	1
6	89-9428	Screen	1
7	89-7561	Seal, Check	1
8	89-8658	Body	1
		SERVICE ITEMS	
	102-2247	Retainer w/Seal Assembly (Includes Items 3 and 4)	
		SERVICE TOOLS	
	995-83	Multi-purpose Tool	
	89-7350	Adjustment Key	
		* Order Through Finished Goods Distribution System—Minneapolis	

810G & 810GL



Item No.	Part No.	Description	Quantity
1	-----	Cap and Riser Assy. (Order Complete Sprinkler)	1
2	89-9182	Screen	1
3	89-9183	Seal, Check	1
4	102-3039	Body Assy., NPT Threads	1
4	102-3040	Body Assy., BSP Threads	1
4	102-3041	Body Assy., ACME Threads	1
5	102-2633	Tree, Nozzle, High Flow, 7-30 GPM, 810G	1
6	102-1877	Tree, Nozzle, Low Flow, 1-9 GPM, 810GL	1
	102-1303	SERVICE TOOLS Adjustment Tool	

DT34B Series Sprinkler



Model Number Information

<div style="display: flex; justify-content: space-around; align-items: center;"> DT34B X 2 XXXX X </div>					
<i>Body Inlet</i>	<i>Arc</i>	<i>Body Threads</i>	<i>Valve Type</i>	<i>Nozzles</i>	<i>Optional</i>
3—1"	4—Full Circle	0—NPT 4—ACME 5—BSP	2—Check-O-Matic	3134 3538	E—Effluent

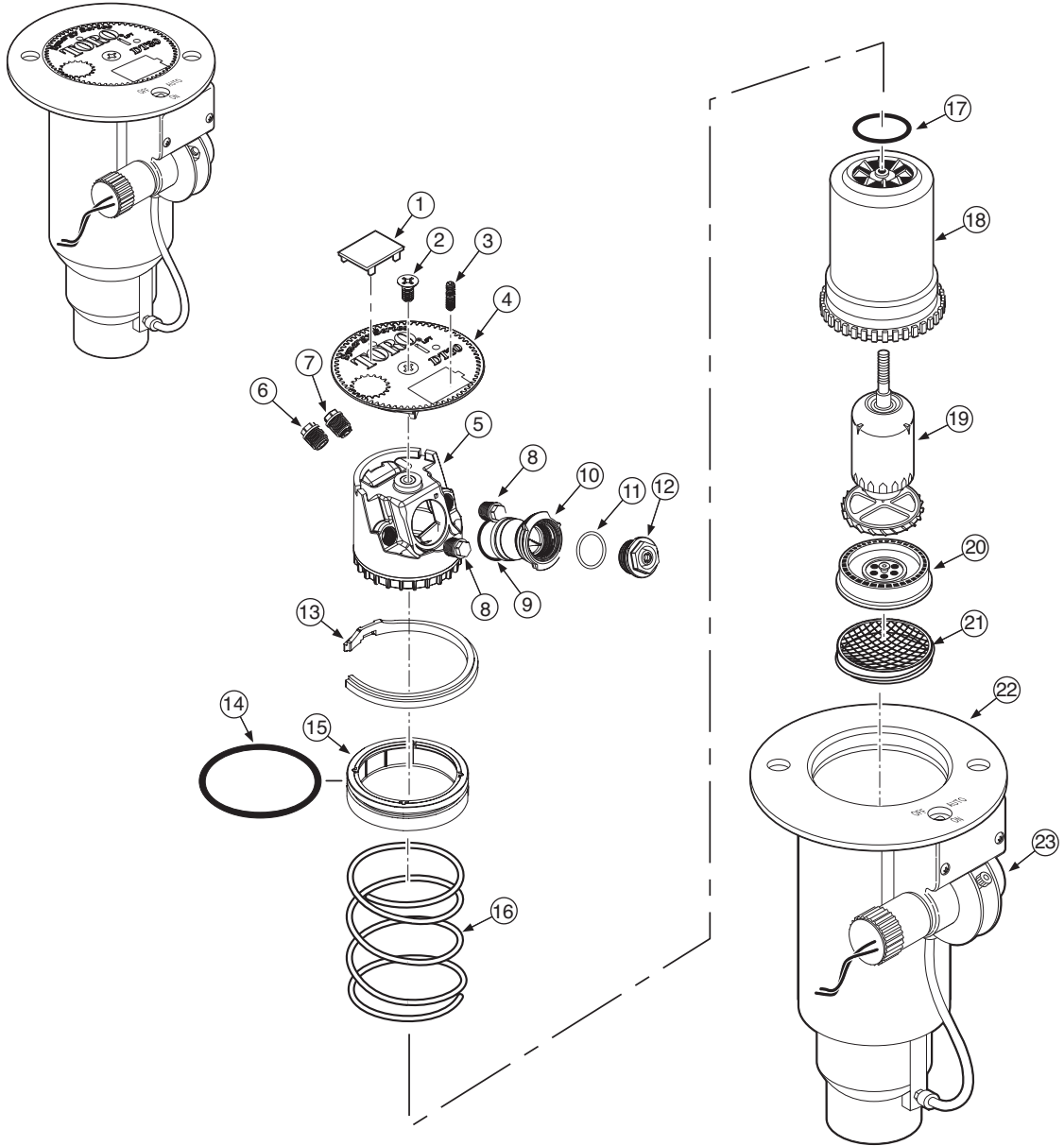
For Example:
When specifying a DT34B Series Sprinkler with ACME threads, #34 nozzle,
you would specify:

DT34B-42-3134

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

Item No.	Part No.	Description	Quantity Per Assy.
1	89-1589	Plug, Cap	1
2	102-0362	Screw, Cap	1
3	363-4839	Radius Reduction Screw	1
4	102-4752	Cap, DT34	1
4	102-5588	Cap, DT34, Effluent	1
5	102-5837	Nozzle Base Assembly	1
6	102-2925	Intermediate Nozzle, Blue (Used w/ #1 Main)	1
6	102-2926	Intermediate Nozzle, Orange (Used w/ #2 Main)	1
6	102-2928	Intermediate Nozzle, Red (Used w/ #3 Main)	1
6	102-2929	Intermediate Nozzle, Beige (Used w/ #4-5 Mains)	1
6	102-6944	Intermediate Nozzle Assy., Red w/ Stream Straightener (Used w/ #6 Main)	1
6	102-6945	Intermediate Nozzle Assy., Gray w/ Stream Straightener (Used w/ #7 & #8 Main)	1
6	102-6883	Intermediate Nozzle, Brown (Used w/ #7 & #8 main, front position on the right of main)	1
7	102-6937	Nozzle Assy. Inner, Yellow Nozzle w/ Yellow Helical Restrictor	1
8	102-4335	Nozzle Plug	2
9	102-5978	O-Ring, Nozzle Housing	1
10	102-5597	Nozzle Housing Assy. (Includes Item 9)	1
11	363-4104	O-Ring, Main Nozzle	1
12	102-0725	Nozzle, Main, #1 (Yellow)	1
12	102-7001	Nozzle, Main, #2 (Blue)	1
12	102-0727	Nozzle, Main, #3 (Brown)	1
12	102-7002	Nozzle, Main, #4 (Orange)	1
12	102-6908	Nozzle, Main, #5 (Green)	1
12	102-0730	Nozzle, Main, #6 (Gray)	1
12	102-4261	Nozzle, Main, #7 (Black)	1
12	102-4260	Nozzle, Main, #8 (Red)	1
13	89-1385	Snap Ring, Riser	1
14	363-4102	O-Ring, Body	1
15	102-0134	Retainer, Seal	1
16	102-0151	Spring, Return	1
17	363-4167	O-Ring, Nozzle Base	1
18	102-0202	Riser	1
19	102-4503	Drive Assembly, 12-Pack	1
20	102-6929	Stator Assembly, Low Flow, High Velocity, Blue (Used with #1-#4 Main Nozzles)	1
20	102-1940	Stator Assembly, Medium Flow, White (Used with #5-#8 Main Nozzles)	1
21	102-5152	Screen, Riser w/ Check Seal Holder	1
22	102-7437	Seal, Check	1
23	102-7419	Body, NPT	1
23	102-7420	Body, BSP	1
23	102-7421	Body, ACME	1
		SERVICE ITEMS	
	102-2208	Nozzle, Main, Blank, White	
	102-5672	Cap, Blank	
	102-5673	Cap, Blank, Effluent	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pak)	
		SERVICE TOOLS	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles and Plugs)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-102	Riser Hold-up Tool, Universal	

DT34 Series Sprinkler



Model Number Information

DT34						
Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
3—1"	4—Full circle	0—NPT 4—ACME 5—BSP	1—NO Hydraulic 2—Check-O-Matic 6—Electric	31 32 33 34 35 36 37	6—65 psi (4,5 Bar) 8—80 psi (5,5 Bar) 1—100 psi (6,9 Bar)	E—Effluent DL—Decoder N—Ni Plated Sol.

For Example:
When specifying a DT34 Series Sprinkler with ACME threads, #34 nozzle,
an electric valve and pressure regulation at 65 psi (4,5 Bar), you would specify:

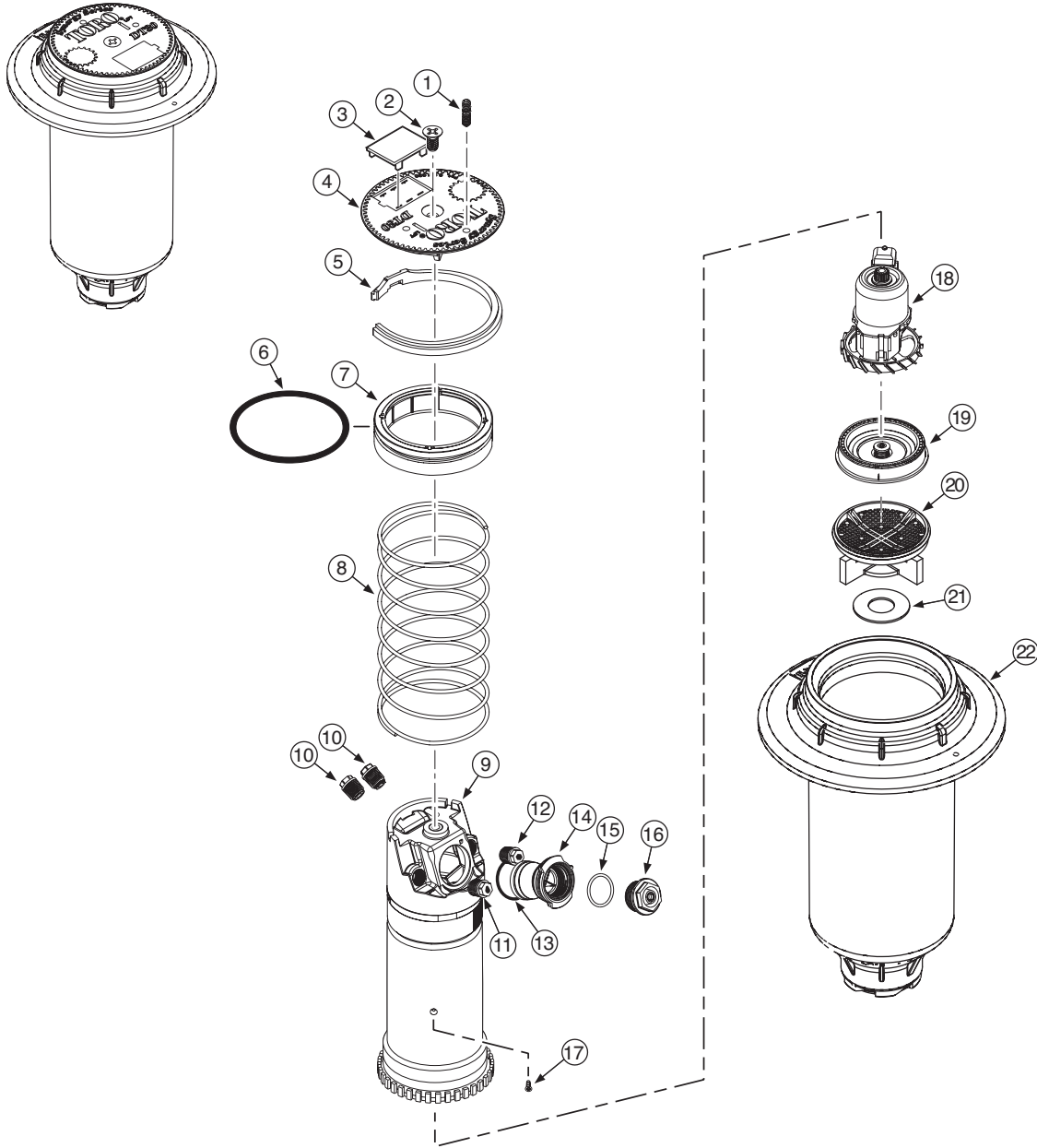
DT34-46-346

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

* Pressure Regulation available on Electric VIH models only.

Item No.	Part No.	Description	Quantity Per Assy.
1	89-1589	Plug, Cap	1
2	102-0362	Screw, Cap	1
3	363-4839	Radius Reduction Screw	1
4	102-4752	Cap, DT34	1
4	102-5588	Cap, DT34, Effluent	1
5	102-5837	Nozzle Base Assembly	1
6	102-2925	Intermediate Nozzle, Blue (Used w/ #1 Main)	1
6	102-2926	Intermediate Nozzle, Orange (Used w/ #2 Main)	1
6	102-2928	Intermediate Nozzle, Red (Used w/ #3 Main)	1
6	102-2929	Intermediate Nozzle, Beige (Used w/ #4–5 Mains)	1
6	102-6944	Intermediate Nozzle Assy., Red w/ Stream Straightener (Used w/ #6 Main)	1
6	102-6945	Intermediate Nozzle Assy., Gray w/ Stream Straightener (Used w/ #7 Main)	1
6	102-6883	Intermediate Nozzle, Brown (Used w/ #7 main, front position on the right of main)	1
7	102-6937	Nozzle Assy. Inner, Yellow Nozzle w/ Yellow Helical Restrictor	1
8	102-4335	Nozzle Plug	2
9	102-5978	O-Ring, Nozzle Housing	1
10	102-5597	Nozzle Housing Assy. (Includes Item 9)	1
11	363-4104	O-Ring, Main Nozzle	1
12	102-0725	Nozzle, Main, #1 (Yellow)	1
12	102-7001	Nozzle, Main, #2 (Blue)	1
12	102-0727	Nozzle, Main, #3 (Brown)	1
12	102-7002	Nozzle, Main, #4 (Orange)	1
12	102-6908	Nozzle, Main, #5 (Green)	1
12	102-0730	Nozzle, Main, #6 (Gray)	1
12	102-4261	Nozzle, Main, #7 (Black)	1
13	89-1385	Snap Ring, Riser	1
14	363-4102	O-Ring, Body	1
15	102-0134	Retainer, Seal	1
16	102-0151	Spring, Return	1
17	363-4167	O-Ring, Nozzle Base	1
18	102-0202	Riser	1
19	102-4503	Drive Assembly, 12-Pack	1
20	102-6929	Stator Assembly, Low Flow, High Velocity, Blue (Used with #1–#4 Main Nozzles)	1
20	102-1940	Stator Assembly, Medium Flow, White (Used with #5–#7 Main Nozzles)	1
21	102-1715	Screen, Riser	1
22	-----	Body Assembly (See p. 102)	1
23	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-2208	Nozzle, Main, Blank, White	
	102-5672	Cap, Blank	
	102-5673	Cap, Blank, Effluent	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pak)	
	*DT34-3134	Conversion, Full Circle, w/ #31, #32, #33 & #34 Nozzles	
	*DT34-3134E	Conversion, Full Circle, w/ #31, #32, #33 & #34 Nozzles and Effluent (Lavender) Cap	
	*DT34-3537	Conversion, Full Circle, w/ #35, #36 & #37 Nozzles	
	*DT34-3537E	Conversion, Full Circle, w/ #35, #36 & #37 Nozzles and Effluent (Lavender) Cap-	
		SERVICE TOOLS	
	995-08	Valve Removal Tool	
	995-76	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles and Plugs)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System—Minneapolis	

DT35B Series Sprinkler



Model Number Information

<div style="display: flex; justify-content: space-around; align-items: center;"> DT35B X 2 XXXX X </div>					
<i>Body Inlet</i>	<i>Arc</i>	<i>Body Threads</i>	<i>Valve Type</i>	<i>Nozzles</i>	<i>Optional</i>
3—1"	5—Full and Part circle	0—NPT 4—ACME 5—BSP	2—Check-O-Matic	3134 3538	E—Effluent

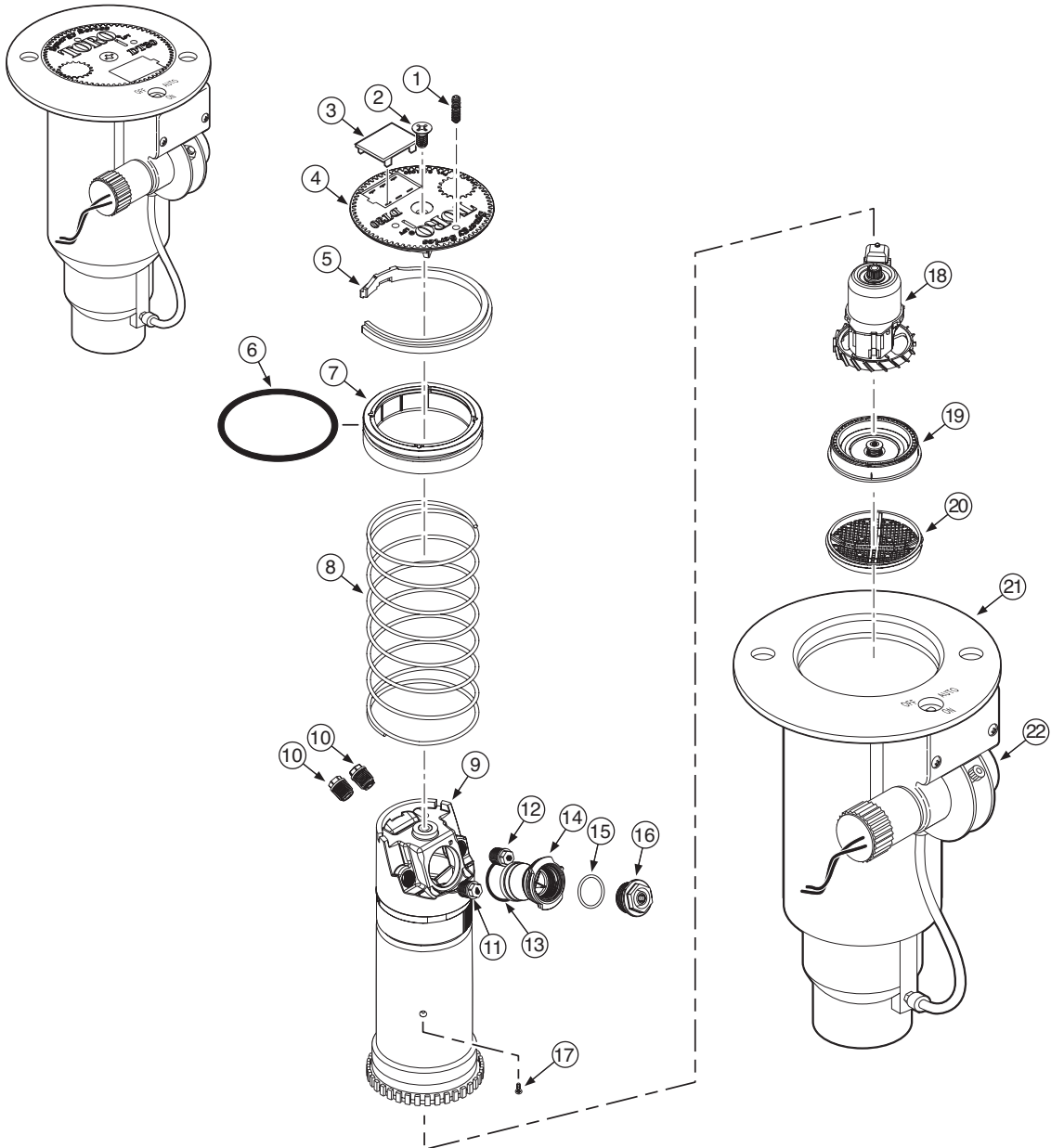
For Example:
When specifying a DT35B Series Sprinkler with ACME threads, #34 nozzle,
you would specify:

DT35B-42-3134

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

Item No.	Part No.	Description	Quantity Per Assy.
1	363-4839	Radius Reduction Screw	1
2	102-6138	Screw, Cap, Black	1
3	89-1589	Plug, Cap	1
4	102-4752	Cap, DT35	1
4	102-5588	Cap, DT35, Effluent	1
5	89-4702	Snap Ring, Riser	1
6	363-4102	O-Ring, Body	1
7	102-0134	Retainer, Seal	1
8	102-0151	Spring, Return	1
9	102-5730	Riser Assembly	1
10	102-4335	Nozzle Plug	2
11	102-5670	Nozzle Assy. Inner, Yellow w/ White Helical Restrictor (Used w/ #0-#5 Mains)	1
11	102-6531	Nozzle Assy., Inner, Green w/ White Helical Restrictor (Used w/ #6, #7 & #8 Mains)	1
12	102-6942	Intermediate Nozzle Assy., Beige w/ Stream Straightener (Used w/ #0 Main)	1
12	102-5671	Intermediate Nozzle Assy., Brown w/ Stream Straightener (Used w/ #1 Main)	1
12	102-6884	Intermediate Nozzle, Yellow (Used w/ #2-#4 Mains)	1
12	102-6885	Intermediate Nozzle, Green (Used w/ #5-#8 Mains)	1
13	102-5978	O-Ring, Nozzle Housing	1
14	102-5597	Nozzle Housing Assy. (Includes Item 13)	1
15	363-4104	O-Ring, Main Nozzle	1
16	102-2208	Nozzle, Main, #0, Blank (White)	1
16	102-6906	Nozzle, Main, #1 (Yellow)	1
16	102-0726	Nozzle, Main, #2 (Blue)	1
16	102-6907	Nozzle, Main, #3 (Brown)	1
16	102-0728	Nozzle, Main, #4 (Orange)	1
16	102-6955	Nozzle, Main, #5 (Green)	1
16	102-6935	Nozzle, Main, #6 (Gray)	1
16	102-6936	Nozzle, Main, #7 (Black)	1
16	102-4260	Nozzle, Main, #8 (Red)	1
17	363-4236	Screw, Drive	1
18	102-4504	Drive Assembly, 12-Pack	1
19	102-6929	Stator Assembly, Low Flow, High Velocity, Blue (Used with #0 Main Nozzle)	1
19	102-1939	Stator Assembly, Low Flow, Yellow (Used with #1-#4 Main Nozzles)	1
19	102-1940	Stator Assembly, Medium Flow, White (Used with #5-#8 Main Nozzles)	1
20	102-5152	Screen, Riser, w/ Check Seal Holder	1
21	102-7437	Seal, Check	1
22	102-7419	Body, NPT	1
22	102-7420	Body, BSP	1
22	102-7421	Body, ACME	1
		SERVICE ITEMS	
	102-5672	Cap, Blank	
	102-5673	Cap, Blank, Effluent	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pak)	
		SERVICE TOOLS	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles and Plugs)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-102	Riser Hold-up Tool, Universal	

DT35 Series Sprinkler



Model Number Information

Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
3—1"	5—Full and Part circle	0—NPT 4—ACME 5—BSP	1—NO Hydraulic 2—Check-O-Matic 6—Electric	30 31 32 33 34 35 36 37	6—65 psi (4,5 Bar) 8—80 psi (5,5 Bar) 1—100 psi (6,9 Bar)	E—Effluent DL—Decoder N—Ni Plated Sol.

For Example:
When specifying a DT35 Series Sprinkler with ACME threads, #34 nozzle, an electric valve and pressure regulation at 65 psi (4,5 Bar), you would specify:

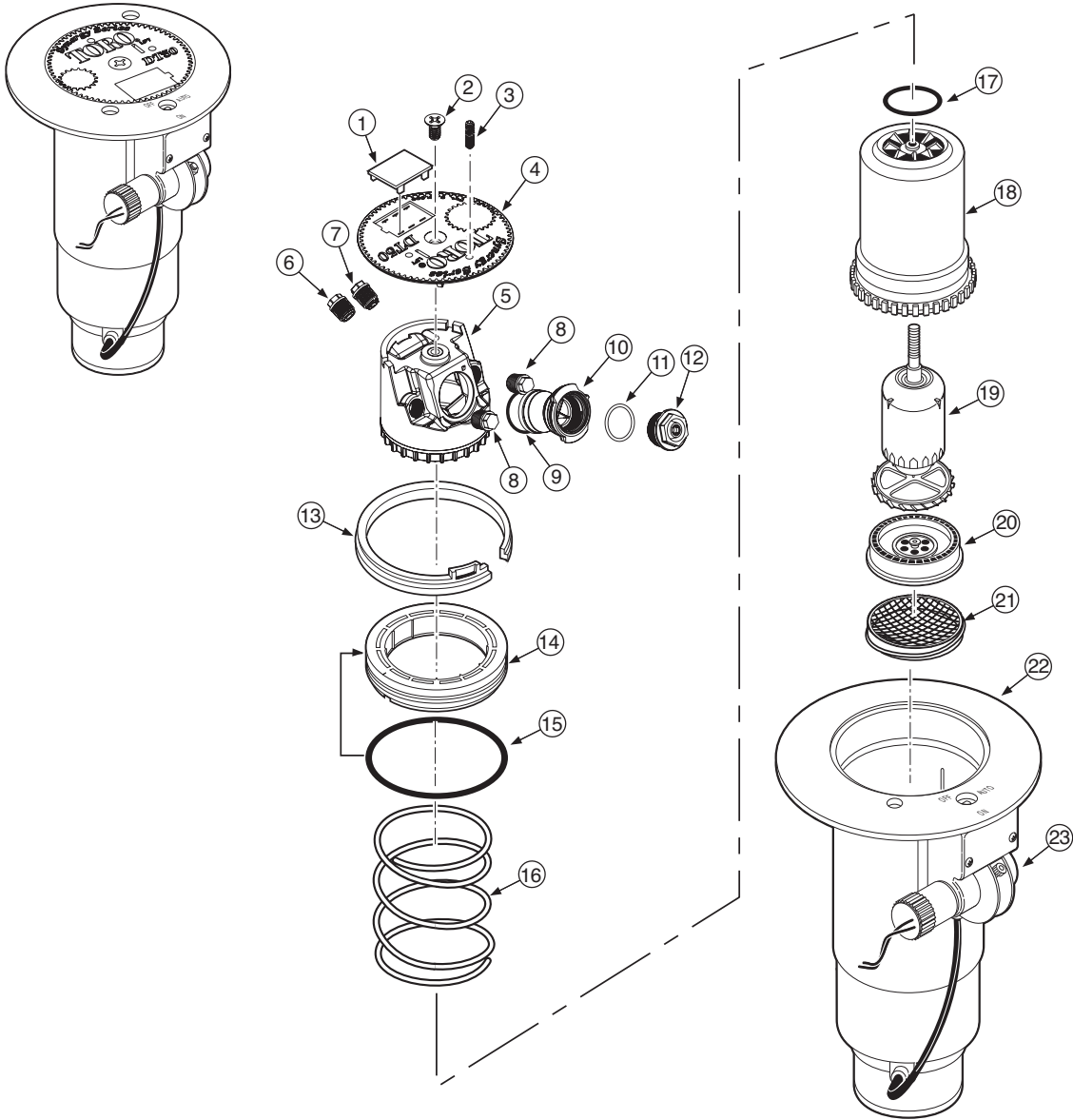
DT35-46-346

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

* Pressure Regulation available on Electric VIH models only.

Item No.	Part No.	Description	Quantity Per Assy.
1	363-4839	Radius Reduction Screw	1
2	102-6138	Screw, Cap, Black	1
3	89-1589	Plug, Cap	1
4	102-4752	Cap, DT35	1
4	102-5588	Cap, DT35, Effluent	1
5	89-4702	Snap Ring, Riser	1
6	363-4102	O-Ring, Body	1
7	102-0134	Retainer, Seal	1
8	102-0151	Spring, Return	1
9	102-5730	Riser Assembly	1
10	102-4335	Nozzle Plug	2
11	102-5670	Nozzle Assy. Inner, Yellow w/ White Helical Restrictor (Used w/ #0-#5 Mains)	1
11	102-6531	Nozzle Assy., Inner, Green w/ White Helical Restrictor (Used w/ #6 & #7 Mains)	1
12	102-6942	Intermediate Nozzle Assy., Beige w/ Stream Straightener (Used w/ #0 Main)	1
12	102-5671	Intermediate Nozzle Assy., Brown w/ Stream Straightener (Used w/ #1 Main)	1
12	102-6884	Intermediate Nozzle, Yellow (Used w/ #2-#4 Mains)	1
12	102-6885	Intermediate Nozzle, Green (Used w/ #5-#7 Mains)	1
13	102-5978	O-Ring, Nozzle Housing	1
14	102-5597	Nozzle Housing Assy. (Includes Item 13)	1
15	363-4104	O-Ring, Main Nozzle	1
16	102-2208	Nozzle, Main, #0, Blank (White)	1
16	102-6906	Nozzle, Main, #1 (Yellow)	1
16	102-0726	Nozzle, Main, #2 (Blue)	1
16	102-6907	Nozzle, Main, #3 (Brown)	1
16	102-0728	Nozzle, Main, #4 (Orange)	1
16	102-6955	Nozzle, Main, #5 (Green)	1
16	102-6935	Nozzle, Main, #6 (Gray)	1
16	102-6936	Nozzle, Main, #7 (Black)	1
17	363-4236	Screw, Drive	1
18	102-4504	Drive Assembly, 12-Pack	1
19	102-6929	Stator Assembly, Low Flow, High Velocity, Blue (Used with #0 Main Nozzle)	1
19	102-1939	Stator Assembly, Low Flow, Yellow (Used with #1-#4 Main Nozzles)	1
19	102-1940	Stator Assembly, Medium Flow, White (Used with #5-#7 Main Nozzles)	1
20	102-1715	Screen, Riser	1
21	-----	Body Assembly (See p. 102)	1
22	-----	Pilot Valve Assembly (See Pilot Valve Parts Breakout, p. 109)	1
		SERVICE ITEMS	
	102-5672	Cap, Blank	
	102-5673	Cap, Blank, Effluent	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pak)	
	*DT35-3134	Conversion, Part and Full Circle, w/ #31, #32, #33 & #34 Nozzles	
	*DT35-3134E	Conversion, Part and Full Circle, w/ #31-#34 Nozzles and Effluent (Lavender) Cap	
	*DT35-3537	Conversion, Part and Full Circle, w/ #35, #36 & #37 Nozzles	
	*DT35-3537E	Conversion, Part and Full Circle, w/ #35-37 Nozzles and Effluent (Lavender) Cap	
		SERVICE TOOLS	
	995-08	Valve Removal Tool	
	995-76	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles and Plugs)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System-Minneapolis	

DT54 Series Sprinkler



Model Number Information

Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
5—1½"	4—Full-circle	0—NPT 4—ACME 5—BSP	1—NO Hydraulic 2—Check-O-Matic 6—Electric	51 52 53 54 55 56 57 58 59	6—65 psi (4,5 Bar) 8—80 psi (5,5 Bar) 1—100 psi (6,9 Bar)	E—Effluent DL—Decoder N—Ni Plated Sol.

For Example:
When specifying a DT54 Series Sprinkler with ACME threads, #54 nozzle, an electric valve and pressure regulation at 65 psi (4,5 Bar), you would specify:

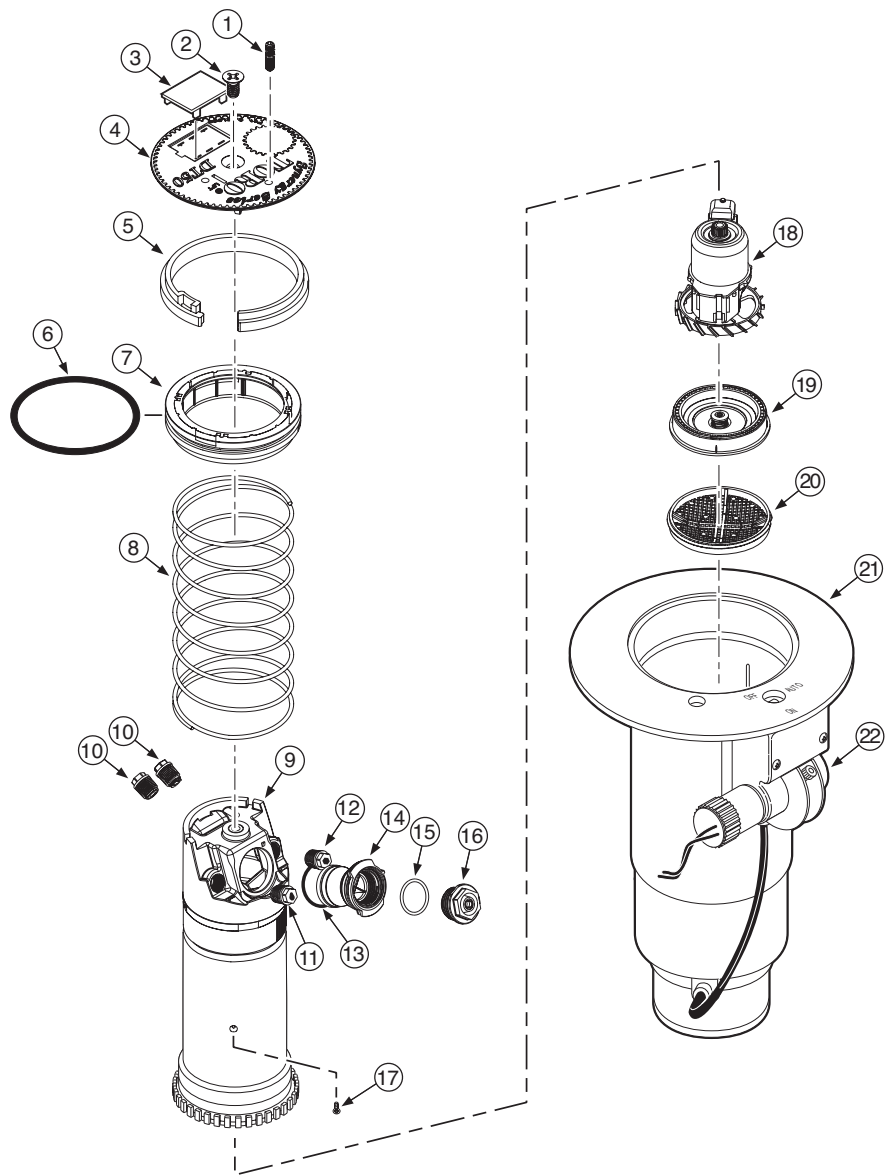
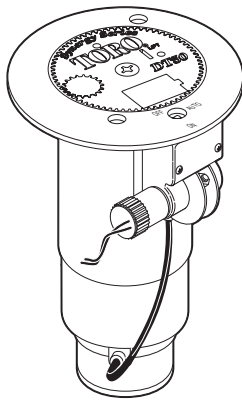
DT54-46-546

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

* Pressure Regulation available on Electric VIH models only.

Item No.	Part No.	Description	Quantity Per Assy.
1	89-1589	Plug, Cap	1
2	102-0362	Screw, Cap	1
3	363-4839	Radius Reduction Screw	1
4	102-4753	Cap, DT54	1
4	102-5589	Cap, DT54, Effluent	1
5	102-5837	Nozzle Base Assembly	1
6	102-2925	Intermediate Nozzle, Blue (Used w/ #1 Main)	1
6	102-2926	Intermediate Nozzle, Orange (Used w/ #2 Main)	1
6	102-2928	Intermediate Nozzle, Red (Used w/ #3 Main)	1
6	102-2929	Intermediate Nozzle, Beige (Used w/ #4-5 Mains)	1
6	102-6944	Intermediate Nozzle Assy., Red w/ Stream Straightener (Used w/ #6 Main)	1
6	102-6945	Intermediate Nozzle Assy., Gray w/ Stream Straightener (Used w/ #7-9 Mains)	1
6	102-6883	Intermediate Nozzle, Brown (Used w/ #7 & #8 mains, front position, right of main)	1
7	102-6937	Nozzle Assy. Inner, Yellow Nozzle w/ Yellow Helical Restrictor	1
8	102-4335	Nozzle Plug	2
9	102-5978	O-ring, Nozzle Housing	1
10	102-5597	Nozzle Housing Assy. (Includes Item 9)	1
11	363-4104	O-Ring, Main Nozzle	1
12	102-0725	Nozzle, Main, #1 (Yellow)	1
12	102-7001	Nozzle, Main, #2 (Blue)	1
12	102-0727	Nozzle, Main, #3 (Brown)	1
12	102-7002	Nozzle, Main, #4 (Orange)	1
12	102-6908	Nozzle, Main, #5 (Green)	1
12	102-0730	Nozzle, Main, #6 (Gray)	1
12	102-4261	Nozzle, Main, #7 (Black)	1
12	102-4260	Nozzle, Main, #8 (Red)	1
12	102-4259	Nozzle, Main, #9 (Beige)	1
13	35-6119	Snap Ring, Riser	1
14	102-0136	Retainer, Seal	1
15	363-4103	O-Ring, Body	1
16	102-0151	Spring, Return	1
17	363-4167	O-Ring, Nozzle Base	1
18	102-0203	Riser	1
19	102-4503	Drive Assembly, 12-Pack	1
20	102-6929	Stator Assembly, Low Flow, High Velocity, Blue (Used with #1-#4 Main Nozzles)	1
20	102-1940	Stator Assembly, Medium Flow, White (Used with #5-#8 Main Nozzles)	1
20	102-1941	Stator Assembly, High-Flow, White (Used with #9 Main Nozzles)	1
21	102-1715	Screen, Riser	1
22	-----	Body Assembly (See p. 106)	1
23	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-2208	Nozzle, Main, Blank, White	
	102-5674	Cap, Blank	
	102-5675	Cap, Blank, Effluent	
	102-0950	Adapter, Conversion 600/700 1.5" Bodies	
	*102-5011	Adapter, Conversion, 690	
	89-4735	Yardage Marker, Yellow (10 Sheets per pak)	
	*DT54-5154	Conversion, Full Circle, w/ #51, #52, #53 & #54 Nozzles	
	*DT54-5154E	Conversion, Full Circle, w/ #51, #52, #53 & #54 Nozzles and Effluent (Lavender) Cap	
	*DT54-5558	Conversion, Full Circle, w/ #55, #56, #57 & #58 Nozzles	
	*DT54-5558E	Conversion, Full Circle, w/ #55, #56, #57 & #58 Nozzles and Effluent (Lavender) Cap	
	*DT54-59	Conversion, Full Circle, w/ #59 Nozzle	
	*DT54-59E	Conversion, Full Circle, w/ #59 Nozzle and Effluent (Lavender) Cap	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-101	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles and Plugs)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System-Minneapolis	

DT55 Series Sprinkler



Model Number Information

Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
5—1½"	5—Full and Part circle	0—NPT 4—ACME 5—BSP	1—NO Hydraulic 2—Check-O-Matic 6—Electric	51 52 53 54 55 56 57 58 59	6—65 psi (4,5 Bar) 8—80 psi (5,5 Bar) 1—100 psi (6,9 Bar)	E—Effluent DL—Decoder N—Ni Plated Sol.

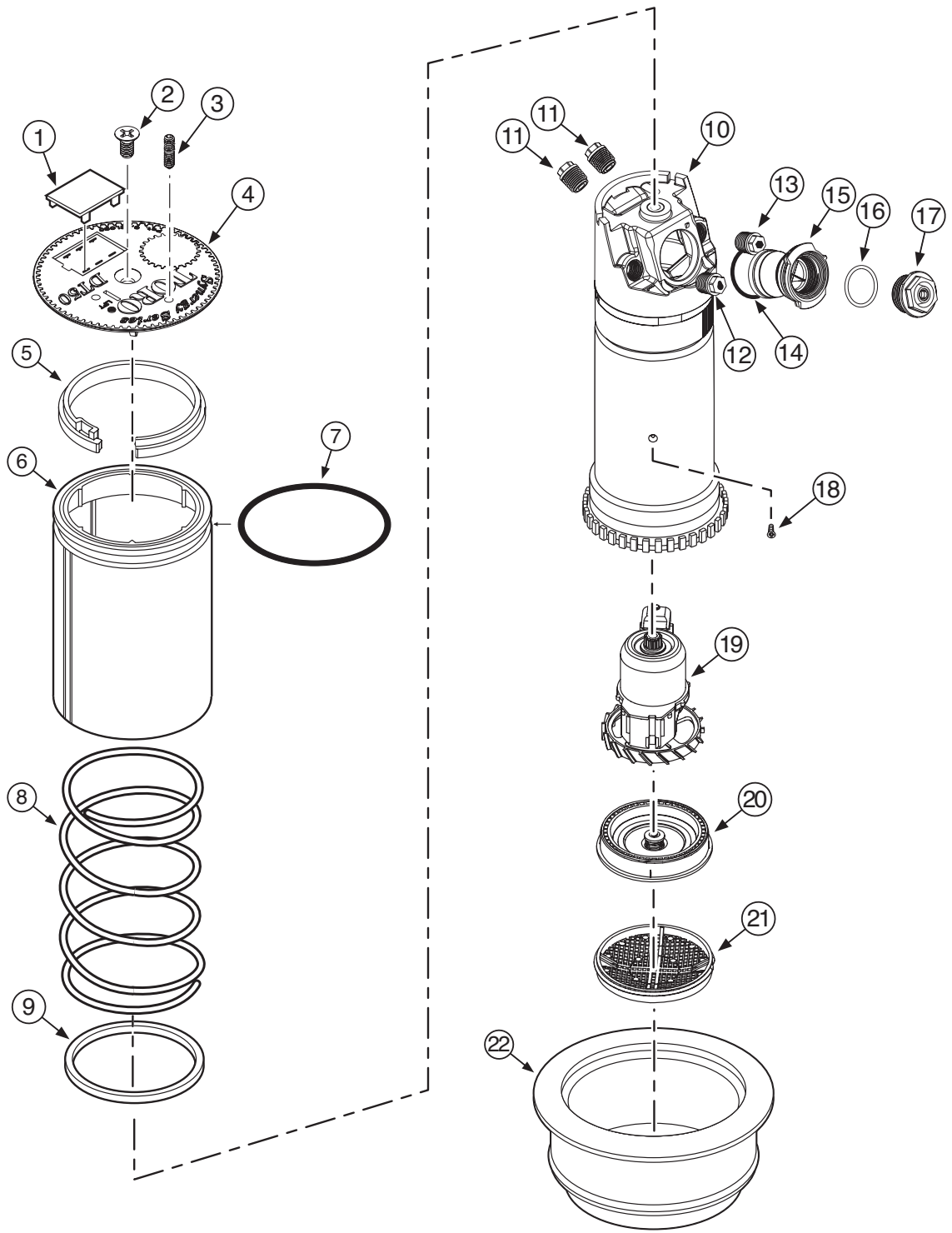
For Example:
When specifying a DT55 Series Sprinkler with ACME threads, #54 nozzle, an electric valve and pressure regulation at 65 psi (4,5 Bar), you would specify:
DT55-46-546

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

* Pressure Regulation available on Electric VIH models only.

