

 YORK[®]	VARIABLE SPEED DRIVE	
REPLACEMENT PARTS	Supersedes: 160.00-RP2 (400)	Form 160.00-RP2 (320)

VSD MODELS
351, 503, 790 & 1100 HP – 60 HZ
292, 419, 658 & 900 HP – 50 HZ
STYLES A, B, C, and D



28631A

Issue Date:
March 30, 2020



IMPORTANT!

READ BEFORE PROCEEDING!

GENERAL SAFETY GUIDELINES

This equipment is a relatively complicated apparatus. During rigging, installation, operation, maintenance, or service, individuals may be exposed to certain components or conditions including, but not limited to: heavy objects, refrigerants, materials under pressure, rotating components, and both high and low voltage. Each of these items has the potential, if misused or handled improperly, to cause bodily injury or death. It is the obligation and responsibility of rigging, installation, and operating/service personnel to identify and recognize these inherent hazards, protect themselves, and proceed safely in completing their tasks. Failure to comply with any of these requirements could result in serious damage to the equipment and the property in

which it is situated, as well as severe personal injury or death to themselves and people at the site.

This document is intended for use by owner-authorized rigging, installation, and operating/service personnel. It is expected that these individuals possess independent training that will enable them to perform their assigned tasks properly and safely. It is essential that, prior to performing any task on this equipment, this individual shall have read and understood the on-product labels, this document and any referenced materials. This individual shall also be familiar with and comply with all applicable industry and governmental standards and regulations pertaining to the task in question.

SAFETY SYMBOLS

The following symbols are used in this document to alert the reader to specific situations:



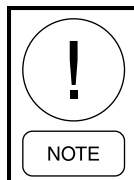
Indicates a possible hazardous situation which will result in death or serious injury if proper care is not taken.



Identifies a hazard which could lead to damage to the machine, damage to other equipment and/or environmental pollution if proper care is not taken or instructions are not followed.



Indicates a potentially hazardous situation which will result in possible injuries or damage to equipment if proper care is not taken.



Highlights additional information useful to the technician in completing the work being performed properly.



External wiring, unless specified as an optional connection in the manufacturer's product line, is not to be connected inside the control cabinet. Devices such as relays, switches, transducers and controls and any external wiring must not be installed inside the micro panel. All wiring must be in accordance with Johnson Controls' published specifications and must be performed only by a qualified electrician. Johnson Controls will NOT be responsible for damage/problems resulting from improper connections to the controls or application of improper control signals. Failure to follow this warning will void the manufacturer's warranty and cause serious damage to property or personal injury.

CHANGEABILITY OF THIS DOCUMENT

In complying with Johnson Controls' policy for continuous product improvement, the information contained in this document is subject to change without notice. Johnson Controls makes no commitment to update or provide current information automatically to the manual or product owner. Updated manuals, if applicable, can be obtained by contacting the nearest Johnson Controls Service office or accessing the Johnson Controls Knowledge Exchange website at <https://docs.johnsoncontrols.com/chillers/>.

It is the responsibility of rigging, lifting, and operating/service personnel to verify the applicability of these documents to the equipment. If there is any question regarding the applicability of these documents, rigging, lifting, and operating/service personnel should verify whether the equipment has been modified and if current literature is available from the owner of the equipment prior to performing any work on the chiller.

REVISION NOTES

Revisions made to this document are indicated in the following table. These revisions are to technical information, and any other changes in spelling, grammar, or formatting are not included.

AFFECTED PAGES	DESCRIPTION
10	Part Number updated for Pre-Mixed Coolant (013-02987-000)

HOW TO USE RENEWAL PARTS MANUALS

Johnson Controls offers an assortment of replacements parts for Johnson Controls, YORK, and DS units. Each replacement part is manufactured and fitted for a specific model. This Replacement Parts Manual is for standard Johnson Controls units. Chiller units built with special options, modifications, or conversions are not covered in this manual.

This Replacement Parts Manual provides Johnson Controls chiller replacement parts by part numbers, descriptions, quantities and drawing figures. To determine the correct replacement part, locate the item on drawing figure and refer to the parts list for the part number, description and quantity.

NOTE: Provide a unit model number, unit serial number and part number when requesting a quotation or placing an order. Failure to include this information may delay processing of your request.

Model and Serial Number Locations:

- **Unit** - Namplate on side of Control Panel
- **Compressor** - Namplate on Compressor Housing
- **VSD** - Namplate on VSD Panel

Contact the following sources to order parts.

For North America, contact the following:

- YORK Chiller Parts Center Baltimore
Telephone: +1 800 932 1701
Email: chillerparts@jci.com
- YORK Chiller Parts Center Houston
Telephone: +1 833 278 7991
Email: chillerpartsHouston@jci.com
- YORK Chiller Parts Center NOLA
Telephone: +1 833 283 3738
Email: chillerpartsNOLA@jci.com
- YORK Chiller Parts Center Toronto
Telephone: +1 905 488 3642 or +1 905 488 3641
Email: chillerpartstoronto@jci.com

For parts availability and ordering YORK HVAC Parts within North America and Europe, use the following link:

[Parts Navigator \(solutionnavigator.com\)](https://solutionnavigator.com)

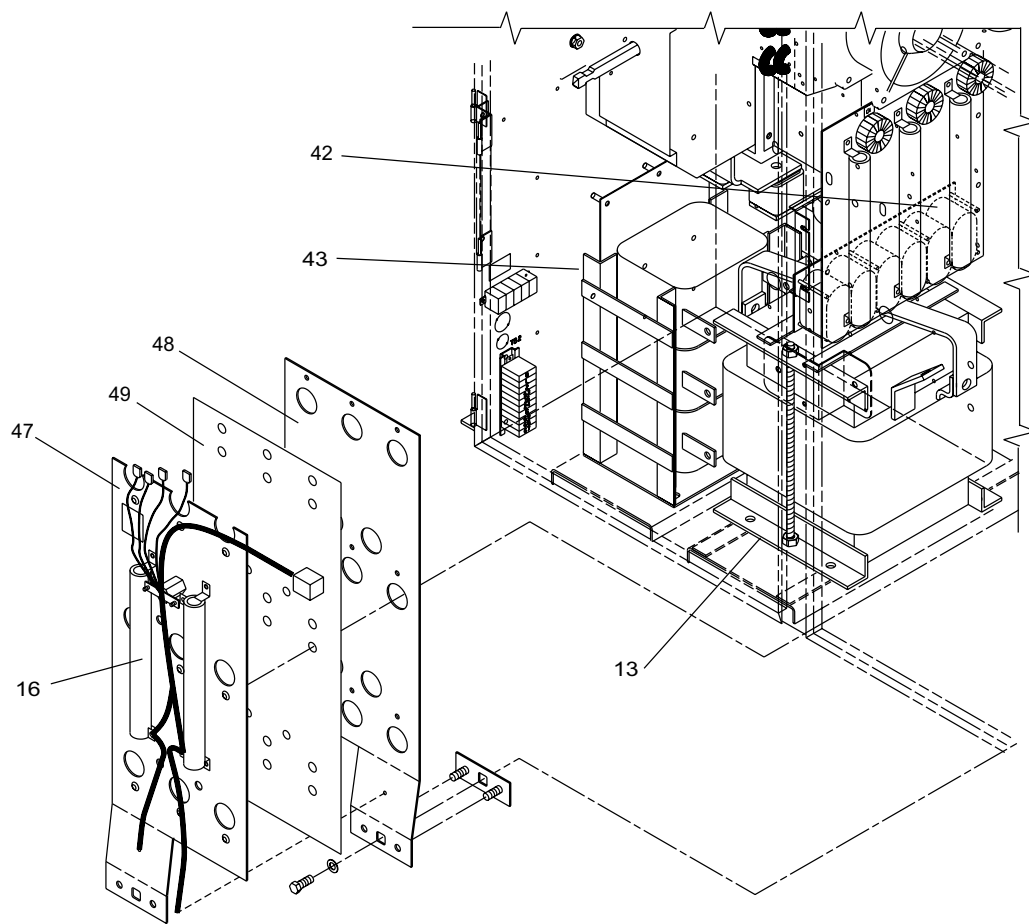
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TABLE 1 - VSD MODELS 60 HZ 351 HP, 503 HP AND 50 HZ 292 HP, 419 HP

