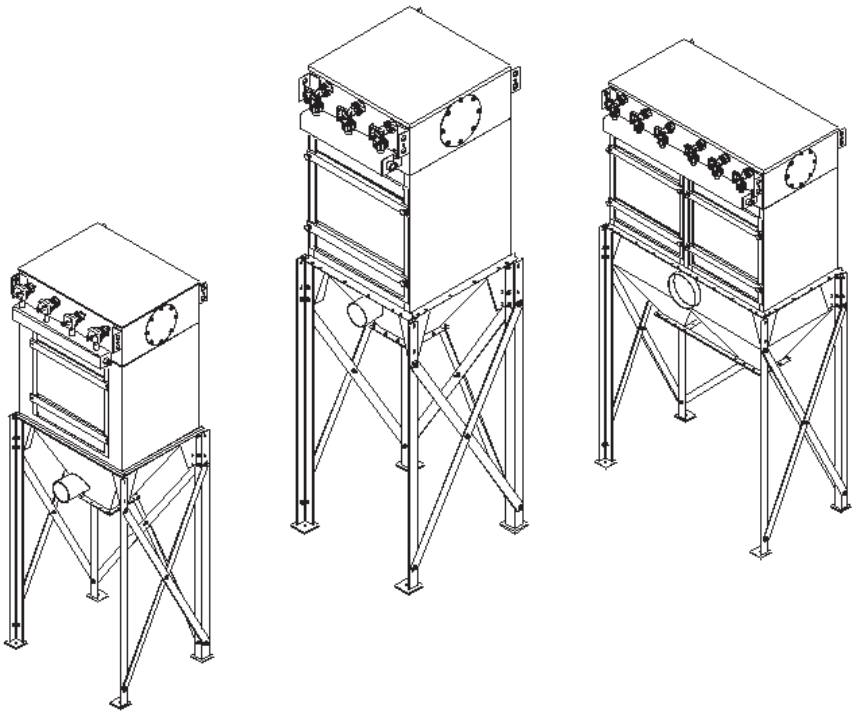
Donaldson®
Torit®

Installation and Operation Manual

TD486 Dust Collectors

Includes Installation, Operation, Service and Replacement Parts Information



This manual is the property of the owner. Leave with the unit when set-up and start-up are complete. Donaldson Company reserves the right to change design and specifications without prior notice.

Throughout this manual, statements indicating precautions necessary *to avoid equipment failure* are referenced in a **Note.** Statements indicating potential hazards that could result in *personal injury or property damage* are referenced in a **Caution!** box.

IOM 7470101
Revision 5

CAUTION!

Application of Dust Control Equipment

- Combustible materials such as buffing lint, paper, wood, aluminum or steel dust, weld fume, or flammable solvents represent fire or explosion hazards. Use special care when selecting and operating all dust or fume collection equipment when combustible materials are present to protect workers and property from damage due to fire and/or explosion. Consult and comply with National and Local Codes relating to fire or explosion and all other appropriate codes when determining the location and operation of dust or fume collection equipment.
- When combustible materials are present, consult with an installer of fire extinguishing systems familiar with these types of fire hazards and local fire codes for recommendations and installation of fire extinguishing and explosion protection systems. Donaldson dust collection equipment is not equipped with fire extinguishing or explosion protection systems.
- DO NOT allow sparks, cigarettes or other burning objects to enter the hood or duct of any dust or fume control equipment as these may initiate a fire or explosion.
- For optimum collector performance, use only Donaldson replacement parts.

Table of Contents

This manual contains specific precautionary statements relative to worker safety. Read thoroughly and comply as directed. Discuss the use and application of this equipment with a Donaldson representative. Instruct all personnel on safe use and maintenance procedures.

Data Sheet

Model Number _____ **Serial Number** _____

Ship Date _____ **Installation Date** _____

Customer Name _____

Address _____

_____

Filter Type _____

Accessories _____

Other _____

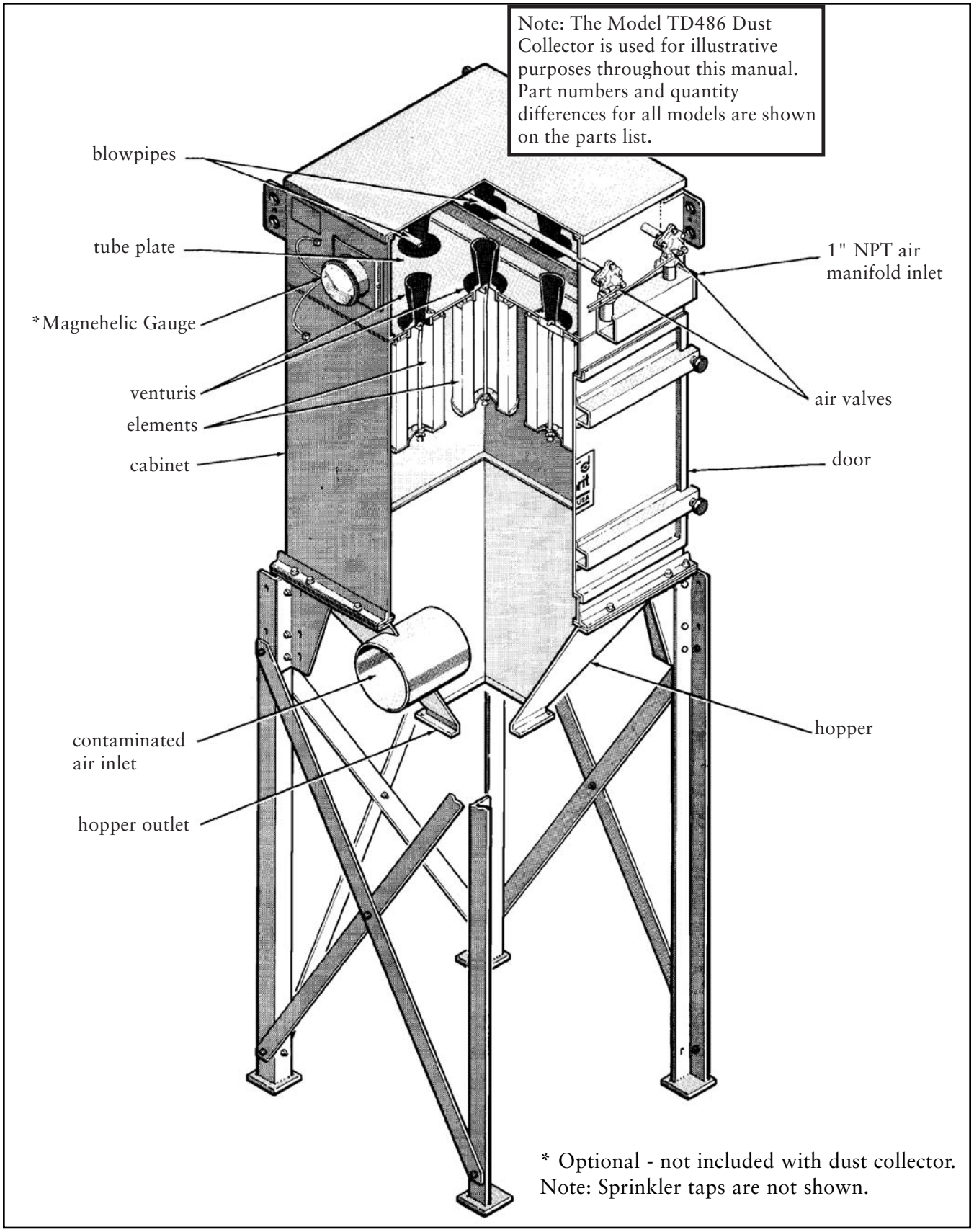


Figure 1, Cutaway View

Introduction

The Torit TD Dust Collector is used for collection of airborne dust and particulate. Whether in answer to the problems of air pollution or as a part of a manufacturing operation, Torit TDs provide continuous operation.

Operational Explanation (See Figure 2)

Normal Operation

During normal operation, dust enters the inlet and is collected on the outside of the elements. The filtered air passes up through the venturis and plenum and out the blower outlet or outlet collar.

Noise Level

A certain level of noise is created with any air moving device. If for any reason this noise level is above a tolerable level, exhaust silencers are available from Donaldson Torit as optional equipment. Contact your Donaldson Torit representative for optional accessory blowers, attenuators, filter elements.

Filter Cleaning

Filter element groups are cleaned automatically and alternately. The result is that at any one time only one group of elements is taken off stream for cleaning, while the remaining elements are still in operation. Elements are: 7-7/8 O.D., 3-9/16" I.D., by 16" long.

During filter element purge, the solid-state control timer automatically selects the elements to be cleaned and energizes the air valve solenoid. The air valve opens, sending a pulse of compressed air into the blowpipe and down through the venturis. The compressed air pulse and induced air pass through the filter elements from the inside outward, removing the dust from the outside of the elements. The dust falls into the hopper. At the end of the 100 millisecond pulse, the air valve closes and the elements are back in operation.

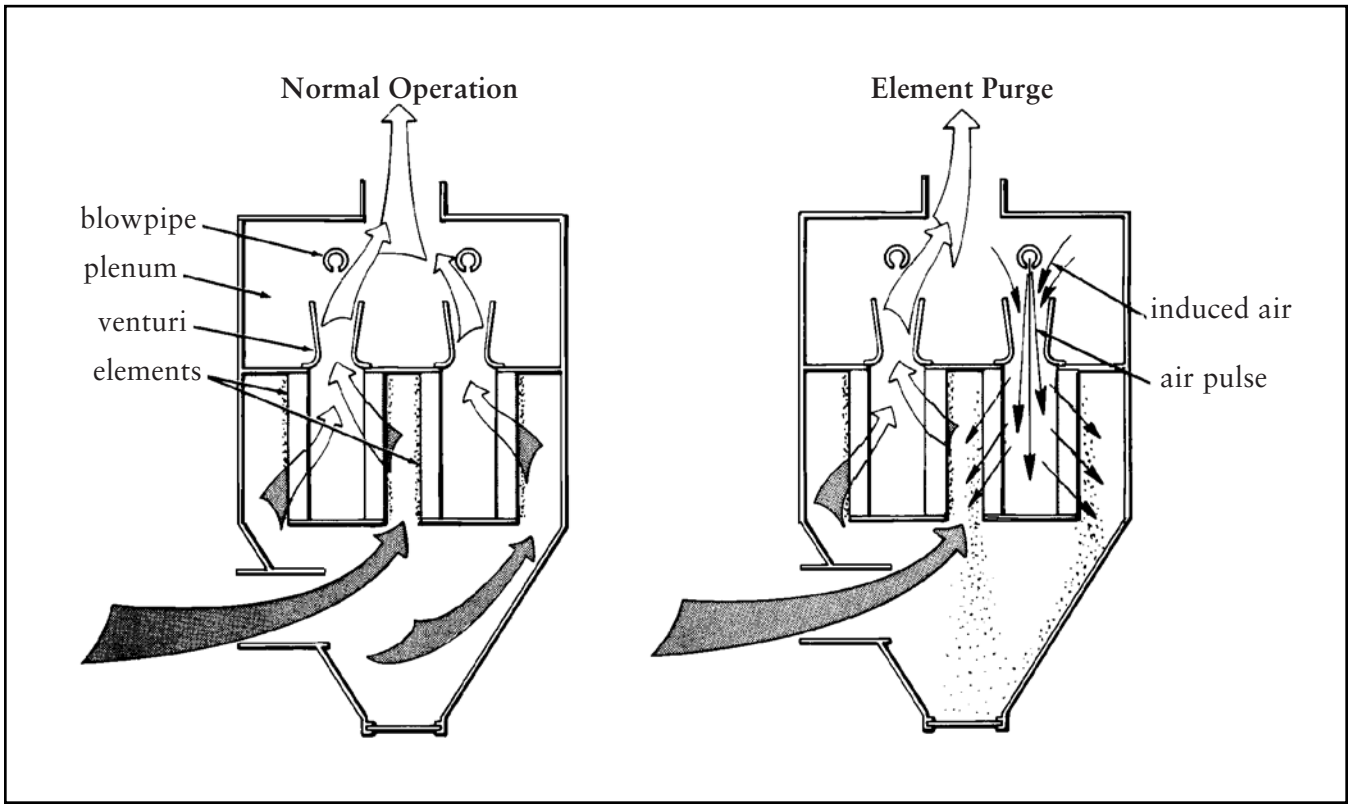


Figure 2, Operational Schematics

Hoppers

Standard hoppers are at least 59° as viewed from a horizontal reference and have one inlet.

Hopper discharge clearance on standard hoppers is 48". Other hopper clearances are available on special order—for information on optional clearances, contact your local Donaldson Torit Products representative.

Installation

Inspection

The TD dust collector is normally shipped by common carrier truck and should be checked for any damage that may have occurred en route. Any damage should be noted and the carrier notified immediately.