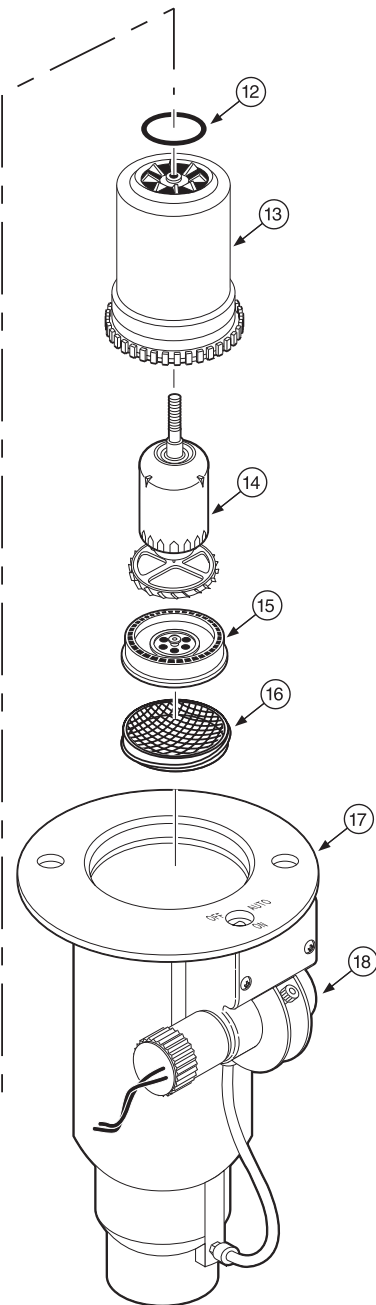
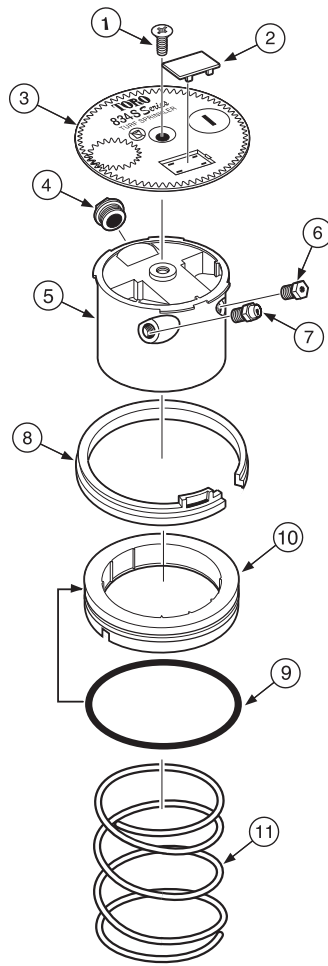
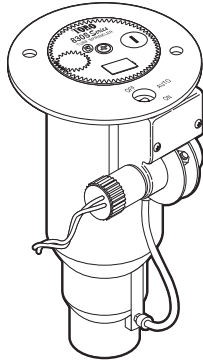
Item No.	Part No.	Description	Quantity Per Assy.
1	363-4839	Radius Reduction Screw	1
2	102-6138	Screw, Cap, Black	1
3	89-1589	Plug, Cap	1
4	102-4753	Cap, DT55	1
4	102-5589	Cap, DT55, Effluent	1
5	35-6119	Snap Ring, Riser	1
6	363-4103	O-Ring, Body	1
7	102-0136	Retainer, Seal	1
8	102-0151	Spring, Return	1
9	102-5982	Riser Assembly	1
10	102-4335	Nozzle Plug	2
11	102-5670	Nozzle Assy. Inner Assy., Yellow w/ White Helical Restrictor (Used w/ #1-#5 Mains)	1
11	102-6531	Nozzle Assy., Inner Assy., Green w/ White Helical Restrictor (Used w/ #6-#9 Mains)	1
12	102-6884	Intermediate Nozzle, Yellow (Used w/ #2, #3 & #4 Mains)	1
12	102-6885	Intermediate Nozzle, Green (Used w/ #5-#9 Mains)	1
12	102-5671	Intermediate Nozzle Assy., Brown w/ Stream Straightener (Used w/ #1 Main)	1
13	102-5978	O-Ring, Nozzle Housing	1
14	102-5597	Nozzle Housing Assy. (Includes Item 13)	1
15	363-4104	O-Ring, Main Nozzle	1
16	102-6906	Nozzle, Main, #1 (Yellow)	1
16	102-0726	Nozzle, Main, #2 (Blue)	1
16	102-6907	Nozzle, Main, #3 (Brown)	1
16	102-0728	Nozzle, Main, #4 (Orange)	1
16	102-6955	Nozzle, Main, #5 (Green)	1
16	102-6935	Nozzle, Main, #6 (Gray)	1
16	102-6936	Nozzle, Main, #7 (Black)	1
16	102-6909	Nozzle, Main, #8 (Red)	1
16	102-4259	Nozzle, Main, #9 (Beige)	1
17	363-4236	Screw, Drive	1
18	102-4504	Drive Assembly, 12-Pack	1
19	102-1939	Stator Assembly, Low Flow, Yellow (Used with #1-#4 Main Nozzles)	1
19	102-1940	Stator Assembly, Medium Flow, White (Used with #5-#8 Main Nozzles)	1
19	102-1941	Stator Assembly, High-Flow, White (Used with #9 Main Nozzles)	1
20	102-1715	Screen, Riser	1
21	-----	Body Assembly (See p. 106)	1
22	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-2208	Nozzle, Main, Blank, White	
	102-5674	Cap, Blank	
	102-5675	Cap, Blank, Effluent	
	102-0950	Adapter, Conversion, 600/700 1.5" Bodies	
	*102-5011	Adapter, Conversion, 690	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pak)	
	*DT55-5154	Conversion, Part & Full Circle, w/ #51-#54 Nozzles	
	*DT55-5154E	Conversion, Part & Full Circle, w/ #51-#54 Nozzles and Effluent (Lavender) Cap	
	*DT55-5154R	Conversion, Part & Full Circle, w/ #51-#54 Nozzles for Ribless Bodies	
	*DT55-5154RE	Conversion, Part & Full Circle, w/ #51-#54 Nozzles & Effluent Cap for Ribless Bodies	
	*DT55-5558	Conversion, Part & Full Circle, w/ #55-#58 Nozzles	
	*DT55-5558E	Conversion, Part & Full Circle, w/ #55-#58 Nozzles and Effluent (Lavender) Cap	
	*DT55-5558R	Conversion, Part & Full Circle, w/ #55-#58 Nozzles for Ribless Bodies	
	*DT55-5558RE	Conversion, Part & Full Circle, w/ #55-#58 Nozzles & Effluent Cap for Ribless Bodies	
	*DT55-59	Conversion, Part & Full Circle, w/ #59 Nozzle	
	*DT55-59E	Conversion, Part & Full Circle, w/ #59 Nozzle and Effluent (Lavender) Cap	
	*DT55-59R	Conversion, Part & Full Circle, w/ #59 Nozzle for Ribless Bodies	
	*DT55-59RE	Conversion, Part & Full Circle, w/ #59 Nozzle & Effluent Cap for Ribless Bodies	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-101	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles and Plugs)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System-Minneapolis	

DT55 Series Ribless Body, Conversion Assembly



Item No.	Part No.	Description	Quantity Per Assy.
1	89-1589	Plug, Cap	1
2	102-6138	Screw, Cap, Black	1
3	363-4839	Radius Reduction Screw	1
4	102-4753	Cap, DT55	1
4	102-5589	Cap, DT55, Effluent	1
5	35-6119	Snap Ring, Riser	1
6	89-7568	Sleeve, Retainer	1
7	363-4103	O-Ring	1
8	102-0151	Spring, Return	1
9	89-7569	Seal, Riser	1
10	102-5730	Riser Assembly	1
11	102-4335	Nozzle Plug	2
12	102-5670	Nozzle Assy. Inner, Yellow w/ White Helical Restrictor (Used w/ #1-#5 Mains)	1
12	102-6531	Nozzle Assy., Inner, Green w/ White Helical Restrictor (Used w/ #6-#9 Mains)	1
13	102-5671	Intermediate Nozzle Assy., Brown w/ Stream Straightener (Used w/ #1 Main)	1
13	102-6884	Intermediate Nozzle, Yellow (Used w/ #2-#4 Mains)	1
13	102-6885	Intermediate Nozzle, Green (Used w/ #5-#9 Mains)	1
14	102-5978	O-Ring, Nozzle Housing	1
15	102-5597	Nozzle Housing Assy. (Includes Item 14)	1
16	363-4104	O-Ring, Main Nozzle	1
17	102-6906	Nozzle, Main, #1 (Yellow)	1
17	102-0726	Nozzle, Main, #2 (Blue)	1
17	102-6907	Nozzle, Main, #3 (Brown)	1
17	102-0728	Nozzle, Main, #4 (Orange)	1
17	102-6955	Nozzle, Main, #5 (Green)	1
17	102-6935	Nozzle, Main, #6 (Gray)	1
17	102-6936	Nozzle, Main, #7 (Black)	1
17	102-6909	Nozzle, Main, #8 (Red)	1
17	102-4259	Nozzle, Main, #9 (Beige)	1
18	363-4236	Screw, Drive	1
19	102-4504	Drive Assembly, 12-Pack	1
20	102-1939	Stator Assembly, Low Flow, Yellow (Used with #1-#4 Main Nozzles)	1
20	102-1940	Stator Assembly, Medium Flow, White (Used with #5-#8 Main Nozzles)	1
20	102-1941	Stator Assembly, High Flow, White (Used with #9 Main Nozzle)	1
21	102-1715	Screen, Riser	1
22	102-0950	Adapter, Conversion	1
		SERVICE ITEMS	
	102-5674	Cap, Blank	
	102-5675	Cap, Blank, Effluent	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pak)	
	*DT55-5154R	Conversion, Part & Full Circle, w/ #51-#54 Nozzles for Ribless Bodies	
	*DT55-5154RE	Conversion, Part & Full Circle, w/ #51-#54 Nozzles & Effluent Cap for Ribless Bodies	
	*DT55-5558R	Conversion, Part & Full Circle, w/ #55-#58 Nozzles for Ribless Bodies	
	*DT55-5558RE	Conversion, Part & Full Circle, w/ #55-#58 Nozzles & Effluent Cap for Ribless Bodies	
	*DT55-59R	Conversion, Part & Full Circle, w/ #59 Nozzles for Ribless Bodies	
	*DT55-59RE	Conversion, Part & Full Circle, w/ #59 Nozzles & Effluent Cap for Ribless Bodies	
		SERVICE TOOLS	
	995-08	Valve Removal Tool	
	995-76	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles and Plugs)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System-Minneapolis	

834S Series Sprinkler, Pre-August 2007



Model Number Information

834S-XX-3XX-X

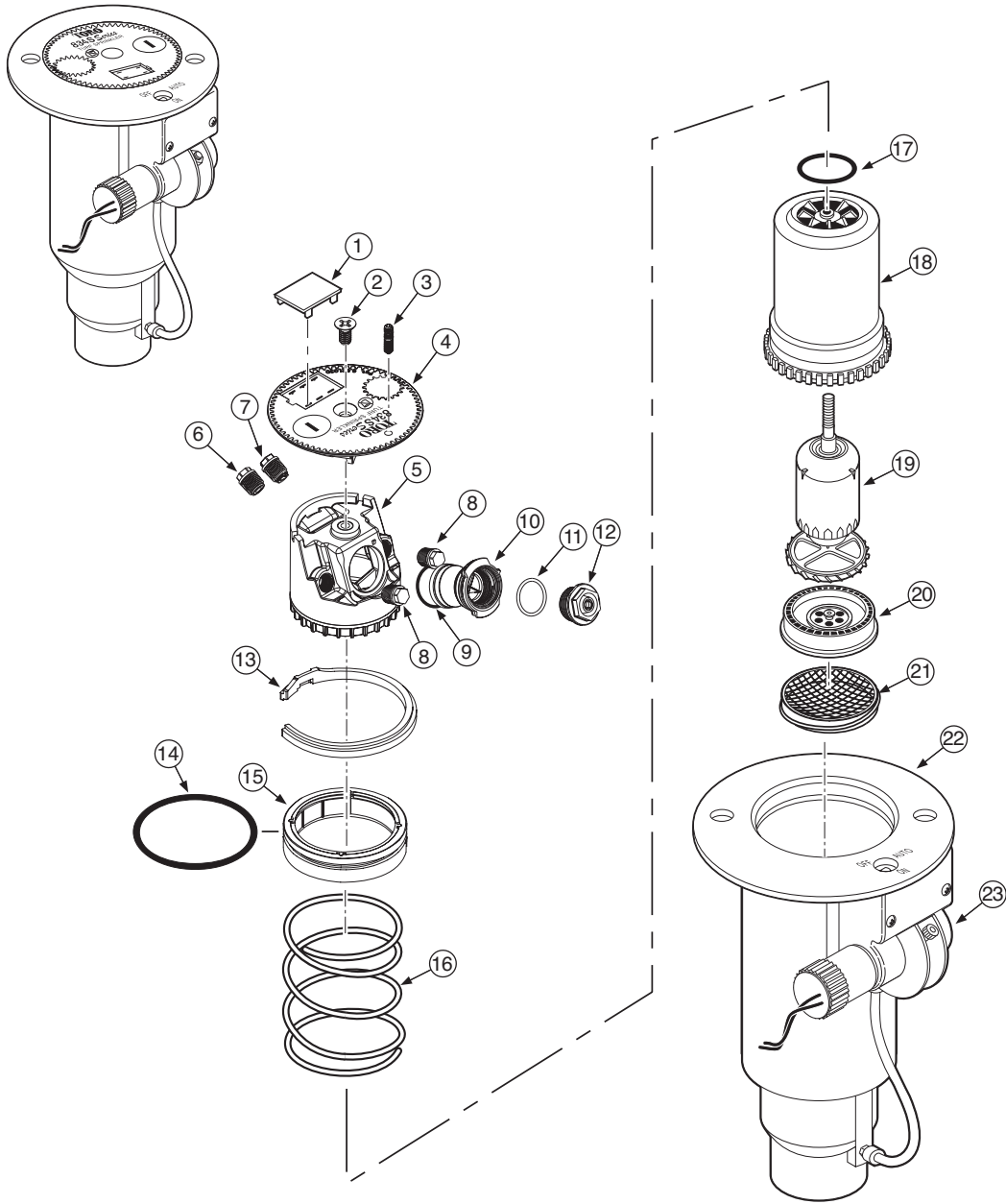
<p>Arc</p> <p>4 = Full-circle</p>	<p>Body Threads</p> <p>0 = NPT 4 = ACME 5 = BSP</p>	<p>Valve</p> <p>1 = NO Valve-In-Head 2 = Check-O-Matic 6 = Electric Valve-In-Head</p>	<p>Nozzle</p> <p>1 (Yellow) 2 (Blue) 3 (Brown) 4 (Orange) 5 (Green) 6 (Gray) 7 (Black)</p>	<p>Pressure Regulation*</p> <p>6 = 65 PSI 8 = 80 PSI 1 = 100 PS</p>	<p>E = Effluent DL = Decoder N = Nickel Plated</p>
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* Pressure Regulation available on Electric VIH models only.

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

Item No.	Part No.	Description	Quantity Per Assy.
1	102-0362	Screw, Cap	1
2	89-1589	Plug, Cap	1
3	102-0230	Cap, 834S	1
3	102-1703	Cap, 834S, Effluent	1
4	102-0725	Nozzle, Main, #1 (Yellow)	1
4	102-0726	Nozzle, Main, #2 (Blue)	1
4	102-0727	Nozzle, Main, #3 (Brown)	1
4	102-0728	Nozzle, Main, #4 (Orange)	1
4	102-0729	Nozzle, Main, #5 (Green)	1
4	102-0730	Nozzle, Main, #6 (Gray)	1
4	102-4261	Nozzle, Main, #7 (Black)	1
5	102-7406	Nozzle Base Kit, Dual Trajectory (Includes Items 1–5, 7–10 on 834S Present Model)	1
6	102-2105	Nozzle Assy. Intermediate, Blue (Used with #1 Yellow & #2 Blue Main Nozzles)	1
6	102-2106	Nozzle Assy. Intermediate, Orange (Used w/#3 Brown & #4 Orange Main Nozzles)	1
6	102-2107	Nozzle Assy. Intermediate, Gray (Used with #5 Green & #6 Gray Main Nozzles)	1
6	102-2981	Nozzle Assy. Intermediate, Red (Used with #7 Black Main Nozzle)	1
7	102-2980	Nozzle Assy. Inner, Red (with Restrictor)	1
8	89-1385	Snap Ring, Riser	1
9	363-4102	O-Ring, Body	1
10	102-0134	Retainer, Seal	1
11	102-0151	Spring, Return	1
12	363-4167	O-Ring, Nozzle Base	1
13	102-0202	Riser	1
14	102-4503	Drive Assembly, 12-Pack	1
15	102-1939	Stator Assembly, Low Flow, Yellow (Used with #1–#4 Main Nozzles)	1
15	102-1940	Stator Assembly, Medium Flow, White (Used with #5–#7 Main Nozzles)	1
16	102-1715	Screen, Riser	1
17	-----	Body Assembly (See p. 102)	1
18	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-2208	Nozzle, Main, Blank	
	102-0840	Nozzle, Inner/Intermediate, Blank, Red	
	102-2041	Restrictor, Yellow, Inner Nozzle	
	102-4337	Stream Straightener, Intermediate Nozzle	
	102-2502	Cap, 834S, w/o Graphics	
	102-2503	Cap, 834S, w/o Graphics, Effluent	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pack)	
	834S-3134	Conversion Assembly, 834S w/ #31, 32, 33, 34 Nozzles, Dual Trajectory	
	834S-3134E	Conversion Assembly, 834S w/ #31, 32, 33, 34 Nozzles, Effluent, Dual Trajectory	
	834S-3537	Conversion Assembly, 834S w/ #35, 36, 37 Nozzles, Dual Trajectory	
	834S-3537E	Conversion Assembly, 834S w/ #35, 36, 37 Nozzles, Effluent, Dual Trajectory	
		SERVICE TOOLS	
	995-08	Valve Removal Tool	
	995-15	Selector Tool (Flag Key)	
	995-76	Valve Insertion Tool	
	995-79	Nut Driver, 7/16" (For Inner & Intermediate Nozzles)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System—Minneapolis	

834S Series Sprinkler – August 2007–Present



Model Number Information

Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
3—1"	4—Full circle	0—NPT 4—ACME 5—BSP	1—NO Hydraulic 2—Check-O-Matic 6—Electric	31 32 33 34 35 36 37	6—65 psi (4,5 Bar) 8—80 psi (5,5 Bar) 1—100 psi (6,9 Bar)	E—Effluent DL—Decoder N—Ni Plated Sol.

For Example:
When specifying a 834S Series Sprinkler with ACME threads, #34 nozzle, an electric valve and pressure regulation at 65 psi (4,5 Bar), you would specify:

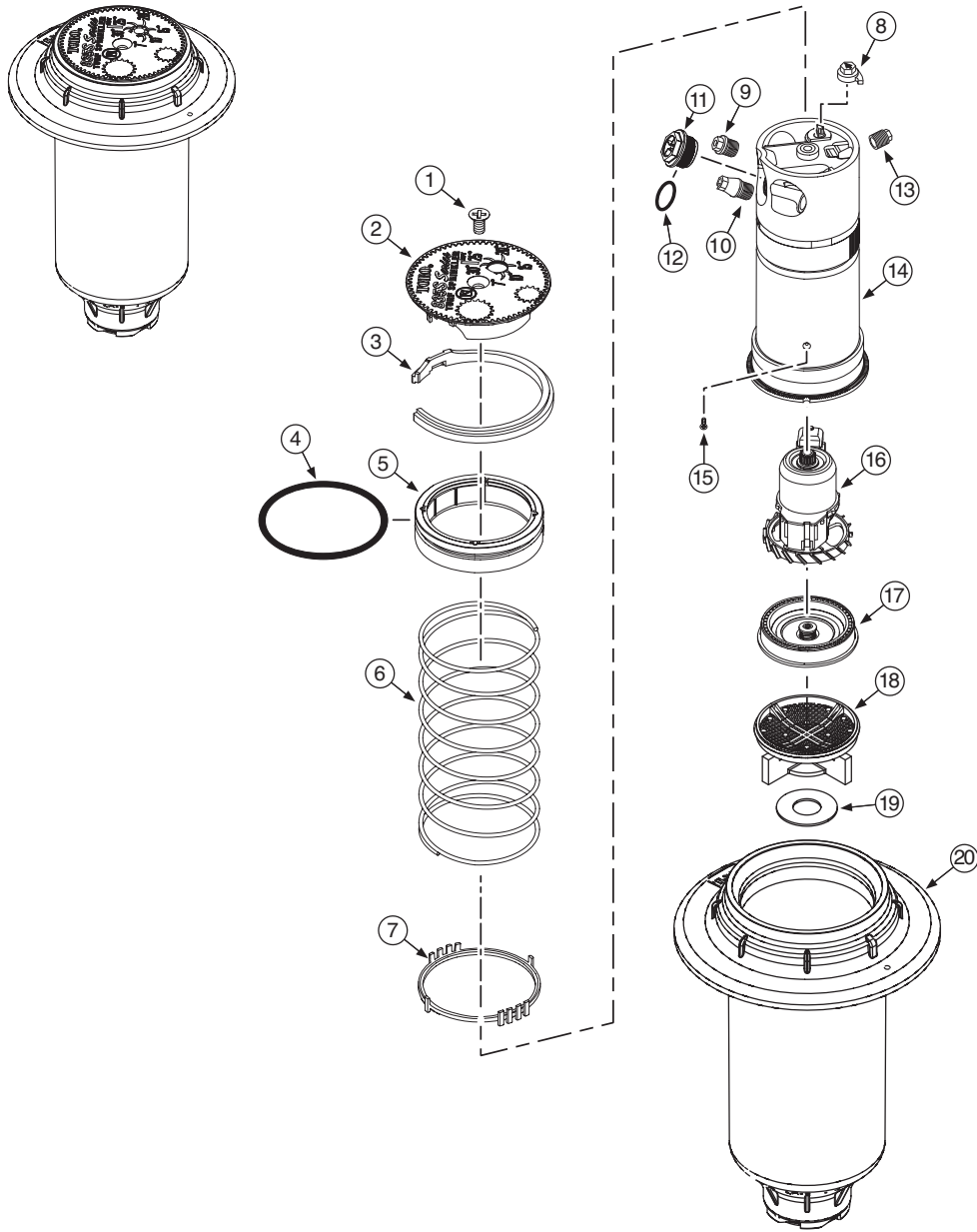
834S-46-346

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

* Pressure Regulation available on Electric VIH models only.

Item No.	Part No.	Description	Quantity Per Assy.
1	89-1589	Plug, Cap	1
2	102-0362	Screw, Cap	1
3	363-4839	Radius Reduction Screw	1
4	102-5586	Cap, 834S	1
4	102-5590	Cap, 834S, Effluent	1
5	102-5837	Nozzle Base Assembly	1
6	102-2925	Intermediate Nozzle, Blue (Used w/ #1 Main)	1
6	102-2926	Intermediate Nozzle, Orange (Used w/ #2 Main)	1
6	102-2928	Intermediate Nozzle, Red (Used w/ #3 Main)	1
6	102-2929	Intermediate Nozzle, Beige (Used w/ #4–5 Mains)	1
6	102-6944	Intermediate Nozzle Assy., Red w/ Stream Straightener (Used w/ #6 Main)	1
6	102-6945	Intermediate Nozzle Assy., Gray w/ Stream Straightener (Used w/ #7 Main)	1
6	102-6883	Intermediate Nozzle, Brown (Used w/ #7 main, front position on the right of main)	1
7	102-6937	Nozzle Assy. Inner, Yellow Nozzle w/ Yellow Helical Restrictor	1
8	102-4335	Nozzle Plug	2
9	102-5978	O-Ring, Nozzle Housing	1
10	102-5597	Nozzle Housing Assy. (Includes Item 9)	1
11	363-4104	O-Ring, Main Nozzle	1
12	102-0725	Nozzle, Main, #1 (Yellow)	1
12	102-7001	Nozzle, Main, #2 (Blue)	1
12	102-0727	Nozzle, Main, #3 (Brown)	1
12	102-7002	Nozzle, Main, #4 (Orange)	1
12	102-6908	Nozzle, Main, #5 (Green)	1
12	102-0730	Nozzle, Main, #6 (Gray)	1
12	102-4261	Nozzle, Main, #7 (Black)	1
13	89-1385	Snap Ring, Riser	1
14	363-4102	O-Ring, Body	1
15	102-0134	Retainer, Seal	1
16	102-0151	Spring, Return	1
17	363-4167	O-Ring, Nozzle Base	1
18	102-0202	Riser	1
19	102-4503	Drive Assembly, 12-Pack	1
20	102-6929	Stator Assembly, Low Flow, High Velocity, Blue (Used with #1–#4 Main Nozzles)	1
20	102-1940	Stator Assembly, Medium Flow, White (Used with #5–#7 Main Nozzles)	1
21	102-1715	Screen, Riser	1
22	-----	Body Assembly (See p. 102)	1
23	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-2208	Nozzle, Main, Blank, White	
	102-5672	Cap, Blank	
	102-5673	Cap, Blank, Effluent	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pak)	
	*834S-3134	Conversion, Full Circle, w/ #31, #32, #33 & #34 Nozzles	
	*834S-3134E	Conversion, Full Circle, w/ #31, #32, #33 & #34 Nozzles and Effluent (Lavender) Cap	
	*834S-3537	Conversion, Full Circle, w/ #35, #36 & #37 Nozzles	
	*834S-3537E	Conversion, Full Circle, w/ #35, #36 & #37 Nozzles and Effluent (Lavender) Cap-	
		SERVICE TOOLS	
	995-08	Valve Removal Tool	
	995-76	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles and Plugs)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System—Minneapolis	

835B Series Sprinkler



Model Number Information

		835B	X	2	XXXX	X
<i>Body Inlet</i>	<i>Arc</i>	<i>Body Threads</i>	<i>Valve Type</i>	<i>Nozzles</i>	<i>Optional</i>	
3—1"	5—Full and Part circle	0—NPT 4—ACME 5—BSP	2—Check-O-Matic	3134 3538	E—Effluent	

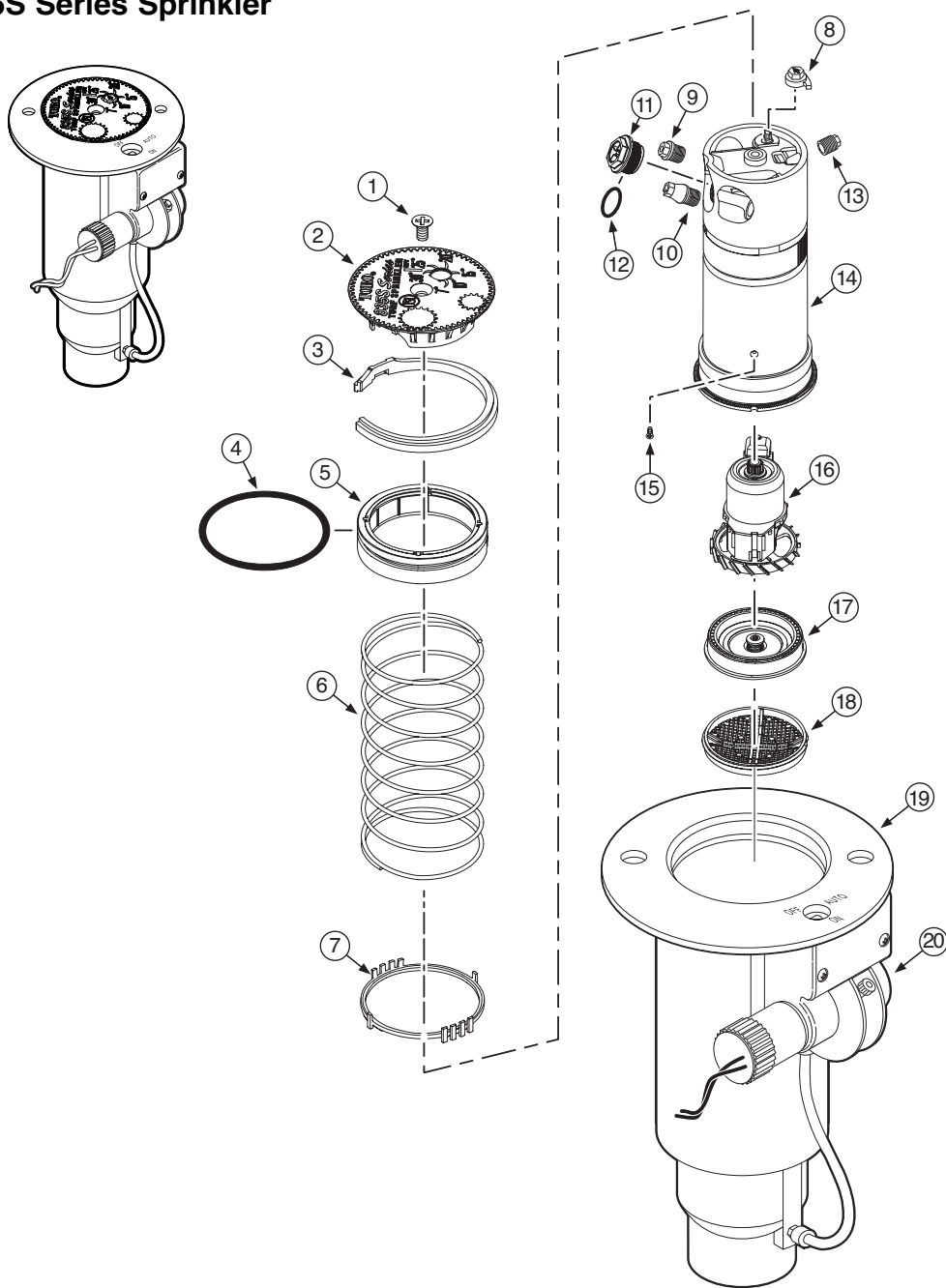
For Example:
When specifying a DT35B Series Sprinkler with ACME threads, #34 nozzle,
you would specify:

835B-42-3134

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

Item No.	Part No.	Description	Quantity Per Assy.
1	102-6138	Screw, Cap, Black	1
2	102-2295	Cap, 835S	1
2	102-2493	Cap, Effluent, 835S	1
3	89-1385	Snap Ring, 1"	1
4	363-4102	O-Ring, 1"	1
5	102-0134	Retainer Seal, 1"	1
6	102-0151	Spring	1
7	102-2619	Ratchet Ring, 1"	1
8	102-5971	Trajectory Adjuster	1
9	102-2925	Intermediate Nozzle, Blue (Use with #1, #5, #6 & #8 Main Nozzles)	1
9	102-2926	Intermediate Nozzle, Orange (Use with #3, #4 & #7 Main Nozzles)	1
9	102-2928	Intermediate Nozzle, Red (Use with #2 Main Nozzle)	1
10	102-2910	Nozzle Assy., Inner	1
11	102-2208	Nozzle, Main, #0, White, Blank	1
11	102-4587	Nozzle, Main, #1, Yellow	1
11	102-4588	Nozzle, Main, #2, Blue	1
11	102-4589	Nozzle, Main, #3, Brown	1
11	102-0728	Nozzle, Main, #4, Orange	1
11	102-0729	Nozzle, Main, #5, Green	1
11	102-0730	Nozzle, Main, #6, Gray	1
11	102-4261	Nozzle, Main, #7, Black	1
11	102-4260	Nozzle, Main, #8, Red	1
12	363-4104	O-Ring, Main Nozzle	1
13	102-4335	Plug, Nozzle, Back	1
14	102-2892	Riser Assy.	1
15	363-4236	Screw, Drive	1
16	102-4504	Drive Assy., 12-Pack	1
17	102-6929	Stator Assy, Low Flow, High Velocity, Blue (Use with #0 Main Nozzle)	1
17	102-1939	Stator, Low (Use with Main Nozzles 1-4)	1
17	102-1940	Stator, Medium (Use with Main Nozzles 5-8)	1
18	102-5152	Screen, Riser w/ Check Seal Holder	1
19	102-7437	Seal, Check	1
20	102-7419	Body, NPT	1
20	102-7420	Body, BSP	1
20	102-7421	Body, ACME	1
		SERVICE ITEMS	
	102-2041	Restrictor, Yellow, Inner Nozzle	
	102-4337	Stream Straightener, Intermediate Nozzle	
	102-2494	Cap, Blank, 835S	
	102-2495	Cap, Blank, Effluent, 835S	
		SERVICE TOOLS	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Intermediate, Inner & Back Nozzles)	
	995-102	Riser Hold-up Tool, Universal	

835S Series Sprinkler



Model Number Information

835S-XX-3XX-X

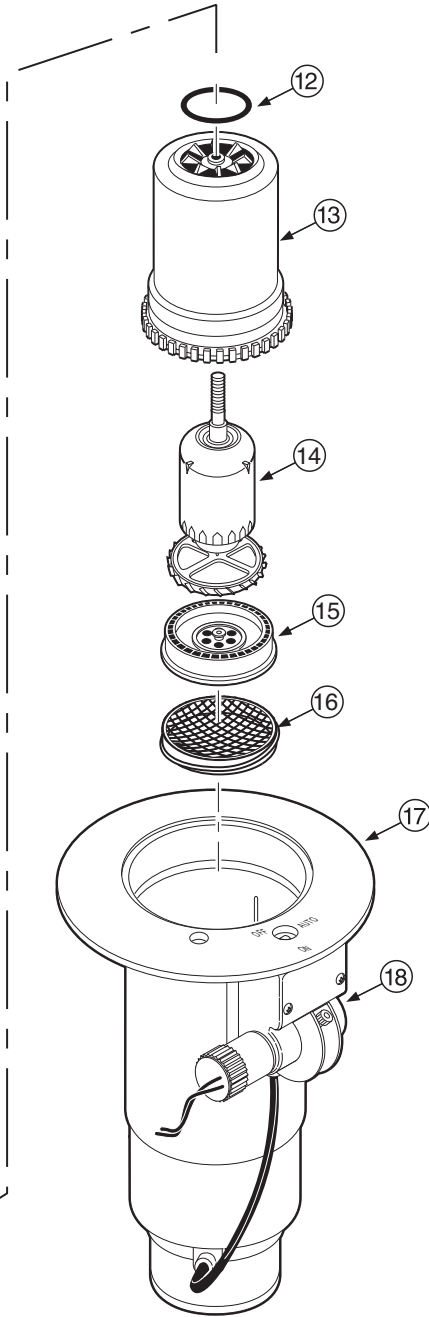
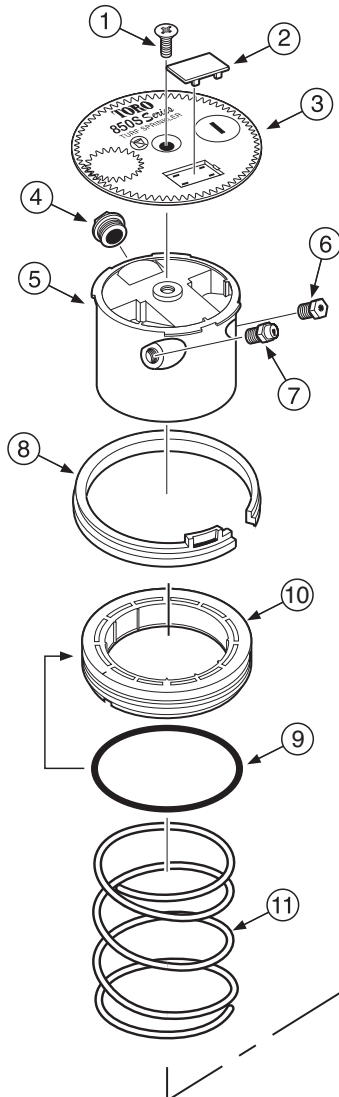
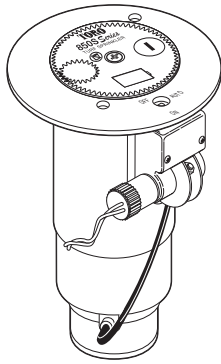
Arc	Body Threads	Valve	Nozzle	Pressure Regulation*	E = Effluent DL = Decoder N = Nickel Plated
5 = Adj. Part Circle/Full Circle	0 = NPT 4 = ACME 5 = BSP	1 = NO Valve-In-Head 2 = Check-O-Matic 6 = Electric Valve-In-Head	1 (Yellow) 2 (Blue) 3 (Brown) 4 (Orange) 5 (Green) 6 (Gray) 7 (Black)	5 = 50 PSI 6 = 65 PSI 8 = 80 PSI 1 = 100 PSI	

* Pressure Regulation available on Electric VIH models only.

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

Item No.	Part No.	Description	Quantity Per Assy.
1	102-6138	Screw, Cap, Black	1
2	102-2295	Cap, 835S	1
2	102-2493	Cap, Effluent, 835S	1
3	89-1385	Snap Ring, 1"	1
4	363-4102	O-Ring, 1"	1
5	102-0134	Retainer Seal, 1"	1
6	102-0151	Spring	1
7	102-2619	Ratchet Ring, 1"	1
8	102-5971	Trajectory Adjuster	1
9	102-2925	Intermediate Nozzle, Blue (Use with #1, #5 & #6 Main Nozzles)	1
9	102-2926	Intermediate Nozzle, Orange (Use with #3, #4 & #7 Main Nozzles)	1
9	102-2928	Intermediate Nozzle, Red (Use with #2 Main Nozzle)	1
10	102-2910	Nozzle Assy., Inner	1
11	102-2208	Nozzle, Main, #0, White, Blank	
11	102-4587	Nozzle, Main, #1, Yellow	1
11	102-4588	Nozzle, Main, #2, Blue	1
11	102-4589	Nozzle, Main, #3, Brown	1
11	102-0728	Nozzle, Main, #4, Orange	1
11	102-0729	Nozzle, Main, #5, Green	1
11	102-0730	Nozzle, Main, #6, Gray	1
11	102-4261	Nozzle, Main, #7, Black	1
12	363-4104	O-Ring, Main Nozzle	1
13	102-4335	Plug, Nozzle, Back	1
14	102-2892	Riser Assy.	1
15	363-4236	Screw, Drive	1
16	102-4504	Drive Assy., 12-Pack	1
17	102-6929	Stator, Low Flow, High Velocity (Use with Main Nozzle #0)	
17	102-1939	Stator, Low (Use with Main Nozzles 1-4)	1
17	102-1940	Stator, Medium (Use with Main Nozzles 5-7)	1
18	102-1715	Screen	1
19	-----	Body Assembly (See p. 102)	1
20	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-2041	Restrictor, Yellow, Inner Nozzle	
	102-4337	Stream Straightener, Intermediate Nozzle	
	102-2494	Cap, Blank, 835S	
	102-2495	Cap, Blank, Effluent, 835S	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pack)	
	835S-3134	Conversion Assy., 835S w/ #31, 32, 33, 34 Nozzles	
	835S-3134E	Conversion Assy., 835S w/ #31, 32, 33, 34 Nozzles, Effluent	
	835S-3537	Conversion Assy., 835S w/ #35, 36, 37 Nozzles	
	835S-3537E	Conversion Assy., 835S w/ #35, 36, 37 Nozzles, Effluent	
		SERVICE TOOLS	
	995-08	Valve Removal Tool	
	995-15	Selector Tool (Flag Key)	
	995-76	Valve Insertion Tool	
	995-79	Nut Driver, 7/16" (For Inner Nozzle)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Intermediate, Inner & Back Nozzles)	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	

854S Series Sprinkler, Pre-August 2007



Model Number Information

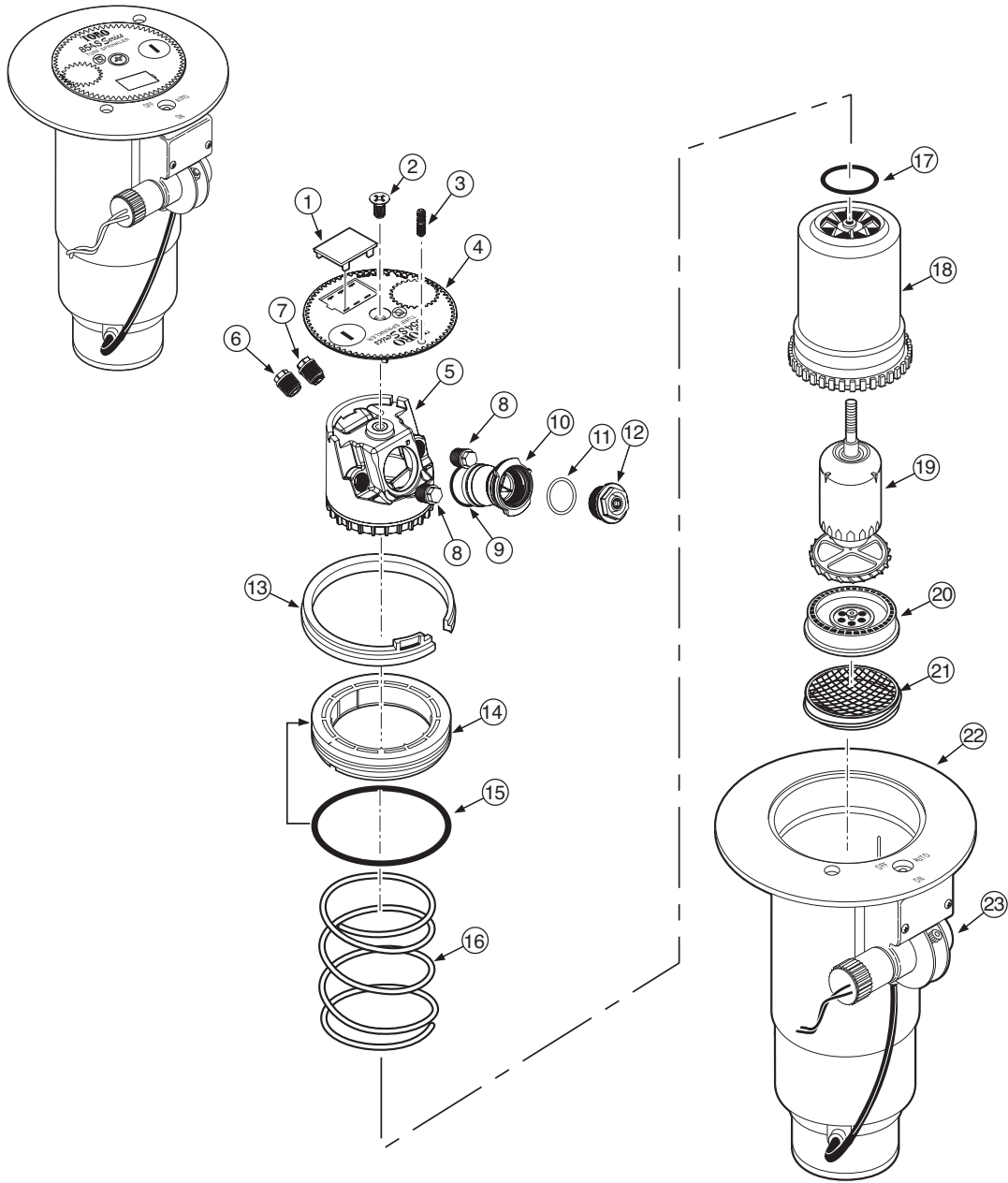
854S-XX-5XX-X

<p>Arc</p> <p>4 = Full-circle</p>	<p>Body Threads</p> <p>0 = NPT 4 = ACME 5 = BSP</p>	<p>Valve</p> <p>1 = NO Valve-In-Head 2 = Check-O-Matic 6 = Electric Valve-In-Head</p>	<p>Nozzle</p> <p>1 (Yellow) 2 (Blue) 3 (Brown) 4 (Orange) 5 (Green) 6 (Gray) 7 (Black) 8 (Red) 9 (Beige)</p>	<p>Pressure Regulation*</p> <p>6 = 65 PS 8 = 80 PSI 1 = 100 PSI</p>	<p>E = Effluent DL = Decoder N = Nickel Plated</p>
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* Pressure Regulation available on Electric VIH models only.

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

854S Series Sprinkler – August 2007–Present



Model Number Information

Body Inlet	Arc	Body Threads	Valve Type	Nozzle	Pressure Regulation*	Optional
5—1½"	4—Full-circle	0—NPT 4—ACME 5—BSP	1—NO Hydraulic 2—Check-O-Matic 6—Electric	51 52 53 54 55 56 57 58 59	6—65 psi (4,5 Bar) 8—80 psi (5,5 Bar) 1—100 psi (6,9 Bar)	E—Effluent DL—Decoder N—Ni Plated Sol.

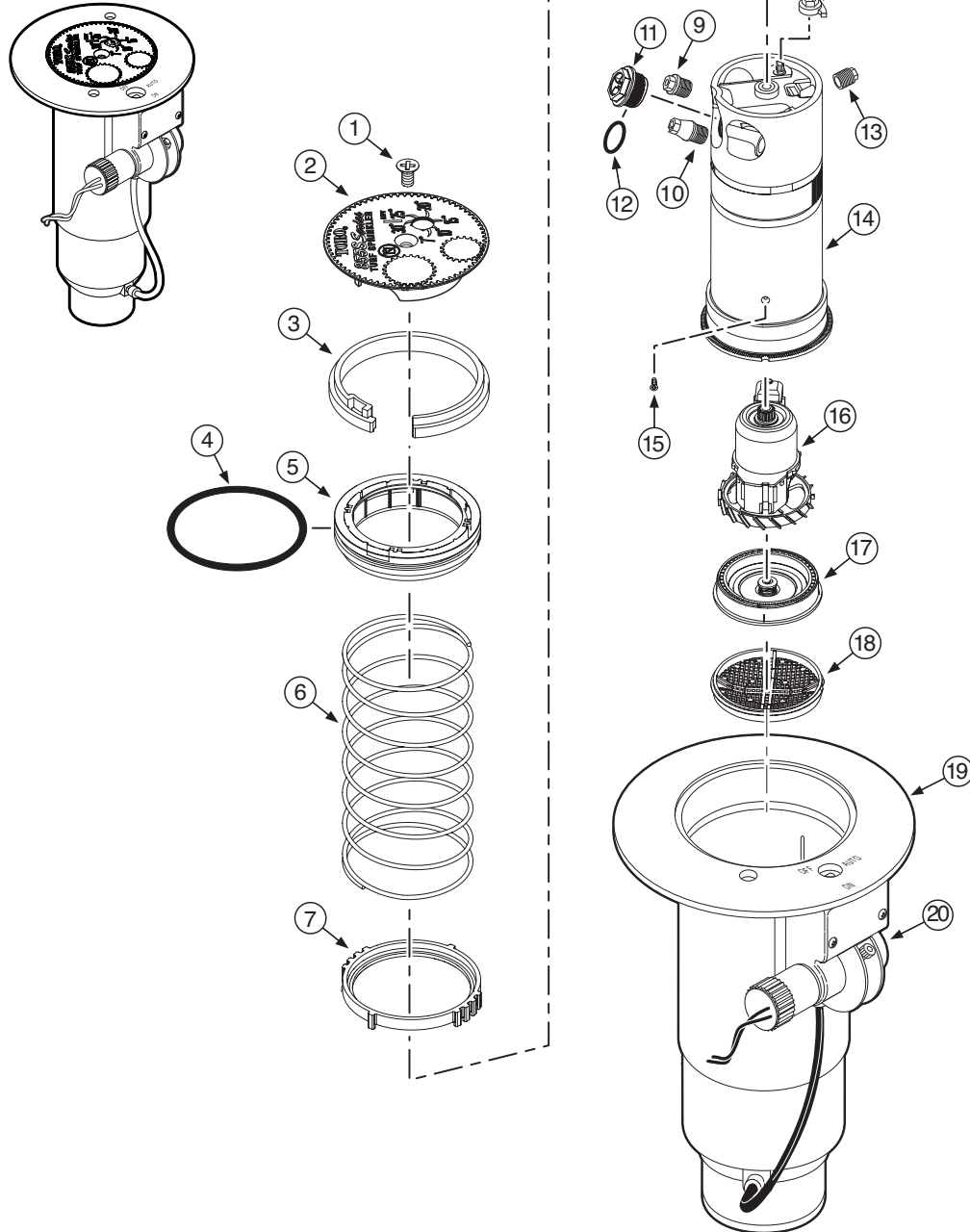
For Example:
When specifying a 854S Series Sprinkler with ACME threads, #54 nozzle,
an electric valve and pressure regulation at 65 psi (4,5 Bar), you would specify:
854S-46-546

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

* Pressure Regulation available on Electric VIH models only.