ITEM	DESCRIPTION	PART NUMBER		FIGURE
		351 HP (292 HP)	503 HP (419 HP)	
1	Circuit Breaker, 600 Amp, 65 KA rating for Style "C" and later	024-30906-000	—	5
	Circuit Breaker, 600 Amp, with GFCI, Prior to Style "C"	024-27273-000	—	5
	Circuit Breaker, 800 Amp, with GFCI, Style "A" and later	—	024-27822-000	5
	Circuit Breaker, 800 Amp, Non-GFCI, Original Style	—	024-26959-000	5
3	Shunt Trip Mechanism, Non-GFCI Breaker	—	024-26962-000	5
4	Ground Fault Module, Non-GFCI Breaker	—	024-26961-000	2
5	Ground Fault Test Panel, Non-GFCI Breaker	—	025-31708-000	2
7	Metal Oxide Varistors (MOV) 1 MOV, 2 MOV, 3 MOV	031-01644-000	031-01644-000	3
8	Input Current Transformers (7T, 8T)	531-01672-001	531-01660-001	3
9	Free-Wheeling Diode - (1 CR)	031-01636-000	031-01636-000	5
10	SCR Trigger Board	031-01472-000	031-01472-000	3
11	Internal Cooling Coil (Quantity = 2 on 503 HP)	026-34440-000	026-34440-000	5
12	Internal Cabinet Fan	025-32557-000	025-32557-000	5
13	DC Link Inductor	025-32542-000	025-31714-000	1
14	Resistor, Fltr. Pre-Charge, 10 Ω , 375 W. (11 RES, 12 RES, 13 RES)	025-32502-000	025-32502-000	3
15	Resistor, Pre-Charge, 35 Ω , 500 W. (1 RES, 2 RES)	025-31700-000	025-31700-000	3
16	Resistor, DC Balancing, 750 Ω , 225 W. (3 RES, 4 RES)	025-31494-000	025-31494-000	1
17	VSD Logic Board	031-01433-000	031-01433-000	2
18	Coolant Pump in Coolant Header (Quantity = 2 on 503 HP)	026-33890-000	026-33890-000	4
20	Plate Heat Exchanger	026-33878-000	026-33878-000	4
21	Coolant Header 3" PVC with Fill Plug (Old Style, Small Diameter Coolant Headers are no longer available.)	371-02289-401	371-02291-401	4
22	Coolant Manifold Pipe	371-01742-437	371-01484-437	4
23	Control Transformer, 120 VAC 60 Hz, 3 KVA	025-31499-000	025-31499-000	3
24	Transformer, 24 VAC, Class 2	025-27911-000	025-27911-000	3
25	Relay, Control Fan / Pump	024-26956-000	024-26956-000	3
26	K1 Contactor, 4 Pole, 25 AMP	024-26954-000	024-26954-000	3
27	Cartridge Fuse Holder, 30 AMP Max., 600 Volt Rated	025-17407-000	025-17407-000	2
28	5 AMP Cartridge Fuse (YT Style Chillers)	025-27922-000	025-27922-000	2
	7 AMP Cartridge Fuse (YK Style Chiller)	025-25515-000	025-25515-000	2
29	10 AMP Cartridge Fuse	025-27971-000	025-27971-000	2
30	15 AMP Cartridge Fuse	025-25584-000	025-25584-000	2
31	20 AMP Cartridge Fuse	025-28967-000	025-28967-000	2
32	Input Fuses - 1FU, 2FU, 3FU 500 AMP, 700 VOLT	025-32585-000	—	5
	Input Fuses - 1FU, 2FU, 3FU 700 AMP, 700 VOLT	—	025-31495-000	5
32A	Input Rectifiers Chill Plate	371-02760-101	371-02760-101	5
33	Filter Input Fuse, 150 AMP, 500 Volt (Used on Filter Models Only)	025-32581-000	—	3
	Filter Input Fuse, 200 AMP, 500 Volt (Used on Filter Models Only)	—	025-30992-000	3
34	Input Rectifiers (1 SCR, 2 SCR, 3 SCR) each	371-02047-001	371-02047-001	5
35	VSD Output Pole Assembly	371-02052-001	371-02048-001	3
36	Snubber Resistor, 10 ohm	025-30986-000	025-30986-000	3
37	Snubber Capacitor, .047 MFD	025-30987-000	025-30987-000	3
39	Filter Logic Boards - Style "D" VSD	031-01632-031	031-01632-032	2
	Filter Logic Boards - Style "C" VSD	031-01632-021	031-01632-022	2
	Filter Logic Boards - Style "B" VSD	031-01632-011	031-01632-012	2
	Filter Logic Boards - Original (Style "A" on 503 HP only) VSD	031-01632-001	031-01632-002	2
40	BUS Isolator Board	031-01624-000	031-01624-000	3
41	Line Isolator Board - Style "D" VSD	031-02022-000	031-02022-000	3
	Line Isolator Board - Prior to Style "D" VSD	031-01625-000	031-01625-000	3
42	Filter Trap Assembly	371-01485-331	371-01485-328	1
43	3-Phase Filter Inductor	025-32583-000	025-31715-000	1
44	Filter Input Contactor	024-25585-000	024-25533-000	3
45	Electronic Current Sensor, 200 AMP	025-32582-000	—	3
	Electronic Current Sensor, 300 AMP	—	025-30994-000	3

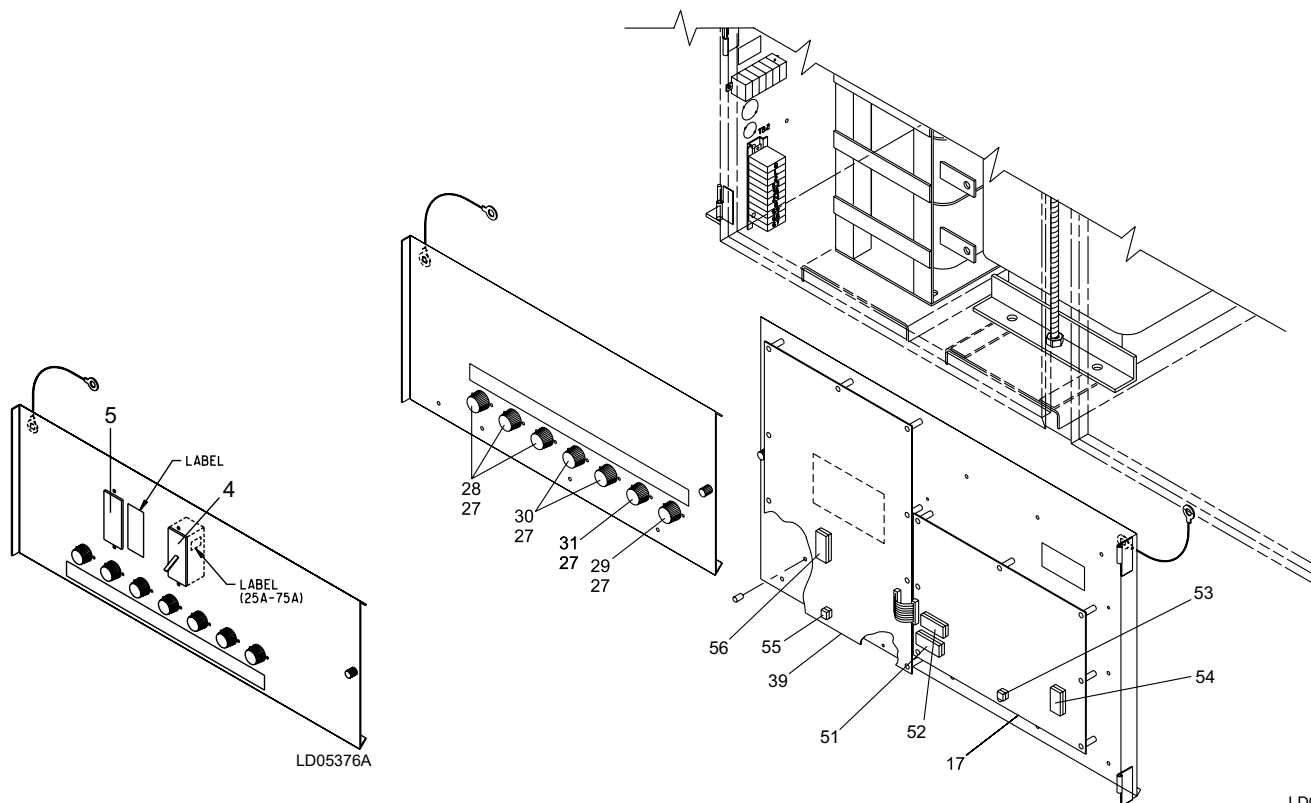
TABLE 1 - VSD MODELS 60 HZ 351 HP, 503 HP AND 50 HZ 292 HP, 419 HP (CONT'D)