Pre-Installation (See Figure 1)

The weight of the dust collector and all auxiliary equipment must be considered when planning for the foundation. See individual Specification Control Drawing for dust collector weight.

See Specification Control Drawing for anchor bolt location. The 3/8" anchor bolts must extend 1-3/4" above foundation. The collector location should be determined with consideration for emptying the hopper, shortest run for the location of duct work, electrical and air connections and maintenance. In the case of hazardous dust, consult with local authorities for the location of the unit.

Remove all crating and strapping from the unit.

All parts, bolts, nuts, etc. are shipped inside of the unit. Remove before lifting unit off the pallet.

Assembly of Standard Equipment

Note: A crane is recommended for the unloading, assembly, and installation of the dust collector.

CAUTION!

- Connect the lifting sling to a minimum of four (4) cabinet lifting lugs.
- Distribute loads evenly.
- Connect the lifting sling to double thickness cabinet lifting lugs when possible.
- Use clevices, not hooks, on the lifting sling.
- Use spreader bars on the lifting sling.

Note: Each item to be attached to your collector is accompanied by a drawing that shows the attachment. Refer to both the drawings and this manual when erecting your collector.

Hopper to cabinet assembly is done on the job site. Remove hopper from pallet and stand on hopper discharge opening. Apply 1/4" diameter sealer to the hopper flange (see Parts Drawing 1 Cabinet Assembly) NOTE: Apply sealer inside bolt holes. Lift cabinet from pallet and position on top of hopper.

Bolt hopper to cabinet with 3/8-16 x 1-1/4" Grade 2 bolts, flat washers, lock washers, and nuts. Lift cabinet and hopper assembly and attach legs and cross bracing with 3/8-16 x 1-1/4" Grade 2 bolts, flat washers, lock washers, and nuts. Note that leg and cross bracing bolting requires two flat washers per bolt. DO NOT tighten bolts. Position unit on permanent mounting platform and bolt in place. TIGHTEN ALL LEG AND Cross bracing BOLTS.

Blower Assembly (must be purchased separately)

With a Donaldson Torit supplied blower:

- Mount blower on pre-cut outlet in cabinet roof.
- See also blower installation instructions supplied with blower.

If you supply your own blower, check with Donaldson torit for cabinet pressure limitations before ordering blower.

When installing a remote blower, connect ductwork to the roof panel outlet. Factory-available outlets measure 6"-12" in diameter (1" increments).

Inlets

Inlets are welded to hoppers and require customer to specify proper inlet size and location with each unit.

Inlet Duct (must be purchased separately)

Inlet duct work must be of proper size to handle air volume required at recommended velocity for dust to be conveyed to the collector.

When installing duct work, use the shortest possible runs and large radius elbows. Seal all joints.

Connect inlet duct to inlet on hopper.

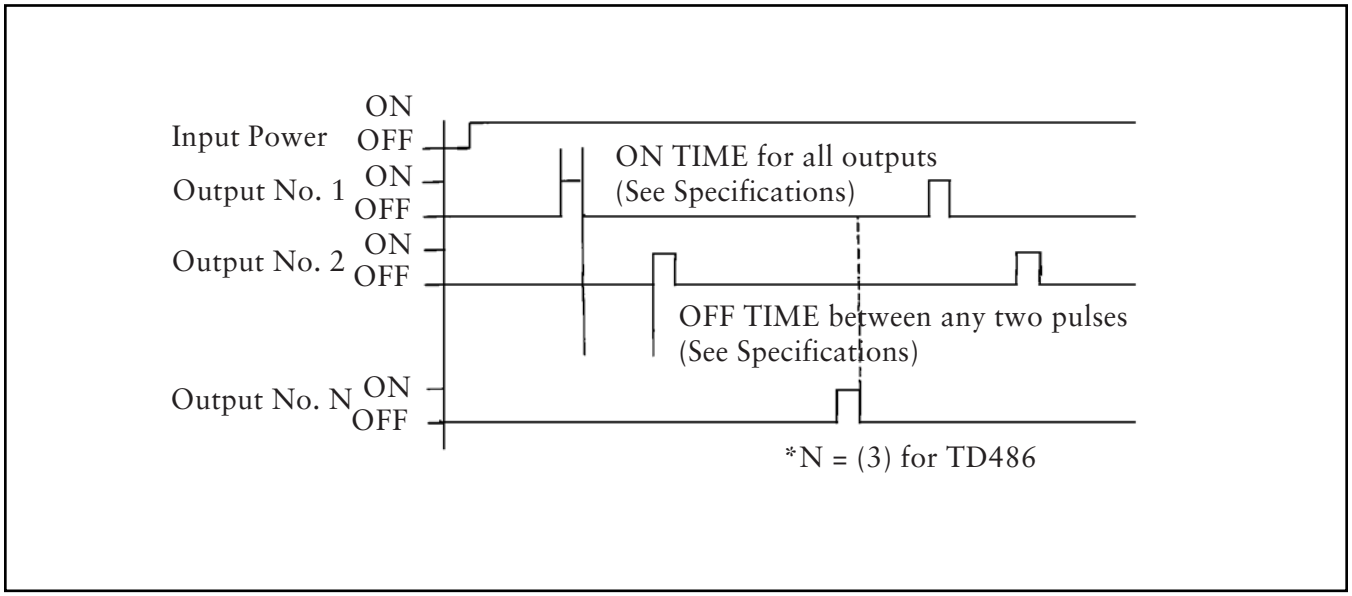


Figure 3, Operating Logic Diagram

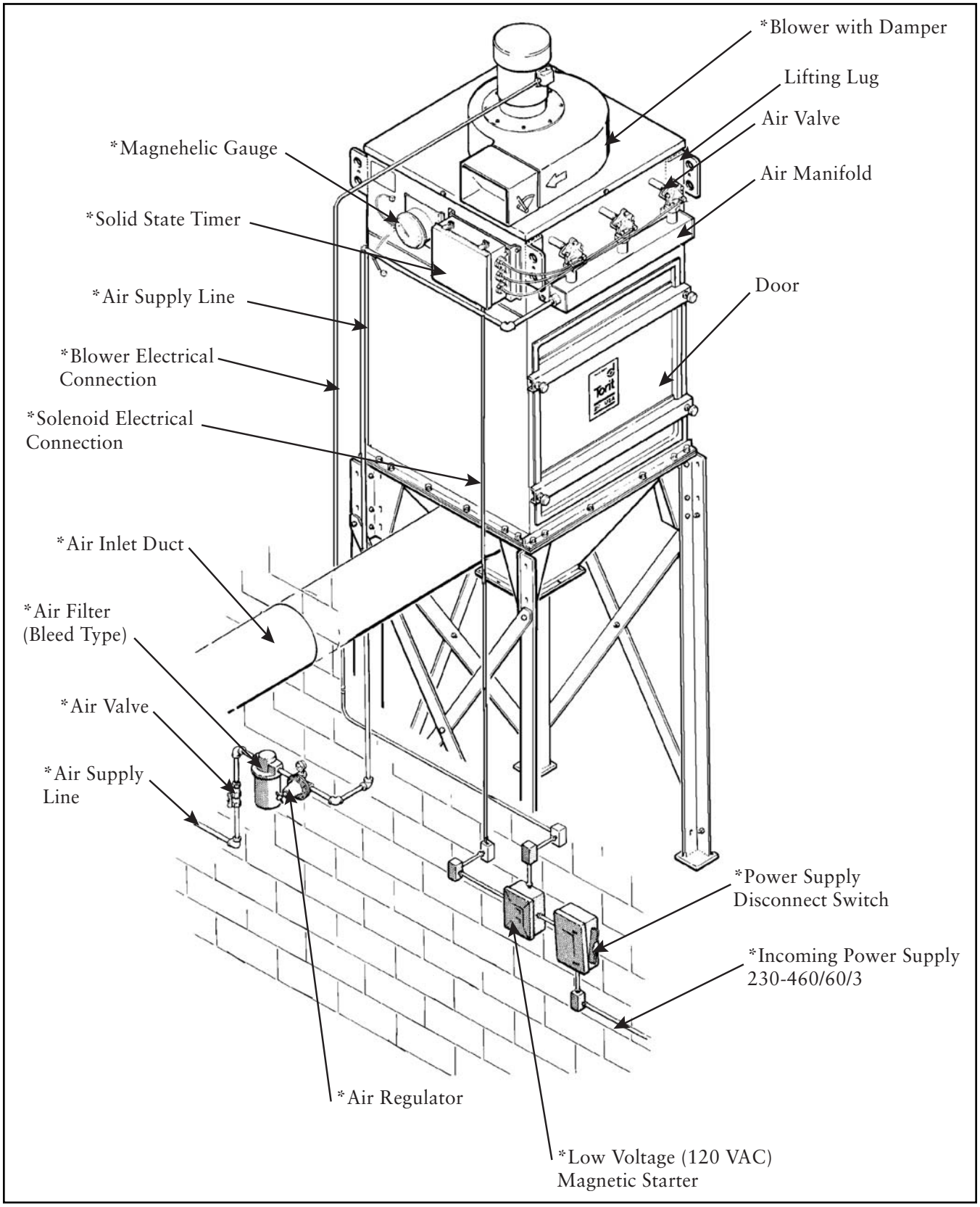


Figure 4, Typical Installation

Electrical Installation

CAUTION!
Disconnect electrical power before servicing any electrical component.

Note: All electrical work must be done by a qualified electrician according to local codes.

Continuous duty TD—standard TD units are equipped with 120 VAC solenoid valves rated at 14.6 watts each, and a solid-state electronic 120/60/1 control timer.

Note: Solid-state TD control requires a low voltage (120 V) control circuit in fan circuit to be supplied by others.

TD Solid-State Timer Specifications (Automatic Cleaning Only)

1. **Operating Logic:** Input power is applied to L1 and L2 of the timer control circuit board which is in parallel with the low voltage (120/60/1) coil of the fan magnetic starter. Upon fan start-up, power is supplied to the control board and the preset OFF time is initiated. At the end of the OFF time, the control will energize a solenoid to provide the cleaning pulse for one segment of the filter elements and then step to the next segment. This cycle is continuous unless an auxiliary control, such as a pressure switch, is used to control the timer. See Figure 3, Operating Logic Diagram.
2. **Input:** 105-135 VAC, 50-60 Hz.
3. **Output:** Type—solid state switch (triac). The load is carried by and turned on and off by the triac. Rating—200 watts maximum load per output.
4. **Pulse Width:** Factory-set at 100 milliseconds.
5. **Off Time:** Adjustable between ranges shown. 1 to 1.5 seconds minimum, 60 to 66 seconds maximum (factory set).
6. **Operating Temperature Range:** -20 to +130°F.
7. **Transient Voltage Protection:** 50 KW transient for 20µs duration once every two seconds.

TD Solid-State Timer Installation Instructions

Note: All electrical work must be done by a qualified electrician according to local codes.

1. Install proper sized starter (with low voltage control circuit) conduit and wires for fan motor.
2. Using wiring diagram (Figure 5 Wiring Diagram and inside control timer cover), make proper connections to fan motor, fan motor starter, solid state timer, and solenoid valves.

Note: In grounded systems, neutral to control box must be connected to L2 of the control terminal board.

3. Bump the fan motor and check for proper rotation by referencing the rotation sticker located on the motor mounting plate. To prevent possible eye injury, wait for the wheel to run down to a very slow speed and wear eye protection.

Proper fan rotation is extremely important. Even if the fan is running in the wrong direction, it will deliver approximately 40% of its rated air volume, but it will required more then its rated horsepower. If rotation is in the direction opposite the arrow, simply reverse any two leads (3 phase only) on the output of the fan motor starter.

4. Check operation of the solenoid valves. These valves should open and close continuously with a factory-set dwell between each pulse.

Note: To reduce compressed air consumption, a Photohelic®* or similar device can be used, allowing valves to pulse only when pressure reaches set point.

5. Caulk fittings through walls or roof.

*Photohelic is a registered trademark of Dwyer Instruments, Inc.