Item No.	Part No.	Description	Quantity Per Assy.
1	89-1589	Plug, Cap	1
2	102-0362	Screw, Cap	1
3	363-4839	Radius Reduction Screw	1
4	102-5587	Cap, 854S	1
4	102-5591	Cap, 854S, Effluent	1
5	102-5837	Nozzle Base Assembly	1
6	102-2925	Intermediate Nozzle, Blue (Used w/ #1 Main)	1
6	102-2926	Intermediate Nozzle, Orange (Used w/ #2 Main)	1
6	102-2928	Intermediate Nozzle, Red (Used w/ #3 Main)	1
6	102-2929	Intermediate Nozzle, Beige (Used w/ #4–5 Mains)	1
6	102-6944	Intermediate Nozzle Assy., Red w/ Stream Straightener (Used w/ #6 Main)	1
6	102-6945	Intermediate Nozzle Assy., Gray w/ Stream Straightener (Used w/ #7–9 Mains)	1
6	102-6883	Intermediate Nozzle, Brown (Used w/ #7 & #8 mains, front position, right of main)	1
7	102-6937	Nozzle Assy. Inner, Yellow Nozzle w/ Yellow Helical Restrictor	1
8	102-4335	Nozzle Plug	2
9	102-5978	O-ring, Nozzle Housing	1
10	102-5597	Nozzle Housing Assy. (Includes Item 9)	1
11	363-4104	O-Ring, Main Nozzle	1
12	102-0725	Nozzle, Main, #1 (Yellow)	1
12	102-7001	Nozzle, Main, #2 (Blue)	1
12	102-0727	Nozzle, Main, #3 (Brown)	1
12	102-7002	Nozzle, Main, #4 (Orange)	1
12	102-6908	Nozzle, Main, #5 (Green)	1
12	102-0730	Nozzle, Main, #6 (Gray)	1
12	102-4261	Nozzle, Main, #7 (Black)	1
12	102-4260	Nozzle, Main, #8 (Red)	1
12	102-4259	Nozzle, Main, #9 (Beige)	1
13	35-6119	Snap Ring, Riser	1
14	102-0136	Retainer, Seal	1
15	363-4103	O-Ring, Body	1
16	102-0151	Spring, Return	1
17	363-4167	O-Ring, Nozzle Base	1
18	102-0203	Riser	1
19	102-4503	Drive Assembly, 12-Pack	1
20	102-6929	Stator Assembly, Low Flow, High Velocity, Blue (Used with #1–#4 Main Nozzles)	1
20	102-1940	Stator Assembly, Medium Flow, White (Used with #5–#8 Main Nozzles)	1
20	102-1941	Stator Assembly, High-Flow, White (Used with #9 Main Nozzles)	1
21	102-1715	Screen, Riser	1
22	-----	Body Assembly (See p. 106)	1
23	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-5674	Cap, Blank	
	102-5675	Cap, Blank, Effluent	
	102-0950	Adapter, Conversion 600/700 1.5" Bodies	
	*102-5011	Adapter, Conversion, 690	
	89-4735	Yardage Marker, Yellow (10 Sheets per pak)	
	*854S-5154	Conversion, Full Circle, w/ #51, #52, #53 & #54 Nozzles	
	*854S-5154E	Conversion, Full Circle, w/ #51, #52, #53 & #54 Nozzles and Effluent (Lavender) Cap	
	*854S-5558	Conversion, Full Circle, w/ #55, #56, #57 & #58 Nozzles	
	*854S-5558E	Conversion, Full Circle, w/ #55, #56, #57 & #58 Nozzles and Effluent (Lavender) Cap	
	*854S-59	Conversion, Full Circle, w/ #59 Nozzle	
	*854S-59E	Conversion, Full Circle, w/ #59 Nozzle and Effluent (Lavender) Cap	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-101	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles and Plugs)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System–Minneapolis	

855S Series Sprinkler



Model Number Information

835S-XX-3XX-E

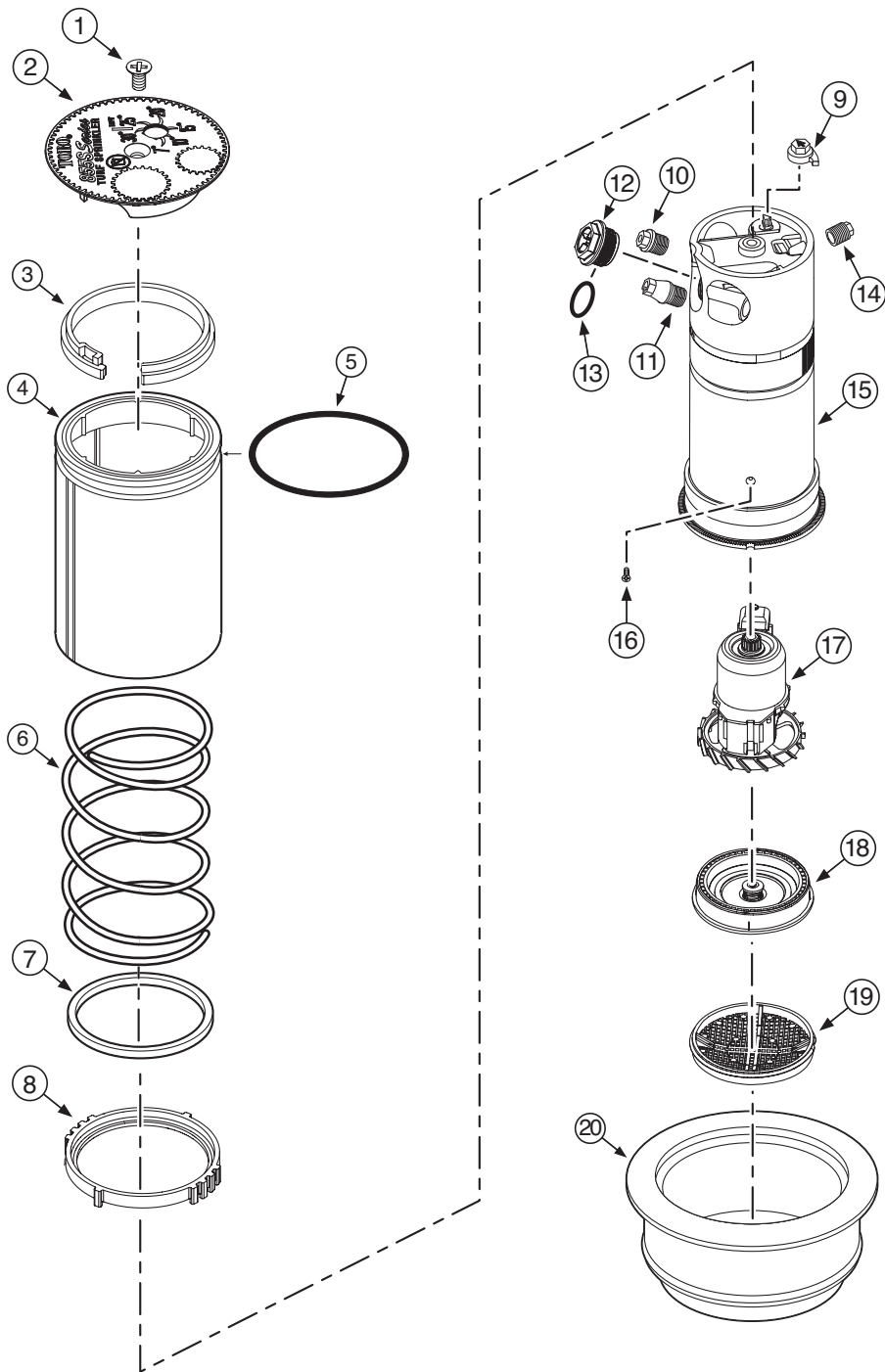
<p>Arc</p> <p>5 = Adj. Part Circle/Full Circle</p>	<p>Body Threads</p> <p>0 = NPT 4 = ACME 5 = BSP</p>	<p>Valve</p> <p>1 = NO Valve-In-Head 2 = Check-O-Matic 6 = Electric Valve-In-Head</p>	<p>Nozzle</p> <p>1 (Yellow) 2 (Blue) 3 (Brown) 4 (Orange) 5 (Green) 6 (Gray) 7 (Black) 8 (Red) 9 (Beige)</p>	<p>Pressure Regulation*</p> <p>5 = 50 PSI 6 = 65 PSI 8 = 80 PSI 1 = 100 PS</p>	<p>E = Effluent DL = Decoder N = Nickel Plated</p>
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* Pressure Regulation available on Electric VIH models only.

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

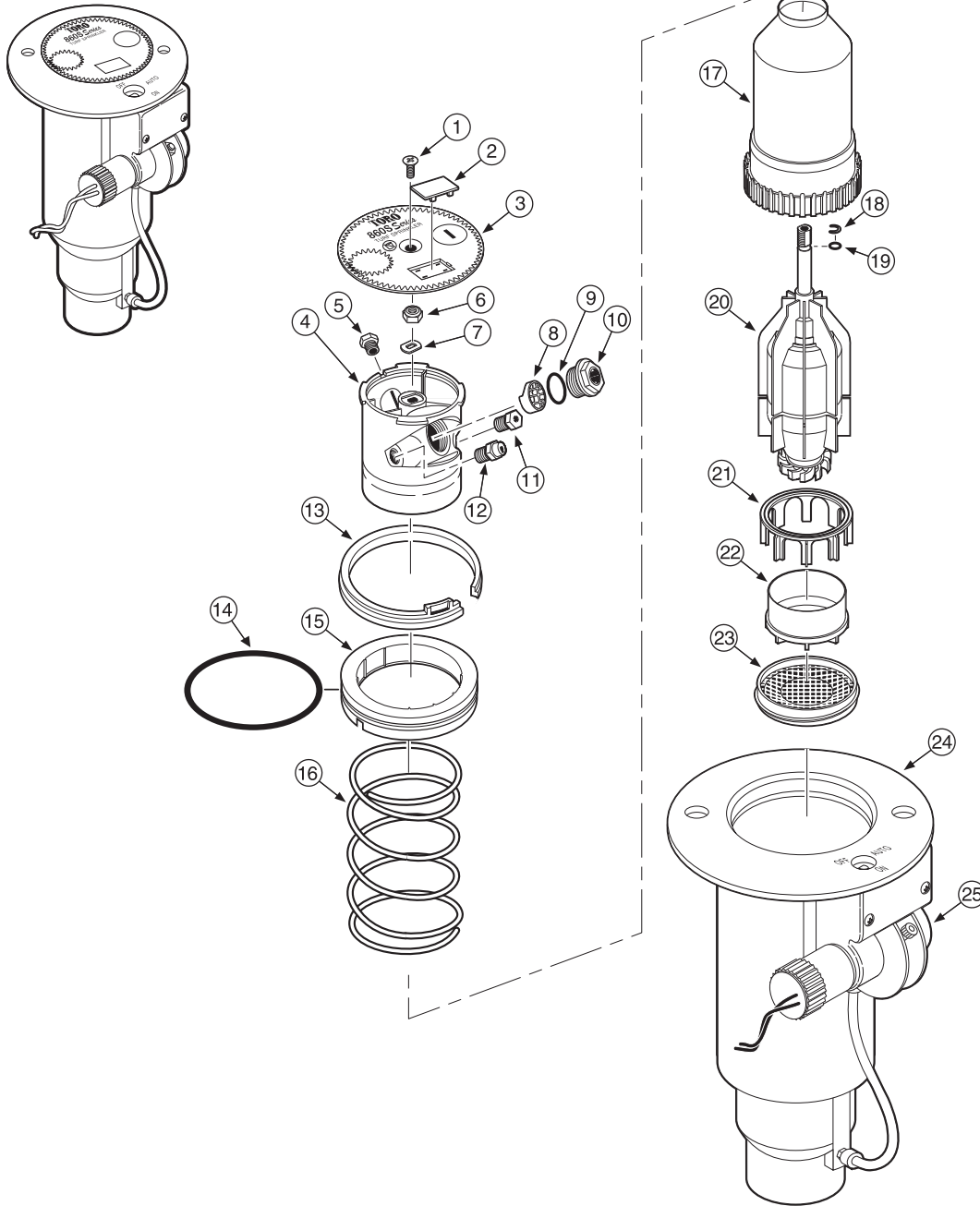
Item No.	Part No.	Description	Quantity Per Assy.
1	102-6138	Screw, Cap, Black	1
2	102-2296	Cap, 855S	1
2	102-2496	Cap, Effluent, 855S	1
3	35-6119	Snap Ring, 1.5"	1
4	363-4103	O-Ring, 1.5"	1
5	102-0136	Retainer Seal, 1.5"	1
6	102-0151	Spring	1
7	102-4967	Ratchet Ring, 1.5"	1
8	102-5971	Trajectory Adjuster	1
9	102-2925	Intermediate Nozzle, Blue (Use with #1, #5, #6, #8 & #9 Main Nozzles)	1
9	102-2926	Intermediate Nozzle, Orange (Use with #3, #4 & #7 Main Nozzles)	1
9	102-2928	Intermediate Nozzle, Red (Use with #2 Main Nozzle)	1
10	102-2910	Nozzle Assy., Inner	1
11	102-4587	Nozzle, Main, #1, Yellow	1
11	102-4588	Nozzle, Main, #2, Blue	1
11	102-4589	Nozzle, Main, #3, Brown	1
11	102-0728	Nozzle, Main, #4, Orange	1
11	102-0729	Nozzle, Main, #5, Green	1
11	102-0730	Nozzle, Main, #6, Gray	1
11	102-4261	Nozzle, Main, #7, Black	1
11	102-4260	Nozzle, Main, #8, Red	1
11	102-4259	Nozzle, Main, #9, Beige	1
12	363-4104	O-Ring, Main Nozzle	1
13	102-4335	Plug, Nozzle, Back	1
14	102-2892	Riser Assy.	1
15	363-4236	Screw, Drive	1
16	102-4504	Drive Assy., 12-Pack	1
17	102-1939	Stator, Low (Use with Main Nozzles 1-4)	1
17	102-1940	Stator, Medium (Use with Main Nozzles 5-8)	1
17	102-1941	Stator, High (Use with Main Nozzle 9)	1
18	102-1715	Screen	1
19	-----	Body Assembly (See p. 106)	1
20	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-4337	Stream Straightener, Intermediate Nozzle	
	102-2041	Restrictor, Yellow, Inner Nozzle	
	102-2497	Cap, Blank, 855S	
	102-2498	Cap, Blank, Effluent, 855S	
	102-0950	Adapter, Conversion	
	89-4735	Yardage Markers, Yellow (10 Sheets per Pack)	
	855S-5154	Conversion Assembly, 855S w/ #51, 52, 53, 54 Nozzles	
	855S-5154E	Conversion Assembly, 855S w/ #51, 52, 53, 54 Nozzles, Effluent	
	855S-5558	Conversion Assembly, 855S w/ #55, 56, 57, 58 Nozzles	
	855S-5558E	Conversion Assembly, 855S w/ #55, 56, 57, 58 Nozzles, Effluent	
	855S-59	Conversion Assembly, 855S w/ #59	
	855S-59E	Conversion Assembly, 855S w/ #59, Effluent	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-101	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner, Intermediate & Back Nozzles)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System—Minneapolis	

855S Series Ribless Body, Conversion Assembly



Item No.	Part No.	Nomenclature	Quantity Per Assy.
1	102-6138	Screw, Cap, Black	1
2	102-2296	Cap, 855S	1
2	102-2496	Cap, Effluent, 855S	1
3	35-6119	Snap Ring, 1.5"	1
4	89-7568	Sleeve, Retainer, O-Ring	1
5	363-4103	O-Ring	1
6	102-0151	Spring, Return	1
7	89-7569	Seal, Riser	1
8	102-2619	Ratchet Ring, 1.0"	1
9	102-5971	Hex, Trajectory Adjuster	1
10	102-2925	Intermediate Nozzle, Blue (Use with #1, #5, #6, #8 & #9 Main Nozzles)	1
10	102-2926	Intermediate Nozzle, Orange (Use with #3, #4 & #7 Main Nozzles)	1
10	102-2928	Intermediate Nozzle, Red (Use with #2 Main Nozzle)	1
11	102-2910	Nozzle Assy., Inner	1
12	102-4587	Nozzle, Main, #1, Yellow	1
12	102-4588	Nozzle, Main, #2, Blue	1
12	102-4589	Nozzle, Main, #3, Brown	1
12	102-0728	Nozzle, Main, #4, Orange	1
12	102-0729	Nozzle, Main, #5, Gree	1
12	102-0730	Nozzle, Main, #6, Gray	1
12	102-4261	Nozzle, Main, #7, Black	1
12	102-4260	Nozzle, Main, #8, Red	1
12	102-4259	Nozzle, Main, #9, Beige	1
13	363-4104	O-Ring, Main Nozzle	1
14	102-4335	Plug, Nozzle, Back	1
15	102-2892	Riser Assy.	1
16	363-4236	Screw, Drive	1
17	102-4504	Drive Assy., 12-Pack	1
18	102-1939	Stator, Low (Use with Main Nozzles 1-4)	1
18	102-1940	Stator, Medium (Use with Main Nozzles 5-8)	1
18	102-1941	Stator, High (Use with Main Nozzle 9)	1
19	102-1715	Screen	1
20	102-0950	Adapter, Conversion	1
		SERVICE ITEMS	
	102-4337	Stream Straightener, Intermediate Nozzle	
	102-2041	Restrictor, Yellow, Inner Nozzle	
	102-2497	Cap, Blank, 855S	
	102-2498	Cap, Blank, Effluent, 855S	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-101	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-105	Nut Driver, 5/16" (For Inner & Intermediate Nozzles)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	

860S Series Sprinkler



Model Number Information

86XS-XX-6XX-E

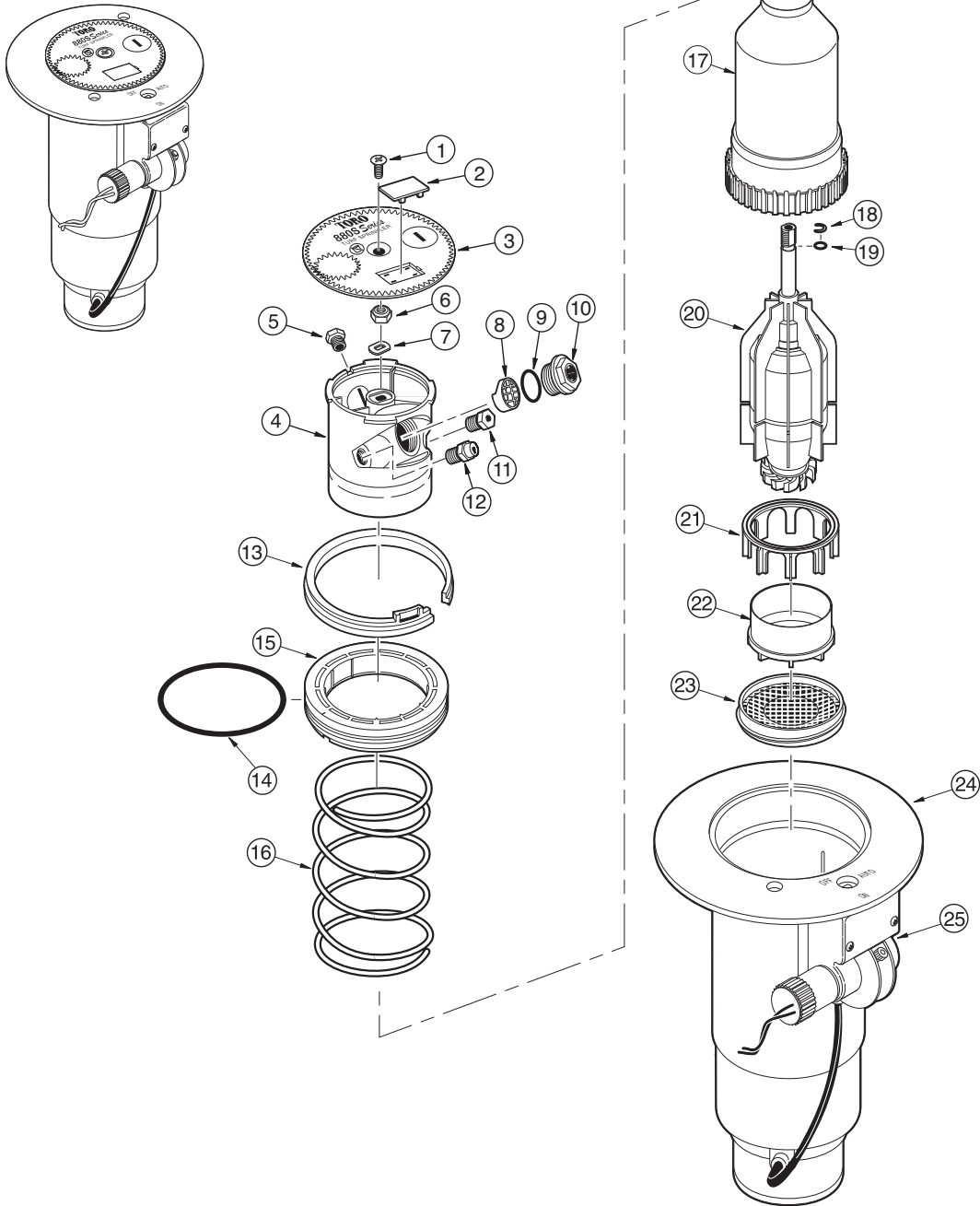
Arc	Body Threads	Valve	Nozzle	Pressure Regulation*	Effluent
4 = Full-circle 5 = Part-circle	0 = NPT 4 = ACME 5 = BSP	1 = NO Valve-In-Head 2 = Check-O-Matic 6 = Electric Valve-In-Head	1 (Yellow) 2 (Blue) 3 (Brown) 4 (Orange) 5 (Green) 6 (Gray) 7 (Black)	6 = 65 PSI 8 = 80 PSI 1 = 100 PSI	

* Pressure Regulation available on Electric VIH models only.

Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).

Item No.	Part No.	Description	Quantity Per Assy.
1	102-1950	Screw, Cap, Stainless Steel, Full-circle Models	1
1	363-4125	Screw, Cap, Black, Part-circle Models	1
2	89-1589	Plug, Cap	1
3	102-1947	Cap, 860S	1
3	102-2082	Cap, 860S, Effluent	1
4	102-2153	Nozzle Base Assembly	1
5	102-0840	Nozzle, Inner, Blank, Red	1
6	363-4039	Nut, 5/16-24, Nylon Lock	1
7	102-1951	Alignment Washer	1
8	102-1949	Stream Straightener	1
9	363-4104	O-Ring, Main Nozzle	1
10	102-0725	Nozzle, Main, #1, Yellow	1
10	102-0726	Nozzle, Main, #2, Blue	1
10	102-0727	Nozzle, Main, #3, Brown	1
10	102-0728	Nozzle, Main, #4, Orange	1
10	102-0729	Nozzle, Main, #5, Green	1
10	102-0730	Nozzle, Main, #6, Gray	1
10	102-4261	Nozzle, Main, #7, Black	1
11	102-0608	Nozzle, Intermediate, Orange (Use with #1 Yellow Main Nozzle)	1
11	102-0609	Nozzle, Intermediate, Gray (Use with #2 Blue Main Nozzle)	1
11	102-0610	Nozzle, Intermediate, Red (Use with #3 Brown & #4 Orange Main Nozzles)	1
11	102-0823	Nozzle, Intermediate, Beige (Use with #5 Green & #6 Gray Main Nozzles)	1
11	102-2005	Nozzle, Intermediate, Red (Use with #7 Black Main Nozzle)	1
12	102-2980	Nozzle Assembly, Inner, Red (w/Restrictor)	1
13	89-1385	Snap Ring, Riser	1
14	363-4102	O-Ring, Body	1
15	102-0134	Retainer, Seal, 1.0"	1
16	102-0151	Spring, Return	1
17	89-6360	Riser Assembly, 860S	1
18	102-2039	Support Washer	1
19	360-0497	O-Ring	1
20	102-4499	Drive Assembly, PC, (Includes Items 18 & 19), 12-Pack	1
20	102-4498	Drive Assembly, FC, (Includes Items 18 & 19), 12-Pack	1
21	89-1958	Stator Support	1
22	89-1957	Stator, Variable	1
23	89-1588	Screen, 860S/880S	1
24	-----	Body Assembly (See p. 102)	1
25	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-2208	Nozzle, Main, Blank, White	
	102-0840	Nozzle, Inner/Intermediate, Blank, Red	
	102-2135	Nozzle, Inner, Back, High Flow, White	
	102-2136	Nozzle, Inner, Back, Low Flow, Yellow	
	363-4220	Screw, Radius Adjust	
	102-2506	Cap, 860S, w/o Graphics	
	102-2507	Cap, 860S, w/o Graphics, Effluent	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pack)	
		SERVICE TOOLS	
	995-08	Valve Removal Tool	
	995-15	Selector Tool (Flag Key)	
	995-76	Valve Insertion Tool	
	995-79	Nut Driver, 7/16" (For Inner & Intermediate Nozzles)	
	995-80	Nut Driver, 1/2" (For 363-4039 Jam Nut)	
	995-82	Arc Adjustment Tool, 3/32" (T-handle hex Wrench)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System—Minneapolis	

880S Series Sprinkler

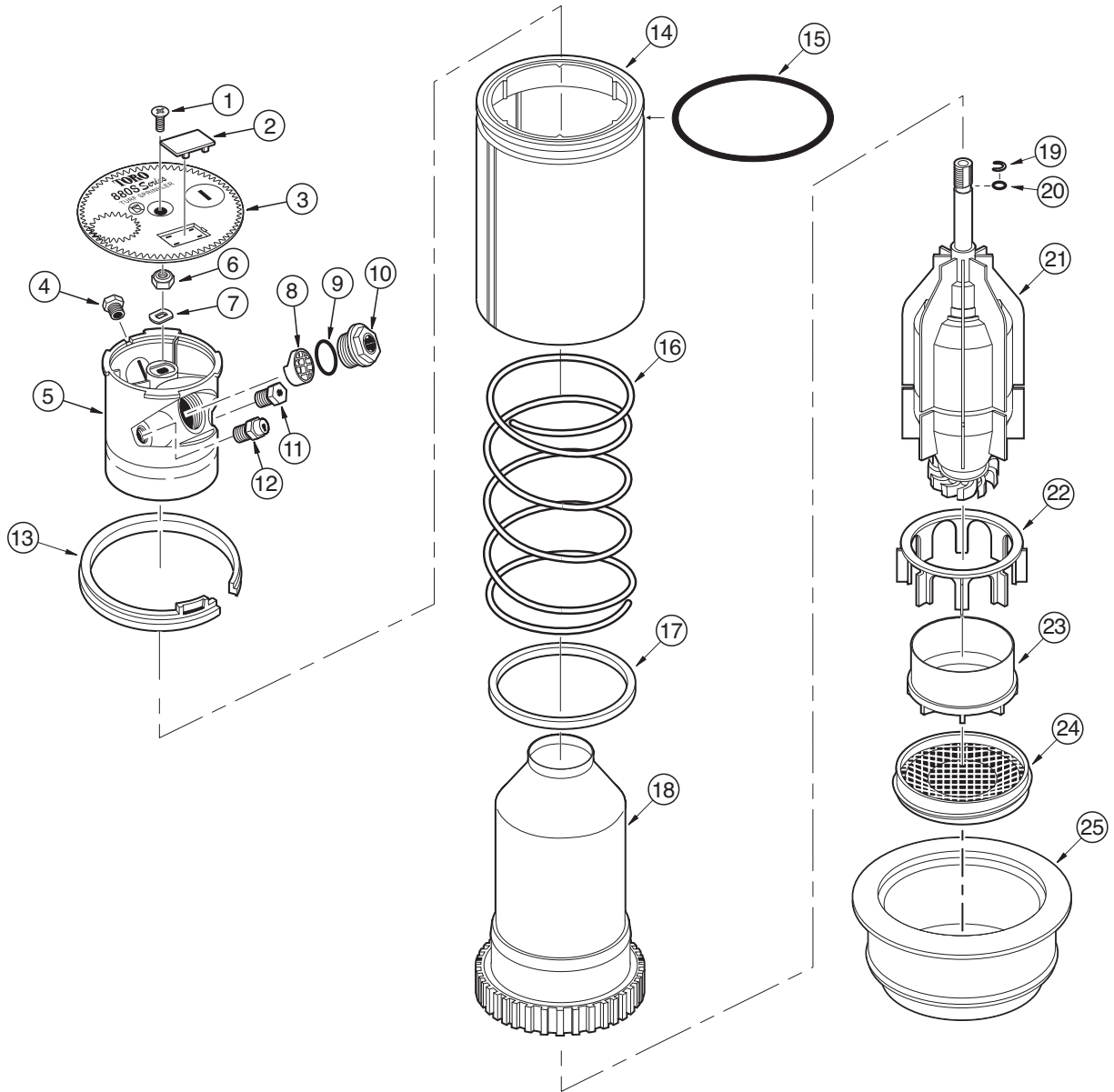


Model Number Information

88XS-XX-8XX-E					
Arc	Body Threads	Valve	Nozzle	Pressure Regulation*	Effluent
4 = Full-circle 5 = Part-circle	0 = NPT 4 = ACME 5 = BSP	1 = NO Valve-In-Head 2 = Check-O-Matic 6 = Electric Valve-In-Head	1 (Yellow) 2 (Blue) 3 (Brown) 4 (Orange) 5 (Green) 6 (Gray) 7 (Black) 8 (Red)	6 = 65 PS 8 = 80 PSI 1 = 100 PSI	
<p>Note: For detailed model number availability and ordering information, refer to the Golf Finished Goods Price List (form no. 490-2844).</p>					

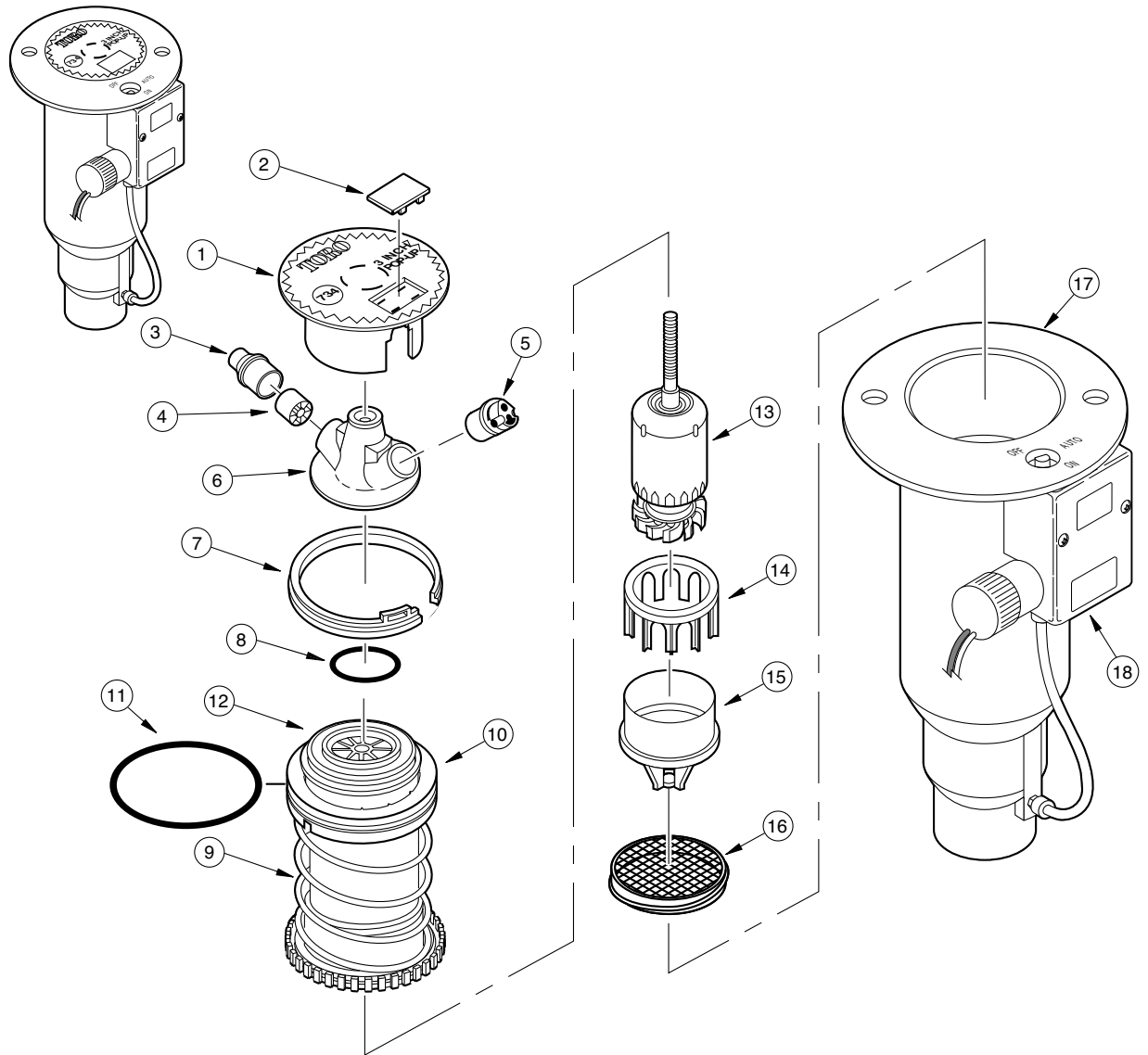
Item No.	Part No.	Description	Quantity Per Assy.
1	102-1950	Screw, Cap, Stainless Steel, FC Models	1
1	363-4125	Screw, Cap, Black PC Models	1
2	89-1589	Plug, Cap	1
3	102-1948	Cap, 880S	1
3	102-2083	Cap, 880S, Effluent	1
4	102-2153	Nozzle Base Assembly	1
5	102-0840	Nozzle Inner, Blank, Red	1
6	363-4039	Nut, 5/16-24, w/Nylon Lock	1
7	102-1951	Alignment Washer	1
8	102-1949	Stream Straightener	1
9	363-4104	O-Ring, Main Nozzle	1
10	102-0725	Nozzle, Main, #1, Yellow	1
10	102-0726	Nozzle, Main, #2, Blue	1
10	102-0727	Nozzle, Main, #3, Brown	1
10	102-0728	Nozzle, Main, #4, Orange	1
10	102-0729	Nozzle, Main, #5, Green	1
10	102-0730	Nozzle, Main, #6, Gray	1
10	102-4261	Nozzle, Main, #7, Black	1
10	102-4260	Nozzle, Main, #8, Red	1
11	102-0608	Nozzle, Intermediate, Orange (Used with #1 Yellow Main Nozzle)	1
11	102-0609	Nozzle, Intermediate, Gray (Used with #2 Blue Main Nozzle)	1
11	102-0610	Nozzle, Intermediate, Red (Used with #3 Brown & #4 Orange Main Nozzles)	1
11	102-0823	Nozzle, Intermediate, Beige (Used with #5 Green & #6 Gray Main Nozzles)	1
11	102-2005	Nozzle, Intermediate, Red (Used with #7 Black & #8 Red Main Nozzles)	1
12	102-2980	Nozzle Assembly, Inner, Red (with Restrictor)	1
13	35-6119	Snap Ring, Riser	1
14	363-4103	O-Ring, Body	1
15	102-0136	Retainer, Seal, 1.5"	1
16	102-0151	Spring, Return	1
17	89-6361	Riser Assembly, 880S	1
18	102-2039	Support Ring	1
19	360-0497	O-Ring	1
20	102-4499	Drive Assembly, PC (Includes Items 18 & 19), 12-Pack	1
20	102-4498	Drive Assembly, FC (Includes Items 18 & 19), 12-Pack	1
21	89-1958	Stator Support	1
22	89-1957	Stator, Variable	1
23	89-1588	Screen, 860S/880S	1
24	-----	Body Assembly (See p. 106)	1
25	-----	Pilot Valve Assembly (See p. 109)	1
		SERVICE ITEMS	
	102-2208	Nozzle, Main, Blank, White	
	102-0840	Nozzle, Inner/Intermediate, Blank, Red	
	102-2135	Nozzle, Inner, Back, High Flow, White	
	102-2136	Nozzle, Inner, Back, Low Flow, Yellow	
	363-4220	Screw, Radius Adjust	
	102-2508	Cap, 880S, w/o Graphics	
	102-2509	Cap, 880S, w/o Graphics, Effluent	
	102-0950	Adapter, Conversion	
	89-4735	Yardage Markers, Yellow (10 Sheets per Pack)	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-101	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-79	Nut Driver, 7/16" (For Inner & Intermediate Nozzles)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System--Minneapolis	

880S Series Ribless Body, Conversion Assembly

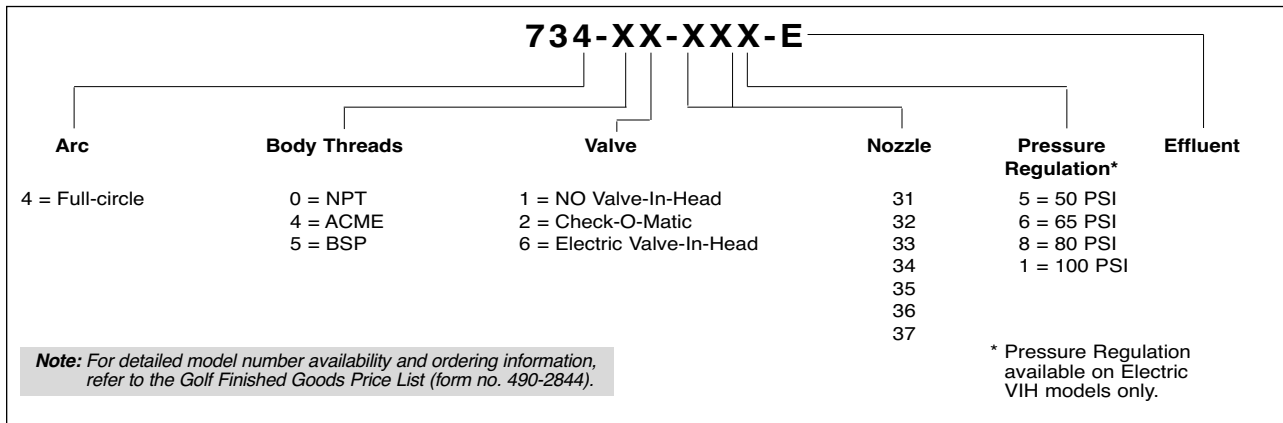


Item No.	Part No.	Nomenclature	Quantity Per Assy.
1	102-1950	Screw, Cap, Stainless Steel, FC Models	1
1	363-4125	Screw, Cap, Black PC Models	1
2	89-1589	Plug, Cap	1
3	102-1948	Cap, 880S	1
3	102-2083	Cap, 880S, Effluent	1
4	102-0840	Nozzle Inner, Blank, Red	1
5	102-2153	Nozzle Base Assembly	1
6	363-4039	Nut, 5/16-24, w/Nylon Lock	1
7	102-1951	Alignment Washer	1
8	102-1949	Stream Straightener	1
9	363-4104	O-Ring, Main Nozzle	1
10	102-0725	Nozzle, Main, #1, Yellow	1
10	102-0726	Nozzle, Main, #2, Blue	1
10	102-0727	Nozzle, Main, #3, Brown	1
10	102-0728	Nozzle, Main, #4, Orange	1
10	102-0729	Nozzle, Main, #5, Green	1
10	102-0730	Nozzle, Main, #6, Gray	1
10	102-4261	Nozzle, Main, #7, Black	1
10	102-4260	Nozzle, Main, #8, Red	1
11	102-0608	Nozzle, Intermediate, Orange (Used with #1 Yellow Main Nozzle)	1
11	102-0609	Nozzle, Intermediate, Gray (Used with #2 Blue Main Nozzle)	1
11	102-0610	Nozzle, Intermediate, Red (Used with #3 Brown & #4 Orange Main Nozzles)	1
11	102-0823	Nozzle, Intermediate, Beige (Used with #5 Green & #6 Gray Main Nozzles)	1
11	102-2005	Nozzle, Intermediate, Red (Used with #7 Black & #8 Red Main Nozzles)	1
12	102-2980	Nozzle Assembly, Inner, Red (with Restrictor)	1
13	35-6119	Snap Ring, Riser	1
14	89-7568	Sleeve, Retainer, O-Ring	1
15	363-4103	O-Ring	1
16	102-0151	Spring, Return	1
17	89-7569	Seal, Riser	1
18	89-6360	Riser Assembly, 860S	1
19	102-2039	Support Ring	1
20	360-0497	O-Ring	1
21	102-4499	Drive Assembly, PC (Includes Items 18 & 19), 12-Pack	1
21	102-4498	Drive Assembly, FC (Includes Items 18 & 19), 12-Pack	1
22	89-1958	Stator Support	1
23	89-1957	Stator, Variable	1
24	89-1588	Screen, 860S/880S	1
25	102-0950	Adapter, Conversion	1
		SERVICE ITEMS	
	102-2208	Nozzle, Main, Blank, White	
	102-0840	Nozzle, Inner/Intermediate, Blank, Red	
	102-2135	Nozzle, Inner, Back, High Flow, White	
	102-2136	Nozzle, Inner, Back, Low Flow, Yellow	
	363-4220	Screw, Radius Adjust	
	102-2508	Cap, 880S, w/o Graphics	
	102-2509	Cap, 880S, w/o Graphics, Effluent	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-101	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-79	Nut Driver, 7/16" (For Inner Nozzle)	
	995-99	Nut Driver, 5/8" (For Main Nozzle)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-102	Riser Hold-up Tool, Universal	
		* Order Through Finished Goods Distribution System—Minneapolis	

730 Series

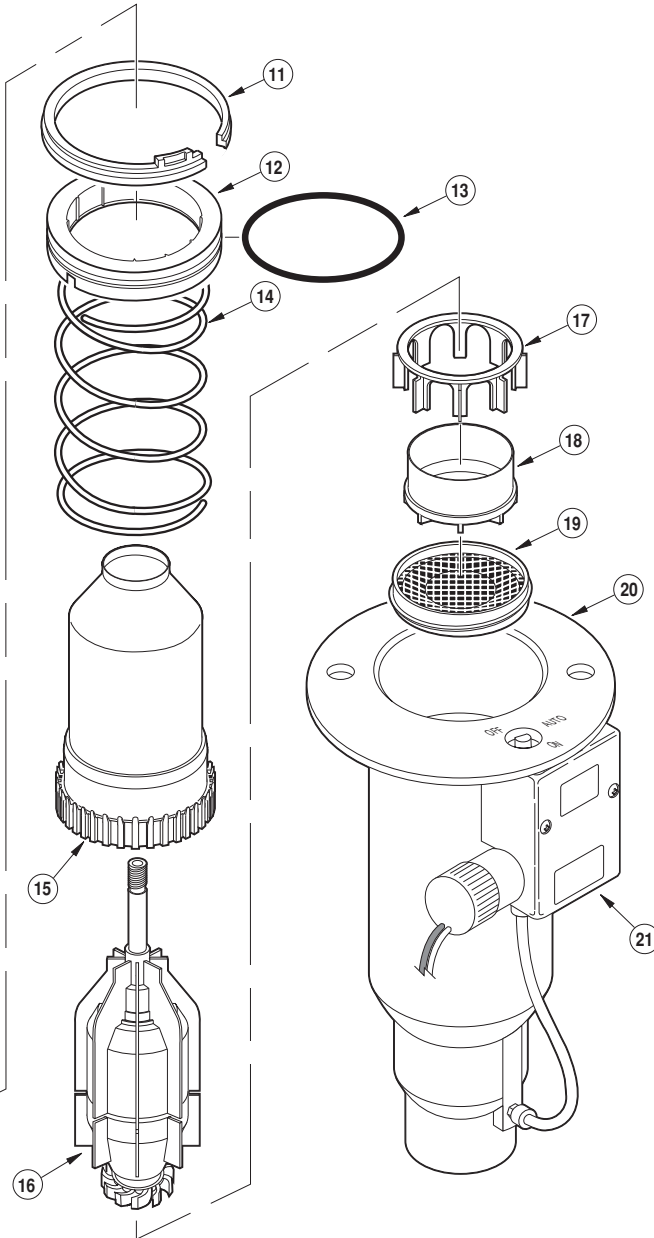
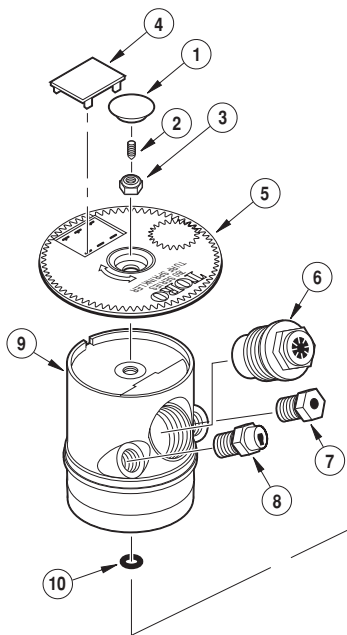
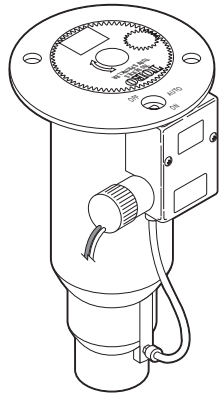


Model Number Information

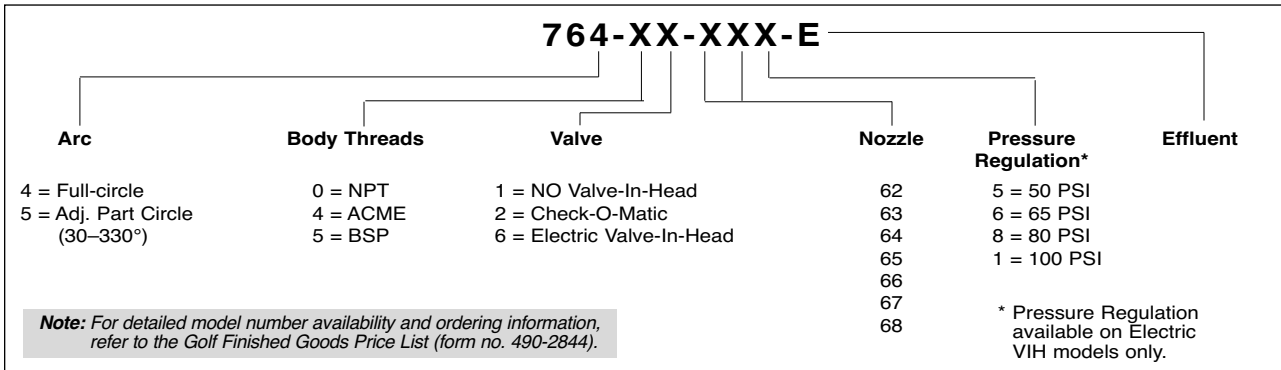


Item No.	Part No.	Description	Quantity Per Assy.
1	89-1293	Cap	1
2	89-1589	Plug, Cap (Black)	1
3	89-8780	Nozzle, Main, 31, Yellow (Includes Item 4)	1
3	89-8781	Nozzle, Main, 32, Orange (Includes Item 4)	1
3	89-8782	Nozzle, Main, 33, Brown (Includes Item 4)	1
3	89-8783	Nozzle, Main, 34, Blue (Includes Item 4)	1
3	89-8784	Nozzle, Main, 35, Green (Includes Item 4)	1
3	89-8785	Nozzle, Main, 36, Red (Includes Item 4)	1
3	89-8786	Nozzle, Main, 37, Gray (Includes Item 4)	1
4	9-4098	Insert, Nozzle	1
5	102-5003	Nozzle Assy., Inner, 31–37, Quad, Red	1
6	89-8907	Base Assy., Nozzle (Includes Nozzle Base and Insert Bearing)	1
7	89-1385	Snap Ring	1
8	363-4167	Seal, O-Ring	1
9	-----	Riser Assy. (See Service Item 89-7562)	1
10	-----	Retainer, Spring (See Service Item 89-5979)	1
11	363-4102	O-Ring	1
12	89-1386	Retainer, Riser	1
13	102-4502	Drive Assy., 12-Pack	1
14	89-1390	Housing, Stator	1
15	89-9636	Stator, Variable, 31–34, Manila	1
15	89-9637	Stator, Variable, 35–36, Black	1
15	89-9622	Stator, Variable, 37, Green	1
16	89-6495	Screen	1
17	-----	Body Assy. (See p. 100)	1
18	-----	Pilot Valve Assembly (See p. 108)	1
		SERVICE ITEMS	
	102-1870	Nozzle Assy., Less Cap, 734-33 (Includes Items 3–6)	
	102-1871	Nozzle Assy., Less Cap, 734-34 (Includes Items 3–6)	
	102-1735	Nozzle Assy., Less Cap, 734-35 (Includes Items 3–6)	
	102-1736	Nozzle Assy., Less Cap, 734-36 (Includes Items 3–6)	
	102-1737	Nozzle Assy., Less Cap, 734-37 (Includes Items 3–6)	
	89-5979	Seal Kit, 730 (Includes Items 10–12)	
	89-7562	Riser Assy. w/Screen, 730 Svc. (Includes Items 9–12 & 16)	
	35-4557	Screen, Press-in Type (Pre-9/94)	
	89-4735	Yardage Marker, Yellow (10 Sheets per Pack)	
	89-8289	Cap, Effluent	
		SERVICE TOOLS	
	995-15	Selector Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-08	Valve Removal Tool	
	996-76	Valve Insertion Tool	
	995-83	Multi-purpose Tool	
		* Order Through Finished Goods Distribution System—Minneapolis	