ITEM	DESCRIPTION	PART NUMBER		FIGURE
		351 HP (292 HP)	503 HP (419 HP)	
46	Filter Pre-Charge Contactor	571-01743-101	571-01743-101	3
47	Negative Bus Plate	371-01484-397	371-01484-397	1
48	Positive Bus Plate	371-01484-351	371-01484-351	1
49	Insulator Sheet	071-01484-349	071-01484-349	1
50	'519' Filter Pole Assembly – Style "C" and later VSD (IEEE-519 Filter) Shown for 351 HP only, 503 HP is mounted at the top of the VSD poles	371-02746-001	371-02745-001	3
	'519' Filter Pole Assembly - Prior to Style "C" VSD (will include Filter Logic, Harness, and Software)	371-01485-339	371-01485-333	3
Not Shown	Capacitor Bank (Present on 503 HP only)	—	371-01488-101	—
Not Shown	Optional Top-Hat Conduit Entrance	371-02051-001	371-02050-001	—
IEEE-519 FILTER UPGRADE KITS (TO RETROFIT FILTER TO A NON-FILTER UNIT)				
Not Shown	Filter Upgrade (60 Hz)	371-01485-343	371-01485-337	—
Not Shown	Filter Upgrade (50 Hz)	371-02404-004 ¹	371-02404-008 ²	—
Not Shown	Harness and Software Kit, Required on Filter Upgrade of Prior to Style "D" VSD	371-02748-000	371-02748-000	—
		¹ 292 HP	² 419 HP	