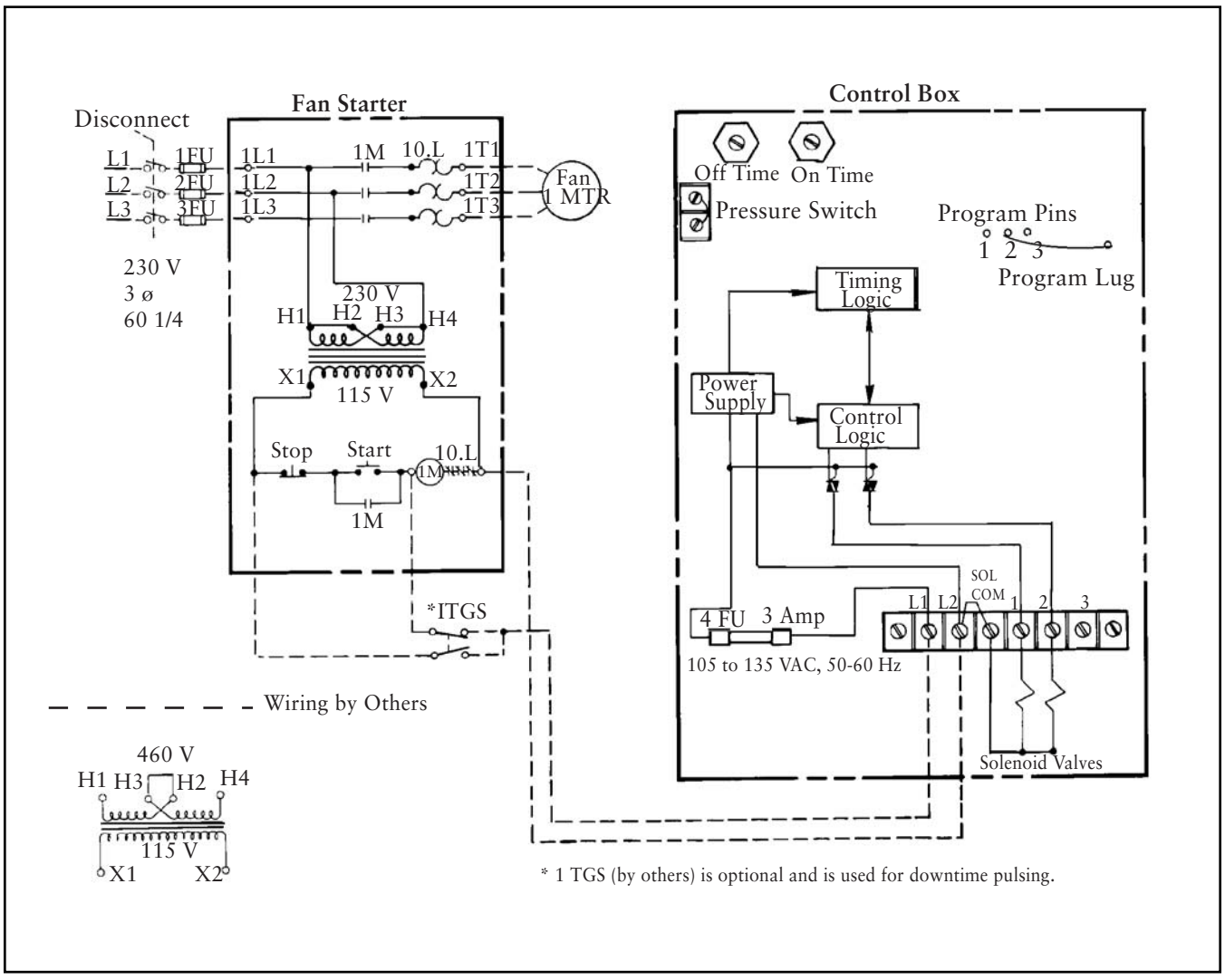


Figure 5, Solid-State Timer Wiring Diagram

Air Supply Installation

Remove pipe plug from the end of dust collector manifold and connect air supply line. Use "Teflon" tape or pipe sealant on all air connections. Air valve, bleed type regulator and gauge, filter and automatic condensate valve should be installed in the air supply line. These components should preferably be located in the building for convenient service and start-up/shutdown of the unit. Be sure that all components are adequately sized to meet system requirements of 0.3 SCF per pulse at 90 psig supply pressure.

CAUTION!

Purge air lines to remove debris before connecting to air manifold.

1. Turn air supply to air manifold on and adjust pressure to 90 psig. Experience indicates 90 psig to be the most typical setting for satisfactory cleaning performance. See Operating Adjustments section below.
2. Turn on Hopper Discharge System (where so equipped).
3. Turn on blower. At initial start-up, visually check blower rotation to be sure it is correct.

Operating Adjustments

Compressed air is specified at a pressure of 90 psig.

The control timer is factory-set to clean a segment of elements every 10 seconds.

Higher than design △P* can often be lowered by increasing the frequency of cleaning. Minimum dwell time between pulses is 3 seconds. Additional cleaning energy may be obtained by adjusting pressure up to a maximum of 100 psig. DO NOT increase the length of each pulse beyond nominal 100 millisecond factory setting. Longer pulses do not aid cleaning; they simply waste compressed air.

DO NOT increase air pressure beyond 100 psig. Filter damage may result.

A low △P can be raised to design levels by increasing off time between pulses. A pressure switch control may be added to clean only when △P reaches design level.

Pre-Start-Up Check

1. Monitor exhaust. Exhaust should remain visually clean. If a leak develops, it will be first noticed as a puff of dust immediately after a cleaning pulse.
2. Monitor pressure drop. Equilibrium △P is generally 3-4 inches on Magnehelic®** gauge, but 1-6 inches is considered normal.

**△= Pressure drop across filter elements.*
*** Photohelic and Magnehelic are registered trademarks of Dwyer Instruments, Inc.*

Service

CAUTION!

- Disconnect electrical power before servicing any electrical components.
- Shut off and bleed air supply before servicing any air circuits.

Element Replacement

Note: Remove label with filter part number that is included with each filter. Place it on the Donaldson serial plate located on the collector, over the existing filter part number for the most current installed filter.

Remove all filter elements by turning wing nut counterclockwise until hanger is loose enough to remove filter from hanger bracket (see Figure 6A, Element Replacement). Disassemble hanger rods from elements and install in new elements as shown in Figure 6B, Element Replacement.

CAUTION!

Dust laden filters may be heavy and difficult to handle when removed through access door opening.

Hang element assembly on venturi brackets as shown in Figure 6A, Element Replacement (start at the back of the cabinet and work towards the door). Turn wing nut clockwise until element bottoms out or stops.

Note: Element must be sufficiently tightened until it cannot be twisted by hand.

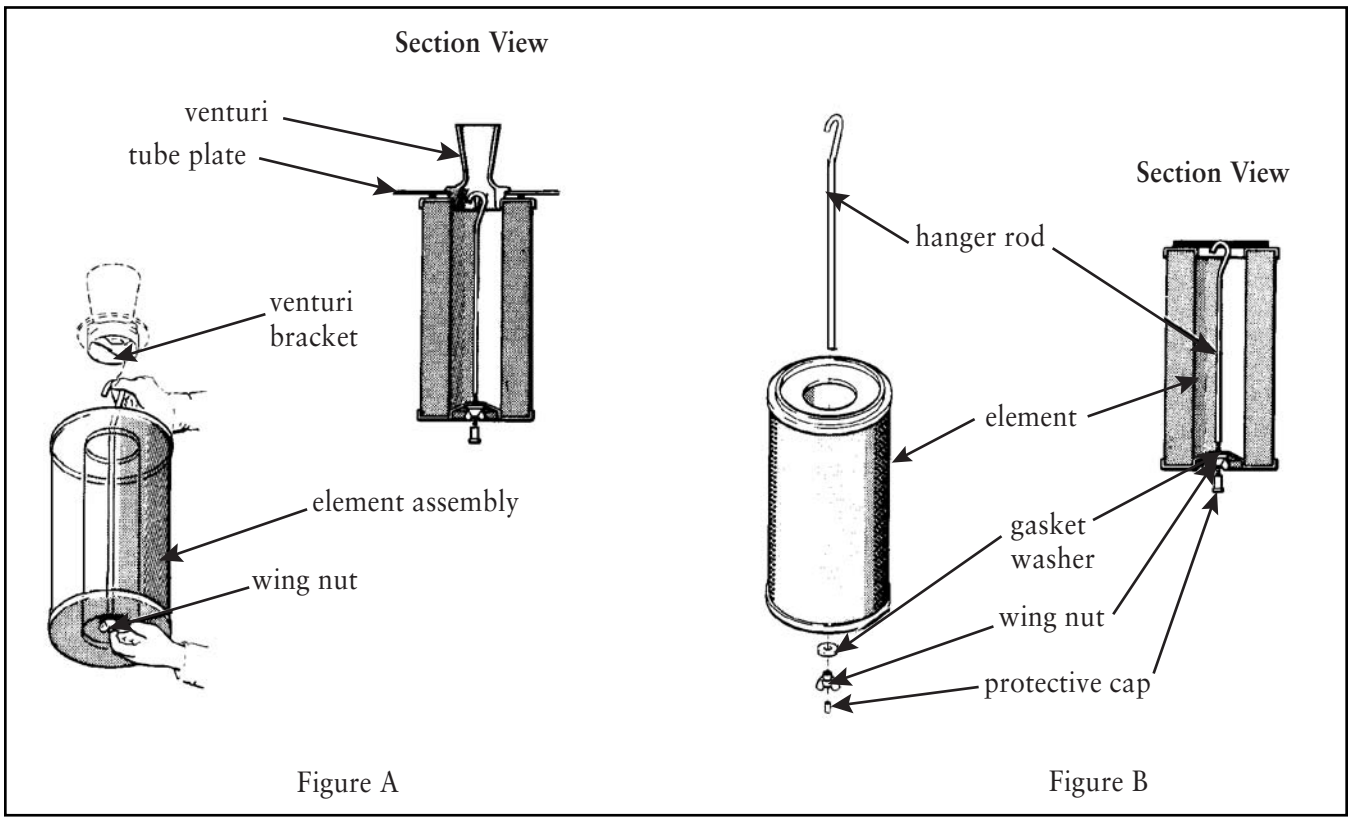


Figure 6, Element Replacement

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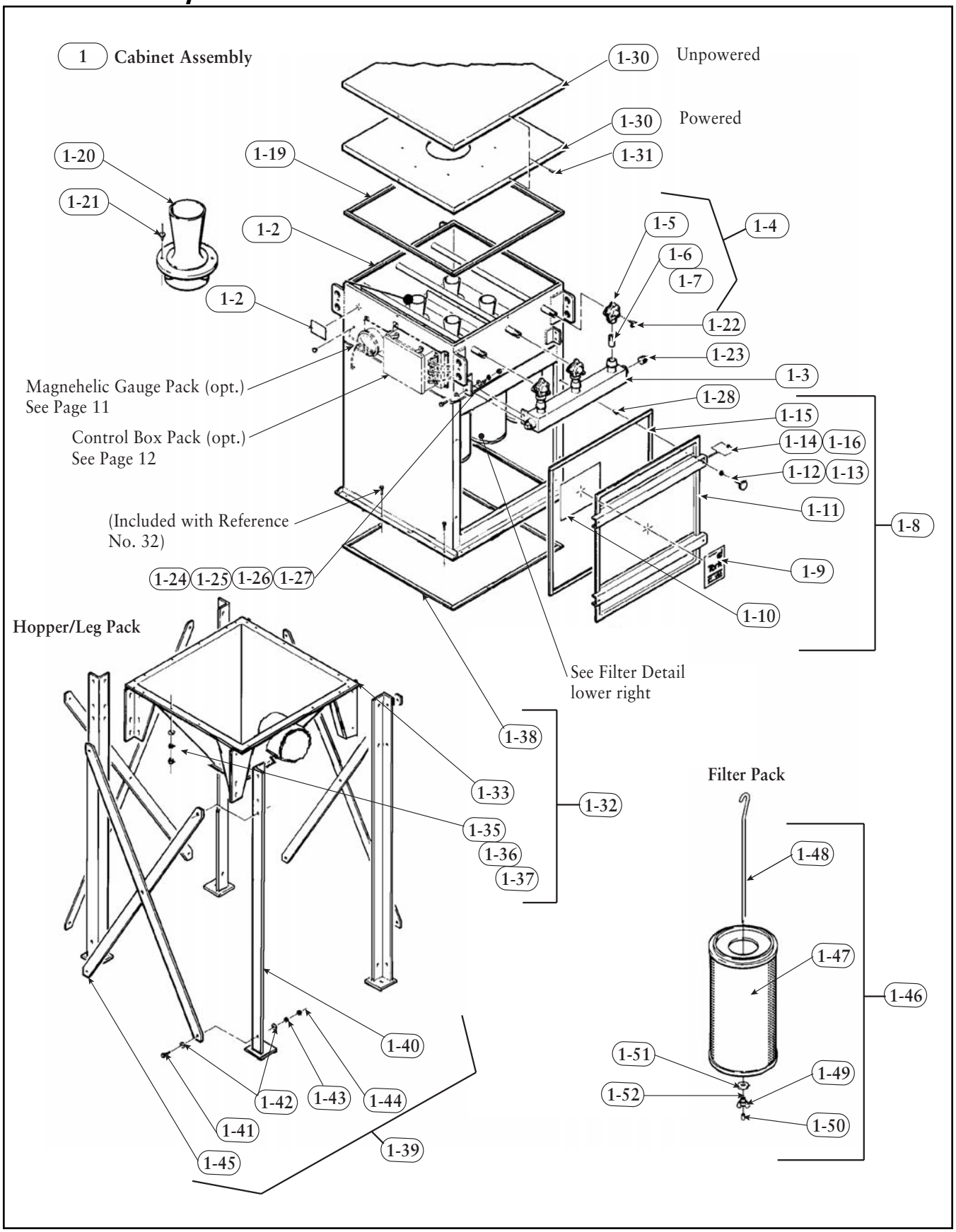
Cabinet Assembly