760 Series

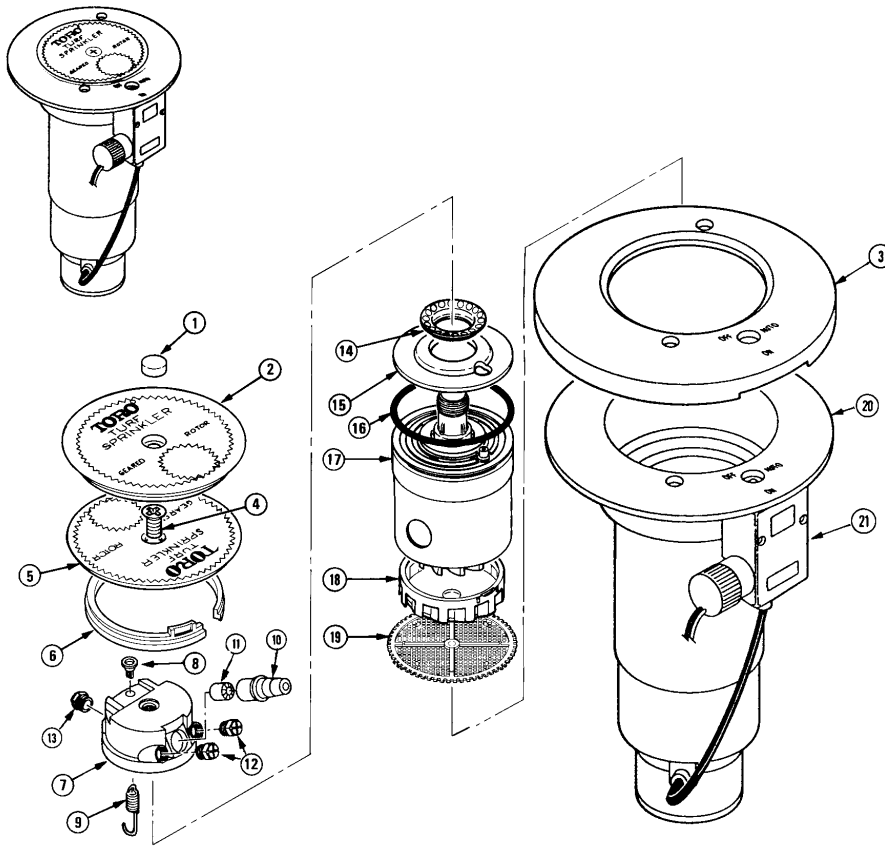


Model Number Information



Item No.	Part No.	Description	Quantity Per Assy.
1	89-1220	Plug, Adjustment	1
2	363-3150	Screw, Set, 10-32 x .250 (PC Models Only)	1
3	363-4039	Nut, 5/16-24 w/Nylon Lock	1
4	89-1589	Plug, Cap	1
5	89-1952	Cap, 760	1
5	89-8287	Cap, Effluent	1
6	89-1925	Nozzle, Main, 62 Yellow	1
6	89-1926	Nozzle, Main, 63 Blue	1
6	89-1927	Nozzle, Main, 64 Brown	1
6	89-1928	Nozzle, Main, 65 Orange	1
6	89-1929	Nozzle, Main, 66 Green	1
6	89-1930	Nozzle, Main, 67 Gray	1
6	89-1931	Nozzle, Main, 68 Black	1
7	102-2105	Nozzle Intermediate, Blue (Use with #62 Yellow and #63 Blue Main Nozzles)	1
7	102-0608	Nozzle, Intermediate, Orange (Use with #64 Brown Main Nozzle)	1
7	102-0609	Nozzle Intermediate, Gray (Use with #65 Orange Main Nozzle)	1
7	102-0610	Nozzle, Intermediate, Red (Use with #66 Green and #67 Gray Main Nozzles)	1
7	102-0823	Nozzle, Intermediate, Beige (Use with #68 Main Nozzle)	1
8	102-2980	Nozzle Assy., Inner, Red w/Restrictor	1
9	89-1906	Nozzle Base Assy., 760/780	1
9	102-0057	Nozzle Base Assy., 760/780 w/Back Nozzle (Includes 89-3729 Nozzle, Inner 85 Orange and 89-4650 Restrictor)	1
10	360-0107	O-Ring	1
11	89-1385	Snap Ring	1
12	102-0134	Retainer, Seal, 1.0"	1
13	363-4102	O-Ring, Body	1
14	89-6307	Spring, Return	1
15	89-6360	Riser Assy., 760	1
16	102-4497	Drive Assy., PC, 12-Pack	1
16	102-4496	Drive Assy., FC, 12-Pack	1
17	89-1958	Stator Support	1
18	89-1957	Stator, Variable	1
19	89-1588	Screen, 760/780	1
20	-----	Body Assembly (See p. 100)	1
21	-----	Pilot Valve Assembly (See p. 108)	1
		SERVICE ITEMS	
	363-3125	Nozzle, Main, Blank, Black	
	102-0840	Nozzle, Inner/Intermediate, Blank, Red	
	89-4651	Nozzle, Inner, 62 Yellow (Pre-November 2003)	
	89-3942	Nozzle, Inner, 63 Blue (Pre-November 2003)	
	89-4652	Nozzle, Inner, 64 Brown (Pre-November 2003)	
	89-3729	Nozzle, Inner, 65 Orange (Pre-November 2003)	
	89-4653	Nozzle, Inner, 66 Green (Pre-November 2003)	
	89-1879	Nozzle, Inner, 67 Gray (Pre-November 2003)	
	89-4654	Nozzle, Inner, 68 Black (Pre-November 2003)	
	89-4649	Restrictor, (62 & 63 Black) (Pre-November 2003)	
	89-4650	Restrictor, (64-68 White) (Pre-November 2003)	
	89-4735	Yardage Marker, Yellow (10 Sheets Per Pack)	
		SERVICE TOOLS	
	995-08	Valve Removal Tool	
	995-15	Selector Tool (Flag Tool)	
	995-55	Riser Hold-up Tool	
	995-76	Valve Insertion Tool	
	995-79	Nut Driver, 7/16" (For Inner & Intermediate Nozzles)	
	995-80	Nut Driver, 1/2" (For 363-4039 Lock Nut)	
	995-81	Nut Driver, 9/16" (For Main Nozzle)	
	995-82	Arc Adjustment Tool 3/32" (T-handle Hex Wrench)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
		* Order Through Finished Goods Distribution System--Minneapolis	

650 Series



Model Number Information

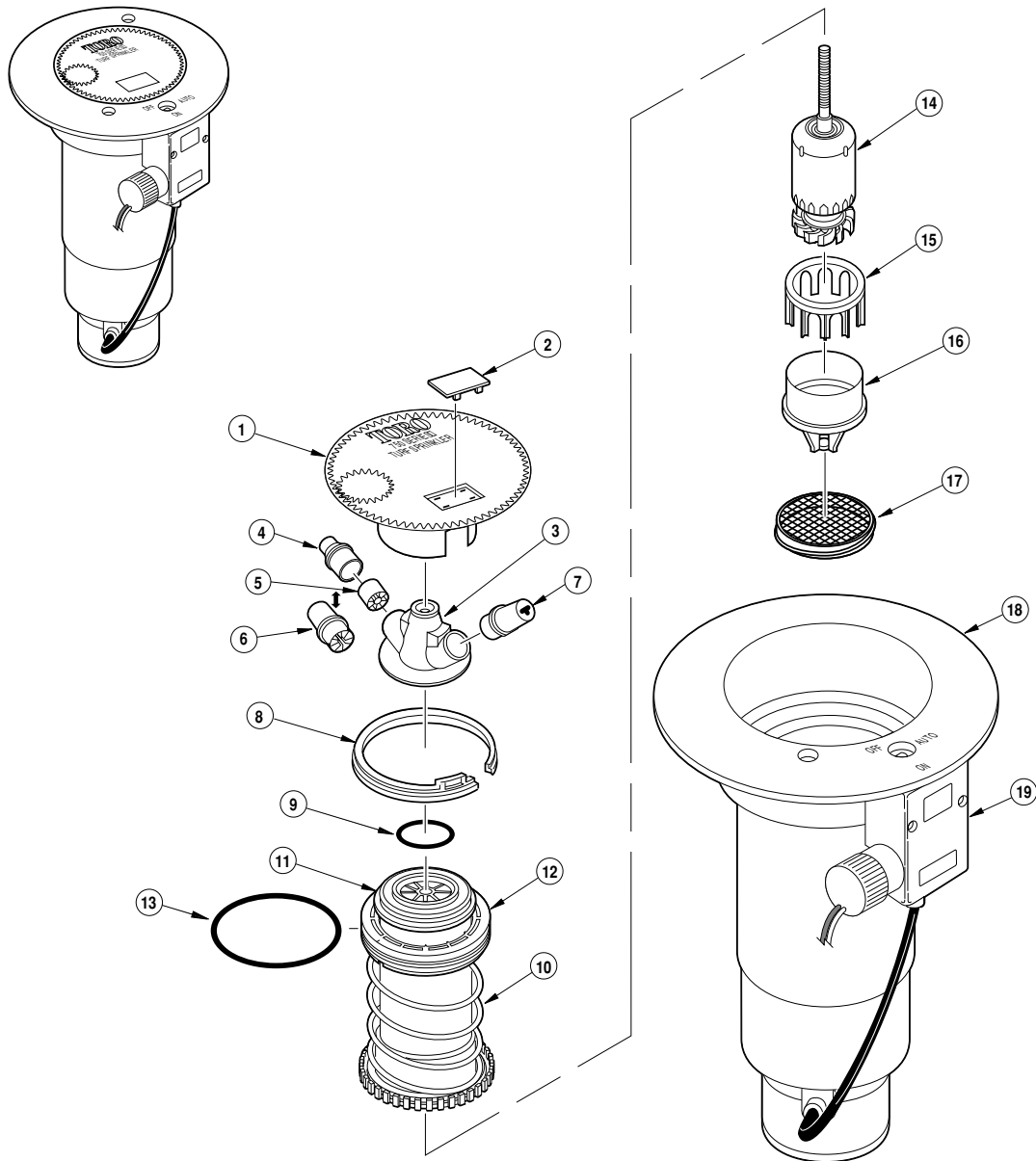
65X-XX-XXX				
Arc	Body Threads	Valve	Nozzle	Pressure Regulation *
§ 1 = Quarter-circle	0 = NPT	1 = NO Valve-In-Head	54	5 = 50 PSI
§ 2 = Half-circle	5 = BSP	2 = Check-O-Matic	55	6 = 50 PSI
§ 4 = Full-circle		6 = Electric Valve-In-Head	56	8 = 80 PSI
§ 5 = Adj. Part-circle (45-315°)			57	1 = 100 PSI
6 = Full-circle, 2-speed, In-line (60-120°)			58	
8 = Full-circle, 2-speed, (180-180°)			59	

* Pressure Regulation available on Electric VIH models only.
 § Pre-1998 models only.

Item No.	Part No.	Description	Quantity Per Assy.
1	3-2095	Plug, Cap, Rubber Cover	1
2	35-8563	Cap Assy., Rubber Cover	1
3	9-5355	Rubber cover, Rounded Flange, (See Service Item 650-02)	1
4	3-2510	Screw, Machine, 5/16-18 x 11/16"	1
5	89-8461	Cap	1
6	35-6119	Ring, Snap, Drive Assembly	1
7	-----	Nozzle Base Assy., 656 (See Service Item 35-7638)	1
7	-----	Nozzle Base Assy., 658 (See Service Item 35-4853)	1
8	35-5846	Retainer, Spring	1
9	35-6289	Spring, Nozzle	1
10	35-7658	Nozzle, Main, #54 (Includes Item 11)	1
10	35-7659	Nozzle, Main, #55 (Includes Item 11)	1
10	35-7660	Nozzle, Main, #56 (Includes Item 11)	1
10	35-7661	Nozzle, Main, #57 (Includes Item 11)	1
10	35-7662	Nozzle, Main, #58 (Includes Item 11)	1
10	35-9839	Nozzle, Main, #59	1

Item No.	Part No.	Description	Quantity Per Assy.
11	89-5819	Insert, Nozzle (Not Used with #59 Nozzle)	1
12	89-3942	Nozzle, Inner, Blue	1
12	89-4738	Nozzle, Inner, Red	1
13	89-4785	Nozzle, Back, Green (658 Models Only)	1
14	9-2735	Collar, Spring	1
15	3-2093	Plate, Retainer	1
16	363-4103	O-Ring, Paraffin, AS-568 234	1
17	89-4772	Drive Assy., 651, 54-57 Nozzles, 90° (Color Coded Green) (Includes Items 14 & 15)	1
17	89-4782	Drive Assy., 651, 58-59 Nozzles, 90° (Color Coded Green) (Includes Items 14 & 15)	1
17	89-4773	Drive Assy., 652, 54-57 Nozzles, 180° (Color Coded Blue) (Includes Items 14 & 15)	1
17	89-4783	Drive Assy., 652, 58-59 Nozzles, 180° (Color Coded Blue) (Includes Items 14 & 15)	1
17	89-4774	Drive Assy., 654, 54-57 Nozzles, FC Includes Items 14 & 15)	1
17	89-1294	Drive Assy., 654, 58-59 Nozzles, FC (Includes Items 14 & 15)	1
17	89-4775	Drive Assy., 655, 54-57 Nozzles, PC 45–315° (Includes Items 14 & 5)	1
17	89-0645	Drive Assy., 655, 58-59 Nozzles, PC 45–315° (Includes Items 14 & 15)	1
17	89-4842	Drive Assy., 656, 54-57 Nozzles, 2-speed 60–120° (Color Coded Red) (Incl. Items 14 & 15)	1
17	89-1295	Drive Assy., 656, 58-59 Nozzles, 2-speed 60–120° (Color Coded Red) (Incl. Items 14 & 15)	1
17	89-4843	Drive Assy., 658, 54-57 Nozzles, 2-speed 180–180° (Color Coded Yellow) (Incl. Items 14–15)	1
17	89-1296	Drive Assy., 658, 58-59 Nozzles, 2-speed 180–180° (Color Coded Yellow) (Incl. Items 14 & 5)	1
18	9-5187	Stator, 34/59 (Used with 651-59, 652-59, 654-59, 655-59, 656-59, & 658-59)	1
18	9-5188	Stator, 54 (Used with 651-54, 652-54, 654-54, 655-54, 656-54 & 658-54)	1
18	9-5186	Stator, 55/56 (Used with 651-55, 652-55, 654-55, 655-55, 656-55, 658-55, 651-56, 652-56, 654-56, 655-56, 656-56, & 658-56)	1
18	9-5190	Stator, 57 (Used with 651-57, 652-57, 654-57, 655-57, 656-57, & 658-57)	1
18	9-5192	Stator, 58 (Used with 651-58, 652-58, 654-58, 655-58, 656-58 & 658-58)	1
19	35-1106	Screen, Molded	1
20	-----	Body Assy. (See p. 104)	1
21	-----	Pilot Valve Assembly (See p. 108)	1
		SERVICE ITEMS	
	650-02	Kit, Rubber Cover (Includes Items 1–3)	
	35-7638	Nozzle Assy., w/o Main Nozzle, 650 (Includes Items 4, 5, 7, 8, 9 and 12)	
	89-4795	Nozzle Assy., w/o Main Nozzle and Cap, 650 (Includes Items 7, 8, 9 and 12)	
	89-4852	Nozzle Assy., w/o Main Nozzle, 658 (Includes Items 4, 5, 7, 8, 9, 12 and 13)	
	89-4853	Nozzle Assy., w/o Main Nozzle and Cap, 658 (Includes Items 7, 8, 9, 12 and 13)	
	102-0840	Nozzle, Inner/Intermediate, Blank, Red	
	363-3397	Plug, DA, 7/16", 52-57 Nozzles	
	363-3398	Plug, DA, 13/16", 58-59 Nozzles	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-06	Drive Assembly Extraction Tool	
	995-15	Selector Tool (Flag Key)	
	995-16	Riser Pliers	
	995-18	Spring Collar Installation Tool	
	995-79	Nut Driver 7/16" (For Inner Nozzle)	
	995-83	Multi-purpose Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-101	Valve Insertion Tool	
		* Order Through Finished Goods Distribution System–Minneapolis	

750 Series

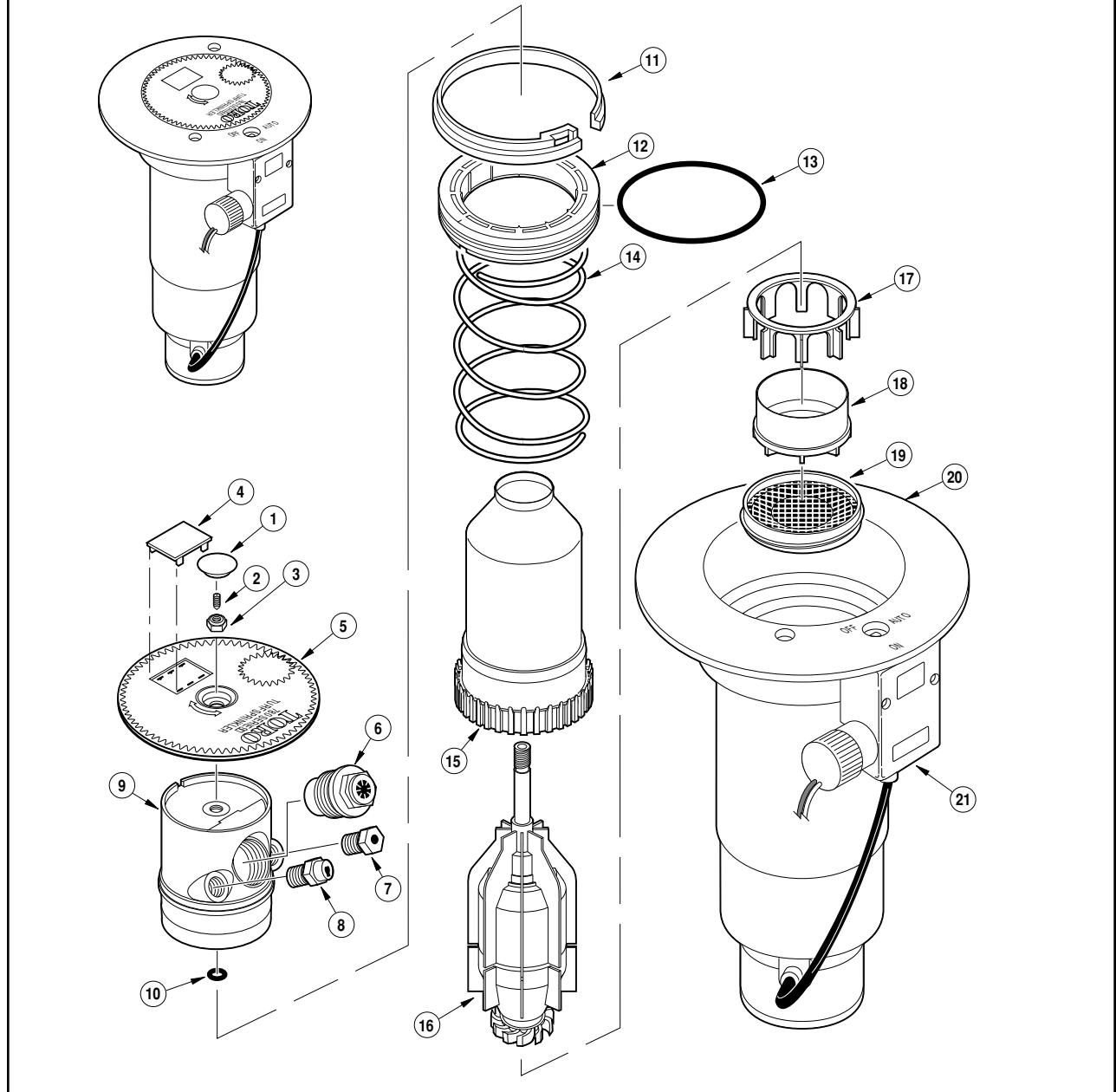


Model Number Information

754-XX-XXX				
Arc	Body Threads	Valve	Nozzle	Pressure Regulation*
4 = Full-circle	0 = NPT 4 = ACME 5 = BSP	1 = NO Valve-In-Head 2 = Check-O-Matic 6 = Electric Valve-In-Head	52 53 54 55 56 57 58 59	5 = 50 PSI 6 = 65 PSI 8 = 80 PSI 1 = 100 PSI

* Pressure Regulation available on Electric VIH models only.

780 Series



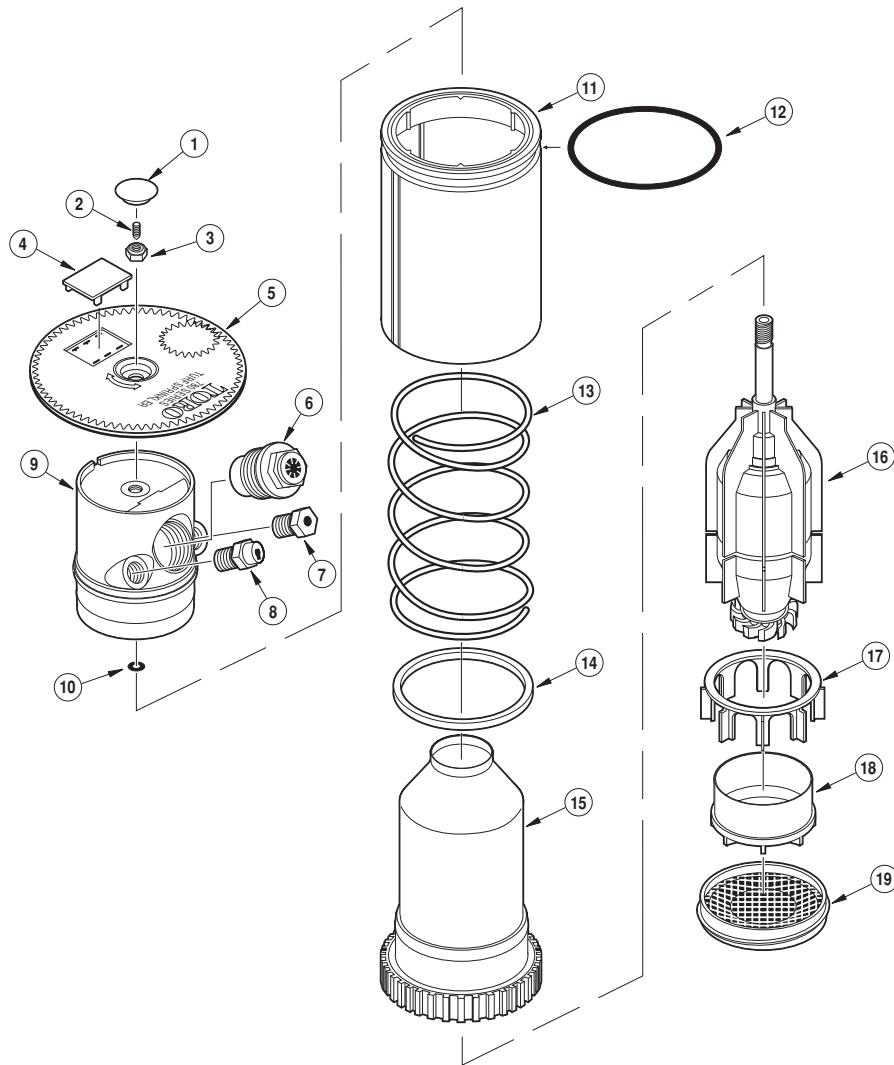
Model Number Information

78X-XX-XXX				
Arc	Body	Valve	Nozzle	Pressure Regulation*
4 = Full-circle	0 = NPT	1 = NO Valve-In-Head	82	5 = 50 PSI
5 = Adj. Part Circle (30-330°)	4 = ACME	2 = Check-O-Matic	83	6 = 65 PSI
	5 = BSP	6 = Electric Valve-In-Head	84	8 = 80 PSI
			85	1 = 100 PSI
			86	
			87	
			88	
			89	

* Pressure Regulation available on Electric VIH models only.

Item No.	Part No.	Description	Quantity Per Assy.
1	89-1220	Plug, Adjustment	1
2	363-3150	Screw, Set, 10-32 x 1/4" (PC Only)	1
3	363-4039	Nut, 5/16-24 w/Nylon Lock	1
4	89-1589	Plug, Cap	1
5	89-1584	Cap, 780	1
5	89-8288	Cap, Effluent	1
6	89-1925	Nozzle, Main, 82 Yellow	1
6	89-1926	Nozzle, Main, 83 Blue	1
6	89-1927	Nozzle, Main, 84 Brown	1
6	89-1928	Nozzle, Main, 85 Orange	1
6	89-1929	Nozzle, Main, 86 Green	1
6	89-1930	Nozzle, Main, 87 Gray	1
6	89-1931	Nozzle, Main, 88 Black	1
6	89-4655	Nozzle, Main, 89 Red	1
7	102-2105	Nozzle, Intermediate, Blue (Use with #82 Yellow and #83 Blue Main Nozzles)	1
7	102-0608	Nozzle, Intermediate, Orange (Use with #84 Brown Main Nozzle)	1
7	102-0609	Nozzle, Intermediate, Gray (Use with #85 Orange Main Nozzle)	1
7	102-0610	Nozzle, Intermediate, Red (Use with #86 Green and #87 Gray Main Nozzles)	1
7	102-0823	Nozzle, Intermediate, Beige (Use with #88 Black and #89 Red Main Nozzles)	1
8	102-2980	Nozzle Assy., Inner, Red w/Restrictor	1
9	89-1906	Nozzle Base Assy., 760/780	1
9	102-0057	Nozzle Base Assy., 760/780 w/Back Nozzle (Includes 89-3729 #85 Inner Nozzle and 89-4650 Restrictor)	
10	360-0107	O-Ring	1
11	35-6119	Snap Ring	1
12	102-0136	Retainer, Seal, 1.5"	1
13	363-4103	O-Ring	1
14	89-6307	Spring, Return	1
15	89-6361	Riser Assy., 780	1
16	102-4497	Drive Assy., PC, 12-Pack	1
16	102-4496	Drive Assy., FC, 12-Pack	1
17	89-1958	Stator Support	1
18	89-1957	Stator, Variable	1
19	89-1588	Screen, 760 & 780	1
20	-----	Body Assy. (See p. 104)	1
21	-----	Pilot Valve Assy. (See p. 108)	1
		SERVICE ITEMS	
	363-3125	Nozzle, Main, Blank, Black	
	102-0840	Nozzle, Inner/Intermediate, Blank, Red	
	89-4651	Nozzle, Inner, 82 Yellow (Pre-November 2003)	
	89-3942	Nozzle, Inner, 83 Blue (Pre-November 2003)	
	89-4652	Nozzle, Inner, 84 Brown (Pre-November 2003)	
	89-3729	Nozzle, Inner, 85 Orange (Pre-November 2003)	
	89-4653	Nozzle, Inner, 86 Green (Pre-November 2003)	
	89-1879	Nozzle, Inner, 87 Gray (Pre-November 2003)	
	89-4654	Nozzle, Inner, 88 Black (Pre-November 2003)	
	89-1878	Nozzle, Inner, 89 Red (Pre-November 2003)	
	89-4649	Restrictor, (82 & 83 Black) (Pre-November 2003)	
	89-4650	Restrictor, (84–89 White) (Pre-November 2003)	
	89-4735	Yardage Marker, Yellow (10 Sheets Per Pack)	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-15	Selector Tool (Flag Key)	
	995-55	Riser Hold-up Tool	
	995-79	Nut Driver, 7/16" (For Inner & Intermediate Nozzles)	
	995-80	Nut Driver, 1/2" (For 363-4039 Lock Nut)	
	995-81	Nut Driver, 9/16" (For Main Nozzle)	
	995-82	Arc Adjustment Tool 3/32" (T-handle Hex Wrench)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-101	Valve Insertion Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
		* Order Through Finished Goods Distribution System–Minneapolis	

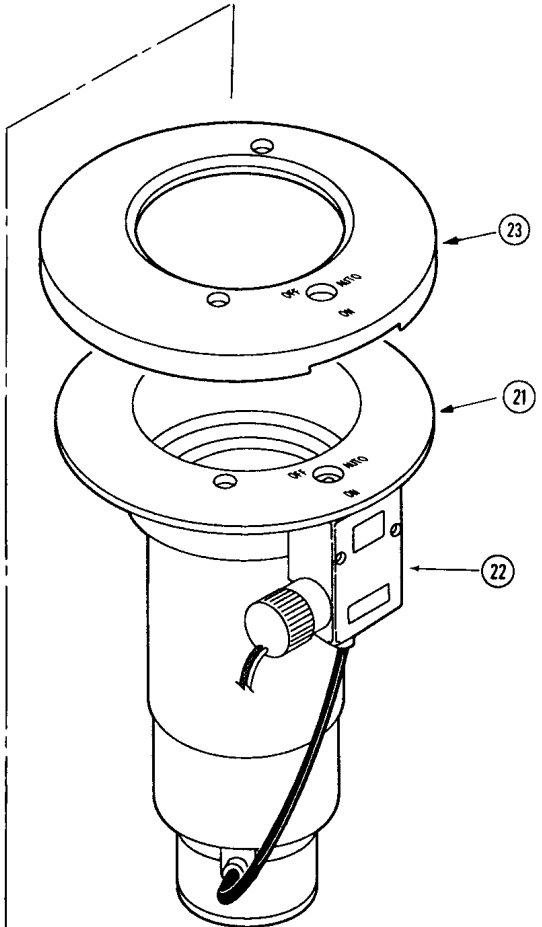
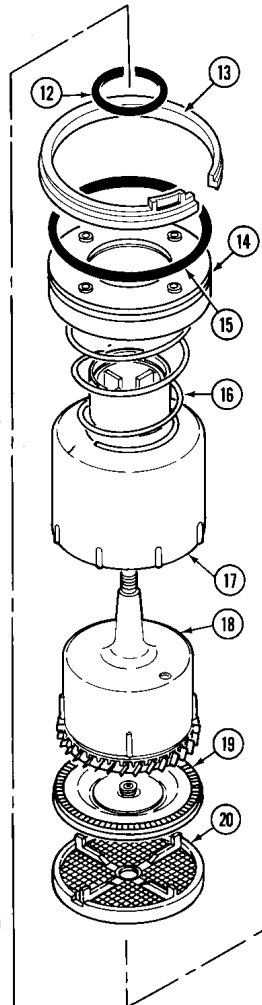
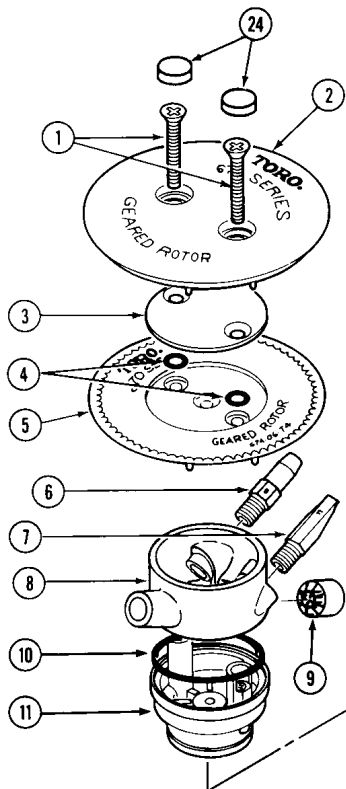
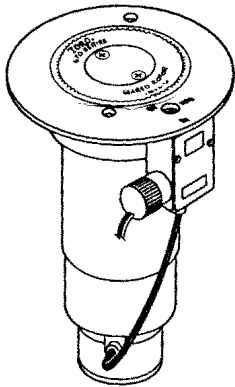
780 Series Ribless Body Conversion Assembly



Item No.	Part No.	Description	Quantity Per Assy.
1	89-1220	Plug, Adjustment	1
2	363-3150	Screw, Set, 10-32 x 1/4" (PC Only)	1
3	363-4039	Nut, 5/16-24 w/Nylon Lock	1
4	89-1589	Plug, Cap	1
5	89-1584	Cap, 780	1
5	89-8288	Cap, Effluent	1
6	89-1925	Nozzle, Main, 82 Yellow	1
6	89-1926	Nozzle, Main, 83 Blue	1
6	89-1927	Nozzle, Main, 84 Brown	1
6	89-1928	Nozzle, Main, 85 Orange	1
6	89-1929	Nozzle, Main, 86 Green	1
6	89-1930	Nozzle, Main, 87 Gray	1
6	89-1931	Nozzle, Main, 88 Black	1
6	89-4655	Nozzle, Main, 89 Red	1
7	102-2105	Nozzle, Intermediate, Blue (Use with #82 Yellow and #83 Blue Main Nozzles)	1
7	102-0608	Nozzle, Intermediate, Orange (Use with #84 Brown Main Nozzle)	1
7	102-0609	Nozzle, Intermediate, Gray (Use with #85 Orange Main Nozzle)	1
7	102-0610	Nozzle, Intermediate, Gray (Use with #86 Green and #87 Gray Main Nozzles)	1
7	102-0823	Nozzle, Intermediate, Beige (Use with #88 Black and #89 Red Main Nozzles)	1
8	102-2980	Nozzle Assy., Inner, Red w/Restrictor	1
9	89-1906	Nozzle Base Assy., 760/780	1

Item No.	Part No.	Description	Quantity Per Assy.
9	102-0057	Nozzle Base Assy., 760/780 w/Back Nozzle (Includes 89-3729 Nozzle, Inner #85, Orange and 89-4650 Restrictor)	1
10	360-0107	O-Ring	1
11	89-7568	Sleeve, Retainer, O-Ring, 780 Conversion	1
12	363-4103	O-Ring	1
13	89-6307	Spring, Return	1
14	89-7569	Seal, Riser	1
15	89-6360	Riser Assy., 760	1
16	102-4497	Drive Assy., PC, 12-Pack	1
16	102-4496	Drive Assy., FC, 12-Pack	1
17	89-1958	Stator Support	1
18	89-1957	Stator, Variable	1
19	89-1588	Screen, 760 & 780	1
		SERVICE ITEMS	
	363-3125	Nozzle, Main, Blank, Black	
	102-0840	Nozzle, Inner/Intermediate, Blank, Red	
	89-4651	Nozzle, Inner, 82 Yellow (Pre-November 2003)	
	89-3942	Nozzle, Inner, 83 Blue (Pre-November 2003)	
	89-4652	Nozzle, Inner, 84 Brown (Pre-November 2003)	
	89-3729	Nozzle, Inner, 85 Orange (Pre-November 2003)	
	89-4653	Nozzle, Inner, 86 Green (Pre-November 2003)	
	89-1879	Nozzle, Inner, 87 Gray (Pre-November 2003)	
	89-4654	Nozzle, Inner, 88 Black (Pre-November 2003)	
	89-1878	Nozzle, Inner, 89 Red (Pre-November 2003)	
	89-4649	Restrictor, (82 & 83 Black) (Pre-November 2003)	
	89-4650	Restrictor, (84–89 White) (Pre-November 2003)	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-15	Selector Tool (Flag Key)	
	995-55	Riser Hold-up Tool	
	995-79	Nut Driver, 7/16" (For Inner & Intermediate Nozzles)	
	995-80	Nut Driver, 1/2" (For 363-4039 Lock Nut)	
	995-81	Nut Driver, 9/16" (For Main Nozzle)	
	995-82	Arc Adjustment Tool 3/32" (T-handle Hex Wrench)	
	995-83	Multi-purpose Tool	
	995-85	Riser Removal Tool	
	995-101	Valve Insertion Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
		* Order Through Finished Goods Distribution System–Minneapolis	

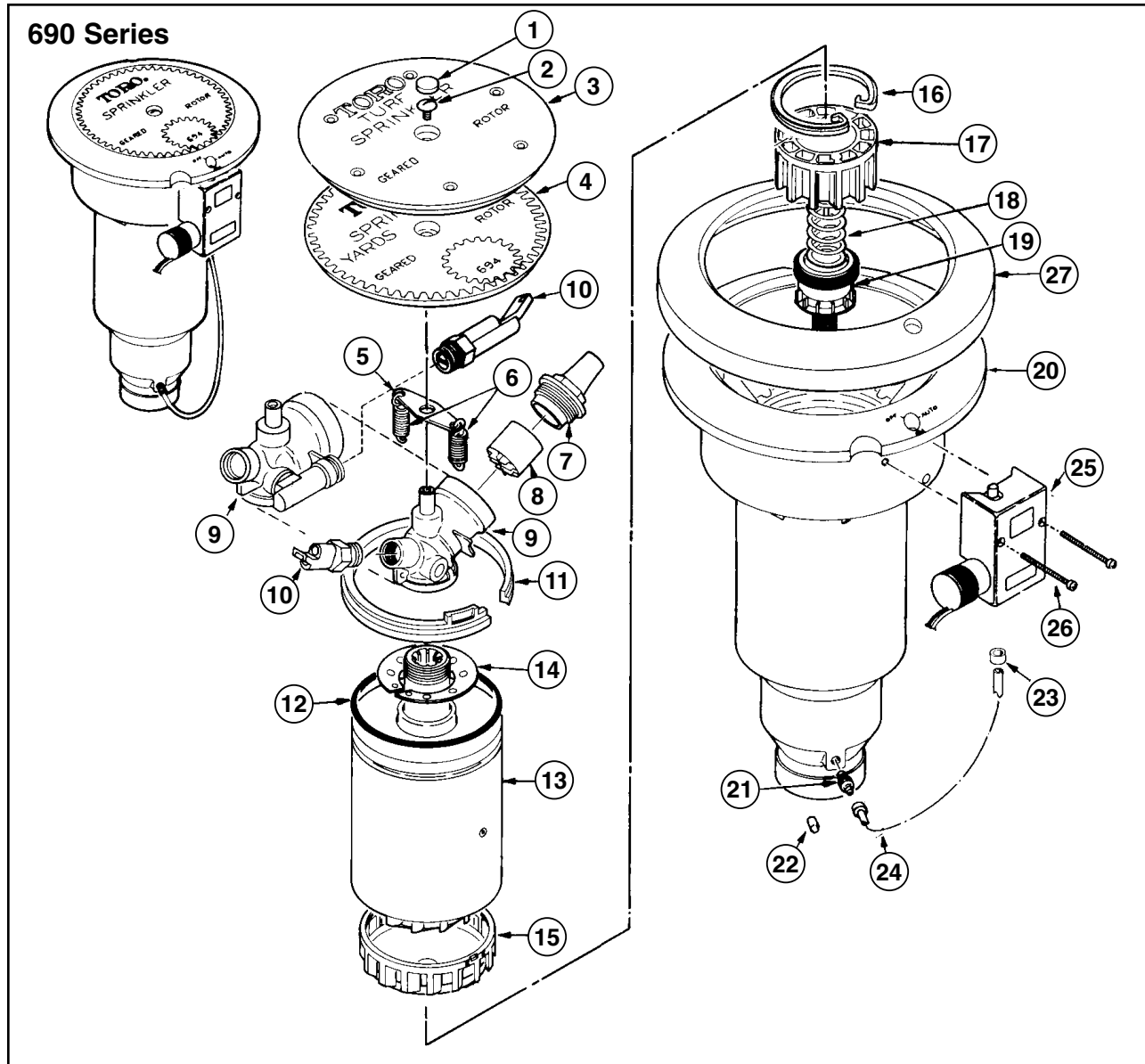
670 Series



Model Number Information

674-XX-XXX				
Arc	Body	Valve	Nozzle	Pressure Regulation *
4 = Full-circle	0 = NPT 4 = ACME 5 = BSP	1 = NO Valve-In-Head 2 = Check-O-Matic 6 = Electric Valve-In-Head	70 71 72 73 74	6 = 65 PSI 8 = 80 PSI 1 = 100 PSI
				* Pressure Regulation available on Electric and NC VIH models only.

Item No.	Part No.	Description	Quantity Per Assy.
1	363-1571	Screw, Machine, 1/4-20 X 2", SST	2
2	9-5633	Cap Assy, Rubber Cover	1
3	9-3735	Plate, Cap, Insert	1
4	360-0107	O-Ring, 0.070" x 0.301" x 0.441"	2
5	35-0530	Cap, Sprinkler, 670	1
6	9-2793	Nozzle, "0" Intermediate	1
7	9-7177	Nozzle, "F" Inner	1
8	9-7962	Ring, Nozzle Assy., #70 (5/16")	1
8	9-7963	Ring, Nozzle Assy., #71 (11/32")	1
8	9-7964	Ring, Nozzle Assy., #72 (3/8")	1
8	9-7965	Ring, Nozzle Assy., #73 (13/32")	1
8	9-7966	Ring, Nozzle Assy., #74 (7/16")	1
9	89-5813	Straightener, Stream	1
10	360-0398	O-Ring, 0.070" x 1.989" x 2.129"	1
11	9-7407	Nozzle Base Assy.	1
12	9-5075	O-Ring, Housing, Outer	1
13	35-6119	Ring, Snap, Head	1
14	9-5055	Spring Retainer & Plate Assembly	1
15	363-4103	O-Ring, Paraffin AS-568 234	1
16	9-3737	Spring, Return	1
17	9-3874	Drive Assy., Outer Housing	1
18	9-3908	Drive Assy. (Includes Item 17)	1
19	9-4091	Stator, Fixed (Used with #70 & #71 Nozzle)	1
19	9-4529	Stator, Variable (Used with #72, #73 & #74 Nozzle)	1
20	35-3611	Screen, Debris	1
21	-----	Body Assy. (See p. 104)	1
22	-----	Pilot Valve Assy. (See p. 108)	1
23	9-5355	Cover, Flange, Rubber	1
24	3-2518	Plug, Cap, Rubber	1
		SERVICE ITEMS	
	89-0475	670 Nozzle Assy., #70 (Includes Items 1 & 3-12)	
	9-7415	670 Nozzle Assy., #71 (Includes Items 1 & 3-12)	
	9-7416	670 Nozzle Assy., #72 (Includes Items 1 & 3-12)	
	9-7417	670 Nozzle Assy., #73 (Includes Items 1 & 3-12)	
	9-7418	670 Nozzle Assy., #74 (Includes Items 1 & 3-12)	
	9-7271	Adapter, Tubing (Oversize Thread)	
	35-3599	Stream Straightener, Debris Resistant	
	670-01	Kit, Rubber Cover (Includes Items 2, 23 & 24)	
		SERVICE TOOLS	
	995-09	Valve Removal Tool	
	995-15	Selector Tool (Flag Key)	
	995-83	Multi-purpose Tool	
	995-100	Valve Snap Ring Pliers with Screen Remover	
	995-101	Valve Insertion Tool	



Model Number Information

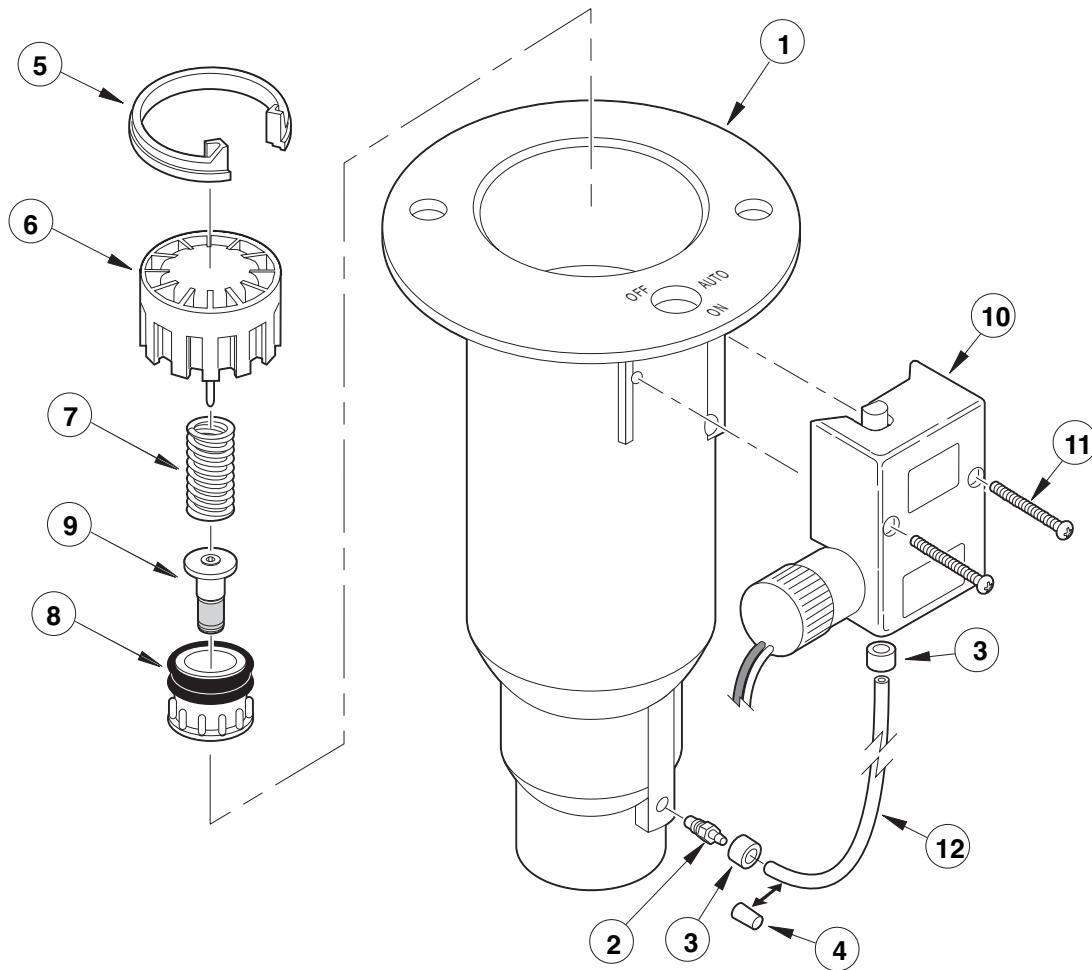
69X-XX-XXX				
Arc	Body Threads	Valve	Nozzle	Pressure Regulation *
1 = 90° Quarter-circle	0 = NPT	1 = NO Valve-In-Head	90	8 = 80 PSI
2 = 180° Half-circle		2 = Check-O-Matic	91	1 = 100 PSI
4 = Full-circle		6 = Electric Valve-In-Head	92	
6 = Full-circle, 2-speed, (60°-120°)				
8 = Full-circle, 2-speed, (180°-180°)				
A = 150°				
B = 165°				
C = 195°				
D = 210°				

* Pressure Regulation available on Electric & NC VIH models only.