LD05375

FIGURE 1 - CABINET 60 HZ 351 HP, 503 HP / 50 HZ 292 HP, 419 HP



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LD05376

FIGURE 2 - CABINET 60 HZ 351 HP, 503 HP / 50 HZ 292 HP, 419 HP

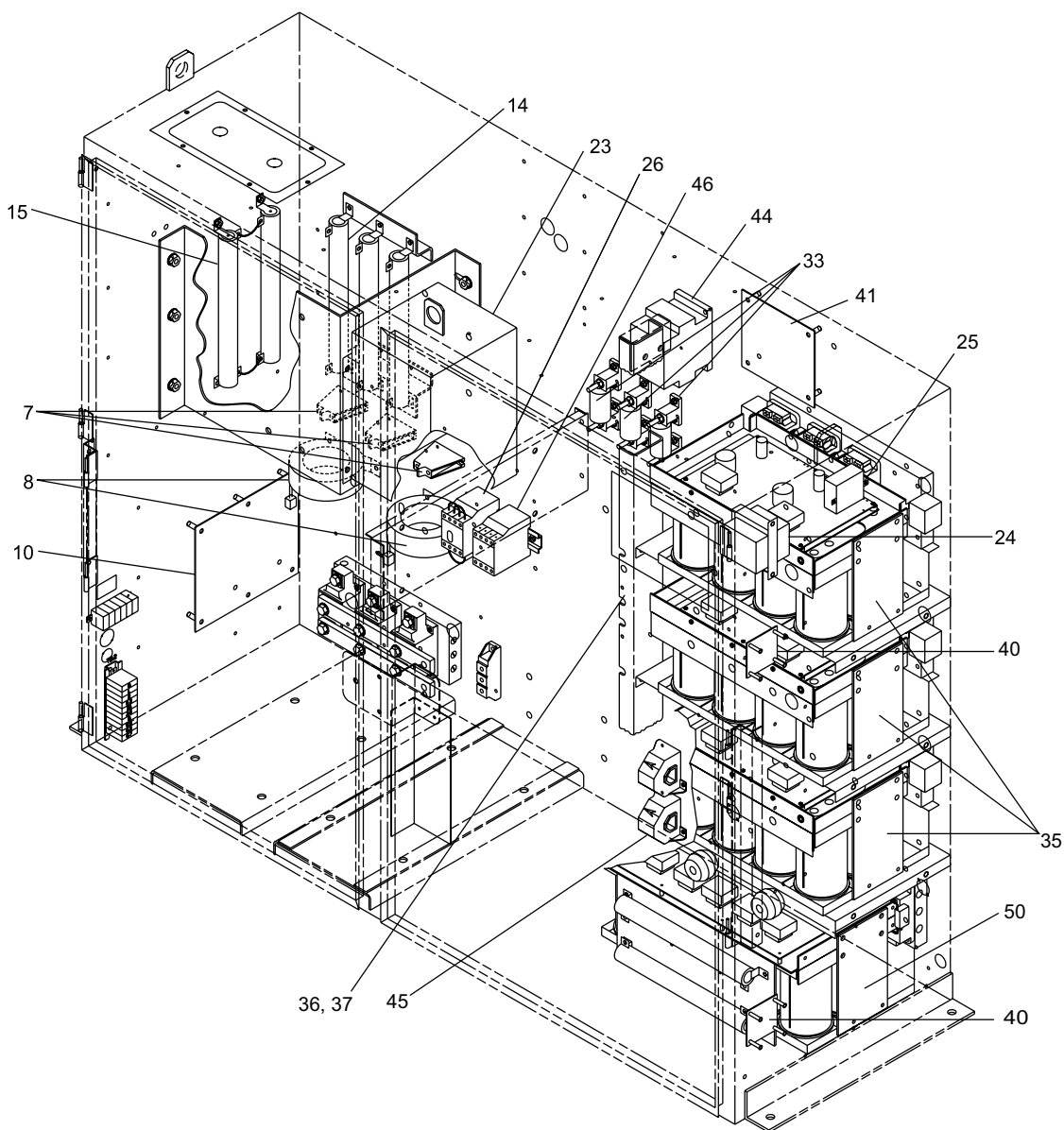
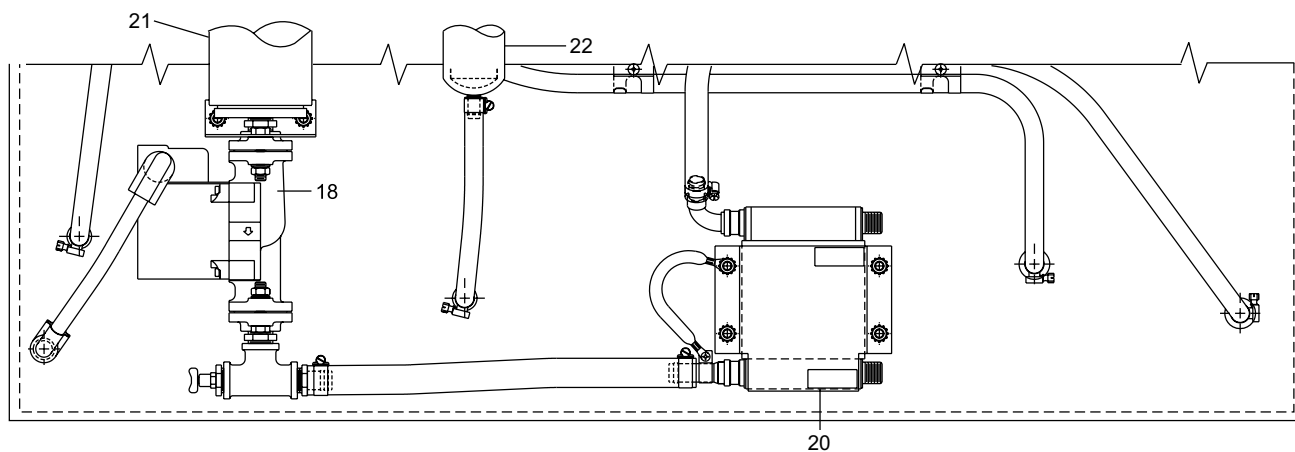
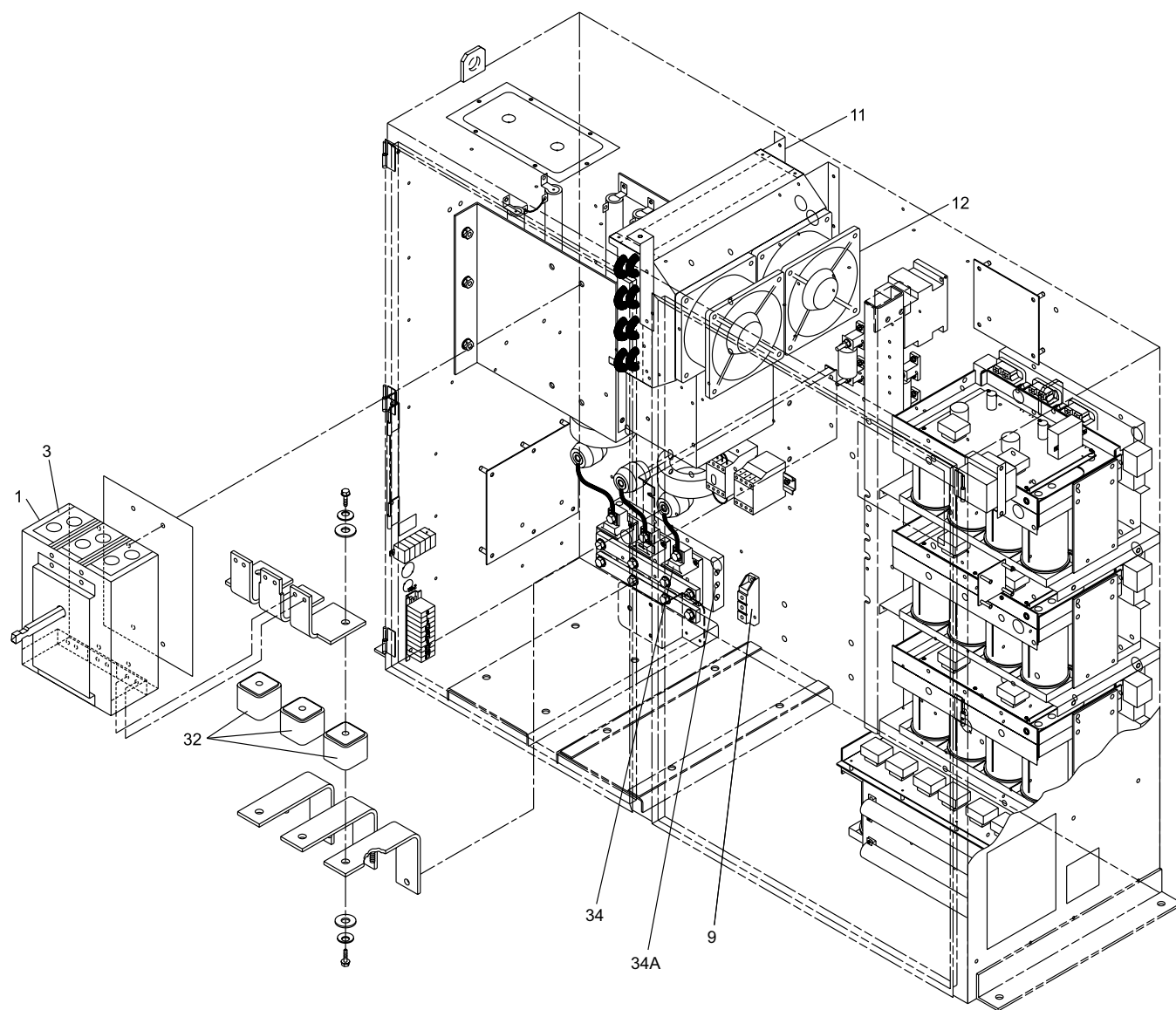


FIGURE 3 - CABINET 60 HZ 351 HP, 503 HP / 50 HZ 292 HP, 419 HP



REAR OF VSD CABINET

FIGURE 4 - BACK OF CABINET 60 HZ 351 HP, 503 HP / 50 HZ 292 HP, 419 HP



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FIGURE 5 - CABINET 60 HZ 351 HP, 503 HP / 50 HZ 292 HP, 419 HP

TABLE 2 - MISCELLANEOUS PARTS (NOTE: These Parts are Not Horsepower Dependent.)

ITEM	DESCRIPTION	PART NUMBER	FIGURE
51	U33 Battery Backed RAM for the VSD Logic Board	031-01620-000	2
Not Shown	Temperature Sensor Supplied on Pole (As Separate Item)	571-01484-211	—
Not Shown	Y-Strainer, 1.5 Inch	029-21798-000	—
Not Shown	Rubber Hose, Black, 150# DWP, 1" ID Steel Adapter 023-18069-000	028-13503-000	—
Not Shown	Rubber Hose, Red, 300# DWP, 3/4" ID	028-11959-000	—
Not Shown	3/4" NPT Steel Hose Barb – for 1" Rubber Hose	023-18033-000	—
Not Shown	Suppressor	031-00808-000	—
Not Shown	Pre-Mixed Coolant (Inhibitor) 1 gallon container 4 Gallons	013-04129-000	—
Not Shown	Snubber for Motor Terminal Box – Remote Retrofits	375-22732-000	—
Not Shown	50/60 Hz Inverter for 50 Hz VSD Units	371-02202-101	—
Not Shown	Vane Pot with Couplings	371-02012-001	—
Not Shown	Bracket for Vane Pot Mtg. to Compressor	064-48851-000	—
Not Shown	16 Conductor Ribbon Wire - VSD Logic to Filter Logic Jumper	031-01658-000	—
Not Shown	Ferrite Beads	025-32843-000	—
Not Shown	Motor Adapter Plate (4" Deep) - 405S Frame Motors	025-28400-001	—
Not Shown	Motor Adapter Plate (4" Deep) - 404R, 405R, 444S, 445S, 447S, 449S, 503S, 504S, 505S, 507S, 509S, 588S & 5011S Frame Motors	025-28400-002	—
Not Shown	Motor Adapter Plate (4" Deep) - 445R, 447R, 449R, 5008R, 5010R, 5808R & 5810R Frame Motors	025-28400-003	—
Not Shown	Motor Adapter Plate (5 3/4" Deep) - 405T Frame Motors	025-28400-004	—
Not Shown	Motor Adapter Plate (7 3/4" Deep) - 405T, 445T, 447T, 449T Frame Motors	025-28400-005	—
CLEAR PVC TUBING			
Not Shown	Clear PVC Tubing, 7/16" I.D.	028-12239-000	—
Not Shown	Clear PVC Tubing, 5/8" I.D.	028-13167-000	—
Not Shown	Clear PVC Tubing, 3/4" I.D.	028-13502-000	—
Not Shown	Hose Barb, Plastic - Threads Into Heat Sink	023-16247-000	—
MICRO-COMPUTER CONTROL PANEL PARTS FOR VSD APPLICATION (ONE LINE DISPLAY)			
Not Shown	Adaptive Capacity Control Board	031-01579-000	—
Not Shown	Membrane Keypad for Control Panel	024-26943-000	—
Not Shown	ACC Installation Kit – Mounting rails, ribbon cables, hardware. Does not include ACC Board. (YT)	375-22734-000	—
Not Shown	ACC Installation Kit – Mounting rails, ribbon cables, hardware. Does not include ACC Board. (YK)	375-22733-000	—
Not Shown	Replacement Ribbon Cable – Micro Board to ACC (Quant. = 1)	031-01322-000	—
Not Shown	Condenser Transducer for R-11, R-123	025-29148-009	—
SOFTWARE FOR THE MICRO-COMPUTER CONTROL PANEL WITH VSD			
Not Shown	U17 Micro Board EPROM (Style "B" and later VSD 60 Hz) YT chiller	031-01676-003	—
Not Shown	U17 Micro Board EPROM (Style "B" and later VSD 50 Hz) YT chiller	031-01676-002	—
Not Shown	U17 Micro Board EPROM (Prior to Style "B" VSD) YT chiller	031-01676-001	—
Not Shown	U17 Micro Board EPROM (Style "B" and later VSD 60 Hz) YK chiller	031-01675-003	—
Not Shown	U17 Micro Board EPROM (Style "B" and later VSD 50 Hz) YK chiller	031-01675-002	—
Not Shown	U17 Micro Board EPROM (Prior to Style "B" VSD) YK chiller	031-01675-001	—
Not Shown	U22 Adaptive Capacity Control Board EPROM (Style "B" and later VSD)	031-01674-002	—
Not Shown	U22 Adaptive Capacity Control Board EPROM (Prior to "B" VSD)	031-01674-001	—