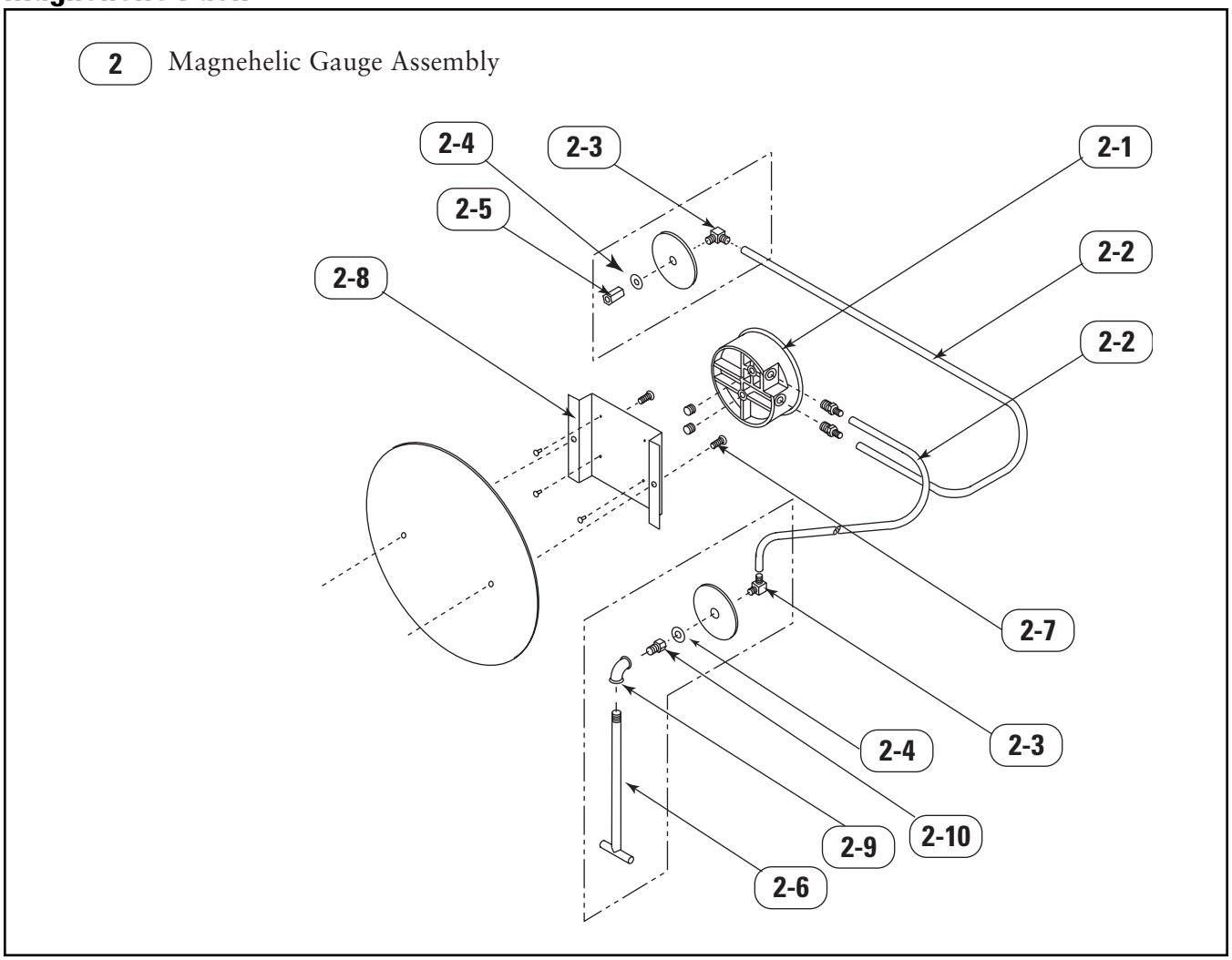
Parts Drawing 1, Cabinet Assembly

Item	Part Number	Description	Model
1	1FA 2324400	Cabinet Assembly, Includes Items 2-29	486
	1FA 2138600	Cabinet Assembly, Includes Items 2-29	650
1-2	4MA 1924900	Cabinet Weldment	486
	4MA 2138700	Cabinet Weldment	486
1-3	4MA 1925500	Manifold Tank Assembly	486
	4MA 2139900	Manifold Tank Assembly	650
1-4	3EA 2324200	Valve Assembly, Includes Items 5-7	All
1-5	8PP 1883500	Diaphragm Valve	All
1-6	8PP 1900400	Nipple, 3/4-in NPT x 2-in, Toe	All
1-7	8PP 1798600	Loctite Pipe Sealant	
1-8	2SG 2324300	Door Assembly, Includes Items 9-16	All
1-9	8PP 5877902	Logo, Torit	All
1-10	8PP 1931500	Label, Filter Cartridge Installation	All
1-11	4MA 1924800	Door Weldment	All
1-12	8PP 4247303	Knob, 1/4-20 x 1 1/4-in	All
1-13	8PP 0900606	Flat Washer	All
1-14	8PP 1892100	1/4-in Retaining Ring	All
1-15	8PP 1926100	Rubber Seal, 1/2 x 3/16-in	All
1-16	8PP 0900604	Flat Washer, 3/16-in	All
1-18	8PP 4536700	Serial Plate	All
1-19	8PP 1926100	Rubber Seal, 1/2 x 3/16-in	All
1-20	8PP 2186900	Venturi	All
1-21	8PP 0918718	Rivet, 3/16-in Steel	All
1-22	8PP 2146200	Elbow, 1/4-in OD x 1/8-in NPT	All
1-23	8PP 1814700	Plug, 1-in NPT Galvanized Steel	All
1-24	8PP 0900804	Bolt, 3/8-16 x 1-in	All
1-25	8PP 0900608	Flat Washer, 3/8-in, Type A	All
1-26	8PP 0900711	Lock Washer, 3/8-in Helical Spring	All
1-27	8PP 0901110	Hex Nut, 3/8-16 Steel	All
1-28	8PP 0921801	Rivnut; 1/4-20, Type 25-140	All
1-29	3EA 1872700	Air Schematic Not Shown	All
1-30	3EA 2201201	Top, Unpowered, Includes Item 31	486
	3EA 2201202	Top, Powered, Includes Item 31	486
	3EA 2142501	Top, Unpowered, Includes Item 31	650
	3EA 2142502	Top, Powered, Includes Item 31	650
1-31	8PP 0903505	Screw, Hex Washer Head, Self-drill	All
1-32	2SG 2158500	Hopper Assembly, Includes Items 33-38	486
	2SG 2140800	Hopper Assembly, Includes Items 33-38	650

Item	Part Number	Description	Model
1-33	4MA 2158400	Hopper Weldment	486
	4MA 2140900	Hopper Weldment	650
1-34	8PP 0900804	Hex Bolt, 3/8-16 x 1-in, Grade 2	All
1-35	8PP 0900608	Flat Washer, 3/8-in	All
1-36	8PP 0900711	Lock Washer, 3/8-in	All
1-37	8PP 0901110	Hex Nut, 3/8-16 UNC	All
1-38	8PP 0509700	1/4-in Diameter Rope-Type Sealant	All
1-39	2SG 2334500	Leg Assembly, Includes Items 40-45	486
	2SG 4432300	Leg Assembly, Includes Items 40-45	650
1-40	2SG 2281100	Leg Weldment	486
	2SG 4432100	Leg Weldment	650
1-41	8PP 0900805	Hex Bolt, 3/8-16 x 1 1/4-in, Grade 2	All
1-42	8PP 0900608	Flat Washer, 3/8-in	All
1-43	8PP 0900711	Lock Washer, 3/8-in	All
1-44	8PP 0901110	Hex Nut, 3/8-16 UNC	All
1-45	6MM 2334400	Bar Brace	486
	6MM 4500200	Bar Brace, Side	650
	6MM 4431900	Bar Brace	650
1-46	3EA 1880401	Filter Cartridge Assembly, Standard Media, 7 15/16 x 16-in EN07.01.239, 54 ft^2, 140°F	All
	3EA 1880403	Filter Cartridge Assembly, Blue Ultra-Web®, 7 15/16 x 16-in, EN07.01.246, 54 ft2	All
	3EA 1880411	Filter Cartridge Assembly, Blue Ultra-Web FR, 7-15/16 x 16-in, EN07.01.239, 54 ft2	All
	3EA 1880404	Filter Cartridge Assembly, Thermo-Tek® 22, 7-15/16 x 22-in, EN07.01.317, 73 ft2	All
	3EA 1880412	Filter Cartridge Assembly, Ultra-Tek®, 7 15/16 x 16-in, EN07.01.266, 43 ft2	All
	3EA 1880414	Filter Cartridge Assembly, Fibra-Web®, 7 15/16 x 16-in, EN07.01.283, 43 ft2	All
	3EA 1880415	Filter Cartridge Assembly, Ultra-Web NL, 7 15/16 x 16-in, EN07.01.249, 60 ft2	All
	3EA 1880416	Filter Cartridge Assembly, Ultra-Web FR NL, 7 15/16 x 16-in, EN07.01.246, 60 ft2	All
	3EA 1880417	Filter Cartridge Assembly, Fibra-Web FR, 7 15/16 x 16-in, EN07.01.334, 43 ft2	All
	3EA 1880418	Filter Cartridge Assembly, Torit-Tex®, 7 15/16 x 16-in, EN07.01.310, 25 ft2	All

Item	Part Number	Description	Model
1-47	8PP 1880300	Filter Cartridge, P12-9196	All
	8PP 2158600	Filter Cartridge, P14-8646	All
	8PP 4076500	Filter Cartridge, P52-7079	All
	8PP 7244301	Filter Cartridge, P19-1496	All
	8PP 4596700	Filter Cartridge, P19-1077	All
	8PP 4866500	Filter Cartridge, P19-1267	All
	8PP 7246301	Filter Cartridge, P19-1529	All
	8PP 7245801	Filter Cartridge, P19-1524	All
	8PP 7245201	Filter Cartridge, P19-1511	All
	8PP 7248001	Filter Cartridge, P19-1558	All
1-48	6MM 1884600	Hanger Rod, 16-in	All
	6MM 2197700	Hanger Rod, 22-in	All
1-49	8PP 1884700	Wing Nut, 5/16-18	All
1-50	8PP 1916000	Protective Cap, Polyethylene	All
	8PP 0932401	Protective Cap, Steel Sleeve Nut	All
1-51	8PP 1905400	Gasket Washer with Rubber Back	All
	8PP 1959600	Gasket Washer with Silicone Back	All
1-52	6MM 2052900	Ground Element Tab	All

Magnehelic Pack



Parts Drawing 2, Magnehelic Pack

Item	Part Number	Description	Model
2	2SG 2333900	Magnehelic Gauge Assembly	All
2-1	8PP 1647500	Magnehelic Gauge	All
2-2	5PM 2334200	Tubing, Plastic	All
2-3	8PP 1647700	Elbow, 90° Brass Male x 1/8-in NPT	All
2-4	8PP 0900608	Flat Washer, 3/8-in, Type A	All
2-5	8PP 1846300	Coupling, Female, 1/8-in	All
2-6	8PP 2324501	Static Pressure Tee, Brass	All
2-7	8PP 0903505	Screw, Hex Washer Head, Self-Drill	All
2-8	6MM 2324600	Mounting Panel	All
2-9	8PP 2326000	Elbow, 90° Brass F x 1/8-in NPT	All
2-10	8PP 2157400	Adapter, 1/8-in MPT x 1/8-in FPT	All