Item No.	Part No.	Description	Quantity Per Assy.
1	3-2518	Plug, Cap , Rubber	1
2	3-3567	Screw, Machine, 1/4-20 x3/8"	1
3	3-3582	Cover, Cap, Rubber	1
4	3-3532	Cap	1
5	9-2734	Strap, Spring	1

Item No.	Part No.	Description	Quantity Per Assy.
6	9-2738	Spring, Retraction	2
7	89-5816	Nozzle, Main, 3/8", #90	1
7	3-3542	Nozzle, Main, 7/16", #91	1
7	3-3543	Nozzle, Main, 1/2", #92	1
8	3-3535	Straightener, Stream	1
9	3-3531	Base, Nozzle, Full-circle	1
9	9-1079	Base, Nozzle, Part-circle	1
10	9-5535	Nozzle, Back	1
11	3-3536	Snap Ring, Head	1
12	363-3210	O-Ring, 0.139" x 4.359" x 4.637"	1
13	9-1849	Drive Assy., Quarter-circle, 691 (Includes Item 14)	1
13	9-1850	Drive Assy., Half-circle, 692 (Includes Item 14)	1
13	3-3585	Drive Assy., Full-circle, 694 (Includes Item 14)	1
13	35-5123	Drive Assy., 696, 2-Speed, 60°-120° (Includes Item 14)	1
13	3-3549	Drive Assy., 698, 2-Speed 180° (Includes Item 14)	1
13	89-8145	Drive Assy., 150° (Includes Item 14)	1
13	89-8146	Drive Assy., 165° (Includes Item 14)	1
13	89-8147	Drive Assy., 195° (Includes Item 14)	1
13	89-8148	Drive Assy., 210° (Includes Item 14)	1
14	9-2736	Collar, Spring	1
15	3-3586	Stator, 3/8", #90	1
15	3-3568	Stator, 7/16", #91	1
15	3-3555	Stator, 1/2", #92	1
16	3-3304	Snap Ring, Valve	1
17	9-1479	Cylinder Assy., NO, COM & Drain Valve	1
17	102-0626	Cylinder Assy., EI & NC	1
18	3-3311	Spring, Valve, COM	1
18	3-3323	Spring, Valve, EL, NO, NC & Drain Valve	1
19	89-1201	Piston Assy., Valve, NO & COM	1
19	3-3355	Piston Assy., Valve, Drain	1
19	102-6311	Piston Assy., Valve, EI & NC	1
20	-----	Body, 690 (See Service Items)	1
21	9-6002	Adapter, Tubing, Threaded, 1/4"	1
22	*89-8157	Cap, Poly, 1/4"	1
23	*900-40	Retainer, Tube	2
24	9-2624	Tubing, Poly 1/4" x 16.5"	1
25	-----	Pilot Valve Assy. (See p. 108)	1
26	3-2696	Screw, Tap, #8	2
27	3-3581	Cover, Body, Rubber	1
		SERVICE ITEMS	
	3-3529	Cap Assy., Rubber Cover (Includes Items 3 & 4)	
	2-9647	Screw, Machine, #10-24 x 1.5"	
	3-3579	Body, Electric w/o/VIH (Includes Items 20-23)	
	89-4861	Body, Electric w/VIH (Includes Items 16-23)	
	89-4873	Body, Electric w/VIH, 80 psi. PV (Includes Items 16-21 and 23-26)	
	89-1019	Body, Electric w/VIH, 100 psi. PV (Includes Items 16-21 and 23-26)	
	3-3558	Body, Hydraulic NO w/o/VIH (Includes Items 20-23)	
	89-1038	Body, Hydraulic NO w/VIH (Includes Items 16-23)	
	9-1497	Body, COM w/o/VIH (Includes Items 20, 21, 23 and 24)	
	89-4879	Body, COM w/VIH (Includes Items 16-21, 23 and 24)	
	-----	Pilot Valve Assy., 100 Lbs. w/Tubing (includes Items 21& 23-26)	
	9-4079	Nozzle Assy., 690-90 (Includes Items 7-10)	
	9-4080	Nozzle Assy., 690-91 (Includes Items 7-10)	
	9-4081	Nozzle Assy., 690-92 (Includes Items 7-10)	
	9-4083	Nozzle Assy., 694-90 (Includes Items 7-10)	
	9-4084	Nozzle Assy., 694-91 (Includes Items 7-10)	
	9-4085	Nozzle Assy., 694-92 (Includes Items 7-10)	
	9-5747	Nozzle Base Assy., 690, Dual Back Nozzles (Front & Back)	
	9-2669	Retraction Assy., Spring (Includes Items 5, 6, 11 & 14)	
	690-01	Kit, Cover, Rubber (Includes Items 1, 3 & 27)	
	9-7271	Adapter, Tubing, Oversized Thread	
		SERVICE TOOLS	
	995-06	Drive Assy. Extraction Tool	
	995-100	Valve Snap Ring Pliers	
	995-09	Valve Removal Tool	
	995-12	Valve Insertion Tool	
	995-15	Selector Tool (Flag Key)	
	995-17	Riser Pliers	
	995-20	Valve Insertion Tool, Rubber Cover	
	995-22	Hose Adapter	
	995-49	*Pressure Gauge	
	995-50	Pilot Tube	
	995-51	Pressure Gauge Kit	
	995-100	Valve Snap Ring Pliers with Screen Remover	
		* Order Through Finished Goods Distribution System-Minneapolis	

Golf Sprinkler Body — 1 Inch

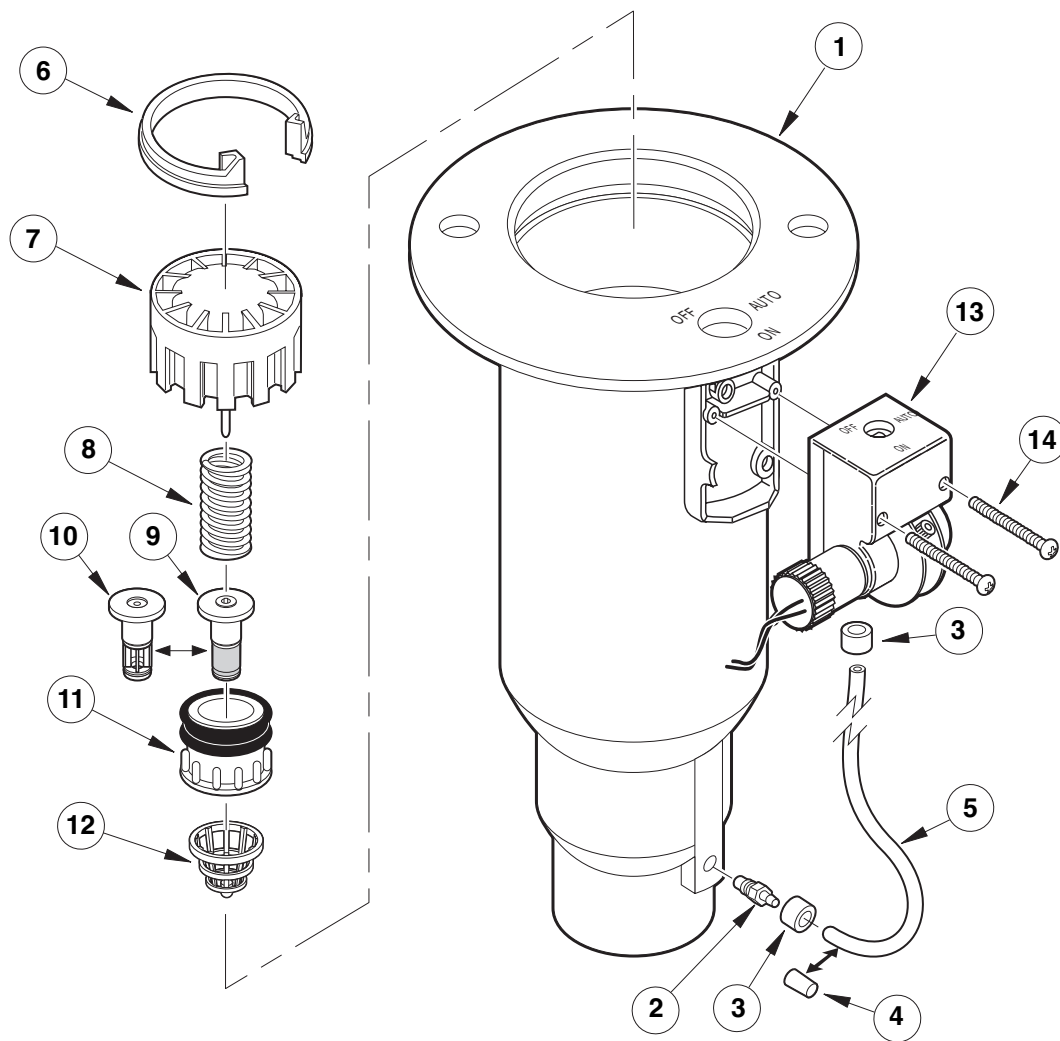


Item No.	Part No.	Description	Quantity Per Assy.
		1 INCH NPT BODY STYLE	
1	35-9421	Electric w/o VIH (Includes Items 1-4)	1
1	**89-4128	Electric w/o VIH, Ribless (Includes Items 1-4)	1
1	102-0083	Electric w/VIH, 720 (Includes Items 1-9)	1
1	35-9418	Hydraulic NO w/o VIH (Includes Items 1-4)	1
1	**89-4126	Hydraulic NO w/o VIH, Ribless (Includes Items 1-4)	1
1	35-9453	COM w/o VIH (Includes Items 1-3 & 12)	1
1	**89-4127	COM w/o VIH, Ribless (Includes Items 1-3 & 12)	1
		1 INCH BSP BODY STYLE	
1	35-9386	Electric w/o VIH (Includes Items 1-4)	1
1	**89-4131	Electric w/o VIH, Ribless (Includes Items 1-4)	1
1	102-0084	Electric w/VIH, 720 (Includes Items 1-9)	1
1	35-9385	Hydraulic NO w/o VIH (Includes Items 1-4)	1
1	**89-4129	Hydraulic NO w/o VIH, Ribless (Includes Items 1-4)	1
1	35-9294	COM w/o VIH (Includes Items 1-3 & 12)	1
1	**89-4130	COM w/o VIH, Ribless (Includes Items 1-3 & 12)	1

****Note:** Ribless bodies are used with sprinklers manufactured prior to July 1993.

Item No.	Part No.	Description	Quantity Per Assy.
		1 INCH ACME BODY STYLE	
1	89-8635	1" ACME Body Style, Electric w/o VIH (Includes Items 1-4)	1
1	102-0085	1" ACME Body Style, Electric w/VIH, 720 (Includes Items 1-9)	1
1	89-8643	1" ACME Body Style, Hydraulic NO w/o VIH (Includes Items 1-4)	1
1	89-8641	1" ACME Body Style, COM w/o VIH (Includes Items 1-3 & 12)	1
2	9-6002	Adapter, Tubing, Threaded, 1/4"	1
3	*900-40	Retainer, Tube	2
4	89-8157	Cap, Poly	1
5	89-4702	Snap Ring, Valve	1
6	9-1485	Cylinder Assy., NO & COM	1
6	9-1487	Cylinder Assy., EL & NC	1
7	3-2633	Spring, Valve, NO, EL & NC	1
7	89-5821	Spring, Valve, COM	1
8	89-1044	Piston Assy., NO & COM	1
8	89-1054	Piston Assy., EL & NC, (Includes Item 9)	1
8	102-0081	Piston Assy., EL (720 Only) (Includes Item 9)	1
9	35-9646	Filter Assy., Metering, EL & NC	1
10	- - - - -	Pilot Valve Assy. (See p. 108)	1
11	3-2696	Screw, Tap #8	2
12	9-2622	Tubing, Poly, 1/4" x 6 1/4", EL & NC	1
12	9-1876	Tubing, Poly, 1/4" x 12", COM	1
		SERVICE ITEMS	
	89-1046	Valve Assy., NO (Includes Items 6-8)	
	89-1047	Valve Assy., COM (Includes Items 6-8)	
	89-1048	Valve Assy., EL, NC (Includes Items 6-9)	
	102-0082	Valve Assy., EL, 720 (Includes Items 6-9)	
	9-7271	Adapter, 1/4" Poly (Oversize Thread)	
		* Order Through Finished Goods Distribution System—Minneapolis	

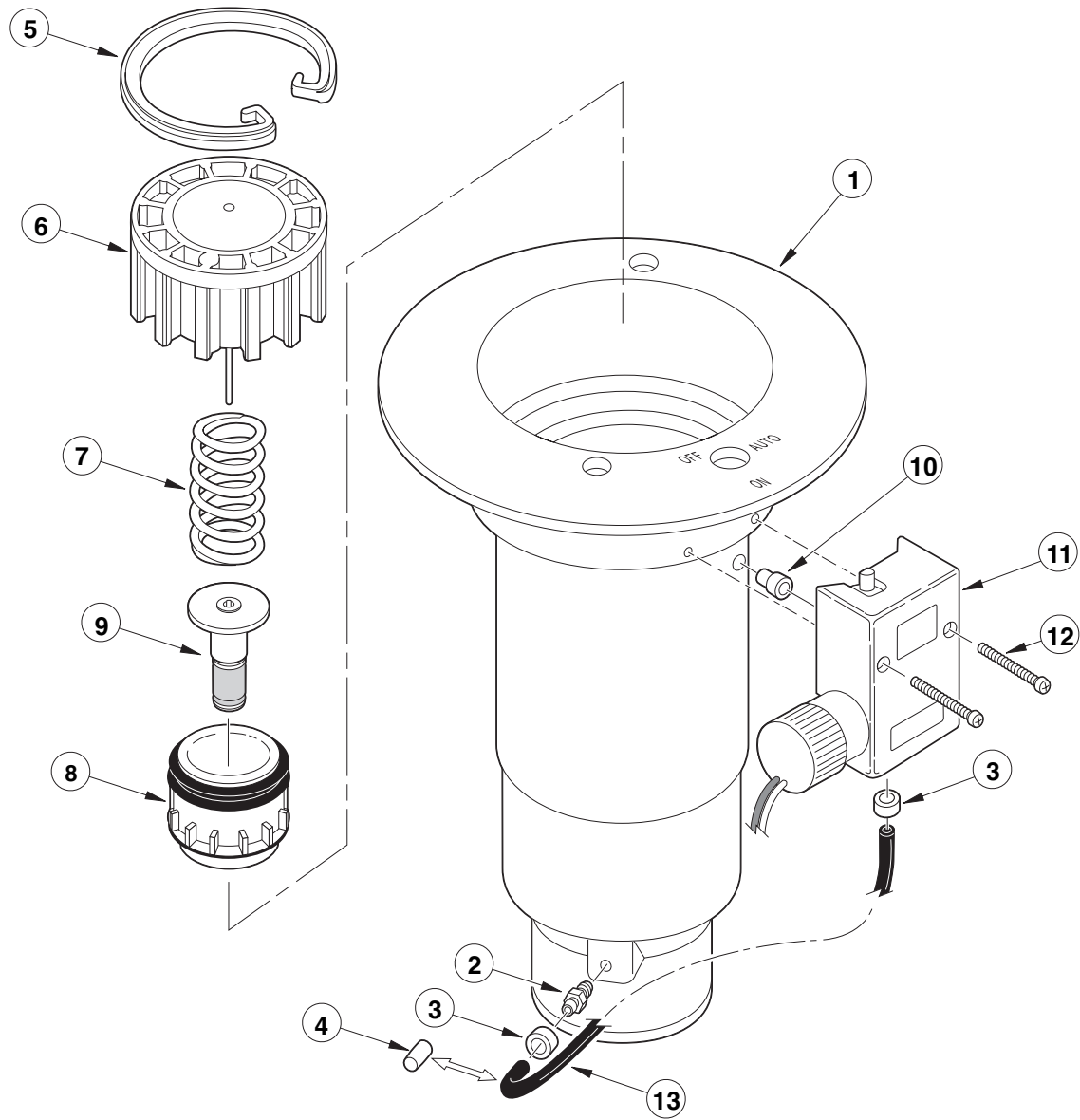
Golf Sprinkler Body — 1 Inch — 800S & DT Series



Item No.	Part No.	Description	Quantity Per Assy.
1	102-1090	1 INCH NPT BODY STYLE Electric w/o VIH (Includes Items 1–2)	1
1	102-1084	Hydraulic NO w/o VIH (Includes Items 1–2)	1
1	102-1078	COM w/o VIH (Includes Items 1–3 & 5)	1
1	102-1092	1 INCH BSP BODY STYLE Electric w/o VIH (Includes Items 1–2)	1
1	102-1086	Hydraulic NO w/o VIH (Includes Items 1–2)	1
1	102-1080	COM w/o VIH (Includes Items 1–3 & 5)	1
1	102-1094	1 INCH BSP BODY STYLE 1" ACME Body Style, Electric w/o VIH (Includes Items 1–2)	1
1	102-1088	1" ACME Body Style, Hydraulic NO w/o VIH (Includes Items 1–2)	1
1	102-1082	1" ACME Body Style, COM w/o VIH (Includes Items 1–3 & 5)	1

Item No.	Part No.	Description	Quantity Per Assy.
2	9-6002	Adapter, Tubing, Threaded, 1/4"	1
3	*900-40	Retainer, Tube	2
4	89-8157	Cap, Poly	1
5	9-2623	Tubing, Poly, 1/4" x 8", EL	1
5	9-1876	Tubing, Poly, 1/4" x 12", COM	1
6	89-4702	Snap Ring, Valve	1
7	102-0623	Cylinder Assy., EL & NO/COM	1
8	3-2633	Spring, Valve, NO/EL, Silver	1
8	89-5821	Spring, Valve, COM, Black	1
9	35-9646	Filter Assy., Metering, EL	1
10	102-6529	Filter Assy., Non-Metering, NO/COM	1
11	102-6314	Piston Assy., NO & COM (Includes Item 10)	1
11	89-1054	Piston Assy., EL (Includes Item 9)	1
12	102-0784	Rock Screen, 1"	1
13	- - - - -	Pilot Valve Assy. (See p. 109)	1
14	3-2696	Screw, Tap #8	2
		SERVICE ITEMS	
	102-6313	Valve Assy., NO (Includes Items 7, 8, 10 & 11)	
	102-6312	Valve Assy., COM (Includes Items 7, 8, 10 & 11)	
	102-0624	Valve Assy., EL, NC (Includes Items 7-9, & 11)	
		* Order Through Finished Goods Distribution System—Minneapolis	

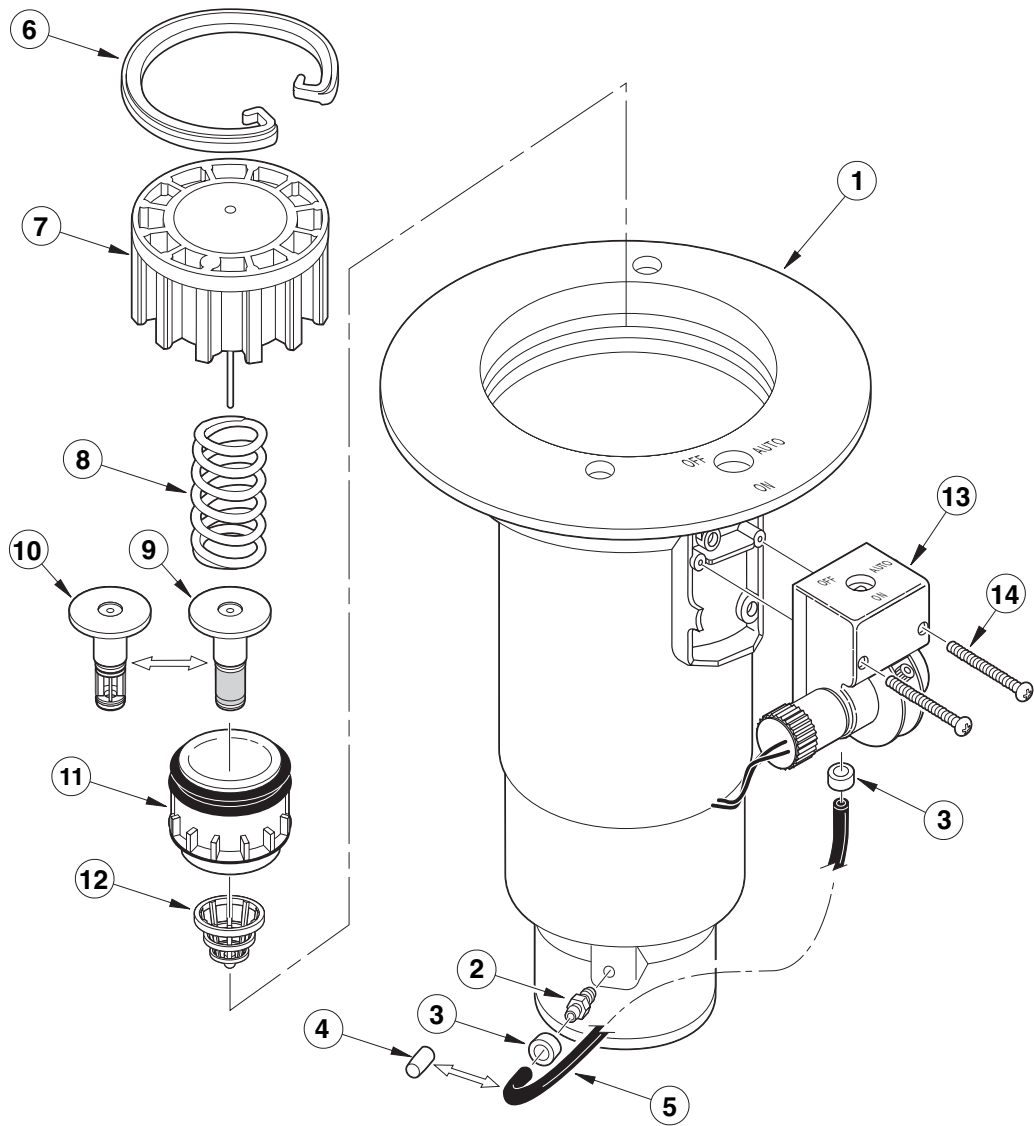
Golf Sprinkler Body – 1.5 Inch



Item No.	Part No.	Description	Quantity Per Assy.
		1.5 INCH NPT BODY STYLE	
1	3-3389	Electric w/o VIH (Includes Items 1–4)	1
1	3-3343	Hydraulic NO w/o VIH (Includes Items 1–4)	1
1	9-1257	COM w/o VIH (Includes Items 1–3 & 13)	1
		1.5 INCH BSP BODY STYLE	
1	35-5362	Electric w/o VIH (Includes Items 1–4)	1
1	35-5322	COM w/o VIH (Includes Items 1–3 & 13)	1
1	35-5245	Hydraulic NO w/o VIH (Includes Items 1–4)	1
		1.5 INCH ACME BODY STYLE	
1	89-8646	Electric w/o VIH (Includes Items 1–4)	1
1	89-8652	COM w/o VIH (Includes Items 1–3 & 13)	1
1	89-8654	Hydraulic NO w/o VIH (Includes Items 1–4)	1

Item No.	Part No.	Description	Quantity Per Assy.
2	9-6002	Adapter, Tubing, Threaded, 1/4"	1
3	*900-40	Retainer, Tube	1 or 2
4	89-8157	Cap, Poly	1
5	3-3304	Snap Ring, Valve	1
6	9-1479	Cylinder Assy., COM & NO	1
6	102-0626	Cylinder Assy., EL & NC	1
7	3-3323	Spring, Valve, EL, NO, & NC, Silver	1
7	3-3311	Spring, Valve, COM, Black	1
8	89-1201	Piston Assy., COM & NO	1
8	102-5101	Piston Assy., EL & NC (Includes Item 9)	1
9	35-9645	Filter Assy., Metering, EL & NC	1
10	35-7663	Adapter, Pilot Valve to Body	1
11	-----	Pilot Valve Assy. (See p. 108)	1
12	3-2696	Screw, Tap #8	2
13	9-2623	Tubing, Poly, 1/4" x 8", EL & NC	1
13	9-1876	Tubing, Poly, 1/4" x 11.5", COM	1
		SERVICE ITEMS	
	89-1036	Valve Assy., NO (Includes Items 6–8)	
	89-1037	Valve Assy., COM (Includes Items 6–8)	
	102-4003	Valve Assy., EL and NC (Includes Items 6–9)	
	9-7271	Adapter, 1/4" Poly (Oversize Thread)	
		* Order Through Finished Goods Distribution System–Minneapolis	

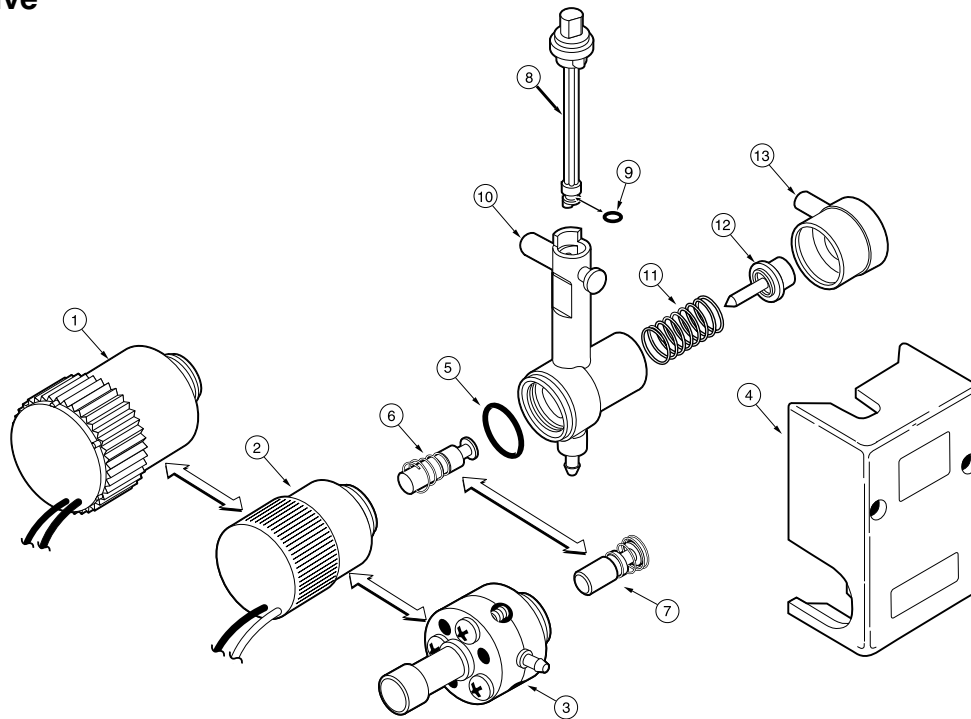
Golf Sprinkler Body – 1.5 Inch – 800S & DT Series



Item No.	Part No.	Description	Quantity Per Assy.
		1.5 INCH NPT BODY STYLE	
1	102-1149	Electric w/o VIH (Includes Items 1–2)	1
1	102-1143	Hydraulic NO w/o VIH (Includes Items 1–2)	1
1	102-1137	COM w/o VIH (Includes Items 1–3 & 5)	1
		1.5 INCH BSP BODY STYLE	
1	102-1151	Electric w/o VIH (Includes Items 1–2)	1
1	102-1139	COM w/o VIH (Includes Items 1–3 & 5)	1
1	102-1145	Hydraulic NO w/o VIH (Includes Items 1–2)	1
		1.5 INCH ACME BODY STYLE	
1	102-1153	Electric w/o VIH (Includes Items 1–2)	1
1	102-1141	COM w/o VIH (Includes Items 1–3 & 5)	1
1	102-1147	Hydraulic NO w/o VIH (Includes Items 1–2)	1

Item No.	Part No.	Description	Quantity Per Assy.
2	9-6002	Adapter, Tubing, Threaded, 1/4"	1
3	*900-40	Retainer, Tube	1 or 2
4	89-8157	Cap, Poly	1
5	9-2623	Tubing, Poly, 1/4" x 8", EL	1
5	9-2624	Tubing, Poly, 1/4" x 14", COM	1
6	3-3304	Snap Ring, Valve	1
7	102-0626	Cylinder Assy., EL & NO/COM	1
8	3-3323	Spring, Valve, EL/NO, Silver	1
8	3-3311	Spring, Valve, COM, Black	1
9	35-9645	Filter Assy., Metering, EL & NC	1
10	102-6530	Filter Assy., Non-Metering, NO/COM	1
11	102-6311	Piston Assy., COM & NO (Includes Item 10)	1
11	102-5101	Piston Assy., EL (Includes Item 9)	1
12	102-0785	Rock Screen, 1.5"	1
13	-----	Pilot Valve Assy. (See p. 109)	1
14	3-2696	Screw, Tap #8	2
		SERVICE ITEMS	
	102-6310	Valve Assy., NO (Includes Items 7, 8, 10 & 11)	
	102-6309	Valve Assy., COM (Includes Items 7, 8, 10 & 11)	
	102-4003	Valve Assy., EL (Includes Items 7-9 & 11)	
		* Order Through Finished Goods Distribution System—Minneapolis	

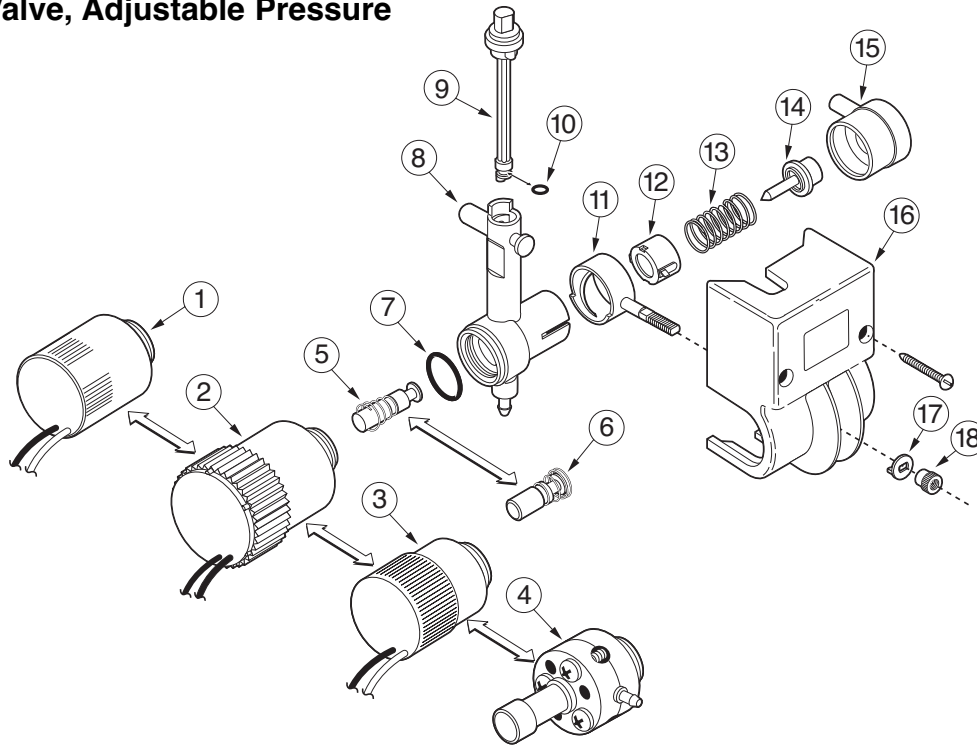
Pilot Valve



Item No.	Part No.	Description	Quantity Per Assy.
1	102-6316	Solenoid, Low Wattage, w/Surge Protection (Black Wires)	1
1	102-6318	Solenoid, Low Wattage, w/Surge Protection, Nickel PLated (Red Wires)	1
1	102-2709	Solenoid, Low Wattage, 2-Wire Dec., w/Surge Protection (Red w/ Wht. & Blk wires)	1
2	118-0248	Solenoid, 600/700 Series (Red & Black Wires)	1
3	89-6005	Adapter, Pilot Valve, NC	1
4	89-0001	Housing, Pilot Valve	1
5	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	1
6	102-2110	Plunger Assy., EL, Saltwater Tolerant	1
6	102-7690	Plunger Assy., EL	1
7	89-6003	Plunger Assy., NC	1
8	102-0343	Selector Cam, Black (Includes Item 9)	1
9	1-2035	O-Ring, 0.070" x 0.114" x 0.254"	1
10	102-7723	Body Assy., Pilot Valve (Cross-reference with New Pilot Valve Assy. w/o Solenoid)	1
11	35-9970	Spring, 50 psi, Black	1
11	35-9971	Spring, 65 psi, Green	1
11	35-9972	Spring, 80 psi, Red	1
11	35-9973	Spring, 100 psi, Blue	1
12	89-0029	Piston	1
13	89-0005	Diaphragm Assy.	1

See Pilot Valve Assemblies with Adjustable Pressure.

Pilot Valve, Adjustable Pressure



Item No.	Part No.	Description	Quantity Per Assy.
1	102-2709	Solenoid, DC Latching, 2-Wire Decoder (Red w/White Stripe and Black Wires)	1
2	102-6316	Solenoid, Low Wattage, w/Surge Protection (Black Wires)	1
2	102-6318	Solenoid, Low Wattage, w/Surge Protection Nickel Plated (Red Wires)	1
2	102-4979	Solenoid, 3-Wire Decoder, w/Surge Protection (Yellow Wires)	1
3	118-0248	Solenoid, DT Series, 600/700 Series (Red and Black Wires)	1
4	89-6005	Adapter, Pilot Valve, NC	1
5	102-2110	Plunger Assy., EL, Nickel Plated	1
5	102-7690	Plunger Assy., EL	1
6	89-6003	Plunger Assy., NC	1
7	360-0220	O-Ring, 0.070" x 0.551" x 0.254"	1
8	102-4747	Body Assy., Pilot Valve	1
9	102-0343	Selector Cam, Black (Includes item 10)	1
9	102-4831	Selector Cam, Red (Includes item 10)	1
10	1-2035	O-Ring, 0.070" x 0.114" x 0.254"	1
11	102-2237	Adjuster, PSI	1
12	102-2236	Traveling Nut	1
13	102-2235	Spring	1
14	102-2469	Piston	1
15	102-2473	Diaphragm Assy.	1
16	102-2238	Housing, Pilot Valve	1
17	102-2606	Adjustment Locator	1
18	363-4441	Nut, Adjuster	1
		SERVICE ITEMS	
	102-5975	Pilot Valve Assy., Selectable Pressure Less Solenoid, Use w/All Electric Pilot Valve except Nickel Plated (Includes Items 5[102-7690] & 7-18)	
	102-5974	Pilot Valve Assy., Selectable Pressure w/Low Watt/High Surge Solenoid 800S Series (Includes Items 2[102-3443], 5[102-7690] & 7-18)	
	102-5178	Pilot Valve Assy., Selectable Pressure w/Standard Watt & Surge Solenoid, 600/700 Series (Includes Items 3, 5[102-7690] & 7-18)	
	102-5181	Pilot Valve Assy., Selectable Pressure w/Normally Closed Actuator (Includes Items 4 & 6-18)	
	102-5976	Pilot Valve Assy., Selectable Pressure w/Low Watt/High Surge Nickel Plated (Includes Items 2[102-0312], 5[102-2110] & 7-18)	
	102-5977	Pilot Valve Assy., Selectable Pressure w/Standard Watt/High Surge, 3-Wire Decoder (Includes Items 2[102-4979], 5[102-7690] & 7-18)	
	102-6533	Pilot Valve Assy., Selectable Pressure w/DC Latching Solenoid, 2-Wire Decoder (Includes Items 1, 5 [102-7690] & 7-18)	



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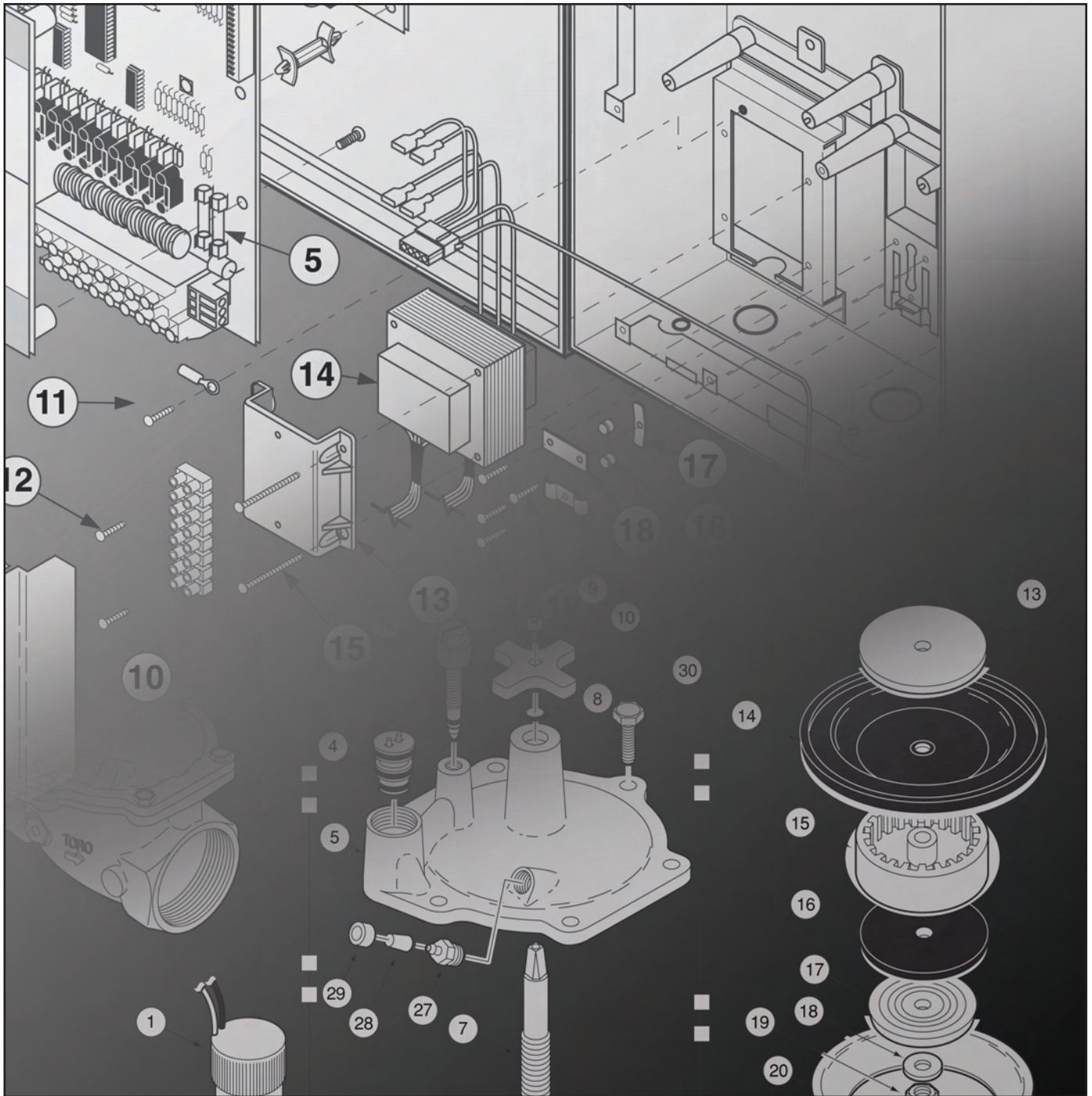
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TORO

2010 Irrigation Products

Illustrated Parts Breakout

Count on it.



Valves Section

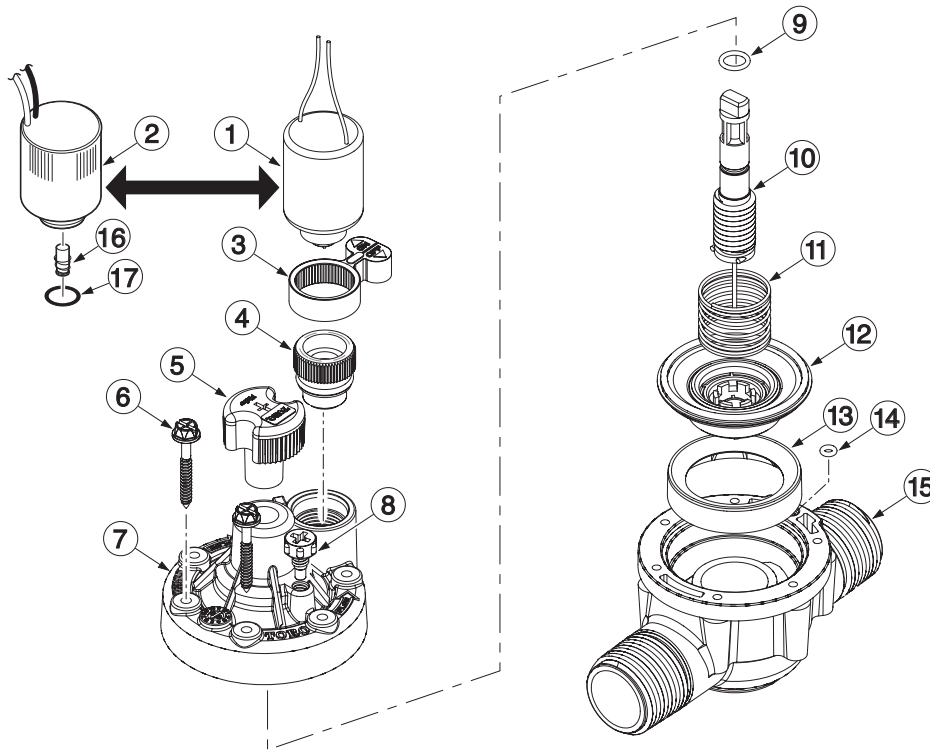
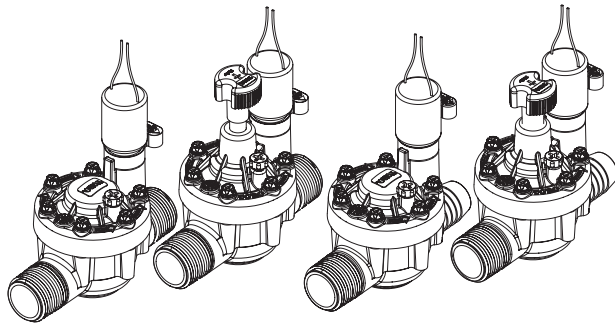
GENERAL INFORMATION

Please note the following usage guidelines:

- When dashes (- - -) are shown in place of a part number, the part is either not available for sale or not sold separately. Refer to the accompanying Service Items listing for availability.
- An asterisk (*) preceding a part number indicates the item is only available through the Toro Finished Goods Distribution System and must be ordered accordingly.
- This book is updated annually. The published part numbers and descriptions are subject to change. If changes and/or corrections are required, the updated information will be made available through the Toro Distributor Operations Bulletin and/or Tech Tip communications.
- Common abbreviations used within this publication:

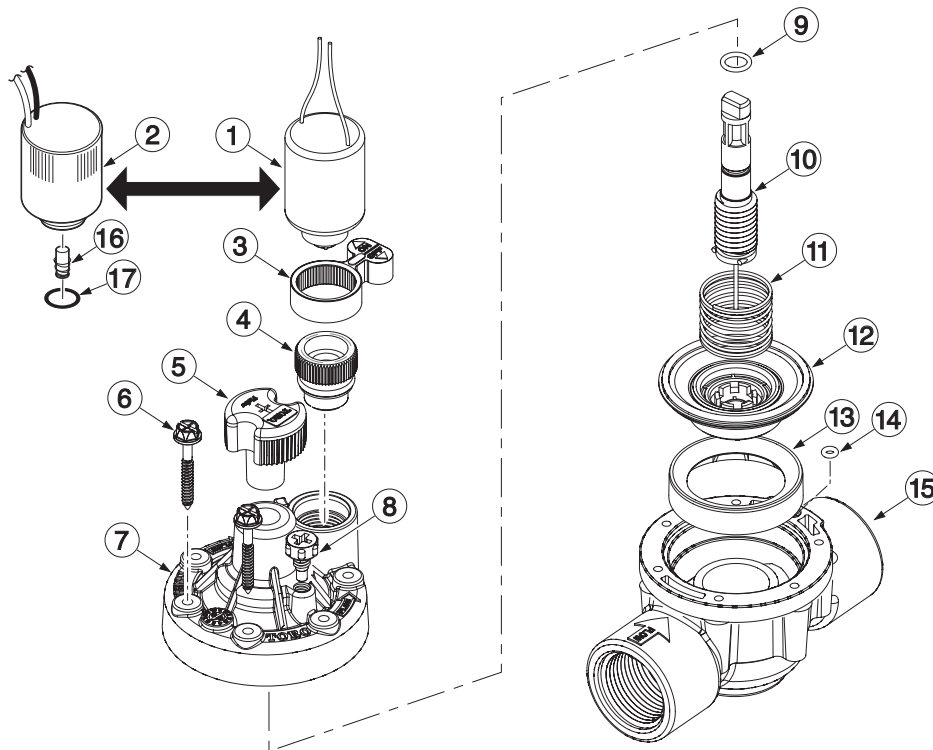
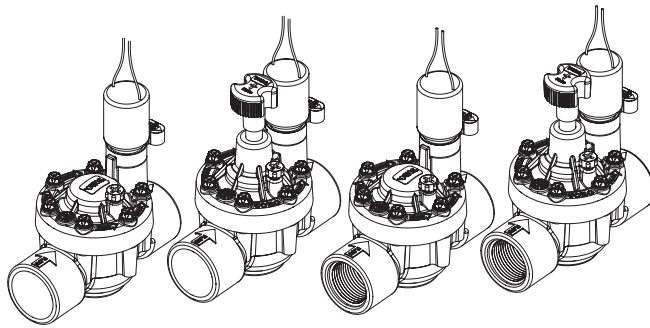
A	= Ampere	NO	= Normally Open (Micro Switch)
Amp	= Ampere	NPT	= National Pipe Thread
Assy.	= Assembly	PC	= Part Circle
ADJ	= Adjustable	Pot.	= Potentiometer
B	= Barbed	PV	= Pilot Valve
BSP	= British Standard Pipe	PHPH	= Pan Head Phillips Head
COM	= Check-O-Matic	PHFH	= Pan Head Fillister Head
CR	= Contamination Resistant	PT	= Pin Type (Hydraulic)
CSA	= Canadian Standards Association	PR	= Pressure Regulated
EL	= Electric	Prog.	= Program
Elec	= Electric	RC	= Rubber Cover
Exp	= Export	RPD	= Revolutions Per Day
F	= Female	RPM	= Revolutions Per Minute
FC	= Full Circle (Sprinkler)	S	= Slip
FC	= Flow Control (Valve)	SST	= Stainless Steel
GPM	= Gallons Per Minute	SI	= Side Inlet
Hyd.	= Hydraulic	Svc	= Service
Hz	= Hertz	TM	= Timing Mechanism
in.	= Inch	V	= Volts
Int.	= Internal	VAC	= Volts Alternating Current
Int. T	= Internal Tooth	VDC	= Volts Direct Current
L/	= Less	VA	= Volt Amps
lbs.	= Pounds	VIH	= Valve In Head
M	= Male	w/	= with
M/F	= Male/Female	w/o	= without
N/I	= Not Indicated	"	= Inches
NC	= Normally Closed (Hydraulic)	'	= Feet
NC	= Normally Closed (Micro Switch)		
NO	= Normally Open (Hydraulic)		