TABLE 2 - MISCELLANEOUS PARTS (NOTE: These Parts are Not Horsepower Dependent.) (CONT'D)

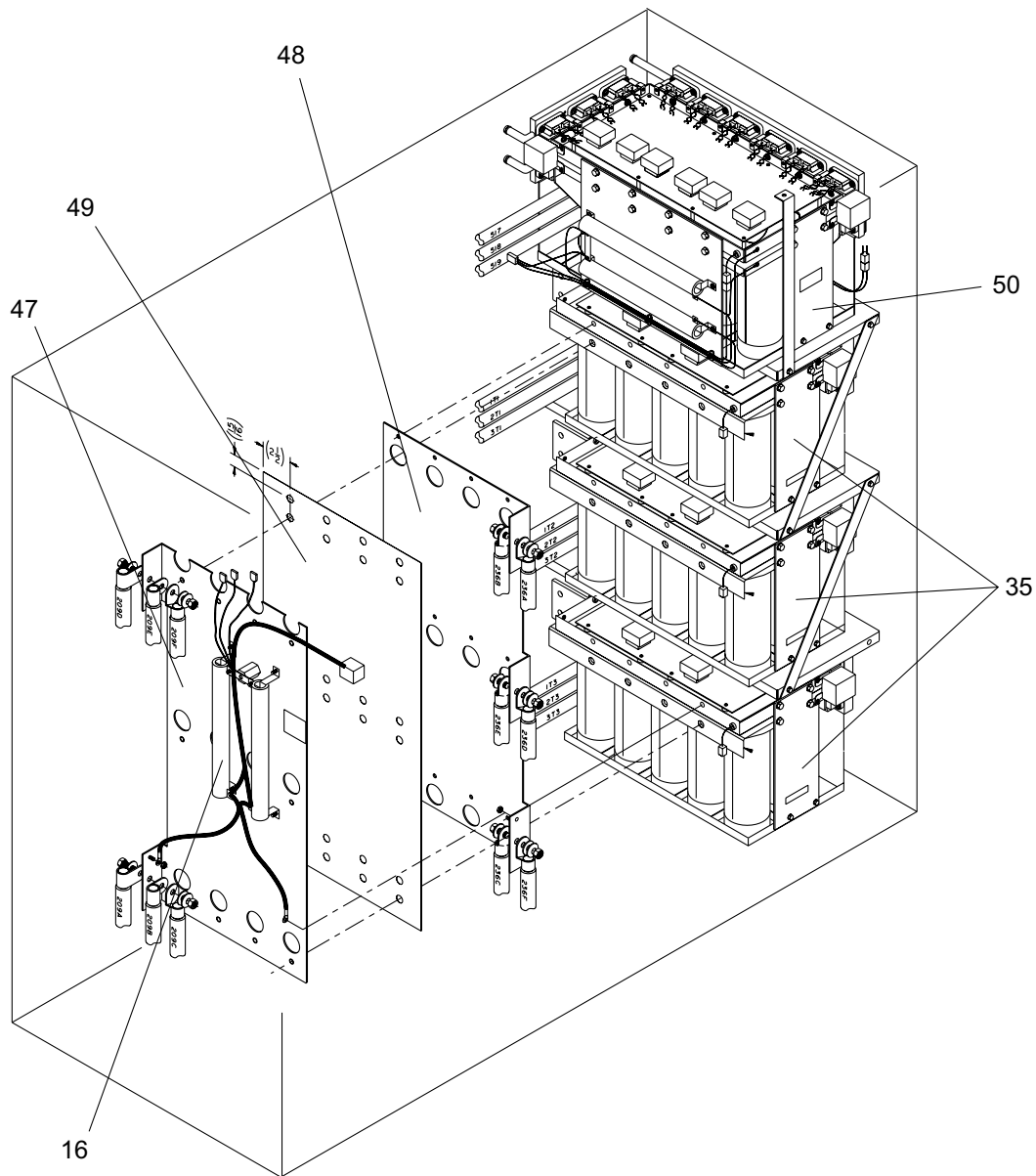
ITEM	DESCRIPTION	PART NUMBER	FIGURE
GRAPHIC CONTROL CENTER & OPTIVIEW PANEL PARTS FOR VSD APPLICATION			
Not Shown	Adaptive Capacity Control Board	031-01782-000	—
Not Shown	Membrane Keypad for Control Panel (NEMA 1)	031-01772-000	—
Not Shown	Membrane Keypad for Control Panel (NEMA 4/12 & CE)	031-02015-000	—
Not Shown	ACC Installation Kit – includes mounting hardware, cables, and ACC Board. (YT)	371-02725-001	—
Not Shown	ACC Installation Kit – includes mounting hardware, cables, and ACC Board. (YK)	371-02724-001	—
Not Shown	Replacement Ribbon Cable – Micro Board to ACC (Quant. = 1)	571-02264-411	—
SOFTWARE FOR THE GRAPHIC CONTROL CENTER & OPTIVIEW PANEL WITH VSD			
Not Shown	U46 Micro Board EPROM (YK Only 50 / 60 Hz)	031-01797-001	—
Not Shown	U46 Micro Board EPROM (YT Only 50 / 60 Hz)	031-02004-001	—
Not Shown	U16 Adaptive Capacity Control Board EPROM (Style “B” and later VSD)	031-01674-002	—
Not Shown	U16 Adaptive Capacity Control Board EPROM (Prior to Style “B” VSD)	031-01674-001	—
HARNESSES			
Not Shown	Vane Pot Wiring from Vane Pot to ACC Board	375-22735-402	—
Not Shown	VSD Cabinet to Control Panel Wiring Kit - 10 Feet	375-22736-000	—
Not Shown	VSD Cabinet to Control Panel Wiring Kit - 50 Feet	375-22737-000	—
SOFTWARE FOR ALL HP SIZES			
52	U34 VSD Logic Board EPROM (Style “D” VSD 50Hz)	031-01617-004	2
	U34 VSD Logic Board EPROM (Style “D” VSD 60Hz)	031-01617-005	2
	U34 VSD Logic Board EPROM (Style “B” & “C” VSD 50Hz)	031-01617-002	2
	U34 VSD Logic Board EPROM (Style “B” & “C” VSD 60Hz)	031-01617-003	2
	U34 VSD Logic Board EPROM (Prior to Style “B” VSD 60Hz)	031-01617-001	2
53	U40 VSD Logic Board Serial PROM (Style Original & “A” – “D”)	031-01619-001	2
54	U45 VSD Logic Board EPROM (Style Original & “A” – “D” 60 Hz)	031-01618-001	2
	U45 VSD Logic Board EPROM (Style Original & “A” – “D” 50 Hz)	031-01618-002	2
55	U26 IEEE 519 Filter Logic Board Serial PROM (Style “B” and later VSD)	031-01680-002	2
	U26 IEEE 519 Filter Logic Board Serial PROM (Prior to Style “B” VSD)	031-01680-001	2
56	U42 IEEE 519 Filter Logic Board EPROM (Style “D” VSD 50Hz)	031-01633-004	2
	U42 IEEE 519 Filter Logic Board EPROM (Style “D” VSD 60Hz)	031-01633-005	2
	U42 IEEE 519 Filter Logic Board EPROM (Style “B” & “C” VSD 50Hz)	031-01633-002	2
	U42 IEEE 519 Filter Logic Board EPROM (Style “B” & “C” VSD 60Hz)	031-01633-003	2
	U42 IEEE 519 Filter Logic Board EPROM (Prior to Style “B” VSD 60Hz)	031-01633-001	2