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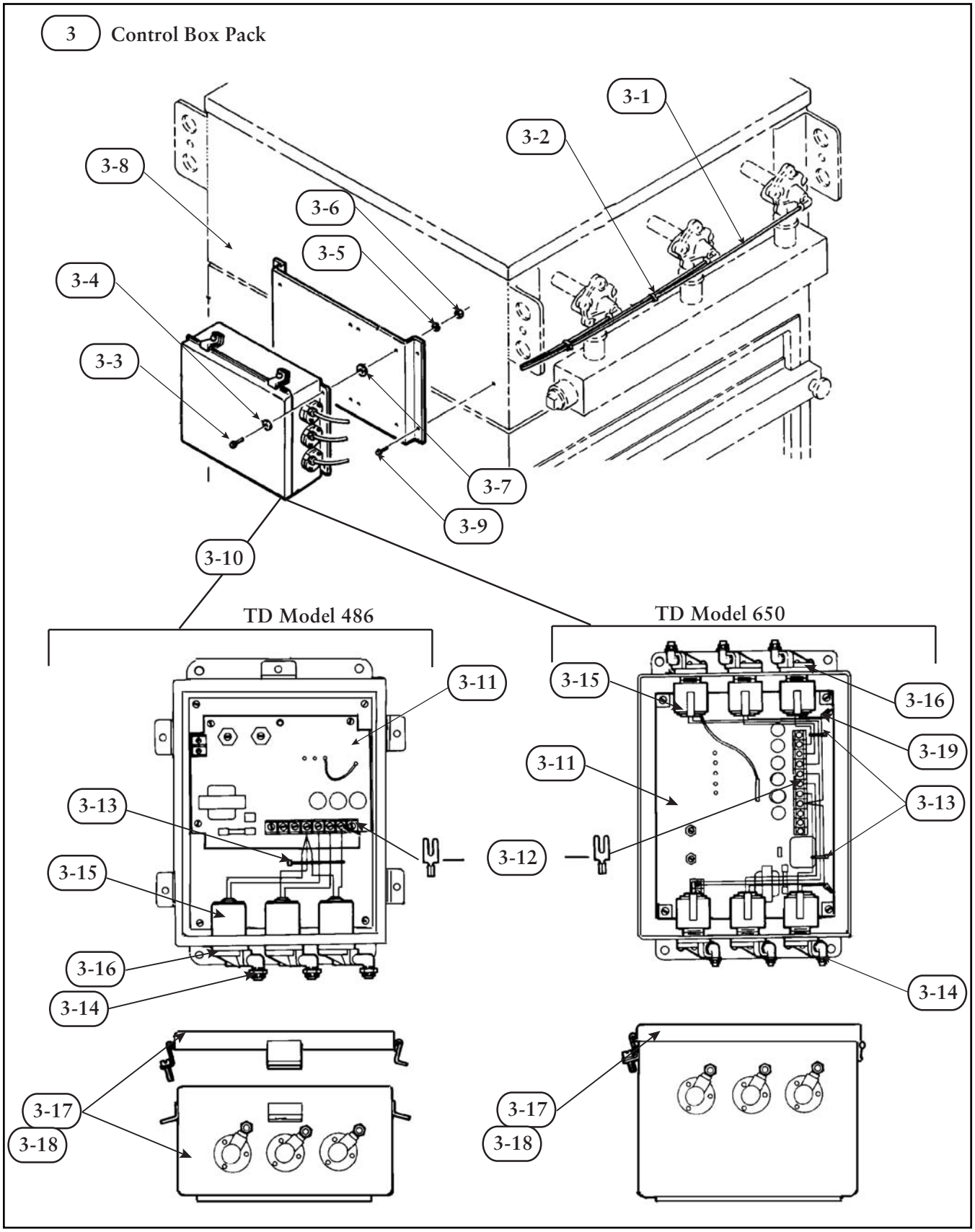
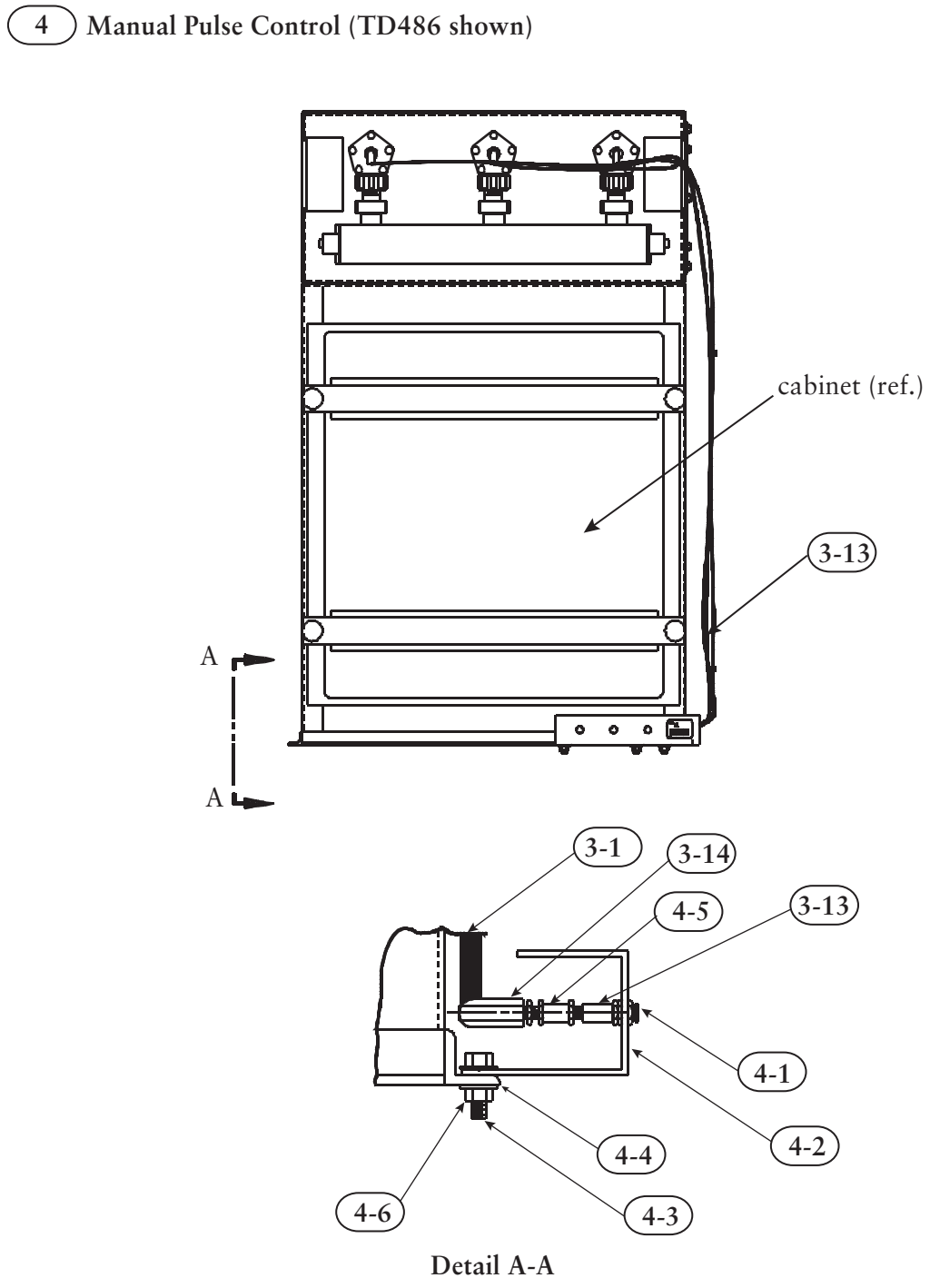
Control Box Pack



Parts Drawing 3, Control Box Pack

Item	Part Number	Description	Model
3	2SG 2312001	Control Box Pack, TD	486
	2SG 2312002	Control Box Pack, TD	650
3-1	8PP 2146400	Tubing, Polyethylene 1/4-in OD	All
3-2	8PP 1792200	Wire Tie, Nylon	All
3-3	8PP 0900303	Hex Bolt, 1/4-20 x 3/4-in, Grade 2	All
3-4	8PP 0900606	Flat Washer, 1/4-in, Type A	All
3-5	8PP 0900709	Lock Washer, 1/4-in	All
3-6	8PP 0901108	Hex Nut, 1/4-20 UNC	All
3-7	8PP 0078900	Rubber Grommet	All
3-8	6MM 2324700	Control Box Mounting Panel	All
3-9	8PP 0903505	Screw, Hex Washer Head, Self-Drill	All
3-10	3EA 1905802	Control Box Assembly, Includes Items 11-18	486
	3EA 2144701	Control Box Assembly, Includes Items 11-19	650
3-11	8PP 1906100	Solid State Timer, NCC	486
	8PP 2144000	Solid State Timer, NCC	650
3-12	8PP 0208300	Terminal Flag Spade	486
3-13	8PP 1792200	Wire Tie, Nylon	All
3-14	8PP 2146200	Elbow, 1/4-in OD Plastic x 1/8-in NPT	All
3-15	8PP 1801900	Solenoid Valve, 1/8-in NPT	All
3-16	8PP 1972000	O-Ring; 0.739 ID x 0.070-in thick	All
3-17	5PM 1905600	Control Box	486
	5PM 2144601	Control Box	650
3-18	3EA 2366100	Wiring Diagram	486
	3EA 2144100	Wiring Diagram	650
3-19	8PP 0211900	Solderless Connector, Spring Y	650

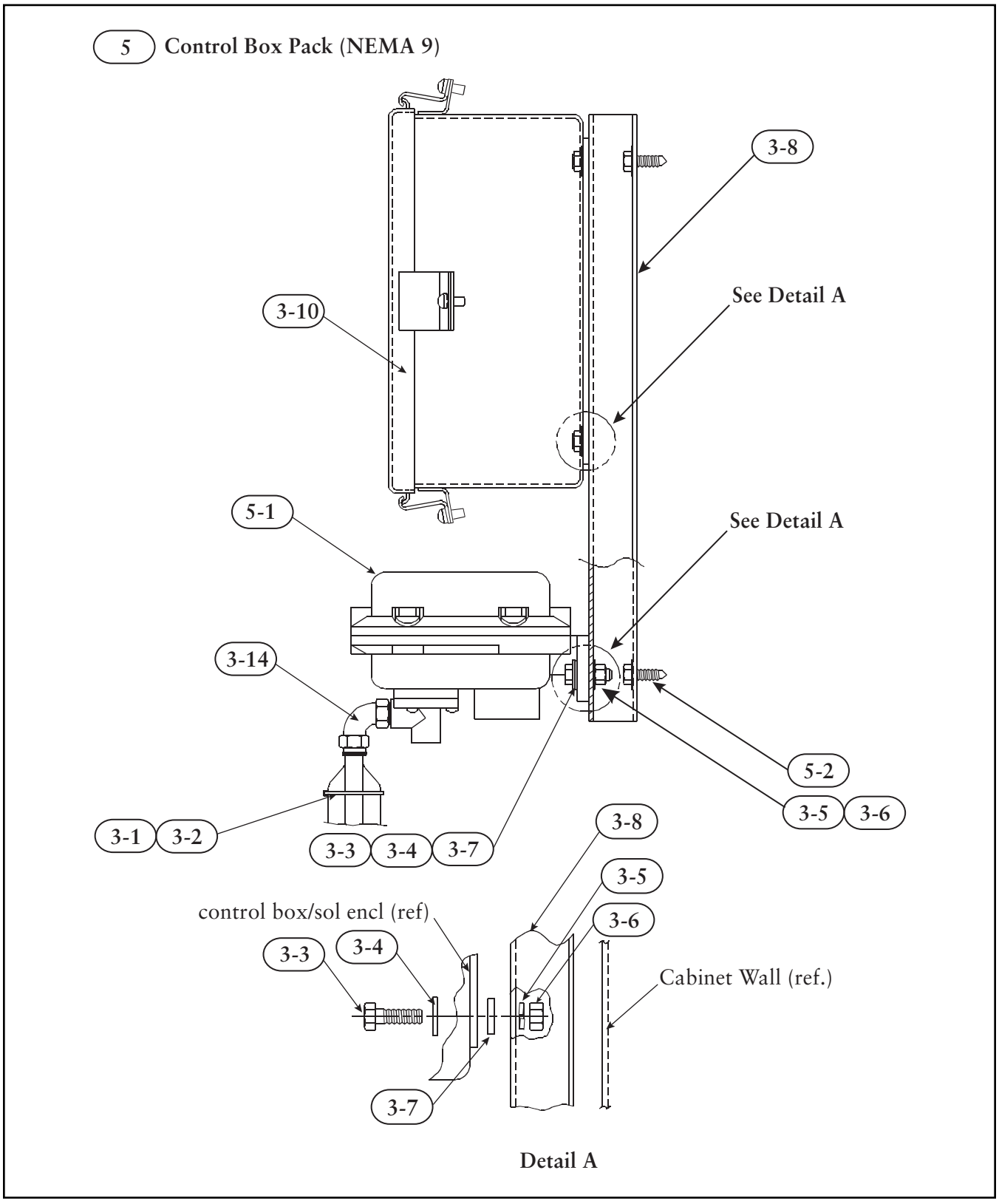
Manual Pulse Control



Parts Drawing 4, Manual Pulse Control

Item	Part Number	Description	Model
4	2SG 2159200	Manual Pulse Control	486
	2SG 2145900	Manual Pulse Control	650
4-1	6MM 2159400	Bracket, Manual Pulse	486
	6MM 2145200	Bracket, Manual Pulse	650
4-2	8PP 2140700	2-Way Manual Valve	All
4-3	8PP 0901110	Hex Nut, 3/8-16	All
4-4	8PP 0900608	Flat Washer, 3/8-in	All
4-5	8PP 1846300	Coupling, 1/8-in NPT	All
4-6	8PP 0900804	Hex Bolt, 3/8-16 x 1-in	All
4-7	8PP 2157400	Adapter, 1/8-in Male to Female	All
3-1	8PP 2146400	Tubing, Polyethylene	All
3-13	8PP 1792200	Wire Tie, Nylon	All
3-14	8PP 2146200	Elbow, 1/4-in OD Plastic x 1/8-in NPT	All

