



REPLACEMENT PARTS MANUAL

with Illustrations

**Batch Freezer
Model
B12E and B24E**

185261-01— 2/19

Replacement Parts Orders

You must have the serial number of your freezer when ordering parts — parts may differ with a particular serial number of the same model.

Parts are listed using terminology that best fits the function of the part. The illustrations in this section will help you to find the correct part number and description.

Place your parts order through your local authorized Electro Freeze Distributor.

Name: _____

Address: _____

Phone: _____

If you require further assistance, contact H.C. Duke & Son, Inc., Electro Freeze, as follows:

Phone: (309) 755-4553



(309) 755-4545

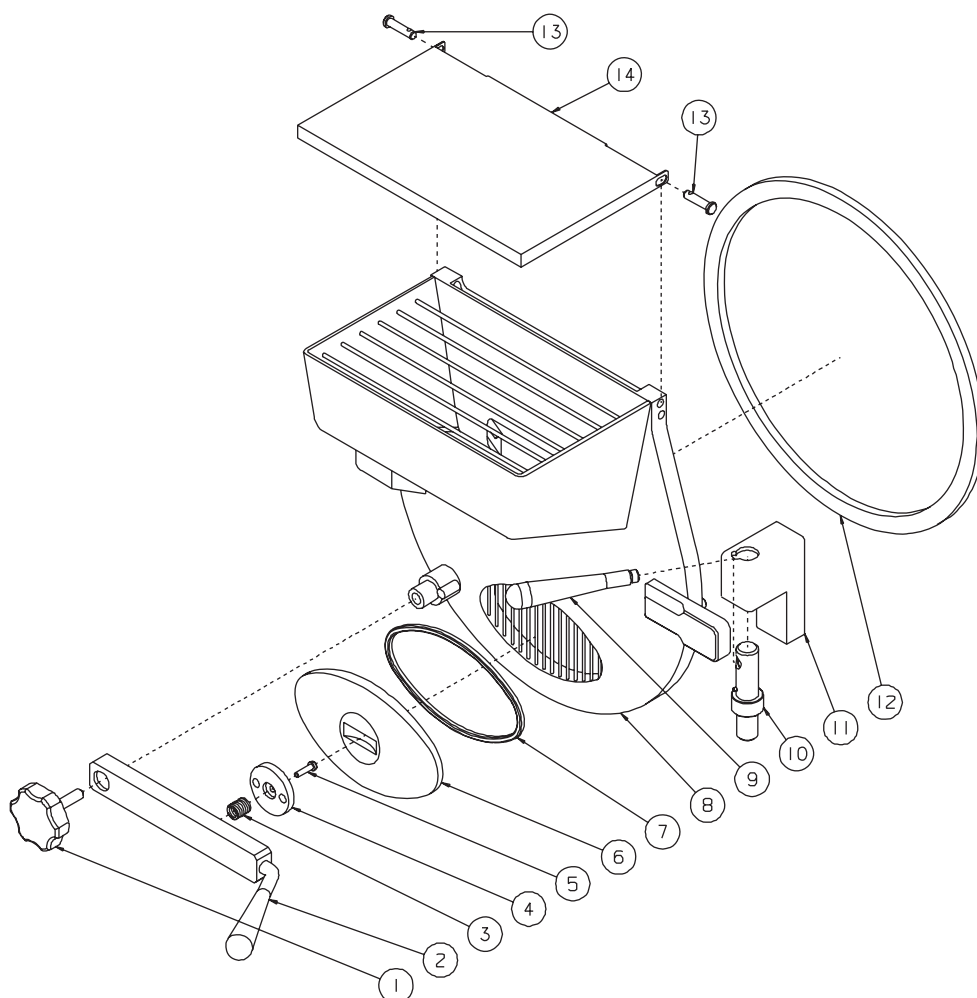
Fax: (309) 755-9858

E-mail: service@hcduke.com