TABLE 3 - VSD MODELS 60 HZ 790 HP, 1100 HP AND 50 HZ 658 HP, 900 HP

ITEM	DESCRIPTION	PART NUMBER		FIGURE
		790 HP (658 HP)	1100 HP (900 HP)	
1	Circuit Breaker, 1100 Amp, with GFCI	224-30463-000	—	10
	Circuit Breaker, 1200 Amp, with GFCI	—	224-30955-000	10
7	Metal Oxide Varistors (MOV) 1 MOV, 2 MOV, 3 MOV	031-01644-000	031-01644-000	8
8	Input & Output Current Transformers	531-01701-001	531-02026-001	8
9	Free-Wheeling Diode - (1 CR)	031-01636-000	031-01636-000	8
10	SCR Trigger Board	031-01472-000	031-01472-000	8
11	Internal Cooling Coil	026-34462-000	026-34461-000	10
12	Internal Cabinet Fan	025-32557-000	025-32557-000	10
13	DC Link Inductor	025-32832-000	025-34104-000	10
14	Resistor, Fltr. Pre-Charge, 10 Ω , 375 W. (11 RES, 12 RES, 13 RES)	025-32502-000	025-32502-000	8
15	Resistor, Pre-Charge, 35 Ω , 500 W. (1 RES, 2 RES)	025-31700-000	025-31700-000	8
16	Resistor, DC Balancing, 750 Ω , 225 W. (3 RES, 4 RES)	025-31494-000	025-31494-000	6
17	VSD Logic Board	031-01433-000	031-01433-000	7
18	Coolant Pump in Coolant Header	026-33890-000	026-33890-000	9
19	Coolant Pump at Heat Exchanger	026-35036-000	026-35036-000	9
20	Plate Heat Exchanger	026-34463-000	026-34463-000	9
21	Coolant Header 3" PVC with Fill Plug Older Style, Small Diameter Coolant Headers are no longer available.	371-02293-401	371-02293-401	9
23	Control Transformer, 120 VAC 60 Hz, 2 KVA	025-29627-002	025-29627-002	8
	Control Transformer, 120 VAC 50 Hz, 2 KVA	025-29627-003	—	8
24	Transformer, 24 VAC, Class 2	025-27911-000	025-27911-000	8
25	Relay, Control Fan / Pump Two relays are required for 790 HP & 1100 HP units	024-30441-000	024-30441-000	8
26	K1 Contactor, 4 Pole, 25 AMP	024-26954-000	024-26954-000	8
27	Cartridge Fuse Holder, 15 AMP Max., 480 Volt Rated (Style "C" and later 790 HP)	025-33727-000	025-33727-000	7
27A	Cartridge Fuse Holder, 30 AMP Max., 600 Volt Rated (All Fuse Holders Prior to Style "C" 790 HP noted items on Style "C" & "D" 790 HP & 1100 HP)	025-17407-000	025-17407-000	7
28	5 AMP Cartridge Fuse (YT Style Chillers) (Prior to Style "C" 790 HP)	025-27922-000	—	7
	5 AMP Cartridge Fuse (YT Style Chillers) (Style "C" and later 790 HP)	025-33722-000	025-33722-000	7
	7 AMP Cartridge Fuse (YK Style Chiller) (Prior to Style "C" 790 HP)	025-25515-000	—	7
	7 AMP Cartridge Fuse (YK Style Chiller) (Style "C" and later 790 HP)	025-33724-000	025-33724-000	7
29	7 AMP Cartridge Fuse	025-25515-000	025-25515-000	7
30	10 AMP Cartridge Fuse (Prior to Style "C" 790 HP)	025-27971-000	—	7
	10 AMP Cartridge Fuse (Style "C" and later 790 HP)	025-33725-000	025-33725-000	7
31	20 AMP Cartridge Fuse	025-28967-000	025-28967-000	7
32	Input Fuses – 1FU, 2FU, 3FU 1100 AMP, 700 VOLT	025-32914-000	—	10
	Input Fuses – 1FU, 2FU, 3FU 1600 AMP, 700 VOLT	—	025-34166-000	10

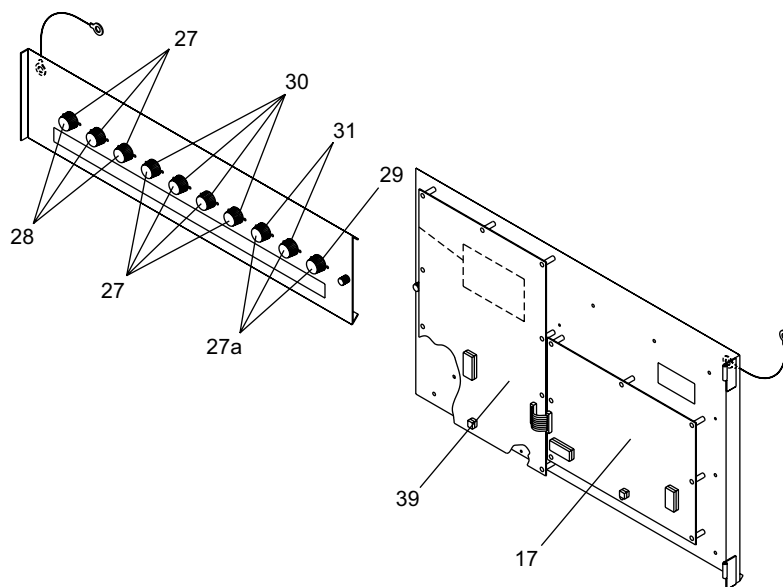
TABLE 3 - VSD MODELS 60 HZ 790 HP, 1100 HP AND 50 HZ 658 HP, 900 HP (CONT'D)