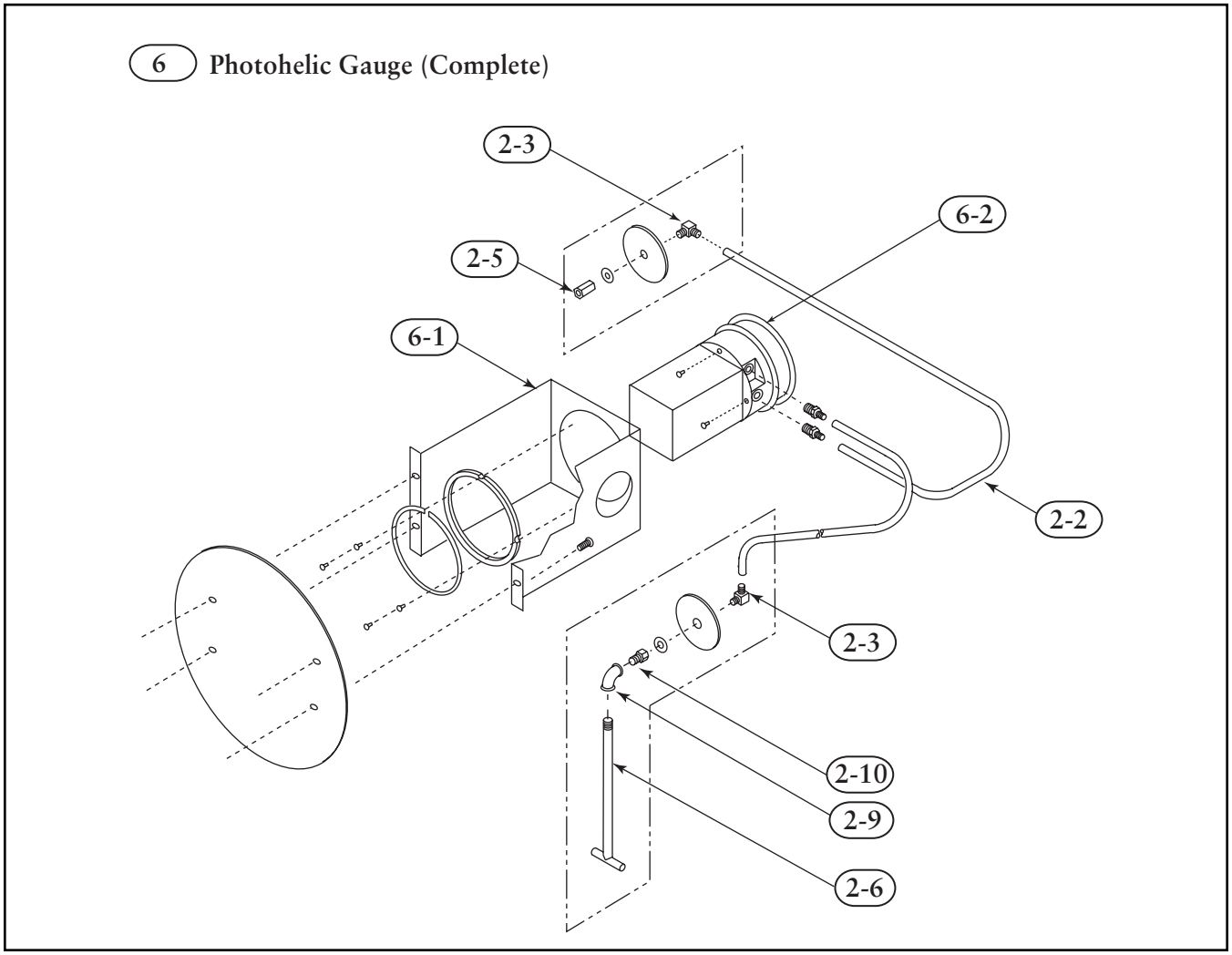
Control Box Pack (NEMA 9)



Parts Drawing 5, Control Box Pack (NEMA 9)

Item	Part Number	Description	Model
5	2SG 2346701	Control Box Assembly, NEMA 9	486
	2SG 2346702	Control Box Assembly, NEMA 9	650
5-1	8PP 4750504	Solenoid Valve Enclosure, NEMA 9	All
5-2	8PP 0903505	Screw, 1/4-14, Standard Hardware	All
3-1	8PP 2146400	Tubing, Polyethylene	All
3-2	8PP 1792200	Wire Tie, Nylon	All
3-3	8PP 0900303	Hex Bolt, 1/4-20 x 3/4-in, Grade 2	All
3-4	8PP 0900606	Flat Washer, 1/4-in, Type A	All
3-5	8PP 0900709	Lock Washer, 1/4-in	All
3-6	8PP 0901108	Hex Nut, 1/4-20 UNC	All
3-7	8PP 0078900	Rubber Grommet,	All
3-8	6MM 2324700	Control Box Mounting Panel	All
3-10	3EA 1905802	Control Box Assembly	486
	3EA 2144701	Control Box Assembly	650
3-14	8PP 2146200	Elbow 1/4-in OD Plastic x 1/8-in NPT	486

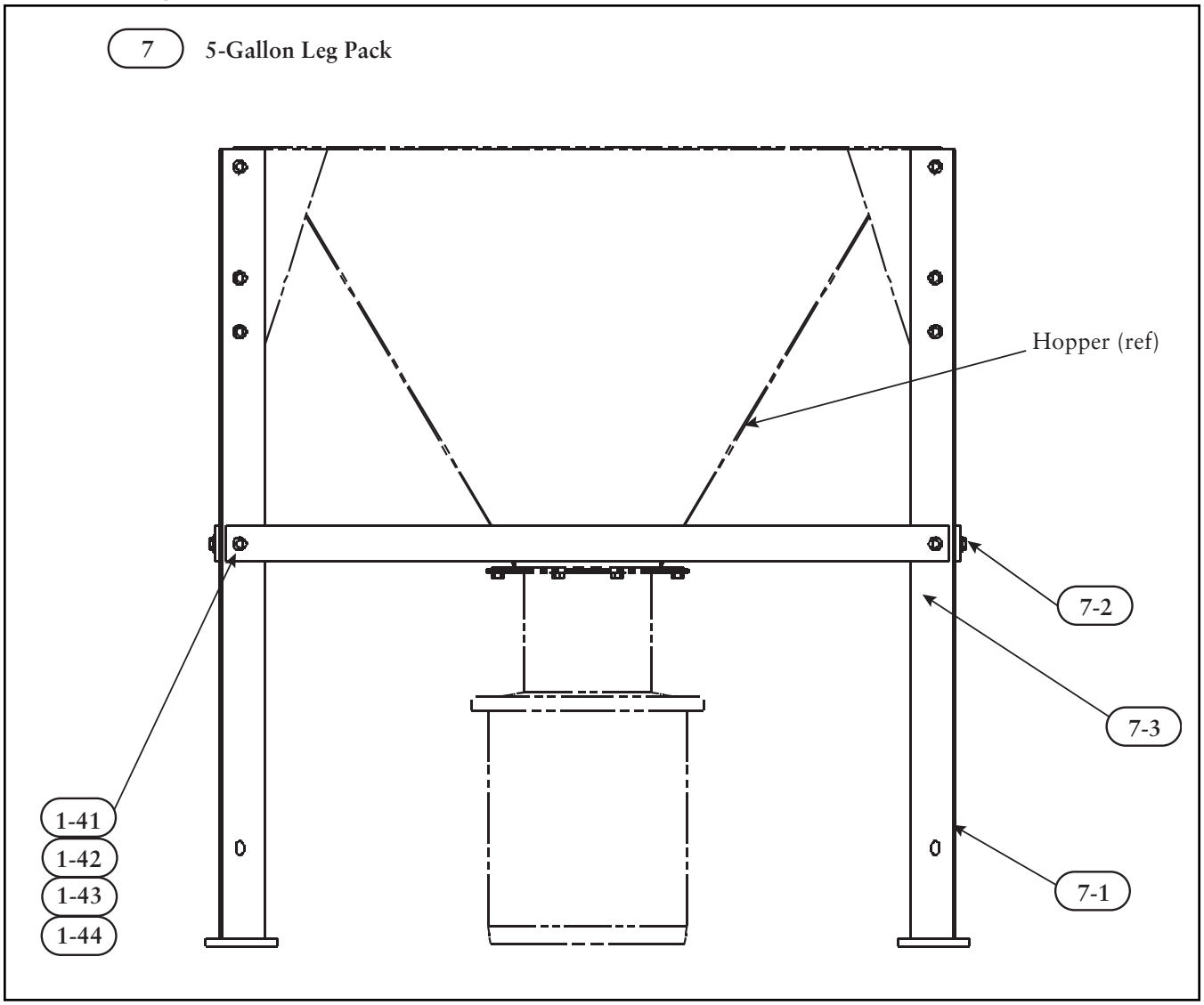
Photohelic Pack



Parts Drawing 6, Photohelic Pack

Item	Part Number	Description	Model
6	2SG 2335200	Photohelic Gauge Assembly	All
6-1	6MM 2335300	Mounting Panel	All
6-1	8PP 1939600	Photohelic Gauge	All
2-2	5PM 2334200	Plastic Tubing	All
2-3	8PP 1647700	Elbow 900 Plastic Male x 1/8-in NPT	All
2-5	8PP 1846300	Coupling, Female 1/8-in	All
2-6	8PP 2324501	Static Pressure Tee	All
2-9	8PP 2326000	Elbow, 90° Brass Female x 1/8-in NPT	All
2-10	8PP 2157400	Adapter, 1/8-in NPT x 1/8-in FPT	All

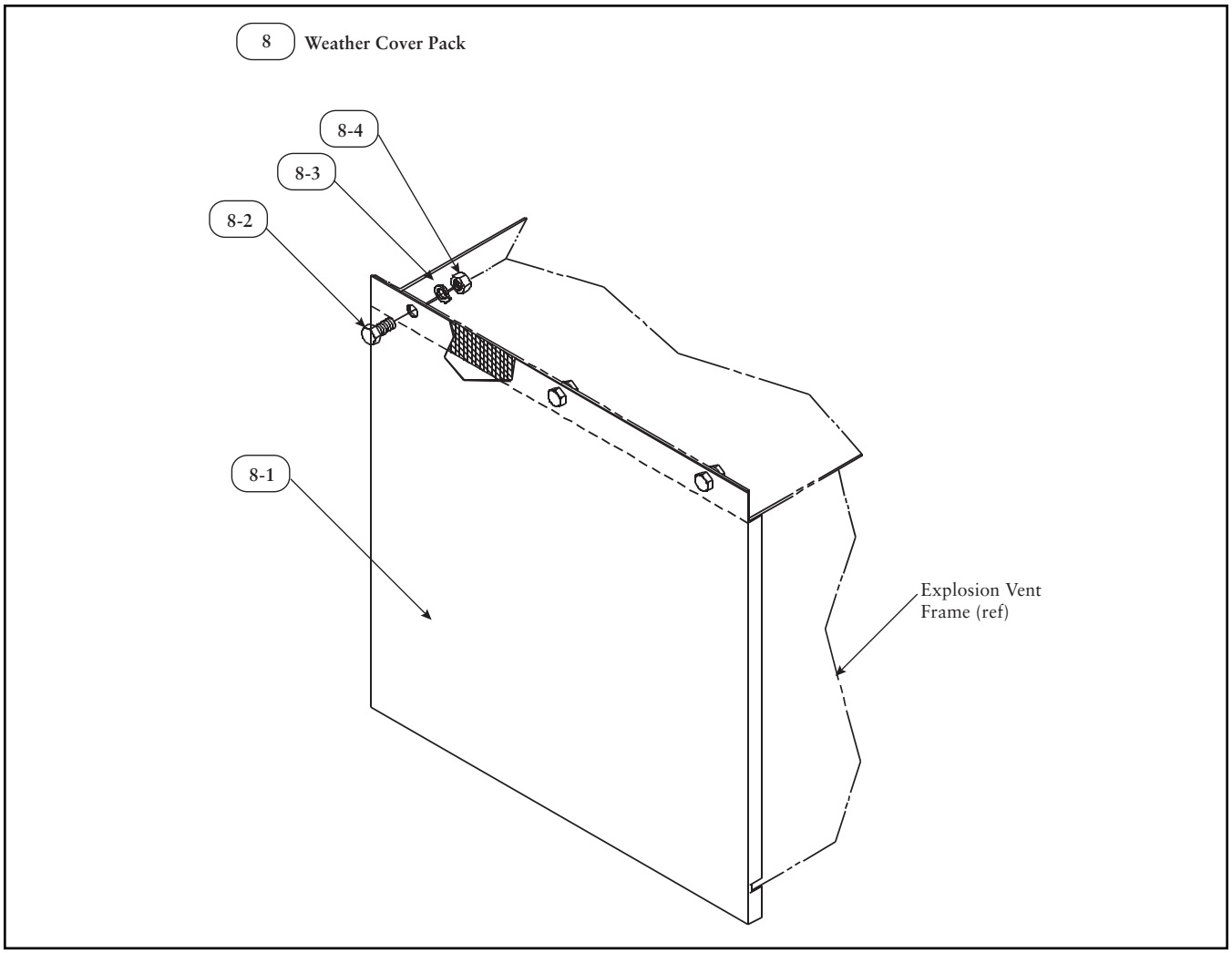
5-Gallon Leg Pack



Parts Drawing 7, 5-Gallon Leg Pack

Item	Part Number	Description	Model
7	2SG 2807700	Leg Assembly, 5-Gallon Pail	486
	2SG 2807900	Leg Assembly, 5-Gallon Pail	650
7-1	4MA 2807800	Leg Weld	486
	4MA 4684501	Leg Weld	650
7-2	6MM 4685601	Brace, Side	650
7-3	6MM 4685602	Brace, Back	650
1-41	8PP 0900805	Hex Bolt, 3/8-16 x 1 1/4-in, Grade 2	All
1-42	8PP 0900608	Flat Washer, 3/8-in	All
1-43	8PP 0900711	Lock Washer, 3/8-in	All
1-44	8PP 0901110	Hex Nut, 3/8-in UNC	All