Part II

Replacement Parts

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Figure 1 Door Assembly

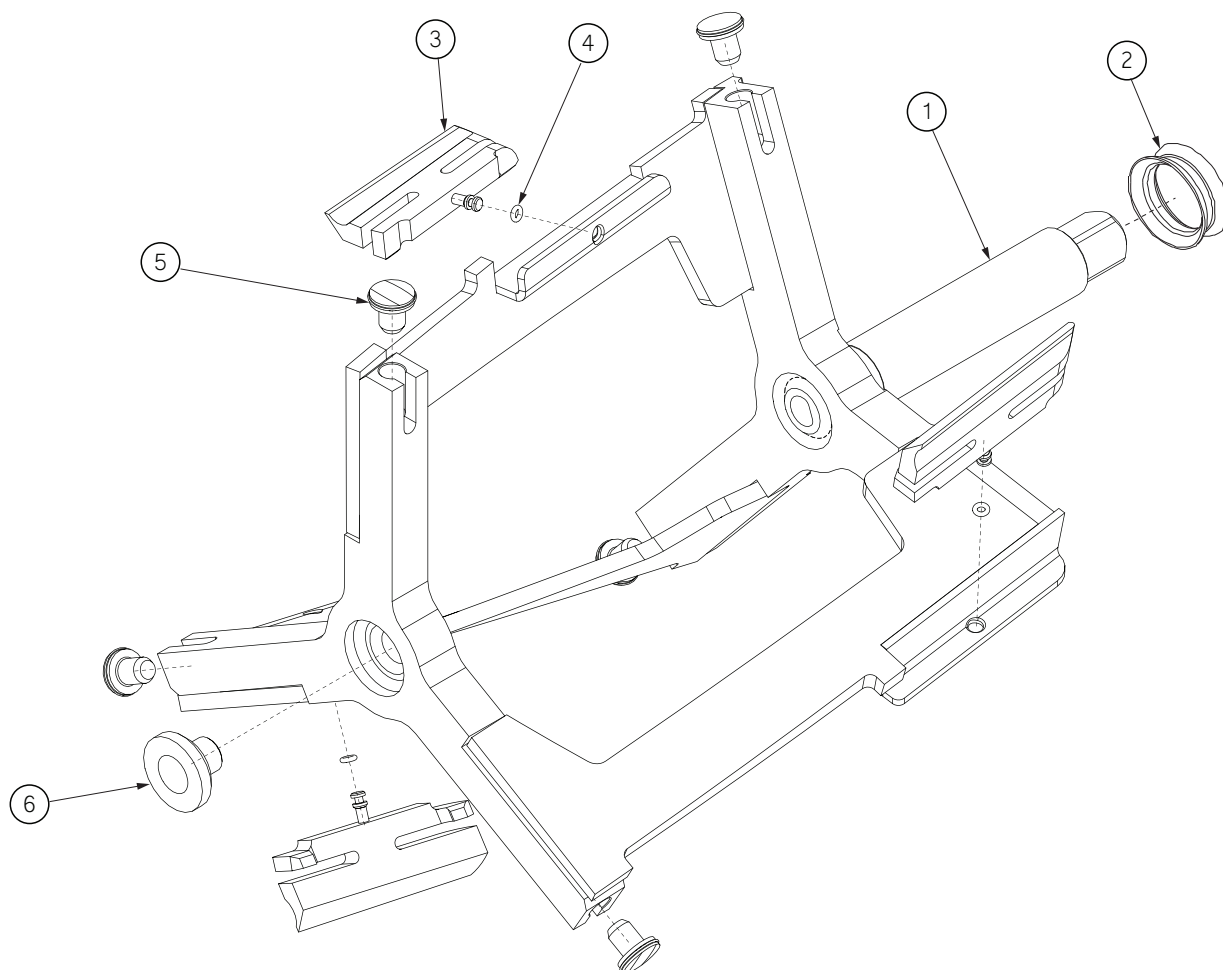
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Item	Part No.	Description
*	HC119828	Door-Assy. Complete
1	HC120040	Knob-Assy. Hand
2	HC121832	Lever-Door Front
3	HC162355	Spring-Compression SST
4	HC140480	Spacer-Door Front
5	HC159833	Screw-FHMS M4 x 20 SST
6	HC142109	Door-Dispense plastic
7	HC160664	Gasket-Dispense Door
8	HC121823	Door-Dispense EF
9	HC140209	Handle-Cam Lock
10	HC140207	Cam-Assy. Door Lock
11	HC140208	Base-Cam Lock
12	HC160661	Gasket-Door
13	HC160353	Pin-Clevis
14	HC140198	Lid-Door

*Includes items 1 through 8 and 12 through 14

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Figure 2 B12E Dasher Assembly