ITEM	DESCRIPTION	PART NUMBER		FIGURE
		790 HP (658 HP)	1100 HP (900 HP)	
33	Filter Input Fuse, 300 AMP, 500 Volt (Used on Filter Models Only)	025-32833-000	—	10
	Filter Input Fuse, 500 AMP, 500 Volt (Used on Filter Models Only)	—	025-34167-000	10
34	Input Rectifiers (1 SCR, 2 SCR, 3 SCR) each	371-01752-001	—	11
35	VSD Output Pole Assembly	371-01746-344	371-02513-344	6
36	Snubber Resistor, 10 ohm	025-30986-000	025-30986-000	11
37	Input SCR Replacement Kit (1 SCR, 2 SCR, 3 SCR) each	—	371-02536-001	11
38	Input Diode Replacement Kit (1D, 2D, 3D) each	—	371-02537-001	11
39	Filter Logic Boards - Style "D" VSD	031-01632-033	031-01632-034	7
	Filter Logic Boards - Style "C" VSD	031-01632-023	—	7
	Filter Logic Boards - Style "B" VSD	031-01632-013	—	7
	Filter Logic Boards – Original (Style "A" on 503 HP only) VSD	031-01632-003	—	7
40	BUS Isolator Board	031-01624-000	031-01624-000	8
41	Line Isolator Board - Prior to Style "D" VSD	031-01625-000	—	8
	Line Isolator Board - Style "D" VSD	031-02022-000	031-02022-000	8
42	Filter Trap Assembly	371-01748-328	371-02535-101	10
43	3-Phase Filter Inductor	025-32842-000	025-34103-000	10
44	Filter Input Contactor	024-26972-000	024-30954-000	8
45	Electronic Current Sensor, 1000 AMP	025-32923-000	—	8
	Electronic Current Sensor, 2000 AMP	—	025-34168-000	8
46	Filter Pre-Charge Contactor	571-01743-101	571-01743-101	8
47	Negative Bus Plate	371-01746-321	371-01746-321	6
48	Positive Bus Plate	371-01746-341	371-01746-341	6
49	Insulator Sheet	071-01746-326	071-01746-326	6
50	'519' Filter Pole Assembly - Style "C" and later (IEEE-519 Filter)	371-02744-001	371-02517-344	6
	'519' Filter Pole Assembly - Prior to Style "C" (will include Filter Logic, Harness, and Software)	371-01748-338	—	6
51	Snubber Capacitor, .047 MFD	025-30987-000	025-30987-000	11
MISCELLANEOUS				
Not Shown	Optional Top-Hat Conduit Entrance	371-01751-001	371-01751-001	—
IEEE-519 FILTER UPGRADE KITS (TO RETROFIT FILTER TO A NON-FILTER UNIT)				
Not Shown	Filter Upgrade (60 Hz)	371-01748-342	371-02517-366	—
Not Shown	Filter Upgrade (50 Hz)	371-02404-012 ³	371-02517-362 ⁴	—
Not Shown	Harness and Software Kit, Required on Filter Upgrade of Prior to Style "D"	371-02748-000	—	—
		³ 658 HP	⁴ 900 HP	



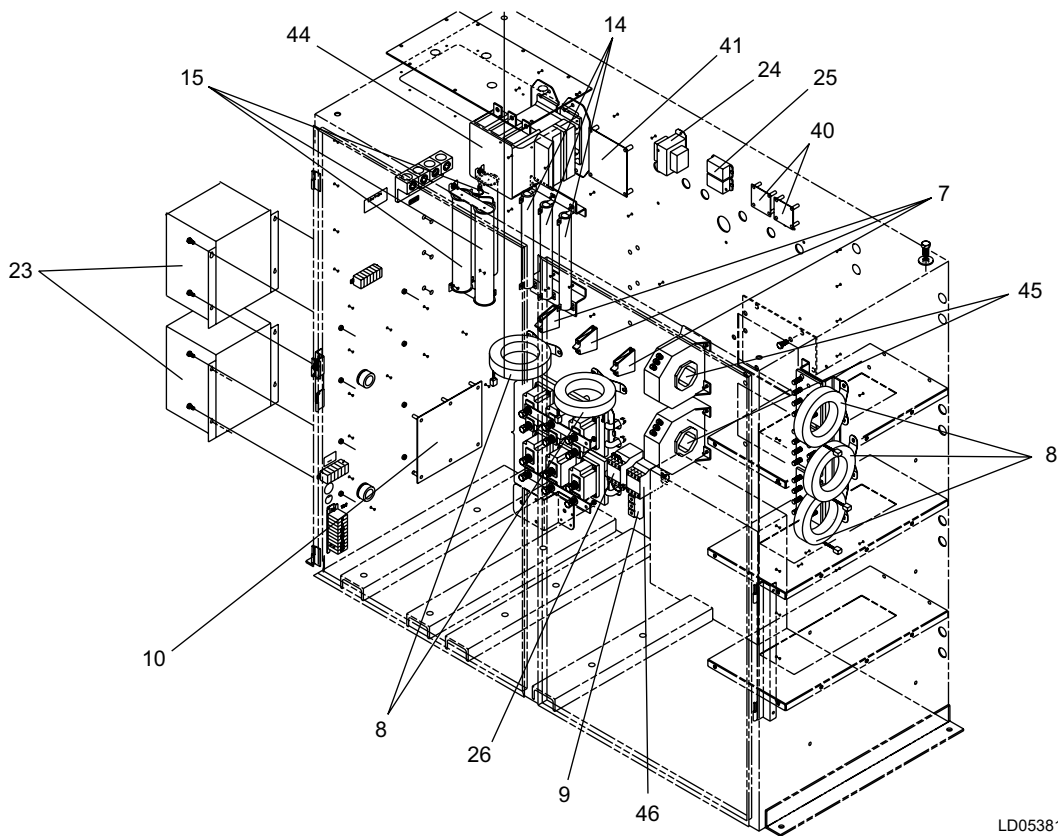
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FIGURE 6 - CABINET 60 HZ 790 HP, 1100 HP / 50 HZ 658 HP, 900 HP



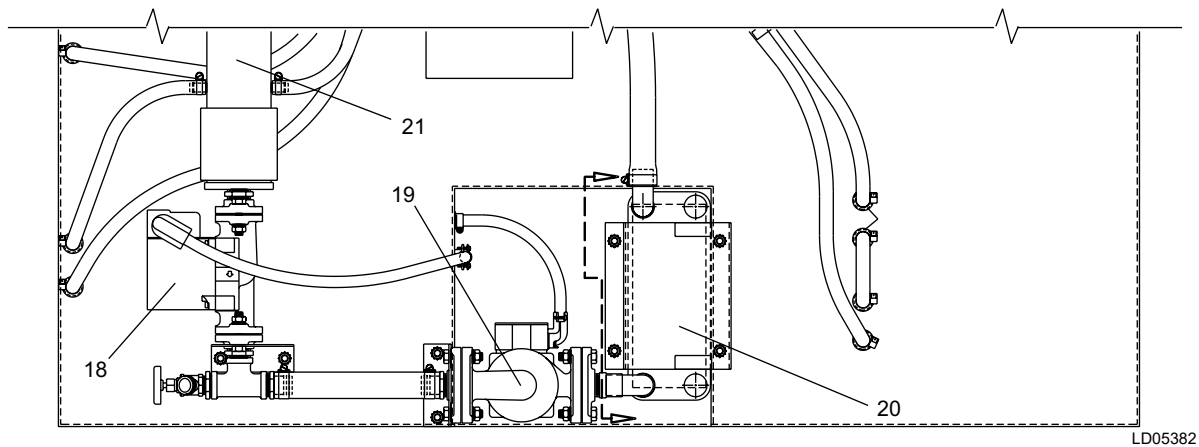
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FIGURE 7 - CABINET 60 HZ 790 HP, 1100 HP / 50 HZ 658 HP, 900 HP