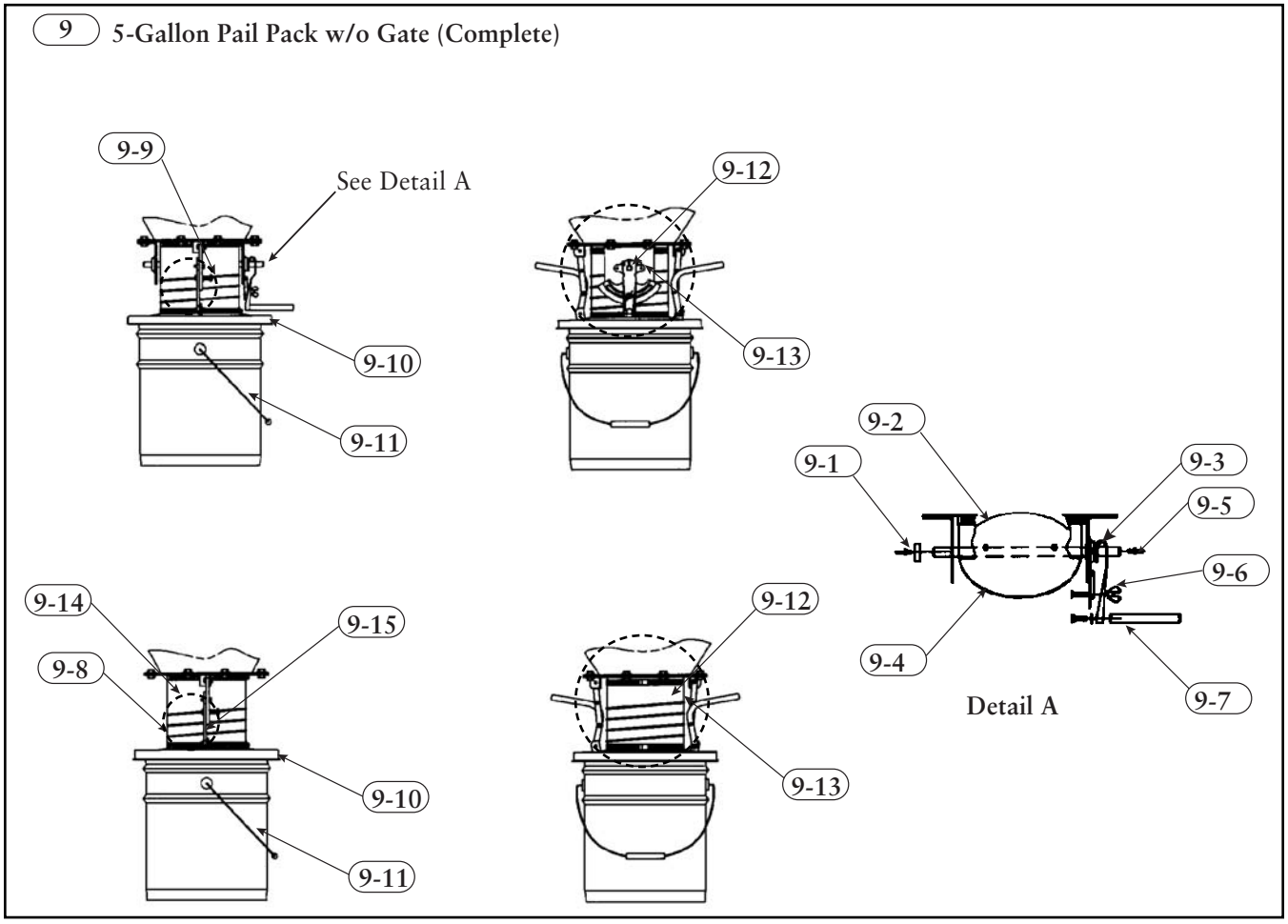
Weather Cover



Parts Drawing 8, Weather Cover Explosion Vent Pack

Item	Part Number	Description	Model
8	2SG 1989301	Weather Cover Assembly, 12 x 12	All
8-1	6MM 1987100	Weather Cover, 12 x 12	All
8-2	8PP 0901001	Hex Bolt, 5/16-18 x 1/2-in	All
8-3	8PP 0900710	Lock Washer, 5/16-in	All
8-4	8PP 0901109	Hex Nut, 5/16-18	All

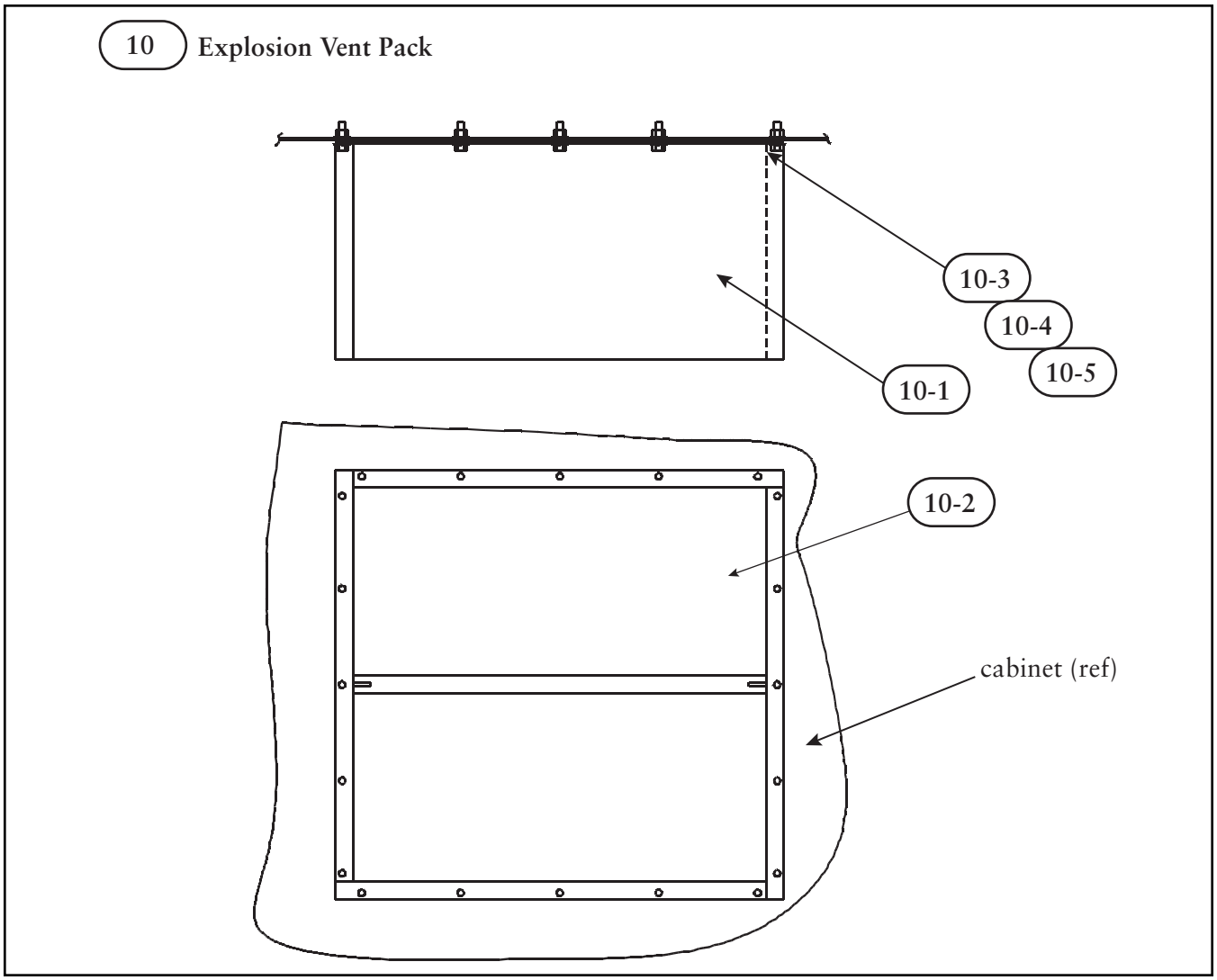
Pail Pack



Parts Drawing 9, 5-Gallon Pail Pack

Item	Part Number	Description	Model
9	2SG 2781901	5-Gallon Pail Pack without Gate	All
	2SG 2781902	5-Gallon Pail Pack with Gate	All
9-1	6MM 0011902	Bracket Support Pivot	All
9-2	4MA 2725800	Adapter Pivot Weld	All
9-3	6MM 2728200	Gate Support Plate	All
9-4	6MM 2732400	Gate Plate, 6.84-in OD	All
9-5	6MM 2728400	Gate Shaft	All
9-6	5PM 2732700	Shaft Lock	All
9-7	6MM 2728500	Handle	All
9-8	8PP 1241800	Hose Clamp, 7-in	All
9-9	5PM 2732901	Hose, 7 x 7 with Hole	All
9-10	3EA 2494900	Cover	All
9-11	8PP 2495400	Pail, 5-Gallon	All
9-12	6MM 2495700	Lift Link Bar	All
9-13	6MM 2495600	Lift Bar Handle	All
9-14	5PM 2495800	Hose, 7 x 7 without Hole	All
9-15	8PP 2499400	Spring, 1/2 x 1-in long	Al