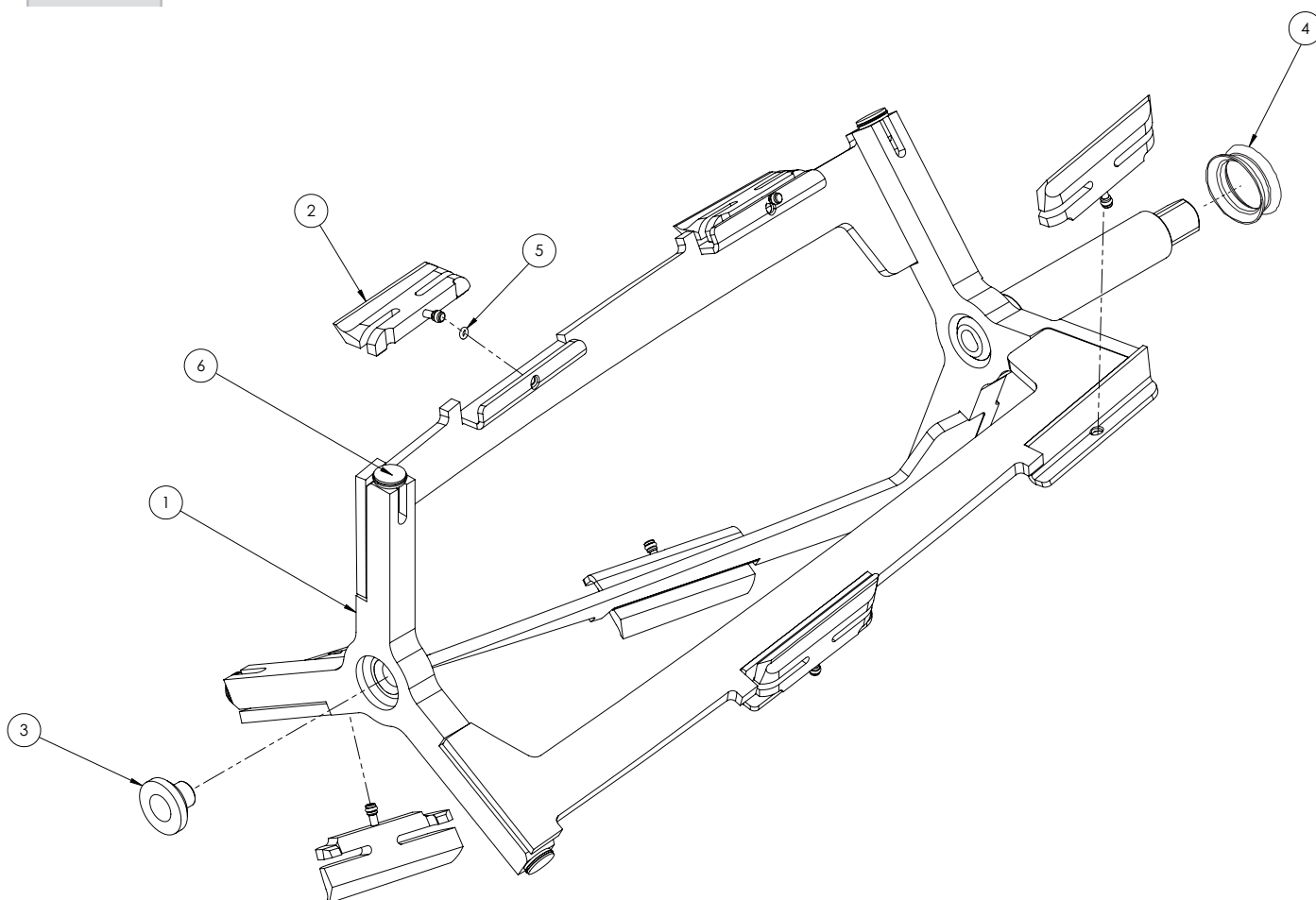
Item	Part No.	Description
1	HC121820	Dasher
2	HC160659	Seal - Drive Shaft Beater
3	HC121821	Blade - Scraper
4	HC160519*	O-ring (Scraper Blade)
5	HC142076**	Pad - Anti-friction
6	HC142183	Pad - Anti-friction

* Included with HC121821

**Included with HC121820

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Figure 3 B24E Dasher Assembly