TPV Series Valves, 1 Inch Male



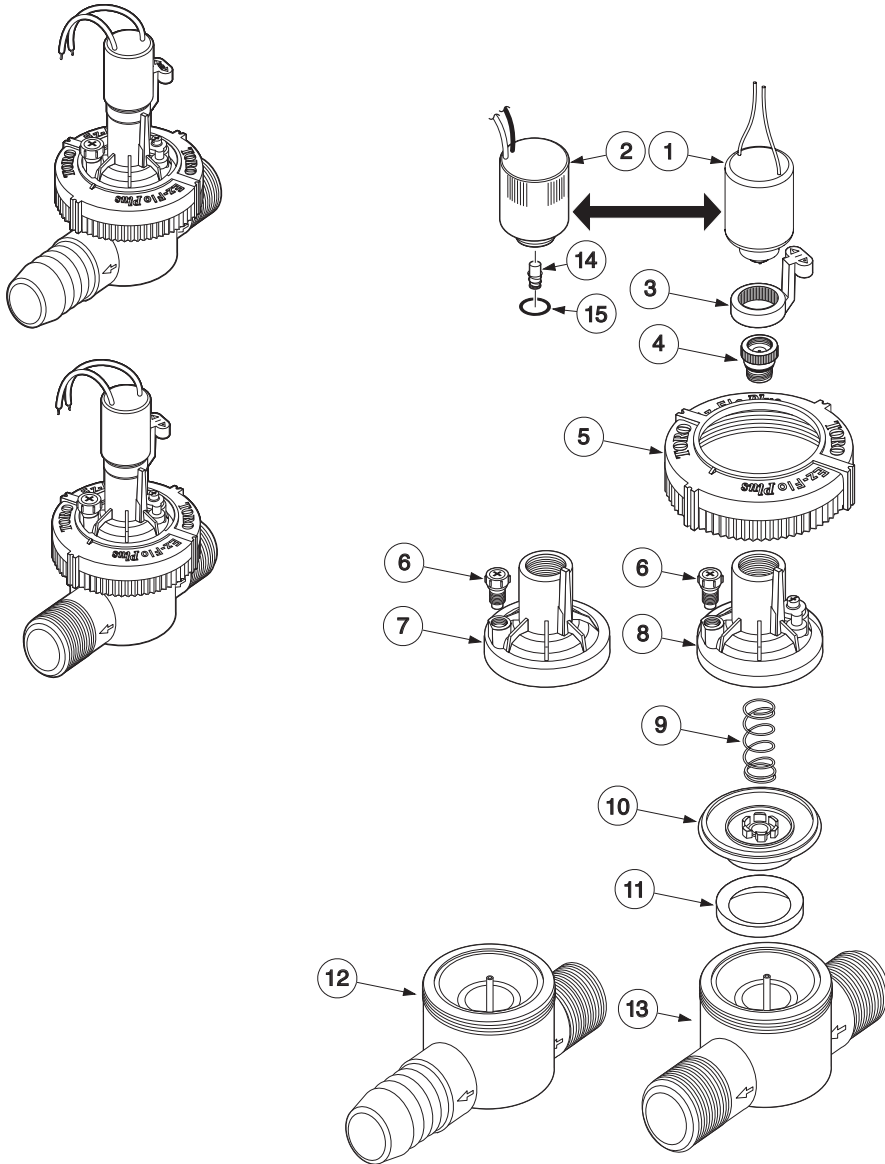
Item No.	Part No.	Description	Quantity Per Assy.
1	102-7053	Solenoid Assy., 24 VAC, 60 Hz	1
1	102-7054	Solenoid Assy., 24 VAC, 50 Hz	1
2	102-2709	Solenoid Assy., 24 DC, Latching	1
3	606902	Handle, Bleed Plug	1
4	102-5593	Bleed Plug Assy.	1
5	102-6622	Handle, Flow Control (Flow Control Models)	1
6	102-6644	Screw	6
7	102-6621	Cover Assy. (w/o Flow Control)	1
7	102-6620	Cover Assy. (Flow Control Models)	1
8	1081401	External Bleed Screw	1
9	363-4246	O-Ring, Stem Assembly (Flow Control Models)	1
10	1074701	Stem Assembly (Flow Control Models)	1
11	153201	Spring	1
12	152201	Diaphragm Assy.	1
13	1116602	Divider	1
14	531501	O-Ring, Body	1
15	102-6616	Body Assy., 1", M x M, NPT	1
15	102-6653	Body Assy., 1", M x M, BSP	1
15	102-6617	Body Assy., 1", M x B, NPT	1
16	89-9562	Plunger	1
17	360-0220	O-Ring	1
		SERVICE Items	
	EFF-Kit-60Hz	Reclaimed Water Solenoid Kit, Effluent, 60Hz, Domestic	
	EFF-Kit-50Hz	Reclaimed Water Solenoid Kit, Effluent, 50Hz, International	

TPV Series Valves, 1 Inch Female



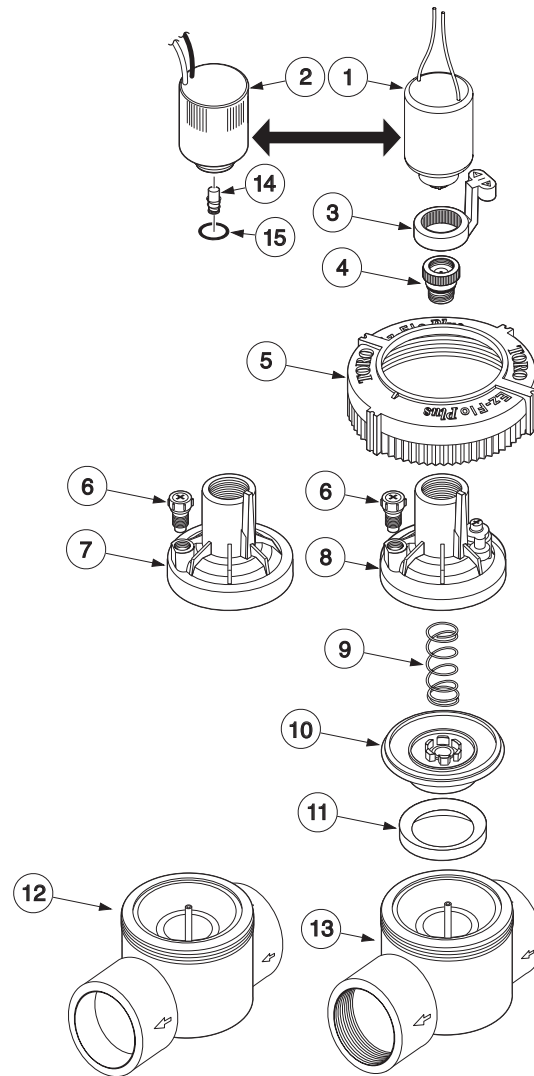
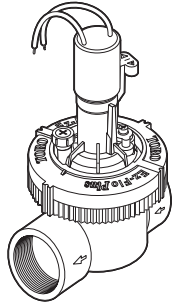
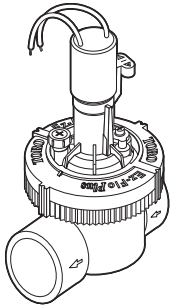
Item No.	Part No.	Description	Quantity Per Assy.
1	102-7053	Solenoid Assy., 24 VAC, 60 Hz	1
1	102-7054	Solenoid Assy., 24 VAC, 50 Hz	1
2	102-2709	Solenoid Assy., 24 DC, Latching	1
3	606902	Handle, Bleed Plug	1
4	102-5593	Bleed Plug Assy.	1
5	102-6622	Handle, Flow Control (Flow Control Models)	1
6	102-6644	Screw	6
7	102-6621	Cover Assy. (w/o Flow Control)	1
7	102-6620	Cover Assy. (Flow Control Models)	1
8	1081401	External Bleed Screw	1
9	363-4246	O-Ring, Stem Assembly (Flow Control Models)	1
10	1074701	Stem Assembly (Flow Control Models)	1
11	153201	Spring	1
12	152201	Diaphragm Assy.	1
13	1116602	Divider	1
14	531501	O-Ring, Body	1
15	102-6615	Body Assy., 1", F x F, NPT	1
15	102-6654	Body Assy., 1", F x F, BSP	1
15	102-6655	Body Assy., 1", S x S	1
16	89-9562	Plunger	1
17	360-0220	O-Ring	1
		SERVICE Items	
	EFF-Kit-60Hz	Reclaimed Water Solenoid Kit, Effluent, 60Hz, Domestic	
	EFF-Kit-50Hz	Reclaimed Water Solenoid Kit, Effluent, 50Hz, International	

EZ-Flo Plus Series, 1 Inch Male



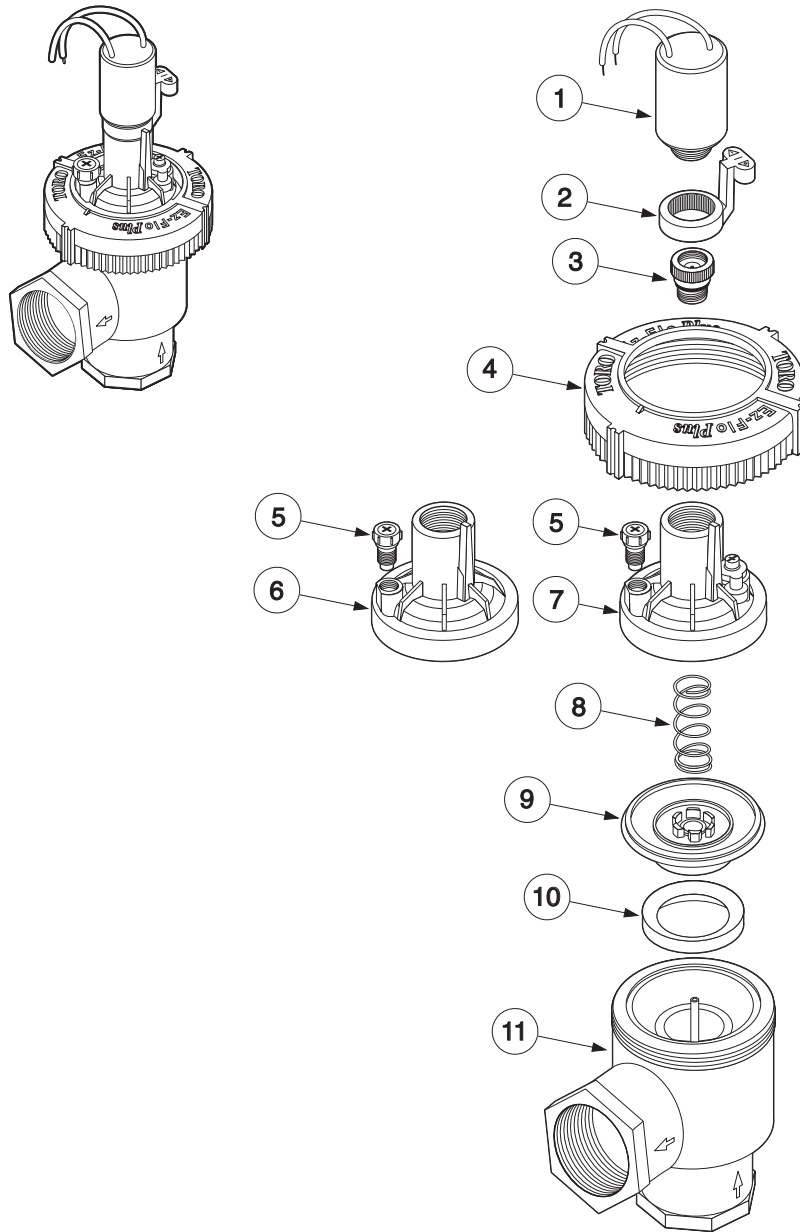
Item No.	Part No.	Description	Quantity Per Assy.
1	102-7053	Solenoid Assy., 24 VAC, 60 Hz	1
1	102-7054	Solenoid Assy., 24 VAC, 50 Hz	1
2	102-2709	Solenoid Assy., 24 DC, Latching	1
3	1081501	Handle, Bleed Plug	1
4	102-5593	Bleed Plug Assy., New	1
5	102-1717	Cover Nut	1
6	1081401	External Bleed Screw	1
7	512203	Cover Assy. (w/o Flow Control)	1
8	1115004	Cover Assy. (Flow Control Models)	1
9	204A-37	Spring	1
10	138802	Diaphragm Assy.	1
11	1116602	Divider	1
12	-----	Body Assy., 1", M x B, NPT	1
13	-----	Body Assy., 1", M x M, NPT	1
14	89-9562	Plunger	1
15	360-0220	O-Ring	1

EZ-Flo Plus Series, 1 Inch Female



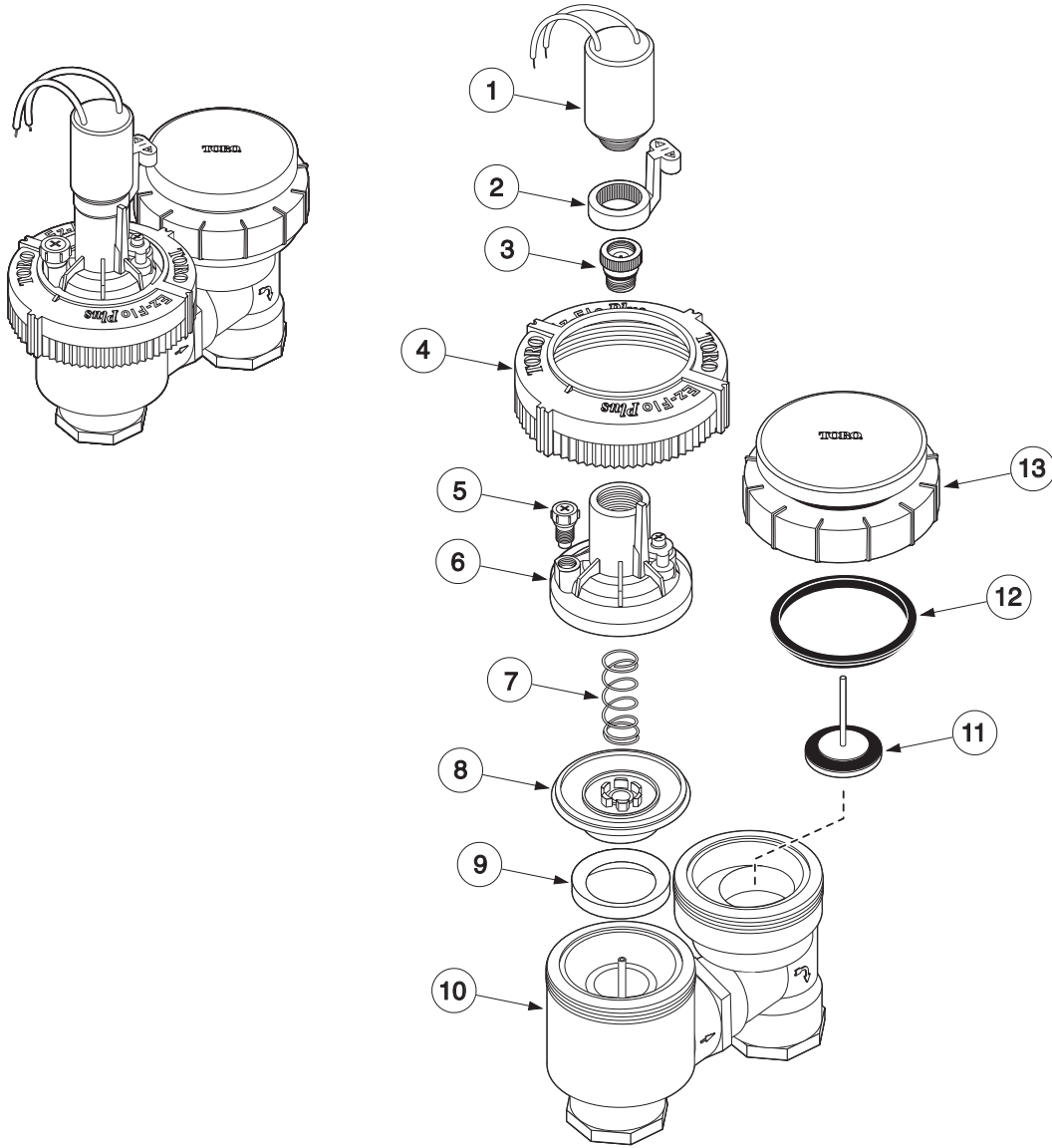
Item No.	Part No.	Description	Quantity Per Assy.
1	102-7053	Solenoid Assy., 24 VAC, 60 Hz	1
1	102-7054	Solenoid Assy., 24 VAC, 50 Hz	1
2	102-2709	Solenoid Assy., 24 DC, Latching	1
3	1081501	Handle, Bleed Plug	1
4	102-5593	Bleed Plug Assy., New	1
5	102-1717	Cover Nut	1
6	1081401	External Bleed Screw	1
7	512203	Cover Assy. (w/o Flow Control)	1
8	1115004	Cover Assy. (Flow Control Models)	1
9	204A-37	Spring	1
10	138802	Diaphragm Assy.	1
11	1116602	Divider	1
12	-----	Body Assy., 1", F x F, Slip	1
13	-----	Body Assy., 1", F x F, NPT	1
14	89-9562	Plunger	1
15	360-0220	O-Ring	1

EZ-Flo Plus Series, 1 Inch Angle



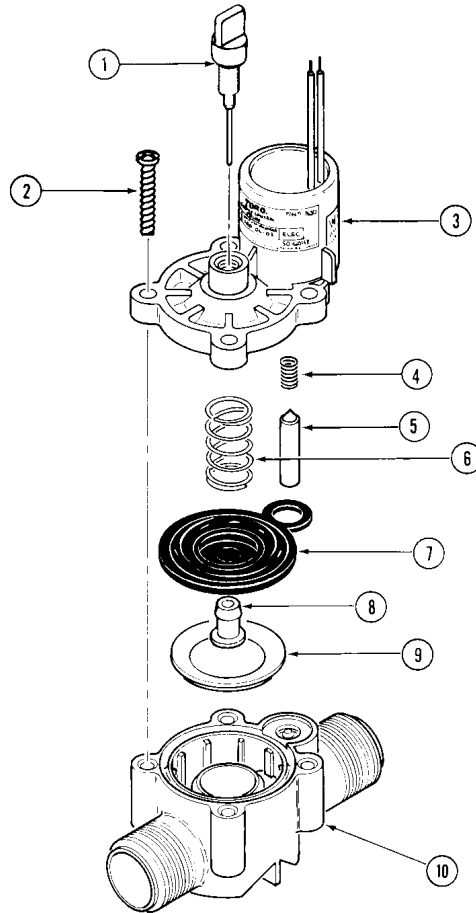
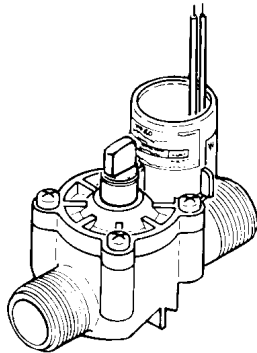
Item No.	Part No.	Description	Quantity Per Assy.
1	102-7053	Solenoid Assy., 24 VAC, 60 Hz	1
1	102-7054	Solenoid Assy., 24 VAC, 50 Hz	1
2	1081501	Handle, Bleed Plug	1
3	102-5593	Bleed Plug Assy., New	1
4	102-1717	Cover Nut	1
5	1081401	External Bleed Screw	1
6	512203	Cover Assy. (w/o Flow Control)	1
7	1115004	Cover Assy. (Flow Control Models)	1
8	204A-37	Spring	1
9	138802	Diaphragm Assy.	1
10	1116602	Divider	1
11	-----	Body Assy., 1", F x F, NPT	1

EZ-Flo Plus AVB Series, 3/4 Inch and 1 Inch



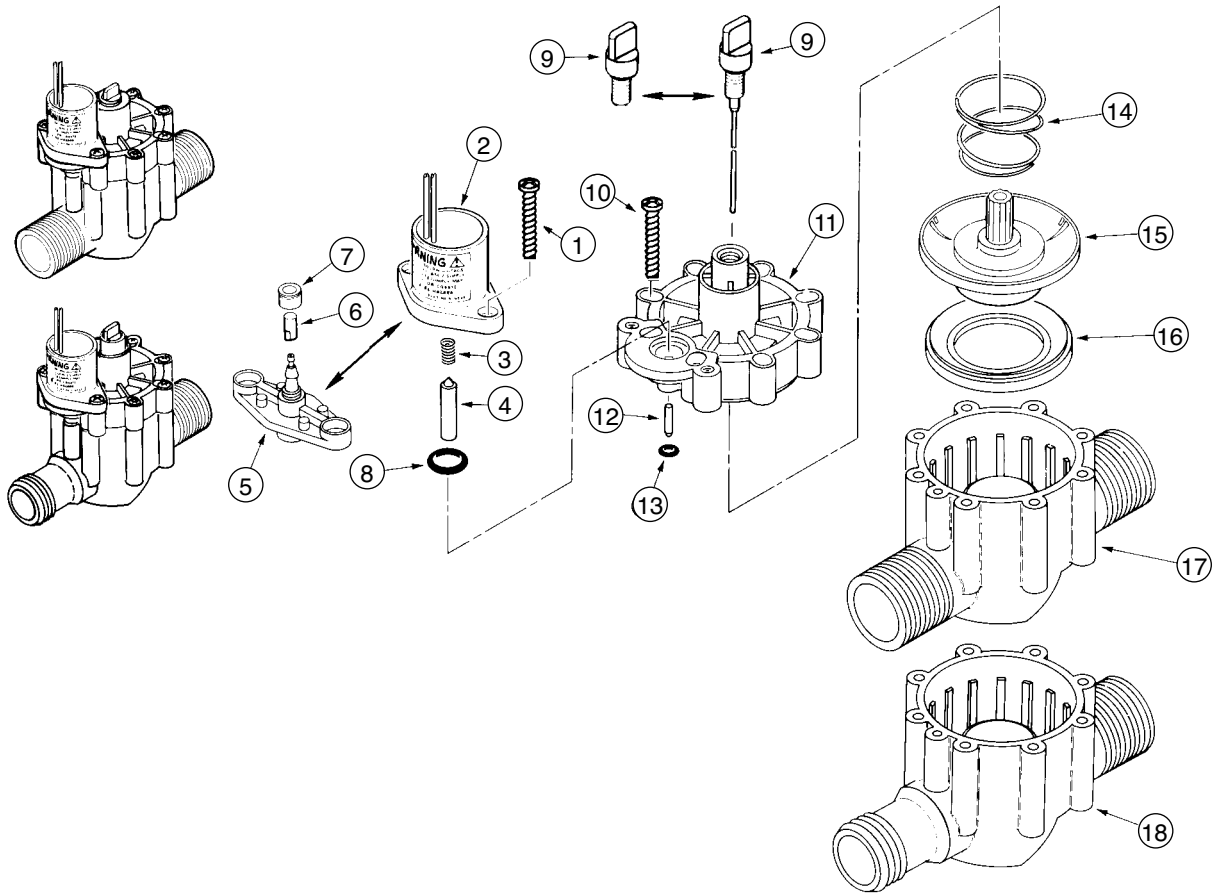
Item No.	Part No.	Description	Quantity Per Assy.
1	102-7053	Solenoid Assy., 24 VAC, 60 Hz	1
1	102-7054	Solenoid Assy., 24 VAC, 50 Hz	1
2	1081501	Handle, Bleed Plug	1
3	102-1197	Bleed Plug Assy., New	1
4	102-1717	Cover Nut	1
5	1081401	External Bleed Screw	1
6	1115004	Cover Assy.	1
7	204A-37	Spring	1
8	138802	Diaphragm Assy.	1
9	1116602	Divider	1
10	-----	Body Assy, 3/4", NPT	1
10	-----	Body Assy, 1", NPT	1
11	1088001	Stem Assy., 3/4"	1
11	1018601	Stem Assy., 1"	1
12	595901	Seal, Anti-Siphon Cover, 3/4"	1
12	655401	Seal, Anti-Siphon Cover, 1"	1
13	217107-H	Shield/Cover Assy., 3/4"	1
13	519111	Shield/Cover Assy., 1"	1

264 Series, 3/4 Inch



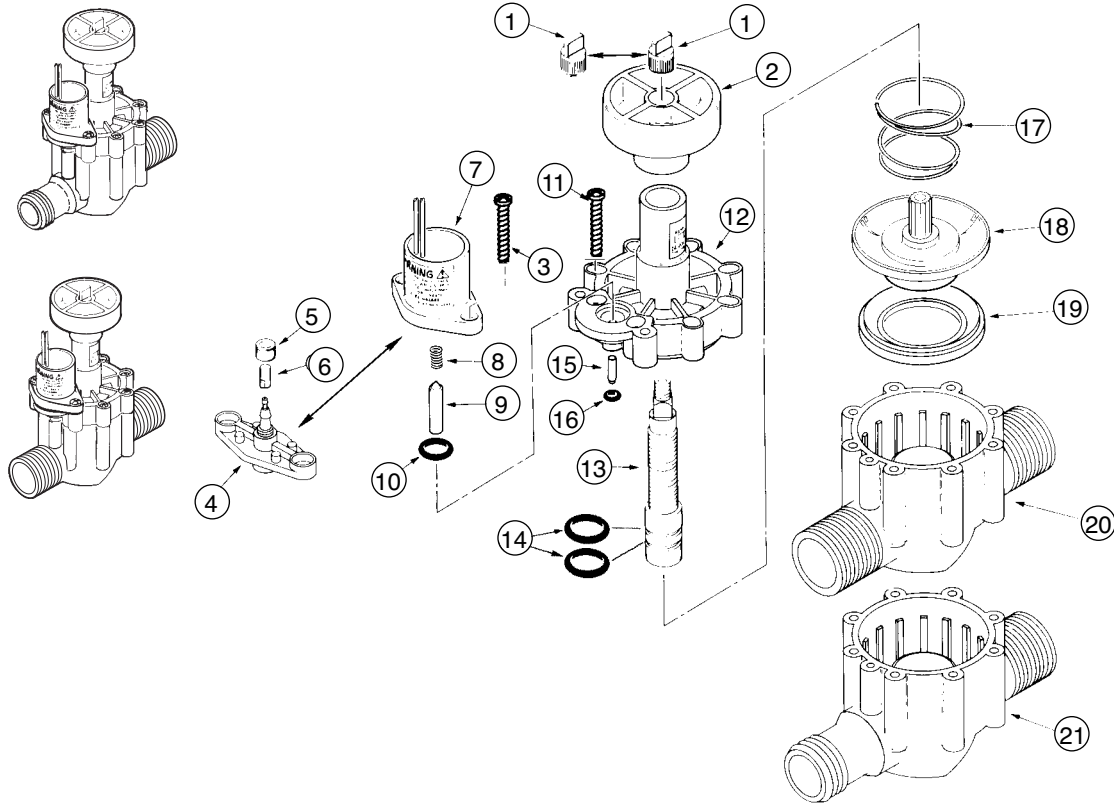
Item No.	Part No.	Description	Quantity Per Assy.
1	35-4889	Bleed Screw Assy. with Pin	1
2	363-1493	Screw, #10 x 1"	4
3	9-7413	Cap Assy.	1
4	9-6148	Spring, Plunger, Solenoid	1
5	9-6527	Plunger Assy.	1
6	9-7619	Spring, Diaphragm	1
7	35-8941	Diaphragm Assy. (Includes Item 8)	1
8	-----	Plug, Metering, Diaphragm	1
9	9-7835	Support, Diaphragm	1
10	9-7992	Body, Valve	1

264 Series, 1 Inch



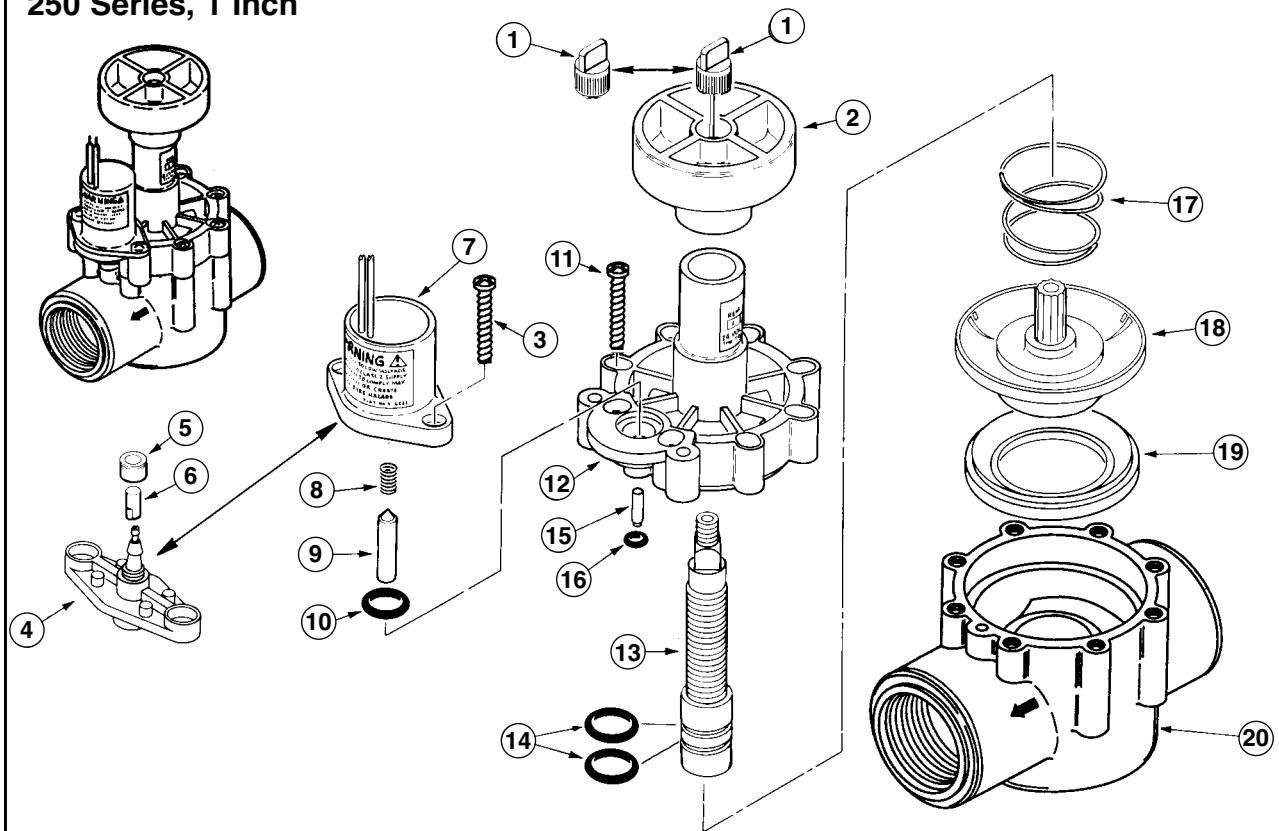
Item No.	Part No.	Description	Quantity Per Assy.
1	363-1493	Screw, #10 x 1"	2
2	-----	Solenoid Assy., EL (See Service Item 89-0878)	1
3	9-6148	Spring, Plunger, Solenoid, EL	1
4	9-6527	Plunger Assy., EL	1
5	35-3776	Adapter Assy., NO	1
6	89-8157	Cap, 1/4", Poly, NO	1
7	*900-40	Retainer, Tube, NO	1
8	2-9652	O-Ring, 7/16" x 5/8", NO	1
9	-----	Bleed Screw, NO	1
9	35-2941	Bleed Screw Assy., EL, Fast-closing	1
10	363-4007	Screw, #10 x 1.25"	8
11	9-8313	Cap Assy., EL	1
11	9-7291	Cap Assy., NO	1
12	3-2016	Shaft, Idler, Lower, NO	1
13	1-2035	O-Ring, 0.070" x 0.114" x 0.254"	1
14	9-7110	Spring, Diaphragm	1
15	35-2824	Diaphragm Assy., 1", EL	1
15	35-2943	Diaphragm Assy., 1", NO Hyd	1
16	9-6331	Support, Diaphragm	1
17	9-8311	Body, M x M, 1", NPT	1
18	-----	Body, M x B, 1", NPT	1
		SERVICE ITEMS	
	89-0878	Solenoid & Plunger Assy., EL (Includes Items 2-4)	
	35-9354	Bleed Screw Assy., EL, Slow-closing	
		* Order Through Finished Goods Distribution System—Minneapolis	

254 Series, 1 Inch



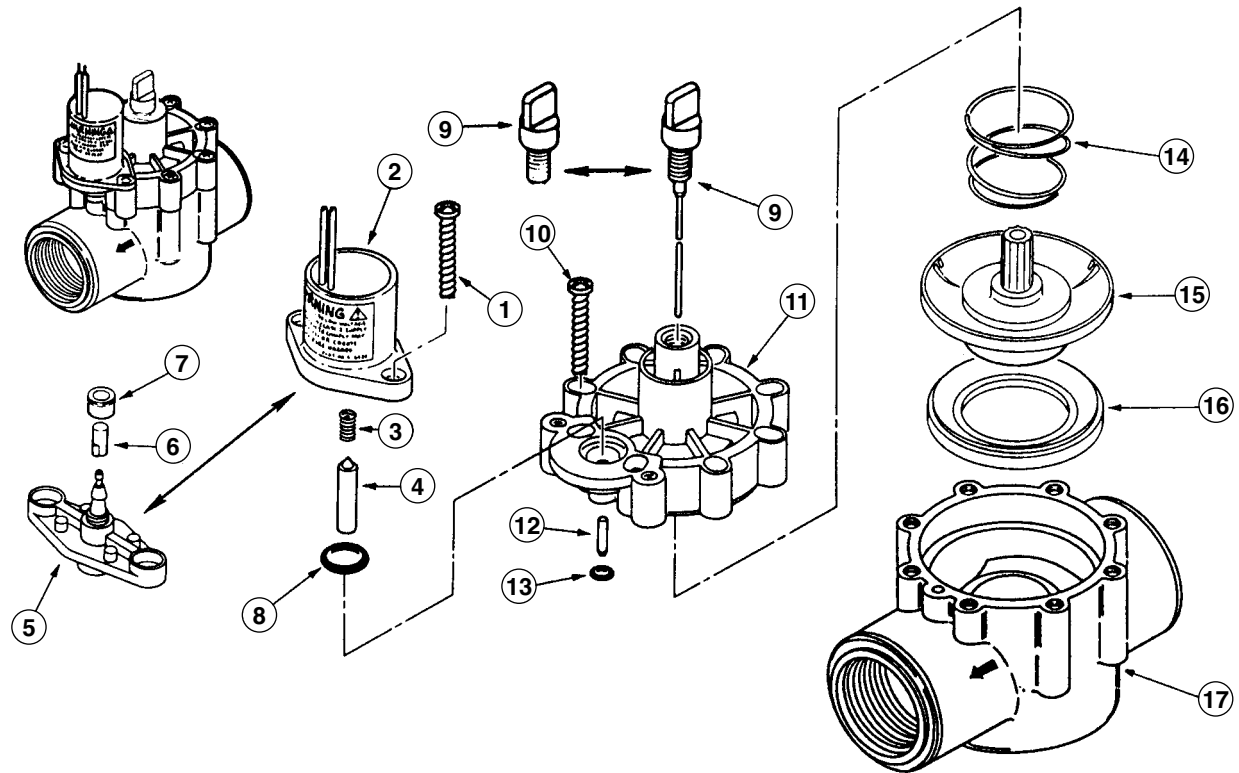
Item No.	Part No.	Description	Quantity Per Assy.
1	35-4521	Bleed Cap Assy., Fast-closing	1
1	35-1748	Bleed Cap, NO	1
2	35-3777	Knob, Handle, Cross	1
3	363-1493	Screw, #10 x 1"	2
4	35-3776	Adapter Assy., NO	1
5	*900-40	Retainer, Tube, NO	1
6	89-8157	Cap, Poly, NO	1
7	-----	Solenoid Assy., EL (See Service Item 89-0878)	1
8	9-6148	Spring, Plunger, Solenoid, EL	1
9	9-6527	Plunger Assy.	1
10	2-9652	O-Ring, 7/16" x 5/8"	1
11	363-4007	Screw, #10 x 1.25"	8
12	-----	Cap, Valve, w/FC, EL, Fast-closing (See Service Item 9-8182)	1
12	-----	Cap Assy. w/FC, NO (See Service Item 35-0767)	1
13	35-1983	Stem, Flow Control	1
14	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	2
15	3-2016	Shaft, Idler, Lower, NO	1
16	1-2035	O-Ring, 0.070" x 0.114" x 0.254"	1
17	9-7110	Spring, Diaphragm, NO	1
18	35-2943	Diaphragm Assy., 1", NO	1
18	35-2824	Diaphragm Assy., 1", EL	1
19	9-6331	Support, Diaphragm	1
20	9-8311	Body Assy., M x M, 1"	1
21	-----	Body Assy., M x B, 1"	1
		SERVICE ITEMS	
	89-0878	Solenoid & Plunger Assy., EL (Includes Items 7-9)	
	35-0767	Cap Assy., w/Flow Control, NO (Includes Items 12-14)	
	35-9346	Bleed Cap Assy., w/Pin, EL	
	9-8182	Cap, Valve, w/FC, EL, (Includes Items 12-14)	
		* Order Through Finished Goods Distribution System—Minneapolis	

250 Series, 1 Inch



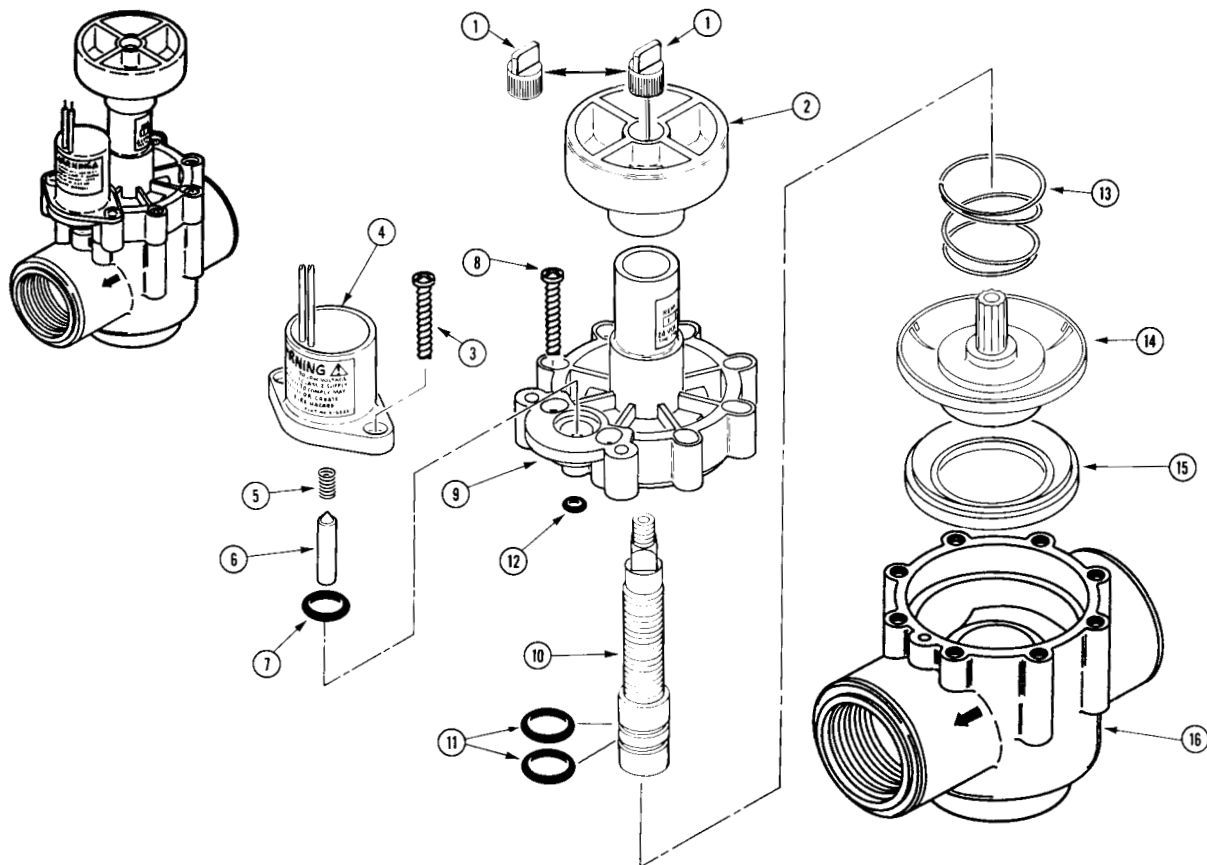
Item No.	Part No.	Description	Quantity Per Assy.
1	35-4521	Bleed Cap Assy. w/Pin, EL, Fast-closing	1
1	35-1748	Bleed Cap, NO & PT	1
1	89-7855	Bleed Cap, Effluent	1
2	35-3777	Knob, Handle, Cross	1
3	363-1493	Screw, #10 x 1"	2
4	35-3776	Adapter, NO & PT	1
5	*900-40	Retainer, Tube, NO & PT	1
6	89-8157	Cap, Poly, NO & PT	1
7	-----	Solenoid Assy., EL (See Service Item 89-0878)	1
8	9-6148	Spring, Plunger, Solenoid, EL	1
9	9-6527	Plunger Assy., EL	1
10	2-9652	O-Ring, 7/16" x 5/8"	1
11	363-1493	Screw, #10 x 1"	8
12	-----	Cap Assy., EL (See Service Item 9-8182)	1
12	-----	Cap Assy., NO & PT (See Service Item 35-0767)	1
13	35-1983	Stem, Flow Control	1
14	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	2
15	3-2016	Shaft, Idler, Lower, NO & PT	1
16	1-2035	O-Ring, 0.070" x 0.114" x 0.254"	1
17	9-4425	Spring, Diaphragm, PT	1
17	9-7110	Spring, Diaphragm, EL & NO	1
18	35-2943	Diaphragm Assy., 1", NO	1
18	35-2824	Diaphragm Assy., 1", EL	1
18	35-3655	Diaphragm Assy., 1", PT	1
19	9-6331	Support, Diaphragm	1
20	-----	Body Assy., In-line Globe, NPT	1
20	35-1970	Body Assy., In-line Globe, BSP	1
		SERVICE ITEMS	
	89-0878	Solenoid & Plunger Assy., EL (Includes Items 7-9)	
	35-3503	Diaphragm Assy., EL, Service Kit (230 Valves)	
	-----	Screen, Filter, 3/4" (Used with 35-3503 Diaphragm Assy.)	
	9-6548	Plug, Communication, Diaphragm (Used with 35-3655 Diaphragm Assy., PT)	
	9-8182	Cap Assy., (Includes Items 12-14)	
	35-0767	Cap Assy., NO & PT (Includes Items 12-14)	
	35-9346	Bleed Cap Assy., Slow-closing	
		* Order Through Finished Goods Distribution System-Minneapolis	

260 Series, 1 Inch



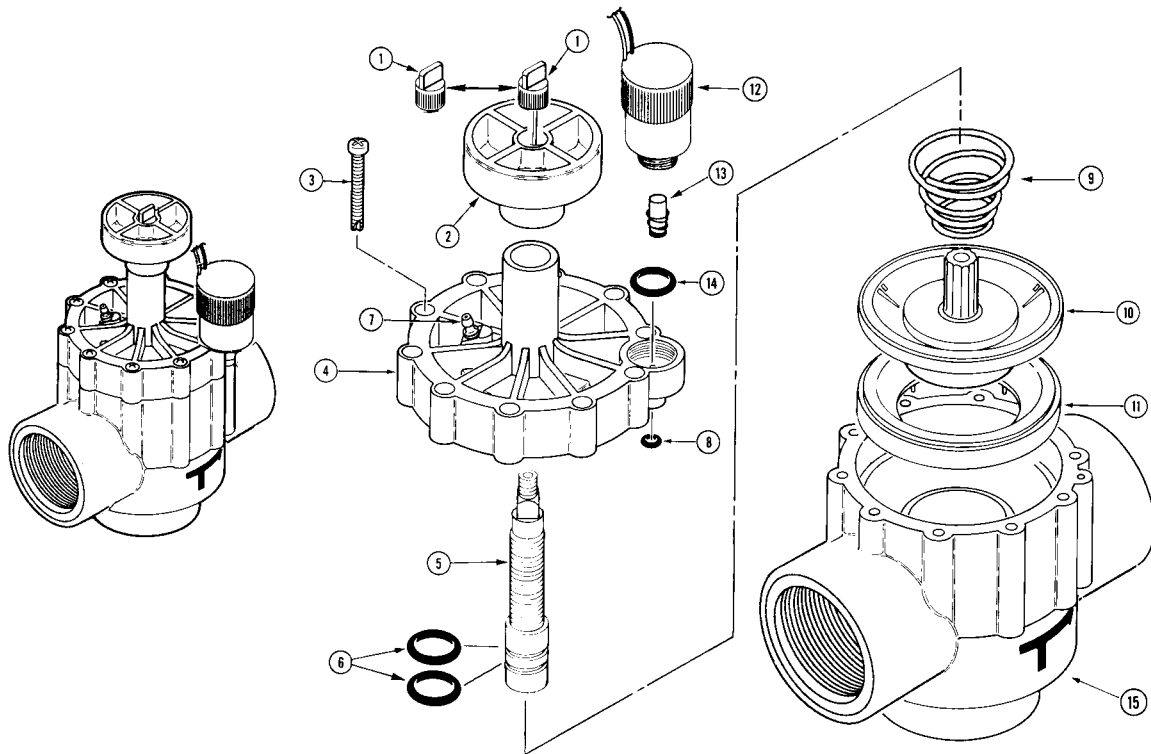
Item No.	Part No.	Description	Quantity Per Assy.
1	363-1493	Screw, #10 x 1"	2
2	-----	Solenoid Assy. (See Service Item 89-0878)	1
3	9-6148	Spring, Plunger, Solenoid	1
4	9-6527	Plunger Assy.	1
5	35-3776	Adapter, NO & PT	1
6	89-8157	Cap, Poly, NO & PT	1
7	*900-40	Retainer, Tube, NO & PT.	1
8	2-9652	O-Ring, 7/16" x 5/8"	1
9	35-2941	Bleed Screw Assy. w/Pin, EL	1
9	-----	Bleed Screw, NO & PT	1
10	363-1493	Screw, #10 x 1"	8
11	9-8313	Cap, Valve without FC, EL	1
11	9-7291	Cap, Valve without FC, NO & PT	1
12	3-2016	Shaft, Idler, Lower, NO & PT	1
13	1-2035	O-Ring, 0.070" x 0.114" x 0.254"	1
14	9-7110	Spring, Diaphragm, EL & NO	1
14	9-4425	Spring, Diaphragm, PT.	1
15	35-2943	Diaphragm Assy., 1", NO	1
15	35-2824	Diaphragm Assy., 1", EL	1
15	35-3655	Diaphragm Assy., 1", PT	1
16	9-6331	Support, Diaphragm	1
17	-----	Body Assy., Globe, NPT	1
17	35-1970	Body Assy., Globe, BSP	1
		SERVICE ITEMS	
	89-0878	Solenoid & Plunger Assy., EL (Includes Items 2-4)	
	35-3503	Diaphragm Assy., EL, Service Kit (230 Valves)	
	-----	Screen, Filter, 3/4" (Used with 35-3503 Diaphragm Assy.)	
	9-6548	Plug, Communication, Diaphragm (Used with 35-3655)	
	35-9354	Bleed Cap, Fast-closing, NO	
	9-6548	Plug, Communication, Diaphragm (Used with 35-3655)	
	35-9354	Bleed Screw Assy., w/Pin, EL, Slow-closing	
		* Order Through Finished Goods Distribution System—Minneapolis	