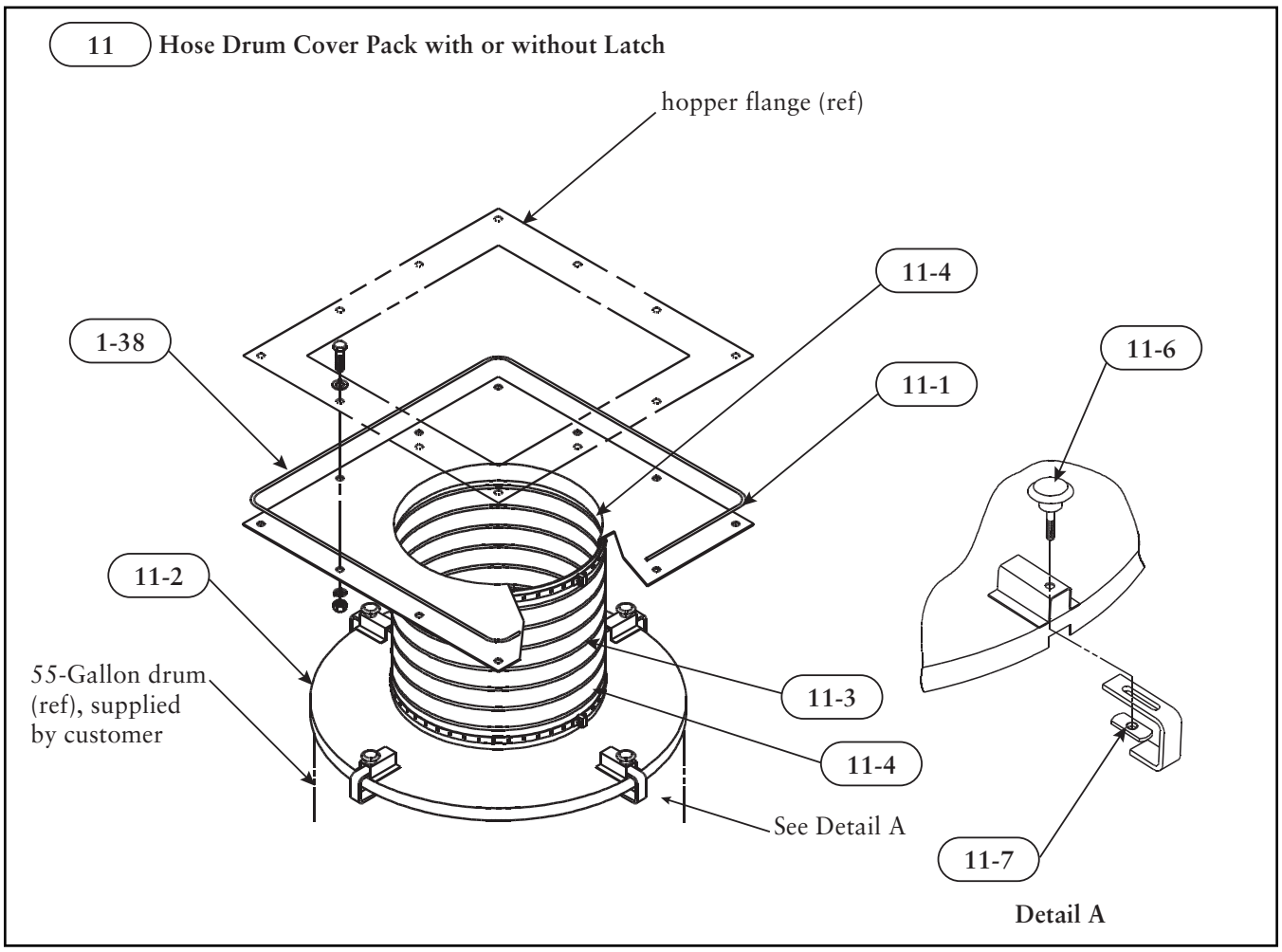
Explosion Vent



Parts Drawing 10, Explosion Vent Pack

Item	Part Number	Description	Model
10	2SG 2144300	Explosion Vent Assembly	All
10-1	3EA 1988800	Explosion Vent Assembly, 12 x 12	All
10-2	3EA 2335600	Cut-Out, 12 x12 Vent	All
10-3	8PP 0901006	Hex Bolt, 5/16-18 x 1 1/2-in	All
10-4	8PP 0900607	Flat Washer, 5/16	All
10-5	8PP 1204700	Nut, Elastic, 5/16-18	All

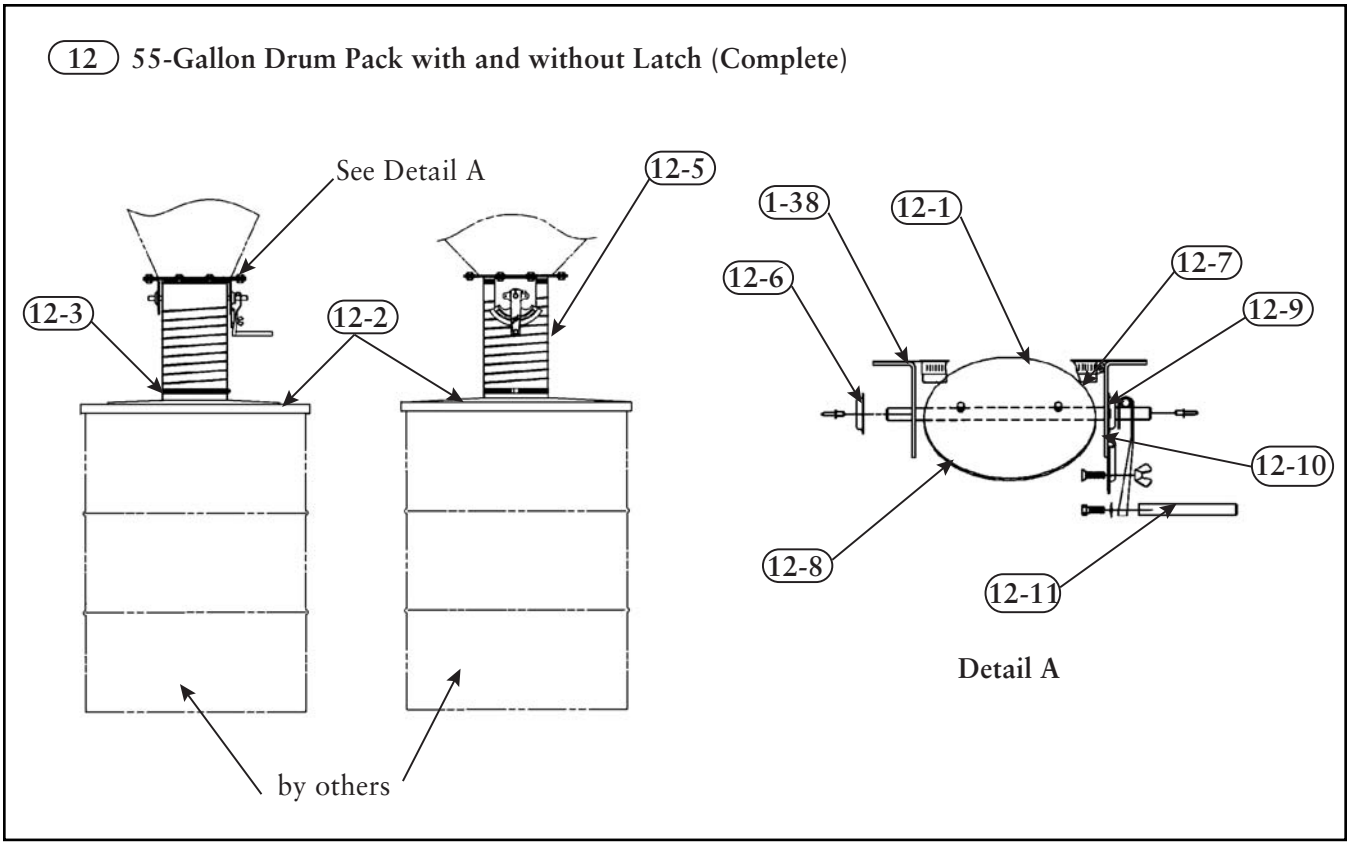
Hose Drum



Parts Drawing 11, Hose Drum Cover with or without Latch

Item	Part Number	Description	Model
11	2SG 2601401	Drum Cover Assembly without Latch	All
	2SG 2601402	Drum Cover Assembly with Latch	All
11-1	4MA 7631901	Hopper Adapter, 7-in	All
11-2	3EA 2062203	Drum Cover Assembly	All
	2SG 2360303	Latch Assembly	All
11-3	5PM 2395600	Hose, 7 x 13	All
11-4	8PP 1241800	Hose Clamp, 7-in	All
11-5	6MM 2360100	Drum Cover Latch	All
11-6	8PP 1892001	Knob, Hand, 1 1/4-in Diameter	All
11-7	8PP 0904201	Weld Nut, 1/4 - 20	All
1-38	8PP 0509700	1/4-in Diameter Rope-Type Sealant	All

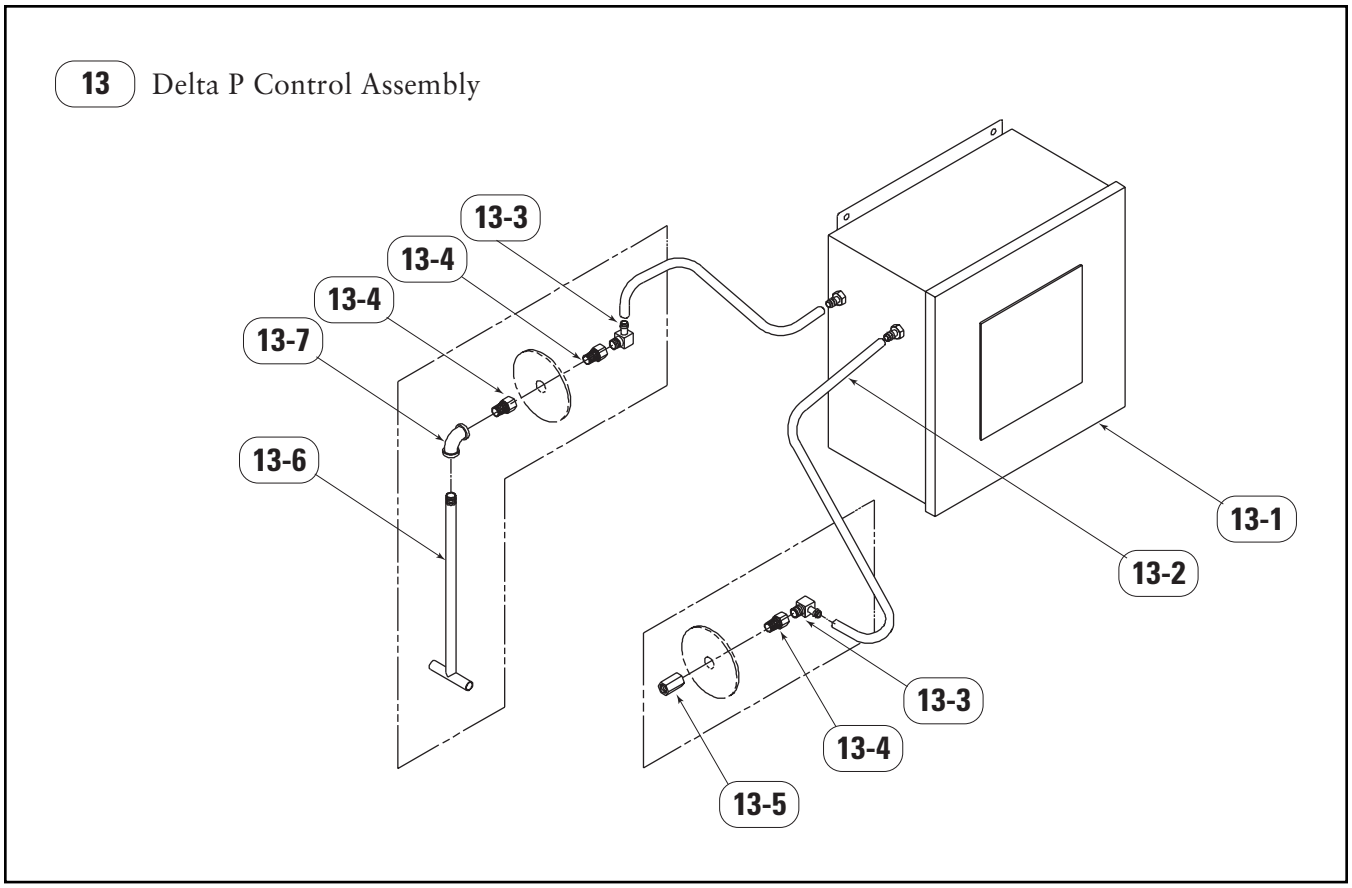
55-Gallon Drum Pack



Parts Drawing 12, 7", 55-Gallon Drum Pack with Gate

Item	Part Number	Description	Model
1-38	8PP 0509700	1/4-in Diameter Rope-Type Sealant	All
12-1	6MM 2602400	Hopper Adapter	All
12-2	3EA 2062201	Drum Cover Assembly, 7-in	All
	2SG 2360301	Drum Cover Latch Assembly, 7-in	All
12-3	8PP 1241800	Hose Clamp, 7-in	All
12-4	2SG 2733001	55-Gallon Drum Assembly with Gate without Latch	All
	2SG 2733002	55-Gallon Drum Assembly with Gate with Latch	All
12-5	5PM 2732902	Hose, 7 x 13 with Hole	All
12-6	6MM 0011901	Support Bracket, Pivot	All
12-7	6MM 2728200	Gate Support Plate	All
12-8	6MM 2732400	Gate Plate, 7.06-in OD	All
12-9	6MM 2728400	Gate Shaft	All
12-10	5PM 2732700	Shaft Lock	All
12-11	6MM 2728500	Handle	All

Delta P



Parts Drawing 13, Delta P Control

Item	Part Number	Description	Model
13	3EA 7536802	Delta P Control Assembly	All
13-1	8PP 4999202	Delta P Control in NEMA 4 Weatherproof Enclosure	All
13-2	5PM 2334200	Plastic Tubing	All
13-3	8PP 1647700	1/8-in NPT x 90° Plastic Male Elbow	All
13-4	8PP 2157400	1/8-in NPT x 1/8-in FPT Adapter	All
13-5	8PP 1846300	1/8-in NPT Female Coupling	All
13-6	8PP 2324501	Static Pressure Tee, Brass	All
13-7	8PP 2326000	1/8-in NPT x 90° Brass Female Elbow	All

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