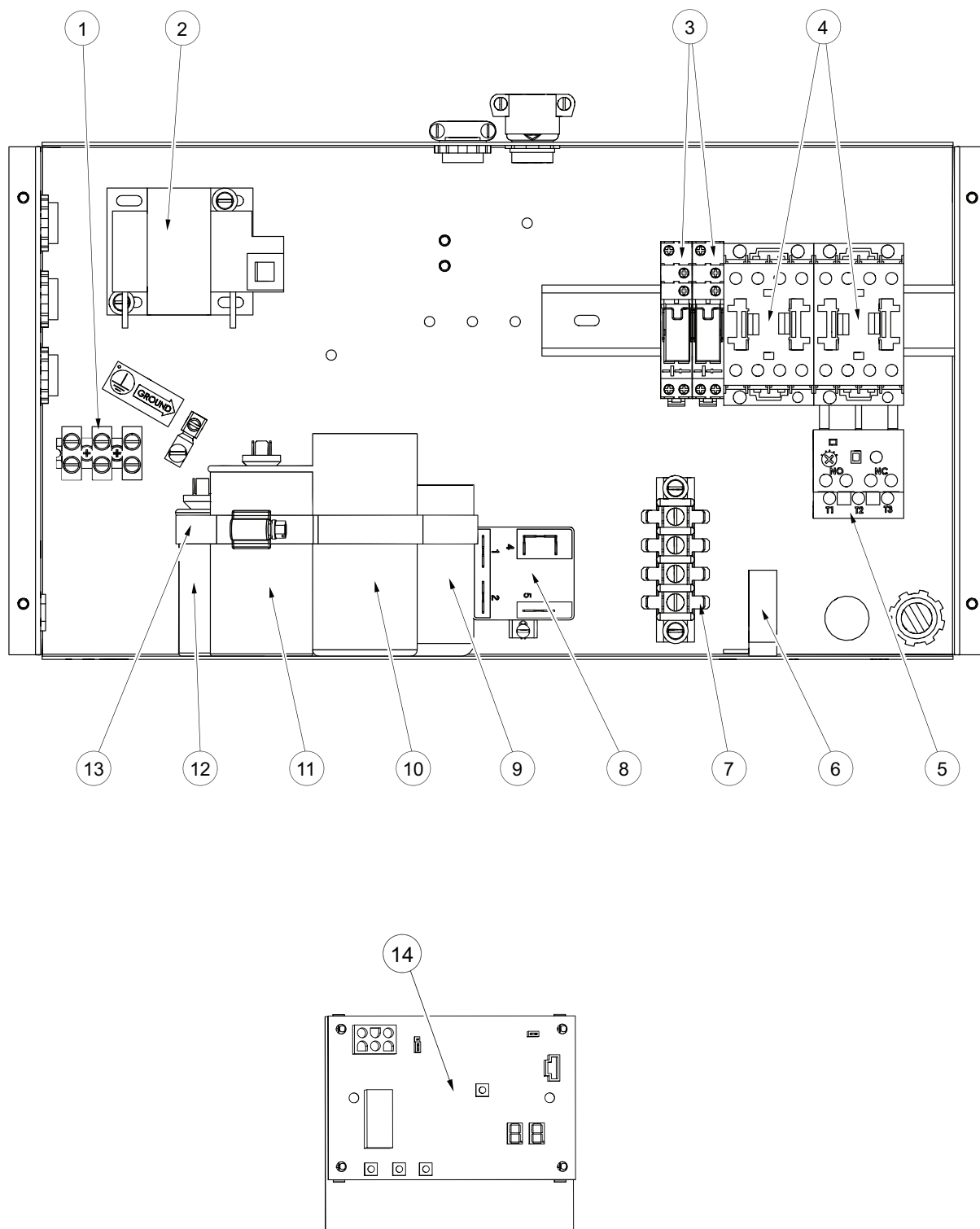
Item	Part No.	Description
1	HC121865	Dasher
2	HC121821	Blade - Scraper
3	HC142183	Pad - Anti-friction
4	HC160659	Seal - Drive Shaft Beater
5	HC160519*	O-ring (Scraper Blade)
6	HC142076**	Pad - Anti-friction

* Included with HC121821

**Included with HC121865

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Figure 4 B12E Electric Box 1PH (sheet 1 of 2)