252 Series, 1 Inch



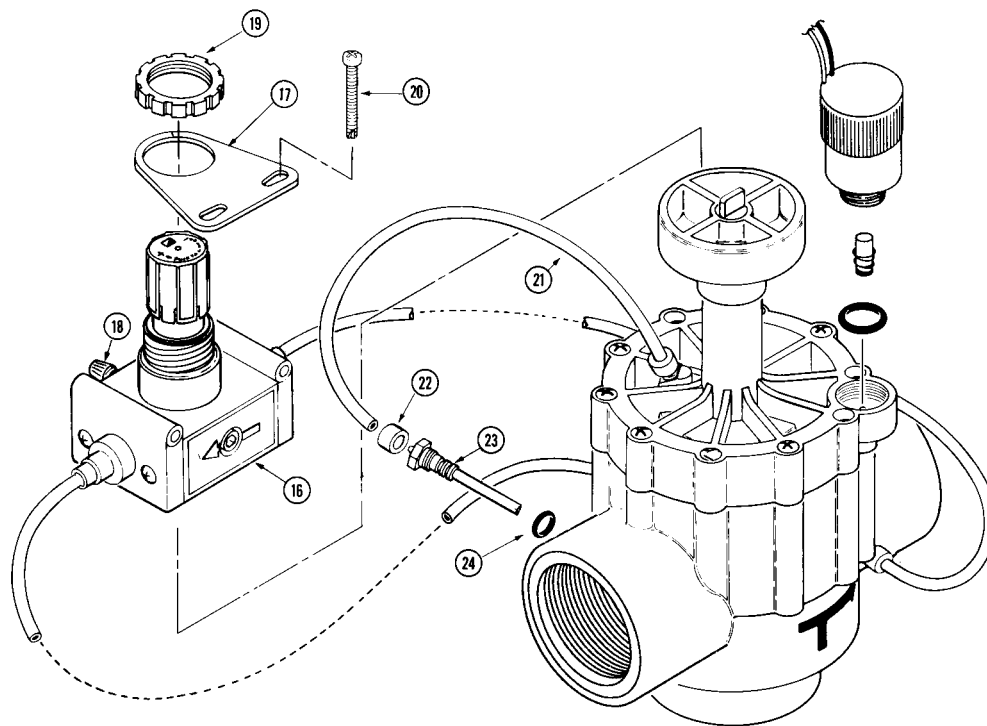
Item No.	Part No.	Description	Quantity Per Assy.
1	35-4521	Bleed Cap Assy., w/Pin, EL, Fast-closing	1
1	35-1748	Bleed Cap Assy., w/o Pin, NO & PT	1
2	35-3777	Knob, Handle Cross	1
3	363-1493	Screw, #10 x 1"	2
4	-----	Solenoid Assy. (See Service Item 89-0878)	1
5	9-6148	Spring, Plunger, Solenoid	1
6	9-6527	Plunger Assy.	1
7	2-9652	O-Ring, 7/16" x 5/8"	1
8	363-1493	Screw, #10 x 1"	8
9	-----	Cap Assy., EL, w/FC, (See Service Item 35-8182)	1
10	35-1983	Stem, Flow Control	1
11	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	2
12	1-2035	O-Ring, 0.070" x 0.114" x 0.254"	1
13	9-7110	Spring, Diaphragm	1
14	35-2824	Diaphragm Assy., 1", EL	1
15	9-6331	Support, Diaphragm	1
16	-----	Body Assy., 1", NPT	1
16	-----	Body Assy., 1", BSP	1
N/I	-----	Plug, Pipe, 1"	1
		SERVICE ITEMS	
	89-7855	Bleed Cap Assy., w/o Pin, NO & PT, Effluent	
	89-0878	Solenoid & Plunger Assy. (Includes Items 4-6)	
	9-8182	Cap Assy. (Includes Items 9-11)	
	35-3503	Diaphragm Assy., EL, Service Kit (230 Valves)	
	-----	Screen, Filter, 3/4" (Used in 35-3503 Diaphragm Assy.)	
	35-9346	Bleed Cap Assy., w/Pin, Slow-closing	

252 Series, 1.5 Inch (Sheet 1 of 2)



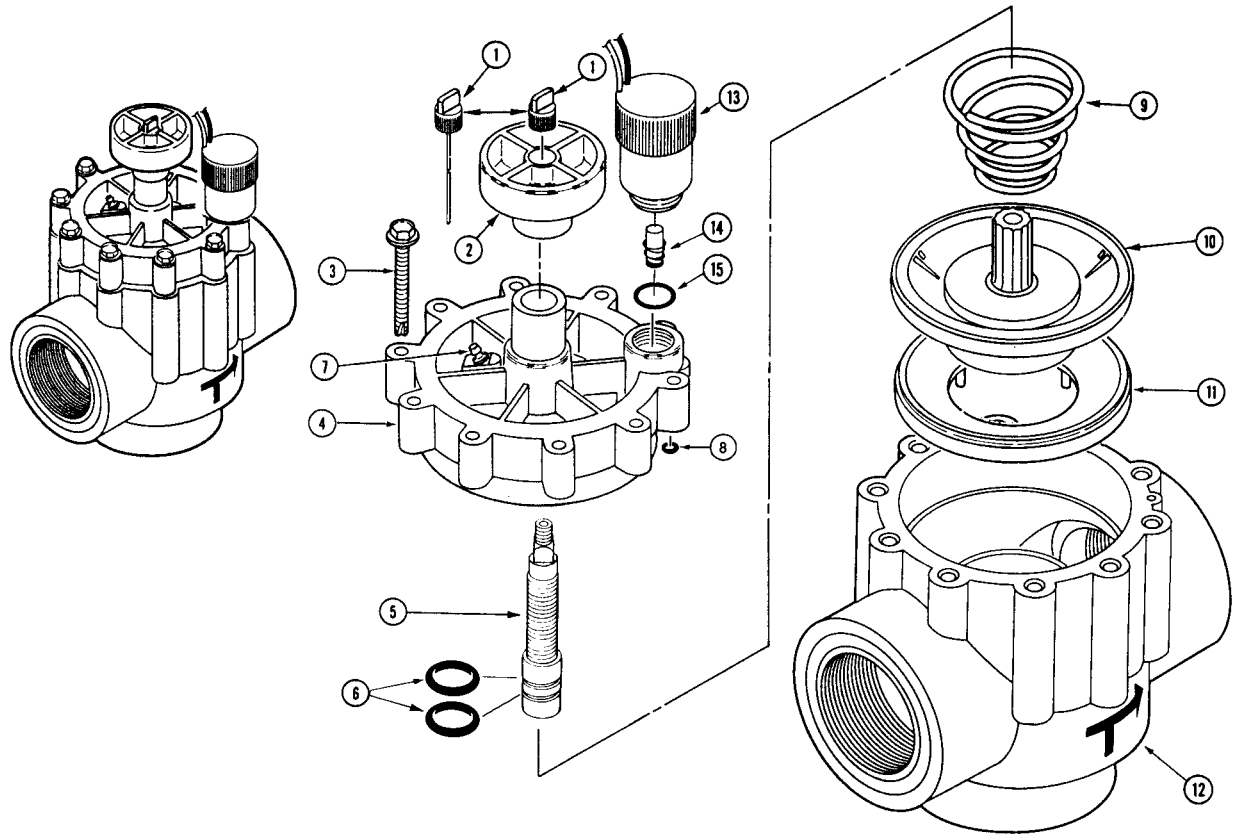
Item No.	Part No.	Description	Quantity Per Assy.
1	35-4521	Bleed Cap Assy. w/Pin, EL	1
1	35-1748	Bleed Cap, NO and PT, PR & CR	1
1	89-7855	Bleed Cap, Effluent	1
2	35-3777	Knob, Handle Cross	1
3	360-0203	Screw, Tap, #10, SST	10
4	-----	Cap, Valve, EL (See Service Items)	1
4	-----	Cap, Valve, NO & PT (See Service Items)	1
4	-----	Cap, Valve, PR (See Service Items)	1
4	-----	Cap, Valve, CR (See Service Items)	1
5	35-1983	Stem, Flow Control	1
6	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	2
7	9-6791	Connector, Poly	1
8	1-2035	O-Ring, 0.070" x 0.114" x 0.254", EL, PR & CR	1
9	9-4425	Spring, Diaphragm	1
10	89-0812	Diaphragm Assy., EL	1
10	89-0814	Diaphragm Assy., PT	1
10	89-0813	Diaphragm Assy., NO, PR & CR	1
11	89-6110	Support, Diaphragm	1
12	118-0248	Solenoid Assy., EL, PR & CR	1
13	35-4609	Plunger Assy., EL, PR & CR	1
14	360-0220	O-Ring, 0.070" x 0.551" x 0.691", EL, PR & CR	1
15	9-7100	Body Assy., NO & PT, NPT	1
15	9-7238	Body Assy., EL, NPT	1
15	-----	Body Assy., NO & PT, BSP	1
15	35-1973	Body Assy., EL, BSP	1
15	35-4937	Body Assy., PR, NPT	1
15	35-5642	Body Assy., PR, BSP	1
15	89-4805	Body Assy., CR, NPT	1
15	89-6036	Body Assy., CR, BSP	1

252 Series, 1.5 Inch (Sheet 2 of 2)



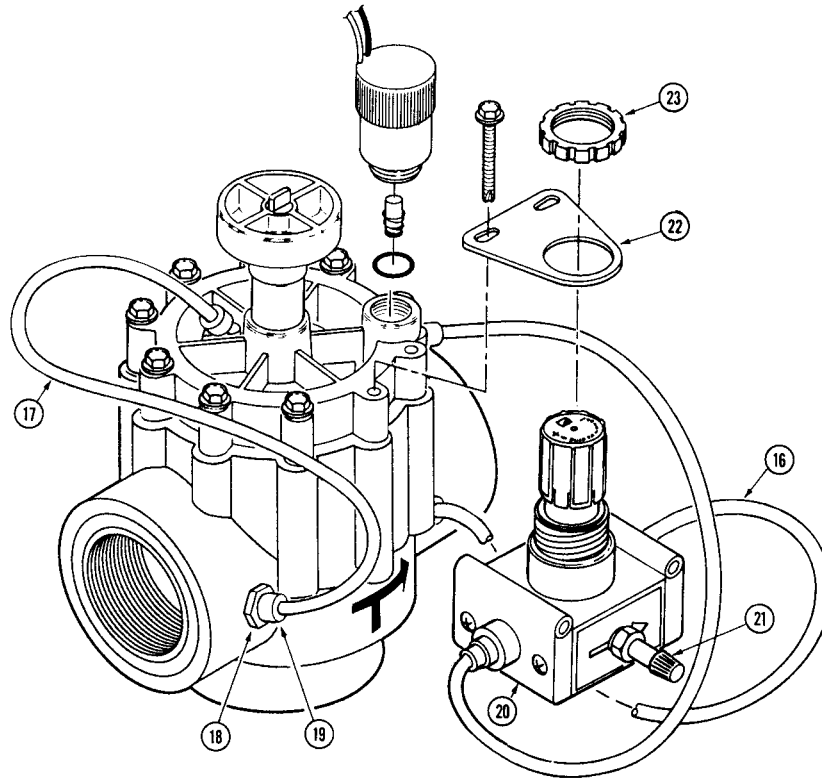
Item No.	Part No.	Description	Quantity Per Assy.
16	363-3141	Regulator, Water Pressure, Plastic Valve, PR	1
17	35-3444	Bracket, Regulator, PR	1
18	363-1762	Valve, 1/8", PR, NPT	1
19	363-1894	Nut, Regulator, PR	1
20	360-0203	Screw, #10-25 x 1-3/4", PR	2
21	9-2623	Tube, 1/4" x 8", PR & CR	3
21	9-2624	Tube, 1/4" x 11.5", CR	1
22	*900-40	Retainer, Tube, PR & CR	6
23	35-4619	Filter Assy., 1/4", Regulator, PR & CR	1
24	360-0494	O-Ring, 0.070" x 0.426" x 0.566", PR & CR	1
		SERVICE ITEMS	
	35-3099	Solenoid Assy., EL and PR & CR (Includes Items 12 & 13)	
	89-8157	Cap, Poly, NO & PT	
	-----	Plug, Cap	
	35-9346	Bleed Screw, Fast, 1" & 1.5"	
	35-0595	Cap Assy., Valve, EL (Includes Items 4-6)	
	35-0769	Cap Assy., Valve, NO & PT (Includes Items 4-7)	
	35-4935	Cap Assy., Valve, PR & CR (Includes Items 4-7)	
	35-4926	Regulator Assy., Plastic Valve, PR (Includes Items 16-19)	
	-----	Plug, Pipe, 1.5", NPT	
	89-0817	Kit, Diaphragm, 1.5", EL (Includes Items 10 & 11)	
	89-0818	Kit, Diaphragm, 1.5", NO (Includes Items 10 & 11)	
	89-0814	Kit, Diaphragm, 1.5", PT (Includes Items 10 & 11)	
	89-9453	Kit, Service, Valve, 1.5", NO (Includes Items 1, 2, 9, 10, 11 & 35-0769 Valve Cap Assy.)	
	89-3853	Kit, Service, Valve, 1.5", EL (252) (Includes Items 1, 2, 6, 8, 9, 10 & 35-0595 Valve Cap Assy.)	
	89-3892	Kit, Service, Valve, 1.5", PT (Includes Items 1, 2, 9, 10, 11 & 35-0769 Valve Cap Assy.)	
		* Order Through Finished Goods Distribution System—Minneapolis	

252 Series, 2 Inch (Sheet 1 of 2)



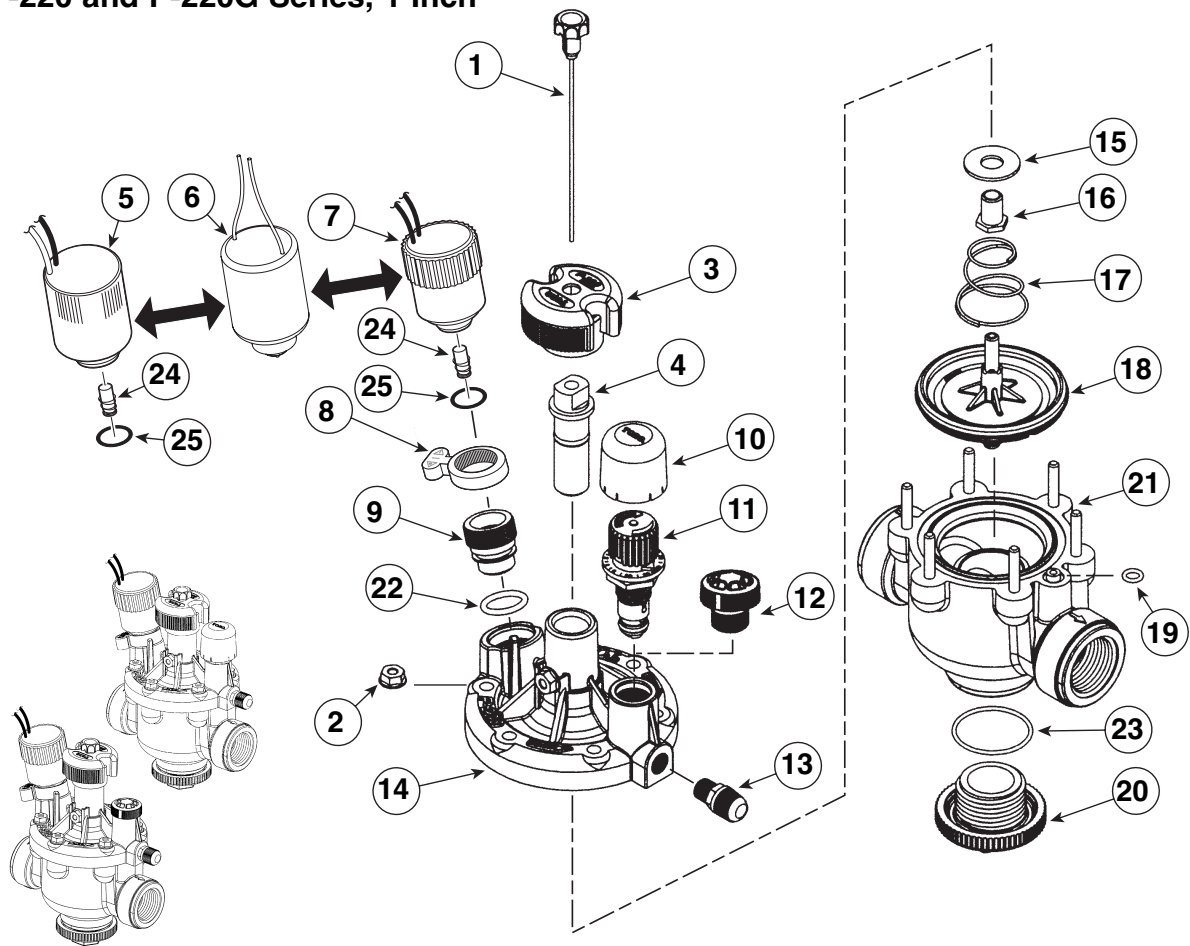
Item No.	Part No.	Description	Quantity Per Assy.
1	35-3892	Bleed Cap Assy. with Pin, EL	1
1	35-1748	Bleed Cap, NO, PR & CR	1
2	35-3777	Knob, Handle Cross	1
3	363-1399	Screw, Hex, Washer, 1/4-14 x 2"	10
4	-----	Cap, Valve (See Service Items)	1
5	35-1983	Stem, Flow Control	1
6	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	2
7	9-6791	Connector, Poly, NO & PR	1
8	1-2035	O-Ring, 0.070" x 0.114" x 0.254"	1
9	9-6940	Spring, Diaphragm, EL, PR & CR	1
9	9-4425	Spring, Diaphragm, NO	1
10	89-0815	Diaphragm Assy., EL	1
10	89-0816	Diaphragm Assy., NO, PR & CR	1
11	9-6504	Support, Diaphragm	1
12	9-7258	Body Assy., EL & NO, NPT	1
12	35-1974	Body Assy., EL & NO, BSP	1
12	35-4943	Body Assy., PR, NPT	1
12	35-5645	Body Assy., PR, BSP	1
12	89-4807	Body Assy., CR, NPT	1
12	-----	Body Assy., CR, BSP	1
13	118-0248	Solenoid Assy.	1
14	35-4609	Plunger Assy.	1
15	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	1

252 Series, 2 Inch (Sheet 2 of 2)



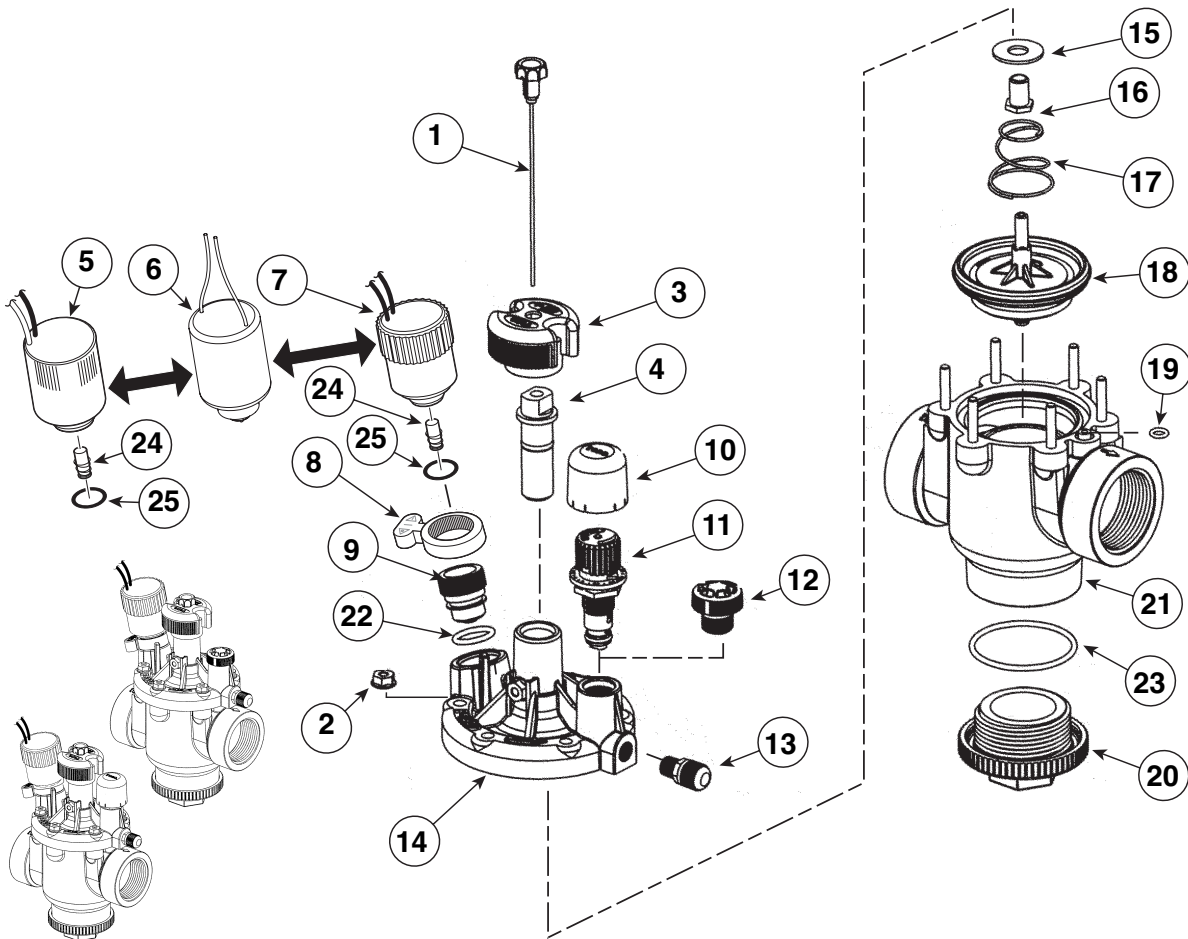
Item No.	Part No.	Description	Quantity Per Assy.
16	9-2623	Tube, 1/4" x 8", PR	1
17	9-1876	Tube, 1/4" x 12", PR and CR	2
18	35-4931	Filter Assy., Regulator, .034", PR and CR (Includes O-Ring)	1
19	*900-40	Retainer, Tube, PR and CR	4
20	363-3141	Regulator Assy., Pressure, PR	1
21	363-1762	Valve, Schrader, 1/8" NPT, PR	1
22	35-3444	Bracket, Regulator, PR	1
23	363-1894	Nut, Regulator, PR	1
		SERVICE ITEMS	
	35-3099	Solenoid Assy., EL and PR (Includes Items 13 & 14)	
	-----	Plug, Pipe, 2", NPT	
	102-1214	Plug, Pipe, 2", BSP	
	89-3854	Diaphragm Kit, EL 232 Valve (Includes Item 10 & 11)	
	89-3855	Diaphragm Kit, EL 232/252 Valves (Includes Item 10 & 11)	
	35-0596	Cap Assy., Valve, EL (Includes Item 4-6)	
	35-0768	Cap Assy., Valve, NO (Includes Item 4-7)	
	35-4940	Cap Assy., Valve, PR (Includes Item 4-7)	
	-----	Cap Assy., Valve, CR (Includes Items 4-7)	
	35-4926	Regulator Assy., Valve, Plastic, PR (Includes Items 20-23)	
	89-0806	Bleed Screw, Fast, 2"	
	360-0494	O-Ring, 0.070" x 0.426" x 0.566", PR and CR	
		* Order Through Finished Goods Distribution System—Minneapolis	

P-220 and P-220G Series, 1 Inch



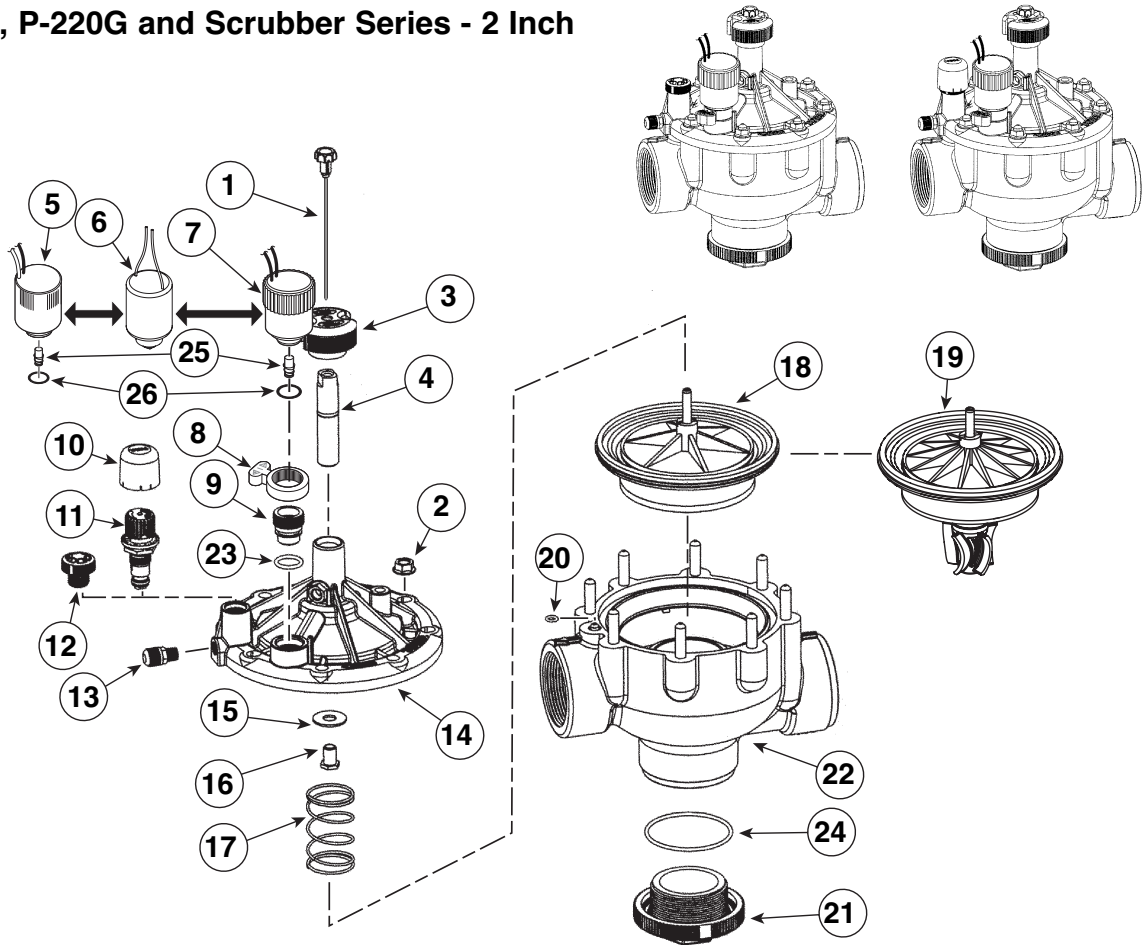
Item No.	Part No.	Description	Quantity Per Assy.
1	102-3756	Metering Rod Assy., P-220	1
2	845101	Hex Nut, Flanged	7
3	89-9780	Handle, Flow Control	1
4	102-0966	Stem Assy., Flow Control	1
5	102-2709	Solenoid, 24 VDC, Latching (2-Wire Decoder)	1
6	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
6	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
7	102-6316	Solenoid, 60 Hz, SpikeGuard (P-220G Only)	1
8	606902	Handle, Bleed Plug	1
9	102-4787	Bleed Plug, New	1
10	835203	Cap, Vandal Resistant (Pressure Regulating Models Only)	1
11	*EZR-30	Regulator Module, 30 psi (Includes Item 10)	1
11	*EZR-100	Regulator Module, 100 psi (Includes Item 10)	1
12	89-9521	Blanking Plug Assy. (Non-pressure Regulating Models Only)	1
13	834101	Valve Assy., Schrader	1
14	102-0366	Bonnet Assy.	1
15	856202	Stem Washer	1
16	1033-H	Bushing	1
17	H1040	Spring	1
18	102-0368	Diaphragm Assy.	1
19	1054-H	O-Ring, Body	1
20	536203	Plug, Body, NPT & BSP	1
21	-----	Valve Body Assy.	1
22	1009701	O-Ring, Bleed Plug	1
23	2413	O-Ring, Body Plug	1
24	89-9562	Plunger Assembly (Used with Items 5 & 7)	1
25	360-0220	O-Ring, 0.070" x 0.551" x 0.691", EL & PR (Used with Items 5 & 7)	1
	SERVICE ITEMS		
	102-0847	Assy., Kit, Service, 1" & 1.5", P-220 (Includes Items 1-3, 11-13 and 16)	
		* Order Through Finished Goods Distribution System—Minneapolis	

P-220 and P-220G Series, 1.5 Inch



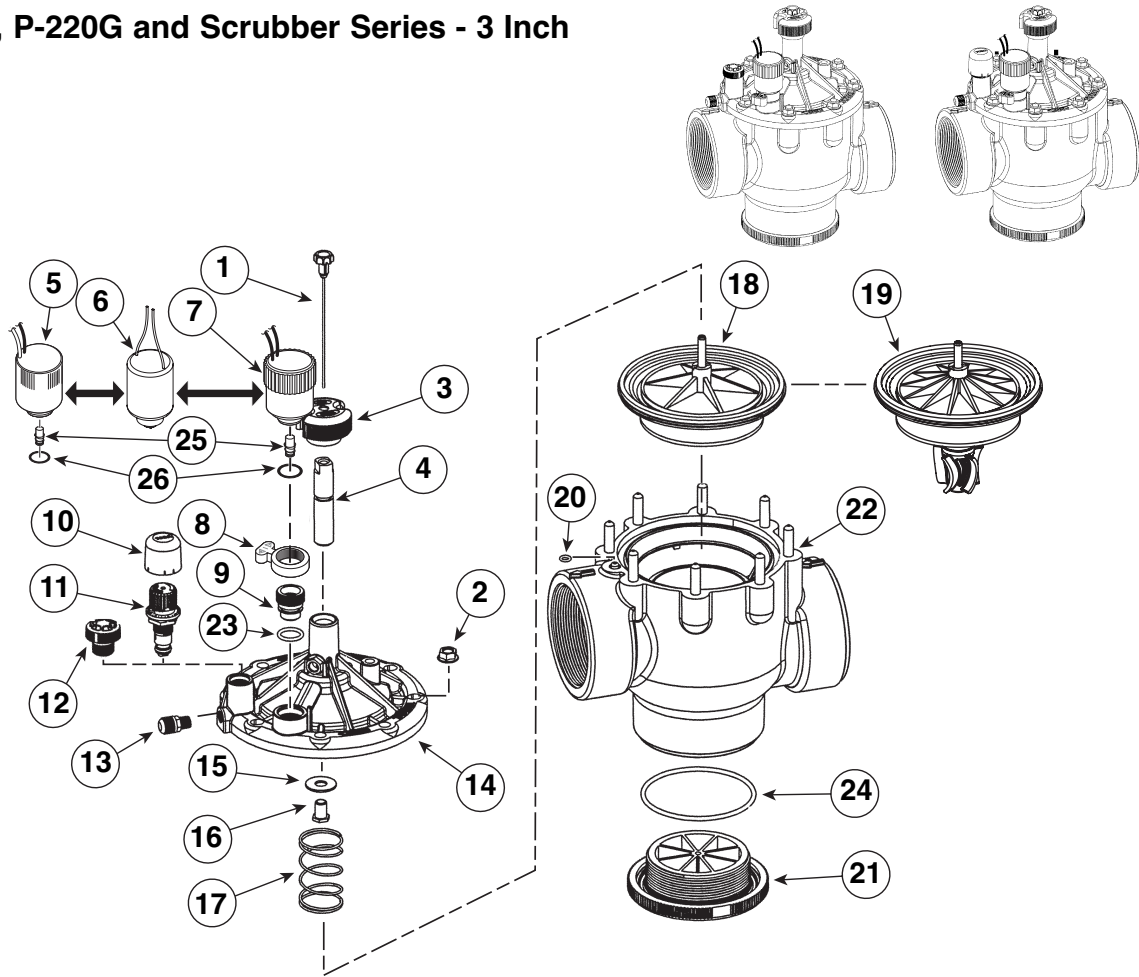
Item No.	Part No.	Description	Quantity Per Assy.
1	102-3756	Metering Rod Assy., P-220	1
2	845101	Hex Nut, Flanged	7
3	89-9780	Handle, Flow Control	1
4	102-0966	Stem Assy., Flow Control	1
5	102-2709	Solenoid, 24 VDC, Latching (2-Wire Decoder)	1
6	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
6	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
7	102-6316	Solenoid, 60 Hz, SpikeGuard (P-220G Only)	1
8	606902	Handle, Bleed Plug	1
9	102-4787	Bleed Plug,	1
10	835203	Cap, Vandal Resistant (Pressure Regulating Models Only)	1
11	*EZR-30	Regulator Module, 30 psi (Includes Item 10)	1
11	*EZR-100	Regulator Module, 100 psi (Includes Item 10)	1
12	89-9521	Blanking Plug Assy. (Non-pressure Regulating Models Only)	1
13	834101	Valve Assy., Schrader	1
14	102-0366	Bonnet Assy.	1
15	856202	Stem Washer	1
16	1033-H	Bushing	1
17	H1040	Spring	1
18	102-0770	Diaphragm Assy.	1
19	1054-H	O-Ring, Body	1
20	209406	Plug, Body, NPT & BSP	1
21	-----	Valve Body Assy.	1
22	1009701	O-Ring, Bleed Plug	1
23	363-4764	O-Ring, Body Plug	1
24	89-9562	Plunger Assembly (Used with Items 5 & 7)	1
25	360-0220	O-Ring, 0.070" x 0.551" x 0.691", EL & PR (Used with Items 5 & 7)	1
	SERVICE ITEMS		
	102-0847	Assy., Kit, Service, 1" & 1.5", P-220 (Includes Items 1-3, 11-13 and 16)	
		* Order Through Finished Goods Distribution System-Minneapolis	

P-220, P-220G and Scrubber Series - 2 Inch



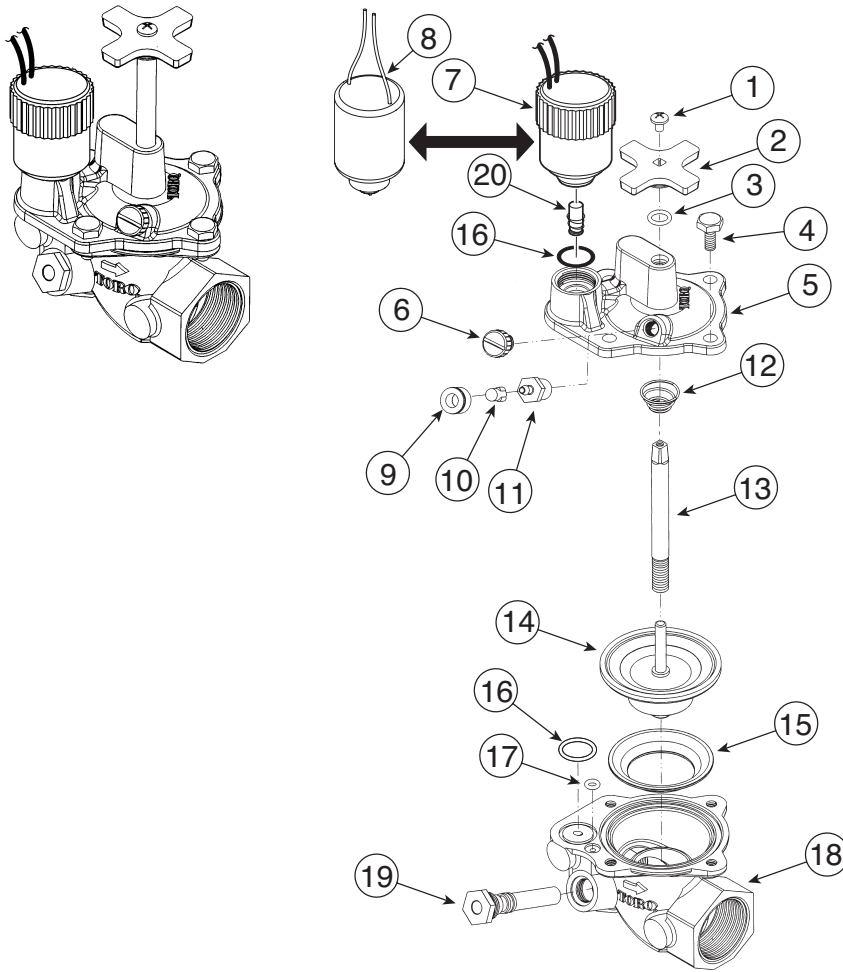
Item No.	Part No.	Description	Quantity Per Assy.
1	102-3756	Metering Rod Assy., P-220	1
2	845102	Hex Nut, Flanged	9
3	89-9780	Handle, Flow Control	1
4	102-0967	Stem Assy., Flow Control	1
5	102-2709	Solenoid, 24 VDC, Latching (2-Wire Decoder)	1
6	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
6	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
7	102-6316	Solenoid, 60 Hz, SpikeGuard (P-220G Only)	1
8	606902	Handle, Bleed Plug	1
9	102-4787	Bleed Plug, New	1
10	835203	Cap, Vandal Resistant (Pressure Regulating Models Only)	1
11	*EZR-30	Regulator Module, 30 psi (Includes Item 10) (Pressure Regulating Models Only)	1
11	*EZR-100	Regulator Module, 100 psi (Includes Item 10) (Pressure Regulating Models Only)	1
12	89-9521	Blanking Plug Assy. (Non-pressure Regulating Models Only)	1
13	834101	Valve Assy., Schrader	1
14	102-0367	Bonnet Assy.	1
15	1126	Stem Washer	1
16	1033-H	Bushing	1
17	1041	Spring	1
18	934501	Diaphragm Assy.	1
19	-----	Diaphragm Assy., Scrubber Models Only (See item P220S-KIT-08)	1
20	1054-H	O-Ring, Body	1
21	209506-H	Plug, Body, NPT	1
21	209507	Plug, Body, BSP	1
22	-----	Valve Body Assy.	1
23	1009701	O-Ring, Bleed Plug	1
24	RS100-238-70N	O-Ring, Body Plug	1
25	89-9562	Plunger Assembly (Used in Items 5 & 7)	1
26	360-0220	O-Ring, 0.070" x 0.551" x 0.691", EL & PR (Used in Items 5 & 7)	1
		SERVICE ITEMS	
	102-0848	Assy., Kit, Service, 2" & 3" P-220 (Includes Items 1-3, 11-13 and 16)	
	*P220S-KIT-08	Assy., Kit, Service, 2" & 3" P-220 (Includes Items 1-3, 11-13 and 16)	
		* Order Through Finished Goods Distribution System--Minneapolis	

P-220, P-220G and Scrubber Series - 3 Inch



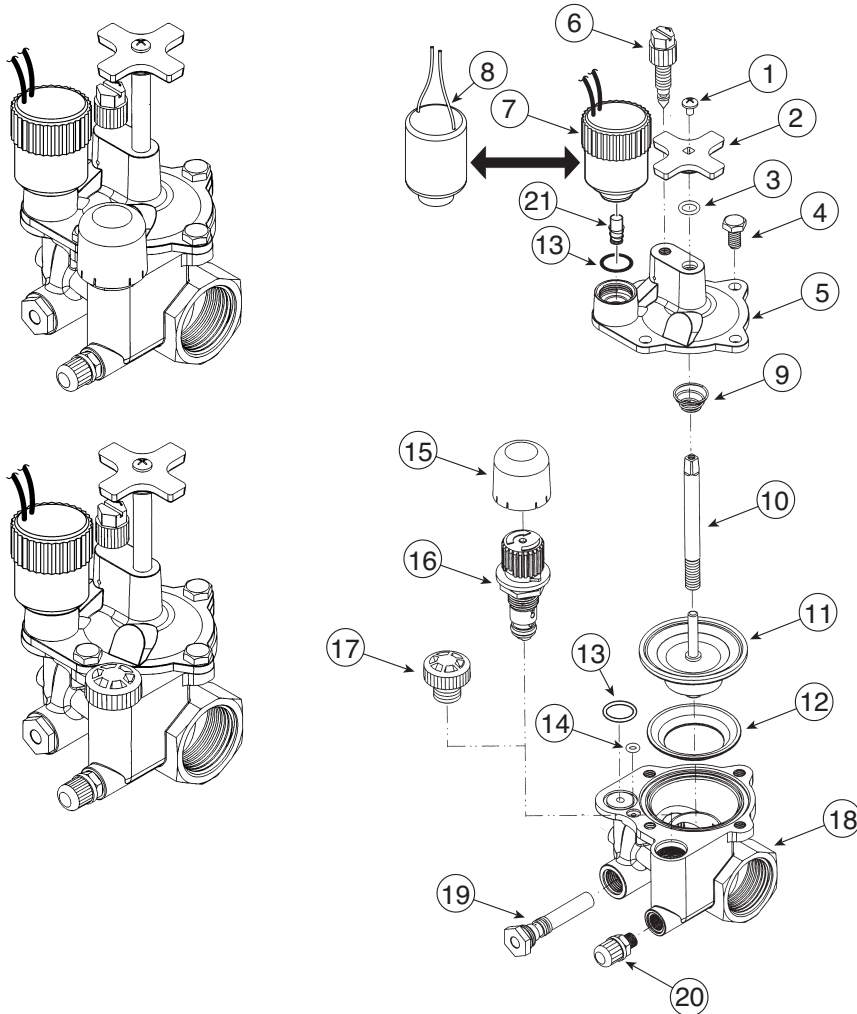
Item No.	Part No.	Description	Quantity Per Assy.
1	102-3756	Metering Rod Assy., P-220	1
2	845102	Hex Nut, Flanged	9
3	89-9780	Handle, Flow Control	1
4	102-0967	Stem Assy., Flow Control	1
5	102-2709	Solenoid, 24 VDC, Latching (2-Wire Decoder)	1
6	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
6	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
7	102-6316	Solenoid, 60 Hz, SpikeGuard (P-220G Only)	1
8	606902	Handle, Bleed Plug	1
9	102-4787	Bleed Plug, New	1
10	835203	Vandal Cap (Pressure Regulating Models Only)	1
11	*EZR-30	Regulator Module, 30 psi (Includes Item 10) (Pressure Regulating Models Only)	1
11	*EZR-100	Regulator Module, 100 psi (Includes Item 10) (Pressure Regulating Models Only)	1
12	89-9521	Blanking Plug Assy. (Non-pressure Regulating Models Only)	1
13	834101	Valve Assy., Schrader	1
14	102-0367	Bonnet Assy.	1
15	1126	Stem Washer	1
16	1033-H	Bushing	1
17	1041	Spring	1
18	935001	Diaphragm Assy.	1
19	-----	Diaphragm Assy., Scrubber Models Only (See item P220S-KIT-00)	1
20	1054-H	O-Ring, Body	1
21	209605-H	Plug, Body, NPT	1
21	209606-H	Plug, Body, BSP	1
22	-----	Valve Body Assy.	1
23	1009701	O-Ring, Bleed Plug	1
24	RS100-238-70N	O-Ring, Body Plug	1
25	89-9562	Plunger Assembly (Used with Items 5 & 7)	1
26	360-0220	O-Ring, 0.070" x 0.551" x 0.691", EL & PR (Used with Items 5 & 7)	1
		SERVICE ITEMS	
	102-0848	Assy., Kit, Service, 2" & 3" P-220 (Includes Items 1-3, 11-13 and 16)	
	*P220S-KIT-00	Diaphragm Kit, Scrubber, 3"	
		* Order Through Finished Goods Distribution System—Minneapolis	