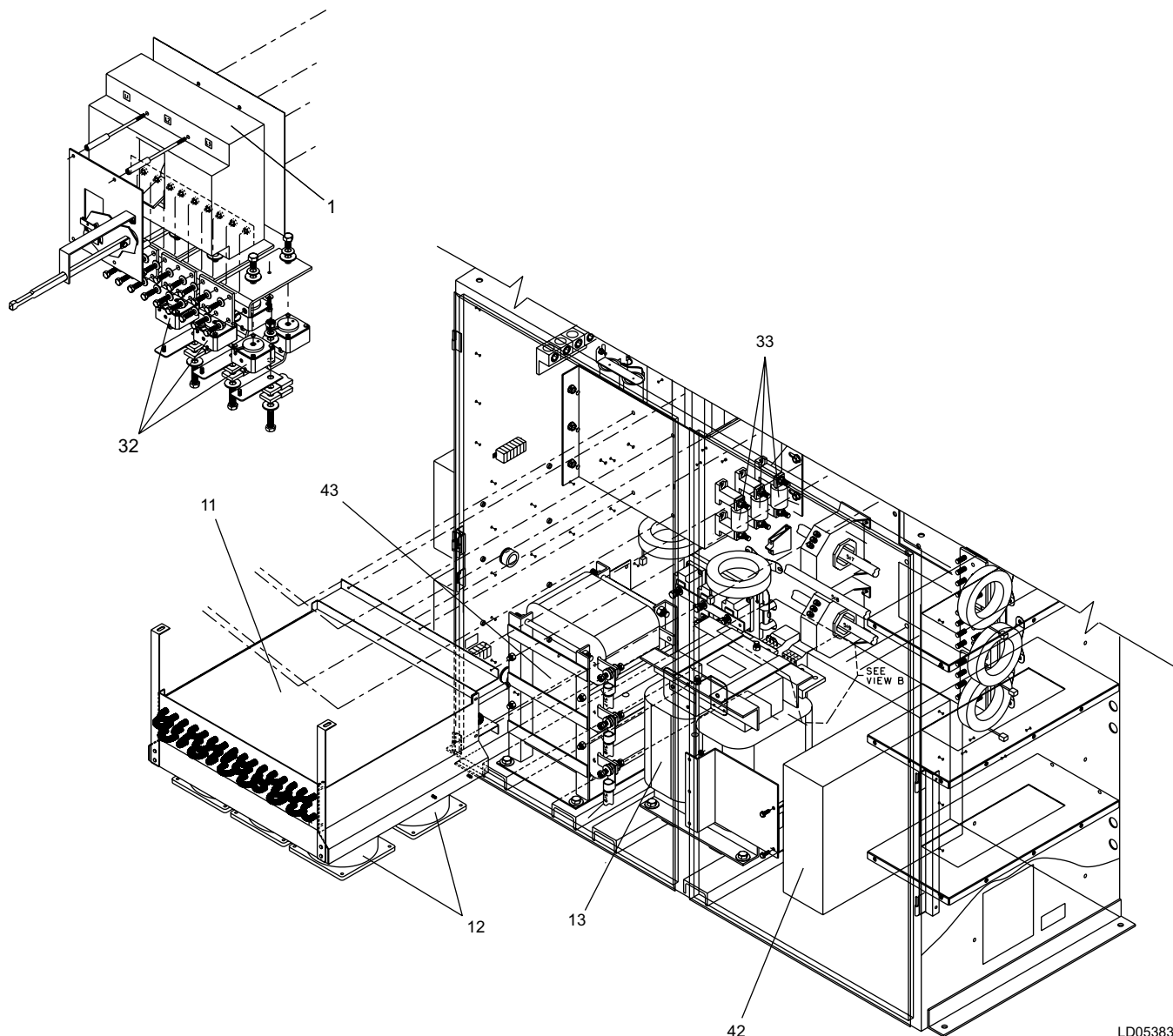
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FIGURE 8 - CABINET 60 HZ 790 HP, 1100 HP / 50 HZ 658 HP, 900 HP



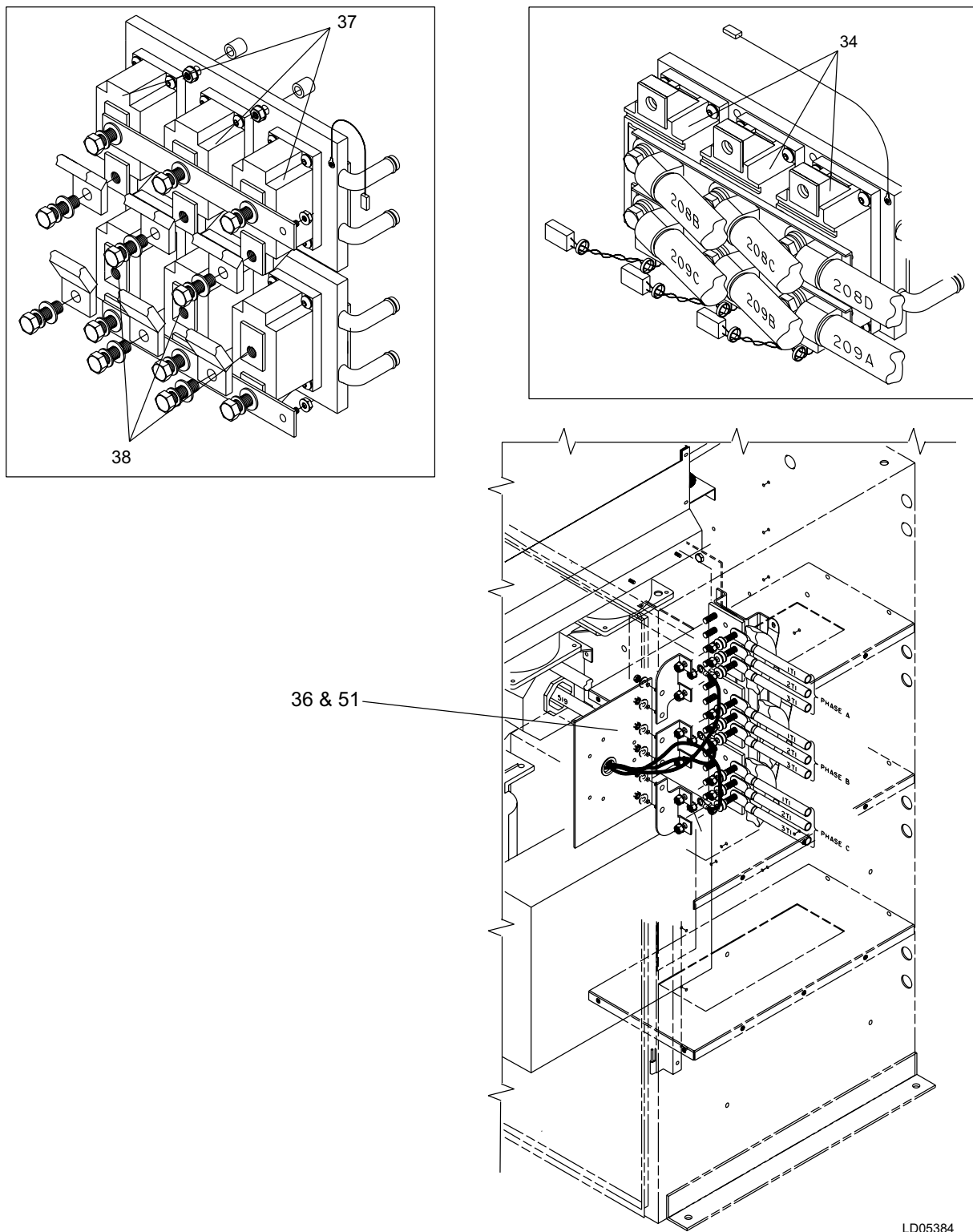
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FIGURE 9 - BACK OF CABINET 60 HZ 790 HP, 1100 HP / 50 HZ 658 HP, 900 HP



LD05383

FIGURE 10 - CABINET 60 HZ 790 HP, 1100 HP / 50 HZ 658 HP, 900 HP



LD05384

FIGURE 11 - CABINET 60 HZ 790 HP, 1100 HP / 50 HZ 658 HP, 900 HP



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Form 160.00-RP2 (320)
Issue Date: March 30, 2020
Supersedes: 160.00-RP2 (400)

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