220 Series, 1 Inch (Previous 210 Series, 1 Inch)



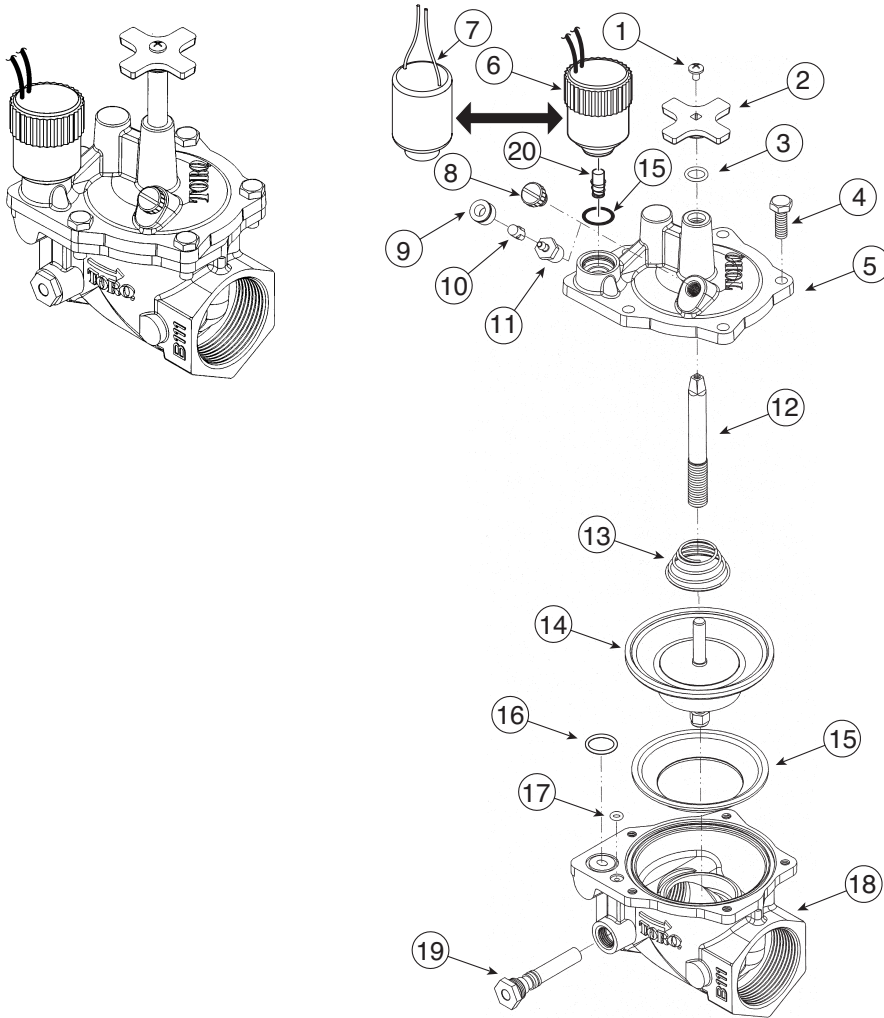
Item No.	Part No.	Description	Quantity Per Assy.
1	360-0498	Screw, Machine 8-32 x 1/4"	
2	9-4527	Handle, Cross	1
3	360-0107	O-Ring, 0.070" x 0.301" x 0.441"	1
4	360-0595	Screw, Machine, 1/4-20 x 1/2"	4
5	-----	Cap, Valve, EL	1
5	-----	Cap, Valve, NO	1
6	89-9566	Screw Assy., External Bleed, EL	1
7	102-6316	Solenoid, SpikeGuard, 24 VAC, 60 Hz	1
8	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
8	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
9	*900-40	Retainer, Tube, NO	1
10	89-8157	Cap, 1/4" Poly, NO	1
11	-----	Adapter, 1/8 NPT x 1/4" Poly, NO	1
12	9-5146	Spring, Diaphragm	1
13	89-6507	Stem, Flow Control	1
14	9-5359	Diaphragm Assy., 1" Brass	1
15	35-2639	Support, Diaphragm	1
16	360-0220	O-Ring, 0.070" x 0.551" x 0.691", EL & PR (Used with Item 7)	2
17	360-0530	O-Ring, 0.070" x 0.145" x 0.285", EL	1
18	-----	Body, Brass	1
19	102-0690	Filter Assy., Metering, 1" & 1.5"	1
20	89-9562	Plunger Assembly (Used with Item 7)	1
		* Order Through Finished Goods Distribution System—Minneapolis	

220 Series & 220G 1 Inch, Pressure Regulated



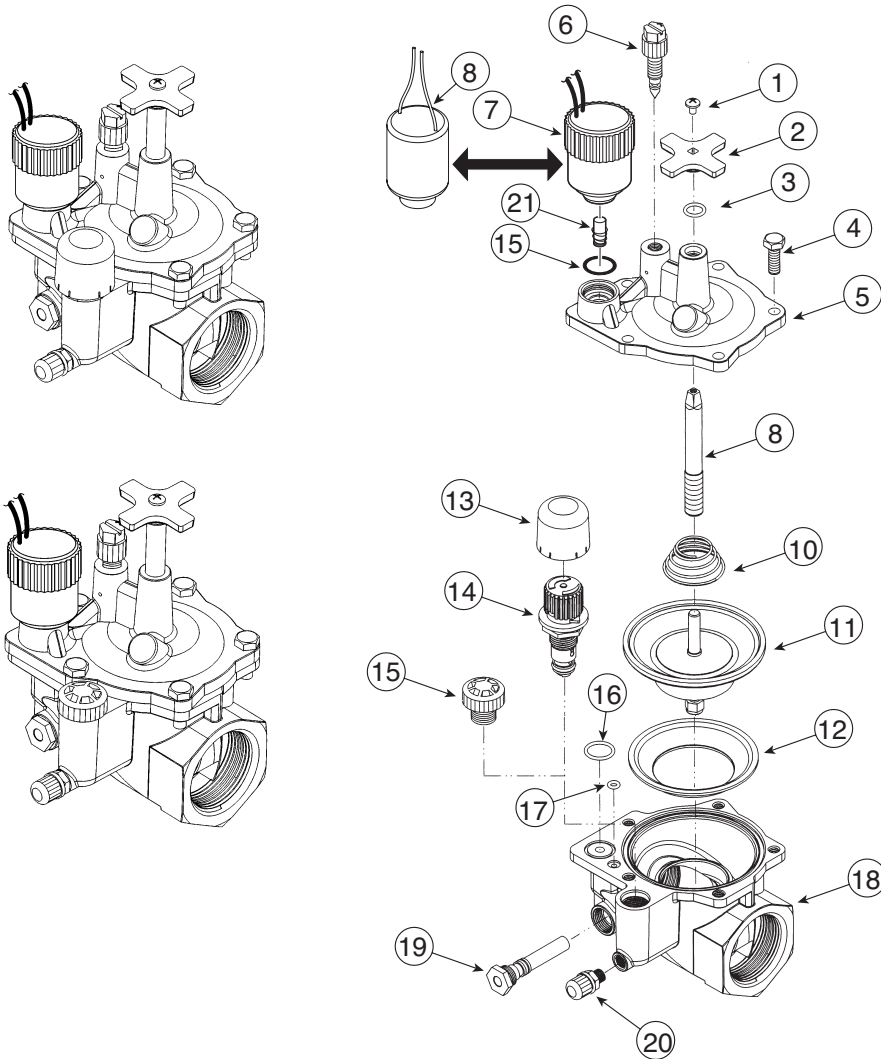
Item No.	Part No.	Description	Quantity Per Assy.
1	360-0498	Screw, Machine 8-32 x 1/4"	1
2	9-4527	Handle, Cross	1
3	360-0107	O-Ring, 0.070" x 0.301" x 0.441"	1
4	360-0595	Screw, Machine, 1/4-20 x 1/2"	4
5	89-9538	Cap, Valve	1
6	102-0208	Bleed Screw Assy.	1
7	102-6316	Solenoid, SpikeGuard, 24 VAC, 60 Hz	1
8	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
8	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
9	9-5146	Spring, Diaphragm	1
10	89-6507	Stem, Flow Control	1
11	9-5359	Diaphragm Assy., 1"	1
12	35-2639	Support, Diaphragm	1
13	360-0220	O-Ring, 0.070" x 0.551" x 0.691" (Used with Item 7)	2
14	360-0530	O-Ring, 0.707" x 0.145" x 0.285"	1
15	835203	Cap, Vandal Resistant (Pressure Regulating Models Only)	1
16	*EZR-30	Regulator Module, 30 psi (Includes Item 15)	1
16	*EZR-100	Regulator Module, 100 psi (Includes Item 15)	1
17	89-9521	Blanking Plug Assy. (Non-pressure Regulating Models Only)	1
18	----	Body, Brass (Pressure Regulated)	1
19	102-0690	Filter Assy., Metering, 1"-1.5"	1
20	834101	Valve Assy., Schrader	1
21	89-9562	Plunger Assembly (Used with Item 7)	1
* Order Through Finished Goods Distribution System—Minneapolis			

220 Series, 1.25 and 1.5 Inch (Previous 210 Series, 1.25 and 1.5 Inch)



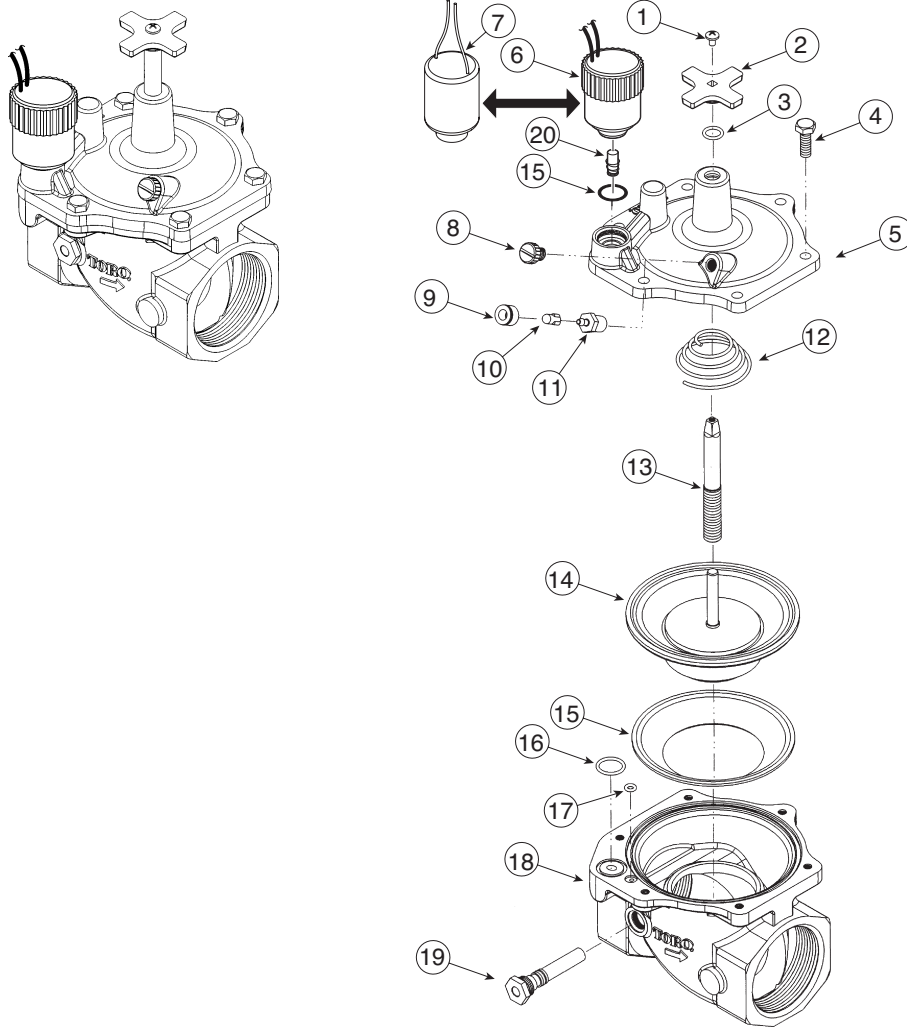
Item No.	Part No.	Description	Quantity Per Assy.
1	360-0498	Screw, Machine 8-32 x 1/4"	1
2	9-4527	Handle, Cross	1
3	360-0493	O-Ring, 0.070" x 0.364" x 0.504"	1
4	360-0499	Screw, Machine, 1/4-20 x 3/4"	5
5	-----	Cap, Valve, EL	1
5	89-5827	Cap, Valve, NO	1
6	102-6316	Solenoid, SpikeGuard, 24 VAC, 60 Hz	1
7	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
7	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
8	89-9566	Screw Assy., External Bleed, EL	1
9	*900-40	Retainer Tube, NO	1
10	89-8157	Cap, 1/4" Poly, NO.	1
11	-----	Adapter, 1/8 NPT x 1/4" Poly, NO	1
12	9-4424	Stem, Flow Control	1
13	102-0637	Spring, Diaphragm	1
14	9-5361	Diaphragm Assy., 1.5" & 1.25"	1
15	35-2452	Support, Diaphragm	1
16	360-0220	O-Ring, 0.070" x 0.551" x 0.691", EL (Used with Item 6)	2
17	360-0530	O-Ring, 0.070" x 0.145" x 0.285", EL	1
18	-----	Body, Brass	1
19	102-0690	Filter Assy., Metering 1"-1.5"	1
20	89-9562	Plunger Assembly (Used with Item 6)	1
* Order Through Finished Goods Distribution System—Minneapolis			

220 Series & 220G, 1.25 and 1.5 Inch, Pressure Regulated



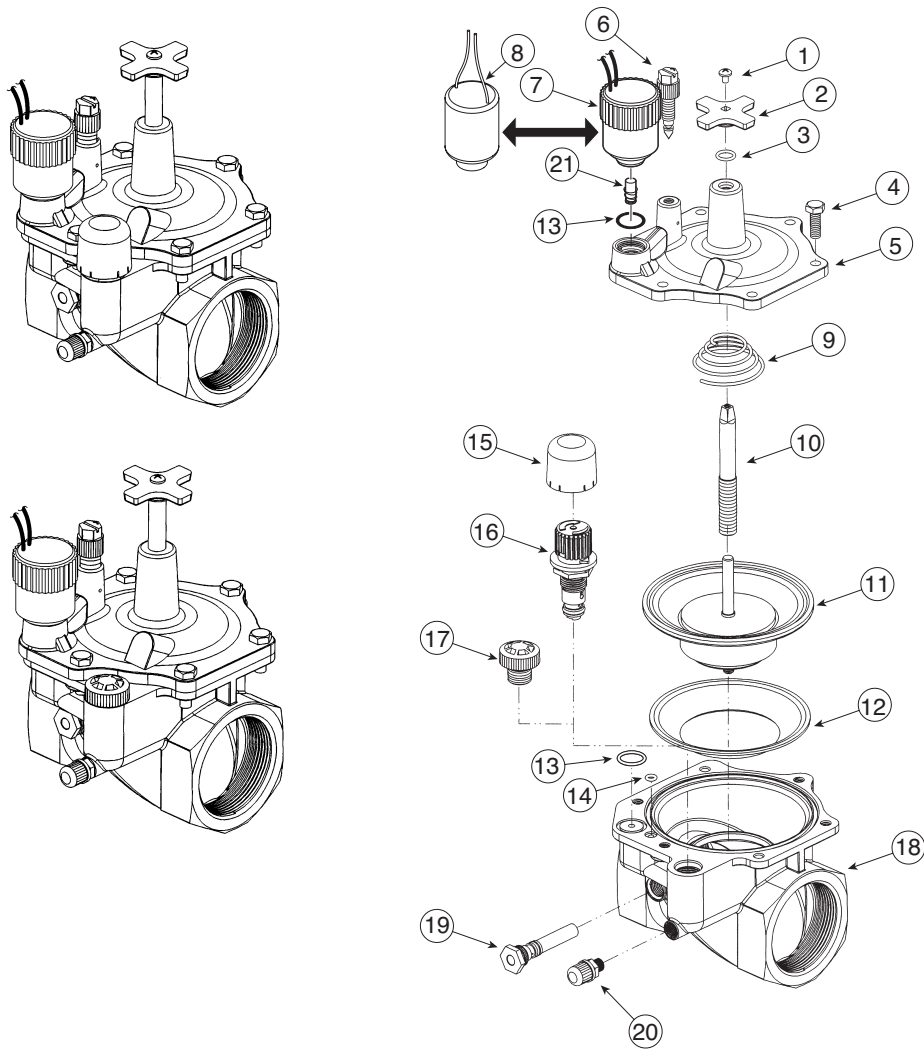
Item No.	Part No.	Description	Quantity Per Assy.
1	360-0498	Screw, Machine 8-32 x 1/4"	1
2	9-4527	Handle, Cross	1
3	360-0493	O-Ring, 0.070" x 0.364" x 0.504"	1
4	360-0499	Screw, Machine, 1/4-20 x 3/4"	5
5	89-9539	Cap, Valve	1
6	102-0208	Bleed Screw Assy.	1
7	102-6316	Solenoid, SpikeGuard, 24 VAC, 60 Hz	1
8	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
8	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
8	9-4424	Stem, Flow Control	1
10	102-0637	Spring, Diaphragm	1
11	9-5361	Diaphragm Assy.	1
12	35-2452	Support, Diaphragm	1
13	835203	Vandal Cap (Pressure Regulating Models Only)	1
14	*EZR-30	Regulator Module, 30 psi (Includes Item 13) (Pressure Regulating Models Only)	1
14	*EZR-100	Regulator Module, 100 psi Includes Item 13) (Pressure Regulating Models Only)	1
15	89-9521	Blanking Plug Assy. (Non-pressure Regulating Models Only)	1
16	360-0220	O-Ring, 0.070" x 0.551" x 0.691" (Used with Item 7)	2
17	360-0530	O-Ring, 0.070" x 0.145" x 0.285"	1
18	-----	Body, Brass (Pressure Regulated)	1
19	102-0690	Filter Assy., Metering, 1"-1.5"	1
20	834101	Valve Assy., Schrader	1
21	89-9562	Plunger Assembly (Used with Item 7)	1
* Order Through Finished Goods Distribution System—Minneapolis			

220 Series, 2 Inch (Previous 210 Series, 2 Inch)



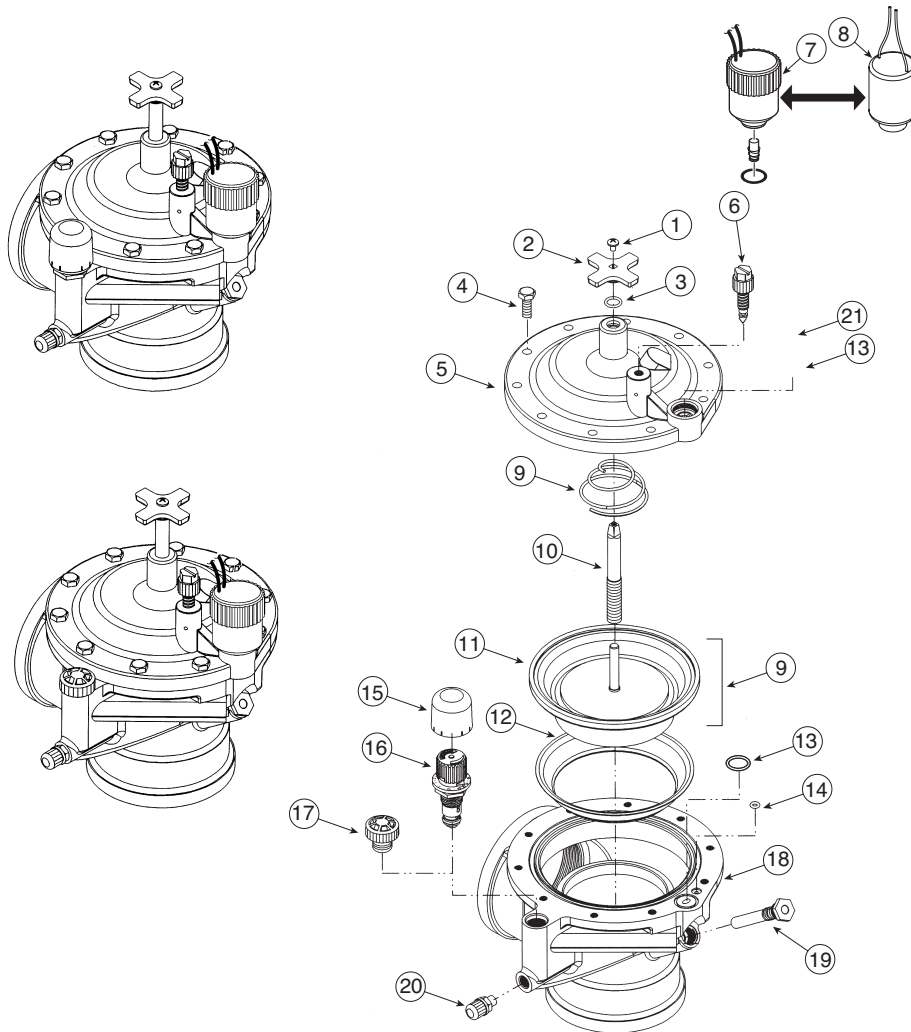
Item No.	Part No.	Description	Quantity Per Assy.
1	360-0498	Screw, Machine 8-32 x 1/4"	1
2	9-4527	Handle, Cross	1
3	360-0493	O-Ring, 0.070" x 0.364" x 0.504"	1
4	360-0499	Screw, Machine, 1/4-20 x 3/4"	6
5	89-9544	Cap, Valve, EL	1
5	-----	Cap, Valve, NO	1
6	102-6316	Solenoid Assy., SpikeGuard, 24 VAC, 60 Hz	1
7	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
7	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
8	89-9566	Screw Assy., External Bleed, EL	1
9	*900-40	Retainer Tube, NO	1
10	89-8157	Cap, 1/4" Poly, NO	1
11	-----	Adapter, 1/8 NPT x 1/4 Poly, NO.	1
12	89-1652	Spring, Diaphragm	1
13	9-4543	Stem, Flow Control	1
14	9-5363	Diaphragm Assy., 2"	1
15	9-4541	Support, Diaphragm	1
16	360-0220	O-Ring, 0.070" x 0.551" x 0.691", EL (Used with Item 6)	2
17	360-0530	O-Ring, 0.070" x 0.145" x 0.285", EL	1
18	-----	Body, Brass	1
19	102-0691	Filter Assy., Metering, 2"	1
20	89-9562	Plunger Assembly (Used with Item 6)	1
* Order Through Finished Goods Distribution System—Minneapolis			

220 and 220G Series, 2 Inch, Pressure Regulated



Item No.	Part No.	Description	Quantity Per Assy.
1	360-0498	Screw, Machine 8-32 x 1/4"	1
2	9-4527	Handle, Cross	1
3	360-0493	O-Ring, 0.070" x 0.364" x 0.504"	1
4	360-0499	Screw, Machine, 1/4-20 x 3/4"	6
5	89-9540	Cap, Valve	1
6	102-0208	Bleed Screw Assy.	1
7	102-6316	Solenoid, SpikeGuard, 24 VAC, 60 Hz	1
8	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
8	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
9	89-1652	Spring, Diaphragm	1
10	9-4543	Stem, Flow Control	1
11	9-5363	Diaphragm Assy.	1
12	9-4541	Support, Diaphragm	1
13	360-0220	O-Ring, 0.070" x 0.551" x 0.691" (Used with Item 7)	2
14	360-0530	O-Ring, 0.070" x 0.145" x 0.285"	1
15	835203	Cap, Vandal Resistant (Pressure Regulating Models Only)	1
16	*EZR-30	Regulator Module, 30 psi (Includes Item 16) (Pressure Regulating Models Only)	1
16	*EZR-100	Regulator Module, 100 psi (Includes Item 16) (Pressure Regulating Models Only)	1
17	89-9521	Blanking Plug Assy. (Non-Pressure Regulating Models Only)	1
18	-----	Body, Brass	1
19	102-0691	Filter Assy., Metering, 2"	1
20	834101	Valve Assy., Schrader (Pressure Regulating Models Only)	1
21	89-9562	Plunger Assembly (Used with Item 7)	1
		* Order Through Finished Goods Distribution System—Minneapolis	

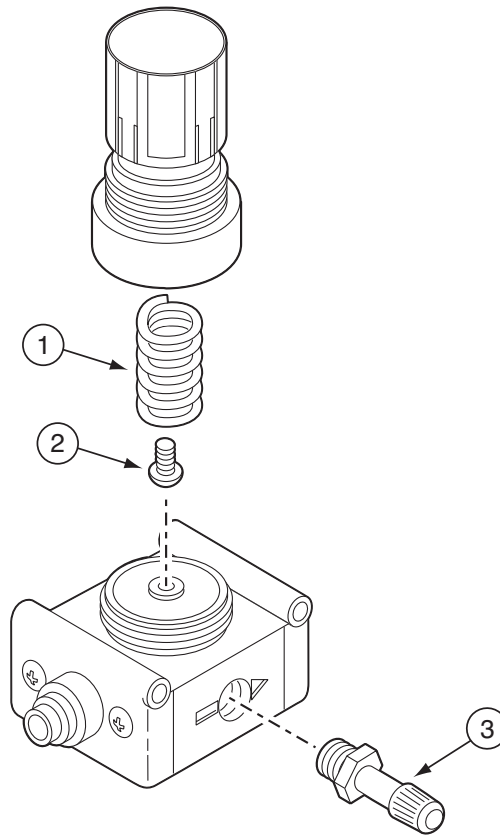
220 Series, 2.5 and 3 Inch



Item No.	Part No.	Description	Quantity Per Assy.
1	360-0498	Screw, Machine #8-32 x 1/4"	1
2	9-4527	Handle, Cross	1
3	360-0493	O-Ring, 0.070" x 0.364" x 0.504"	1
4	360-0499	Screw, Machine, 1/4-20 x 3/4"	10
5	89-9541	Cap, Valve	1
6	102-0208	Bleed Screw Assy.	1
7	102-6316	Solenoid, SpikeGuard 24 VAC, 60 Hz	1
8	102-7053	Solenoid Assy. w/ Plunger, 24 VAC, 60 Hz	1
8	102-7054	Solenoid Assy. w/ Plunger, 24 VAC, 50 Hz	1
9	89-1744	Spring, Diaphragm	1
10	9-4543	Stem, Flow Control	1
11	89-6421	Diaphragm Assy.	1
12	89-8126	Support, Diaphragm	1
13	360-0220	O-Ring, 0.070" x 0.551" x 0.691" (Used with Item 7)	2
14	360-0530	O-Ring, 0.070" x 0.145" x 0.285"	1
15	835203	Cap, Vandal Resistant (Pressure Regulating Models Only)	1
16	*EZR-30	Regulator Module, 30 psi (Includes Item 15) (Pressure Regulating Models Only)	1
16	*EZR-100	Regulator Module, 100 psi (Includes Item 15) (Pressure Regulating Models Only)	1
17	89-9521	Blanking Plug Assy. (Non-pressure Regulating Models Only)	1
18	-----	Body, Brass	1
19	102-0692	Filter Assy., Metering	1
20	834101	Valve Assy., Schrader	1
21	89-9562	Plunger Assembly (Used with Item 7)	1

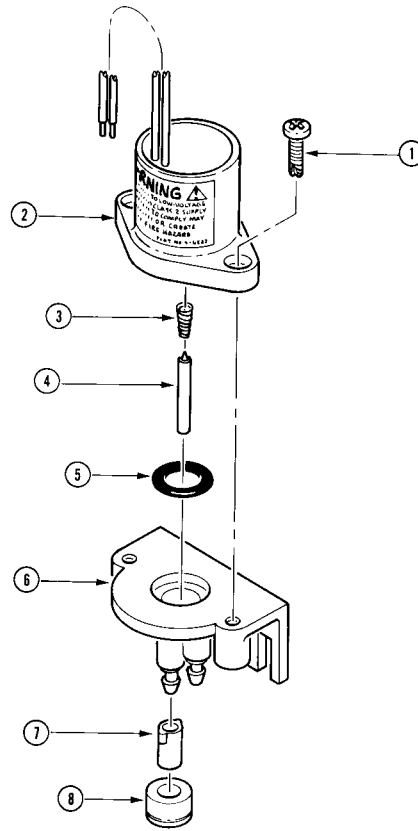
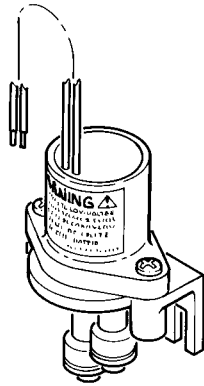
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Pressure Regulator



Item No.	Part No.	Description	Quantity Per Assy.
1	363-3498	Spring	1
2	363-3499	Screw	1
3	363-1762	Valve, Schrader, 1/8" NPT	1

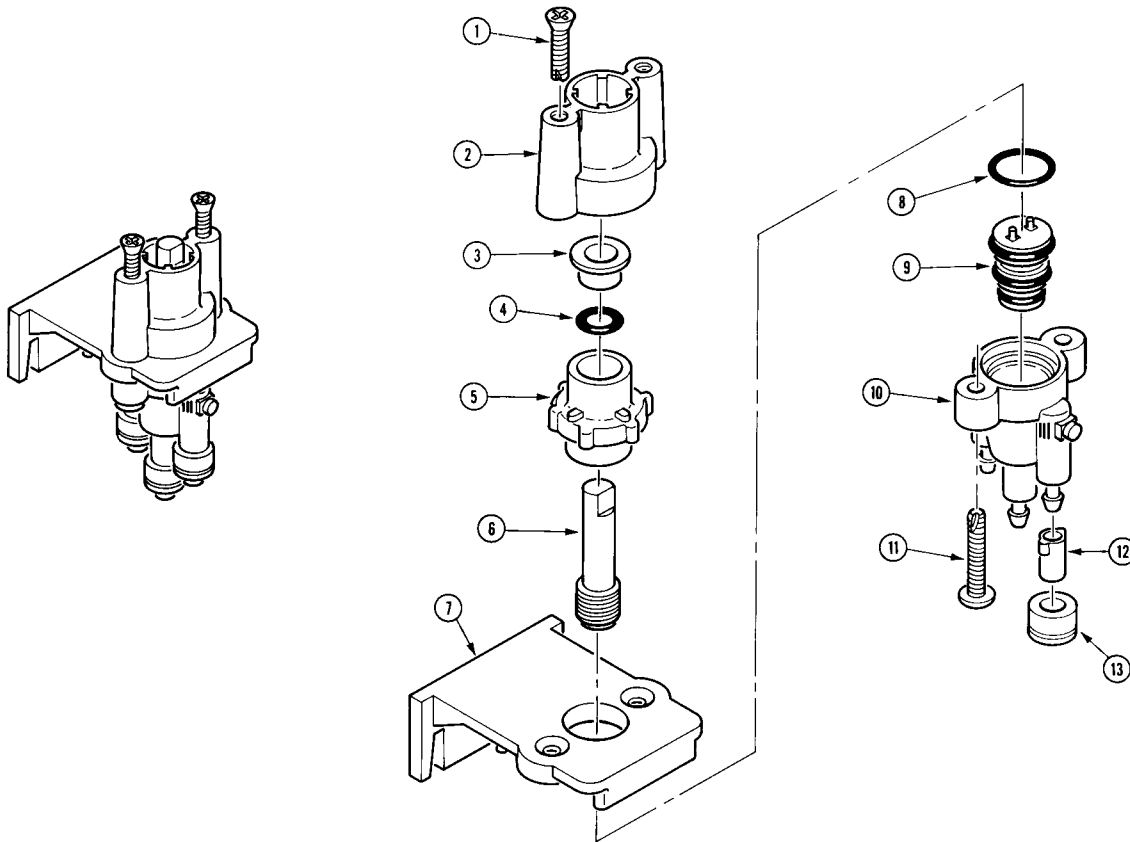
2-Way Pilot Valve, 284-60-00



Item No.	Part No.	Description	Quantity Per Assy.
1	360-0715	Screw, Tap, #10	2
2	89-0878	Solenoid Assy. (Includes Items 2-4)	1
3	9-6148	Spring, Plunger, Solenoid	1
4	9-6527	Plunger Assy.	1
5	2-9652	O-Ring, 7/16" x 5/8"	1
6	9-8280	Body Assy., Valve	1
7	89-8157	Cap, Poly	2
8	*900-40	Retainer, Tube	2

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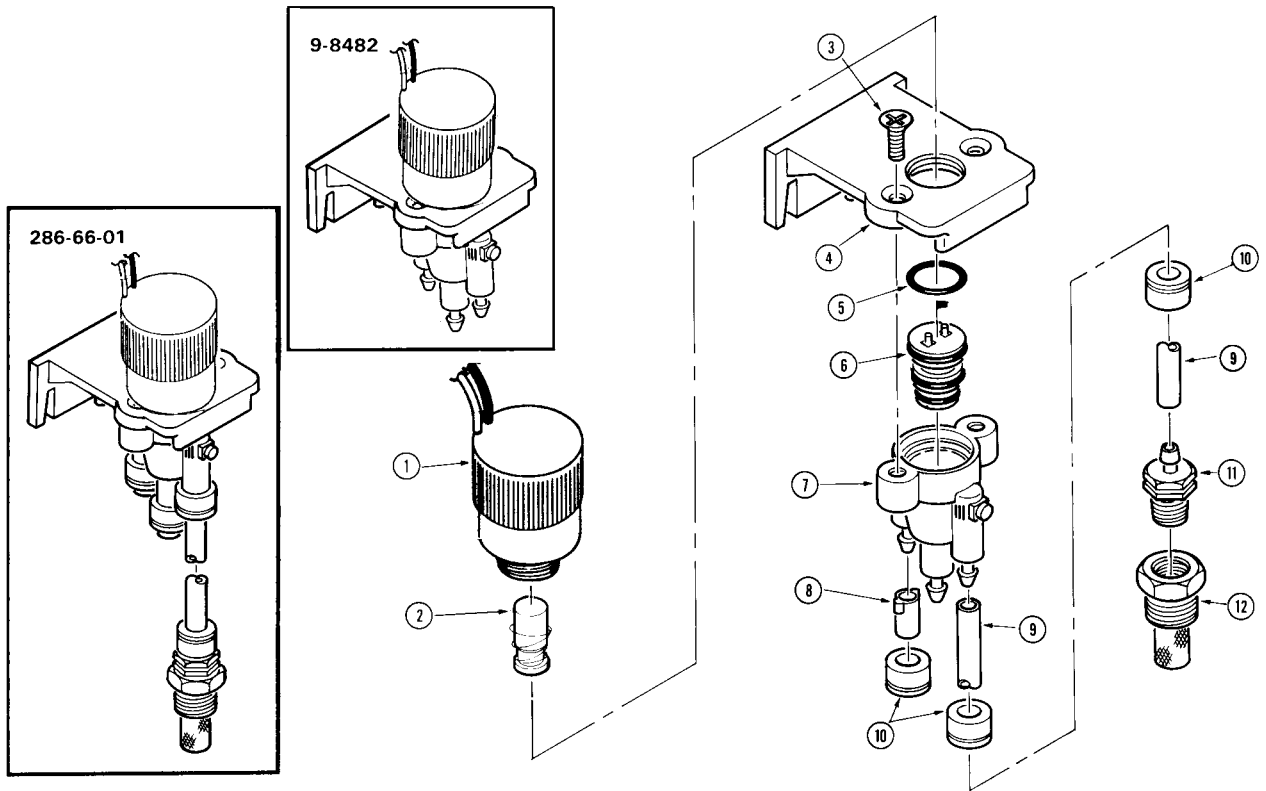
Manual Actuator



Item No.	Part No.	Description	Quantity Per Assy.
1	-----	Screw, Tap, #8	2
2	-----	Adapter (Includes Item 3)	1
3	-----	Retainer, O-Ring	1
4	2-9652	O-Ring, 7/16" x 5/8"	1
5	-----	Cap	1
6	-----	Stem, Control	1
7	-----	Bracket, Mounting	1
8	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	1
9	102-5599	Actuator Assy.	1
10	35-0992	Body Assy., Pilot Valve	1
11	-----	Screw, Tap, #8	2
12	89-8157	Cap, Poly	3
13	*900-40	Retainer, Tube	3

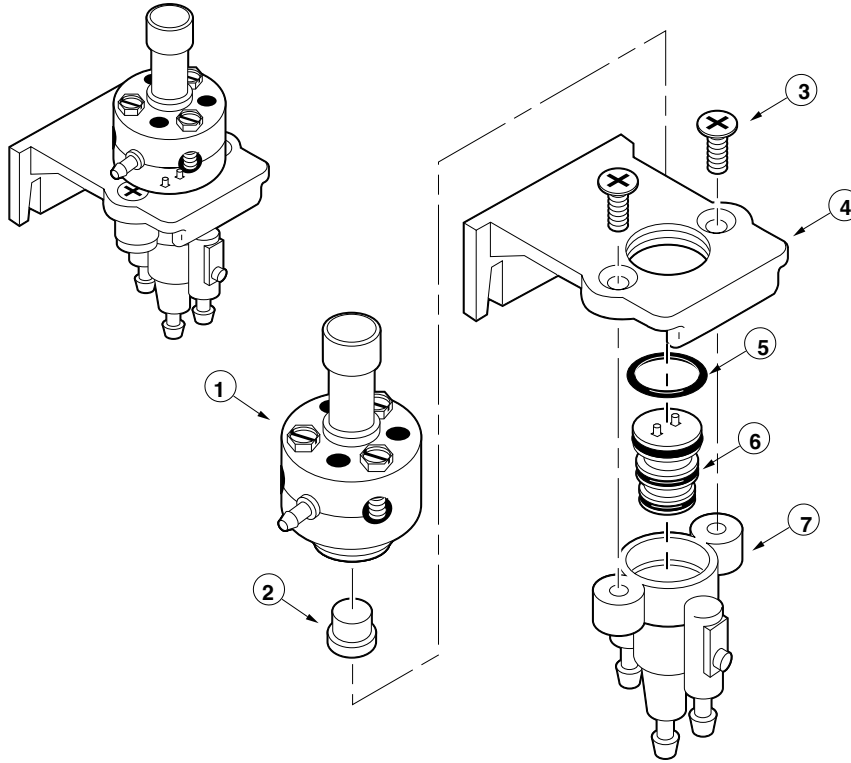
* Order Through Finished Goods Distribution System—Minneapolis

3-Way Actuator



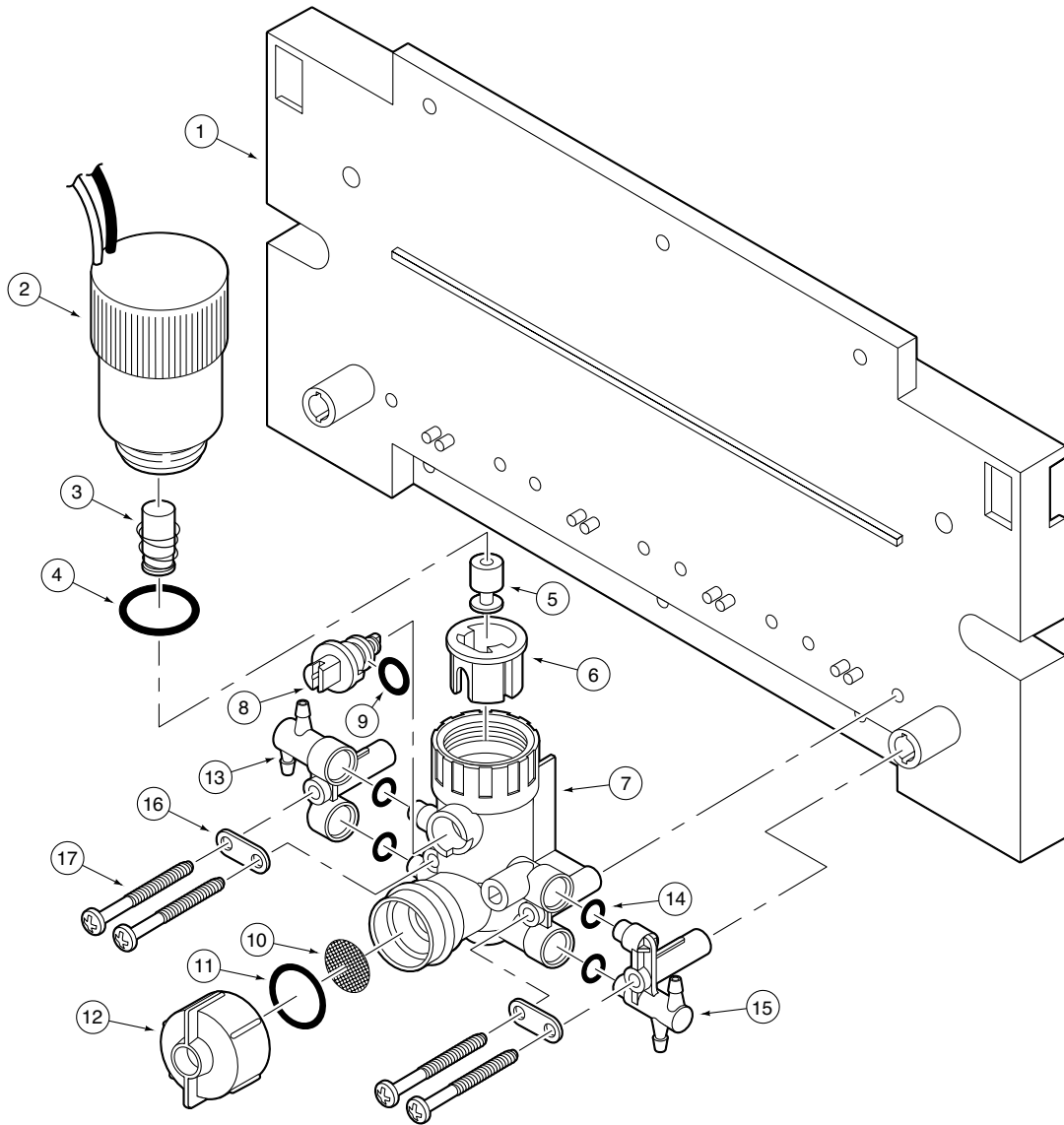
Item No.	Part No.	Description	Quantity Per Assy.
1	89-1673	Solenoid Assy.	1
2	35-4717	Plunger Assy.	1
3	-----	Screw, Machine, 10-24 x 1/2"	2
4	-----	Bracket, Mounting	1
5	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	1
6	102-5599	Actuator Assy.	1
7	35-0992	Body Assy., Pilot Valve (Used with 286-66-01)	1
7	35-7153	Body Assy., Pilot Valve (Used with 9-8482)	1
8	89-8157	Cap, Poly (Used with 286-66-01)	1
9	9-1482	Tube, 1/4" x 36" (Used with 286-66-01)	1
10	*900-40	Retainer, Tube (Used with 286-66-01)	3
11	89-8157	Adapter, Poly (Used with 286-66-01)	1
12	995-14	Fitting, Screen, Supply (Used with 286-66-01)	1
		SERVICE ITEMS	
	35-4603	Kit, Service Assy. (Includes Items 3–7) (Used with 286-66-01)	
	35-4602	Kit, Service Assy. (Includes Items 3–7) (Used with 9-8482)	
		* Order Through Finished Goods Distribution System—Minneapolis	

3-Way Actuator, Normally Closed



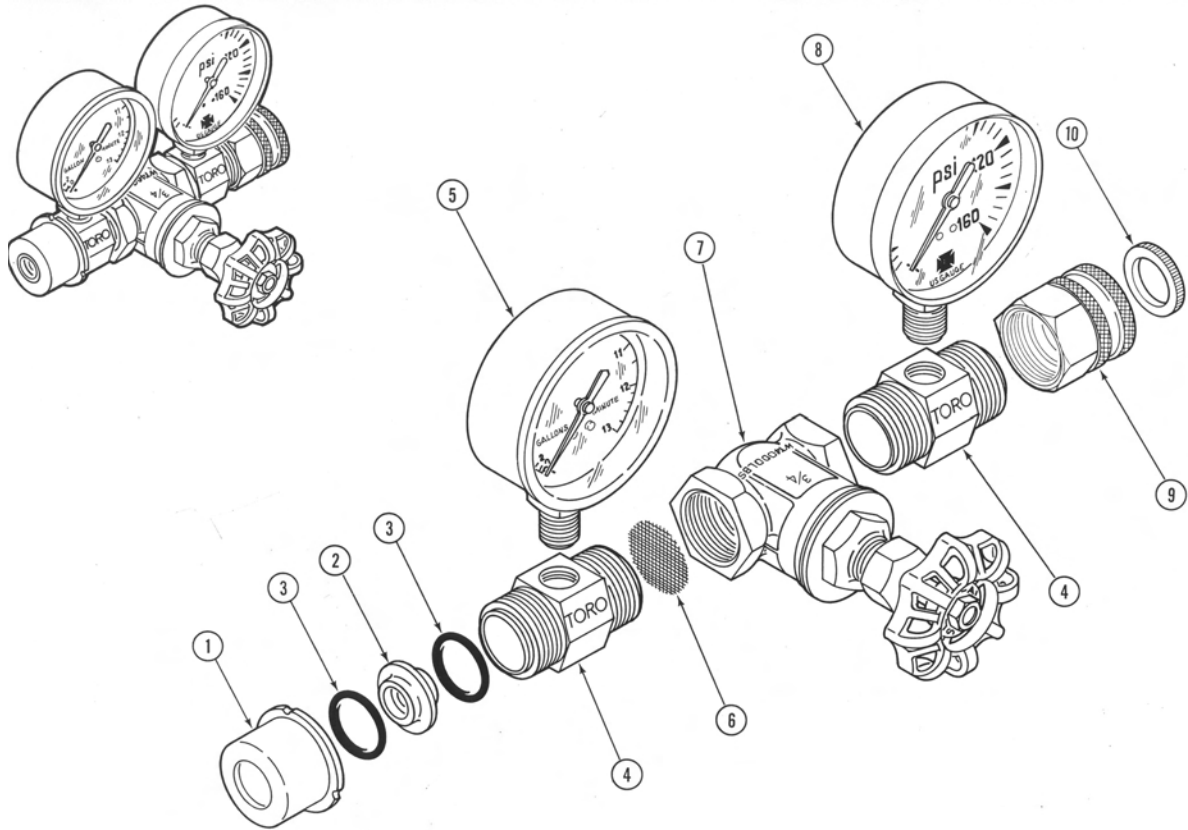
Item No.	Part No.	Description	Quantity Per Assy.
1	89-6005	Adapter, Pilot Valve, NC	1
2	-----	Shuttle	1
3	-----	Screw, Machine, 10-24 x 1/2"	2
4	-----	Bracket, Mounting	1
5	360-0220	O-Ring, 0.070" x 0.551" x 0.691"	1
6	102-5599	Actuator Assembly (Includes O-Rings)	1
7	35-7153	Body Assy., Pilot Valve	1
		SERVICE ITEMS	
	35-4603	Kit, Service Assy. (Includes Items 3-8)	

Electric-Hydraulic Converter Module Assembly



Item No.	Part No.	Description	Quantity Per Assy.
1	89-1662	Baseplate	1
2	89-5985	Solenoid Assy.	4
3	35-4717	Plunger Assy.	4
4	360-0220	O-Ring	4
5	102-5359	Plunger, Shuttle	4
6	102-5360	Sleeve	4
7	89-8203	Body Assy., NO with White Pins on Actuator	4
7	89-8204	Body Assy., NC with Black Pins on Actuator	4
8	102-4636	Stem, Manual, NO (White)	4
8	102-4637	Stem, Manual, NC (Black)	4
9	360-0497	O-Ring	4
10	89-0371	Screen, Filter	4
11	360-0402	O-Ring	4
12	102-4638	Cap, Filter	4
12	89-8205	Cap Assy., Blind	4
13	102-4641	Tee, Female	1
14	2-9654	O-Ring	10
15	102-4642	Tee, Male	1
16	89-1675	Strap, Tie	2
17	363-3158	Screw, #6 x 1.25"	7

Flow Gauge, Model 995-01



Item No.	Part No.	Description	Quantity Per Assy.
1	9-4576	Threaded Insert – 3/4"	1
2	5-311	Orifice Plate	1
3	360-0596	O-Ring	2
4	9-6023	Nipple	2
5	5-309	Flow Gauge	1
6	5-307	Filter Screen	1
7	-----	Gate Valve – 3/4"	1
8	5-308	Pressure Gauge	1
9	5-303	Hose to Pipe Fitting	1
10	-----	Hose Washer – 3/4"	1



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