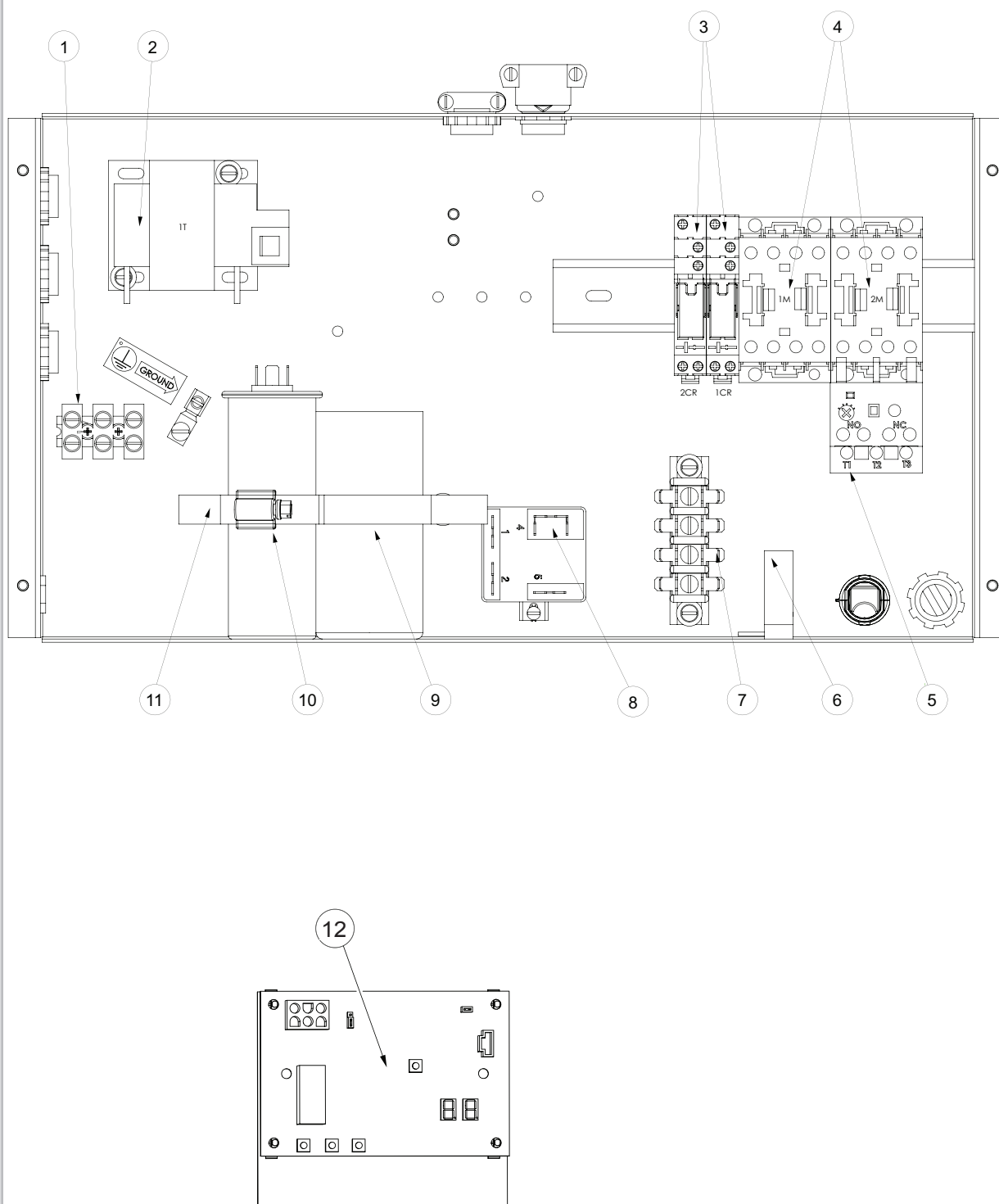
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Figure 4 B12E Electric Box 1PH (sheet 2 of 2)

Item	Part No.	Description
1	HC139055-01	Strip - Term 12P SCW 600V 65A
2	HC150276-01	Transformer - CNTRL 24V 75VA, 4 BOLT
3	HC150164	Relay - Miniature SPDT 24V Coil
4	HC150076	Contactor - 3P 25A 24V Coil BF25
5	HC150070	Relay - Overload RF38 9-14A
6	HC151789	Transformer - Current 1/1000
7	HC150795	Strip - Terminal
8	HC150029	Relay - Compressor COPZS
9	HC150294	Capacitor - Start
10	HC151445	Capacitor - Start
11	HC150403	Capacitor - Run
12	HC151440	Capacitor - Run
13	HC160731	Clamp - Hose 2-1/2" TO 5-1/2"
14	HC151770	Board - Torque Consistency Control

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Figure 5 B24E Electric Box 1PH (sheet 1 of 2)



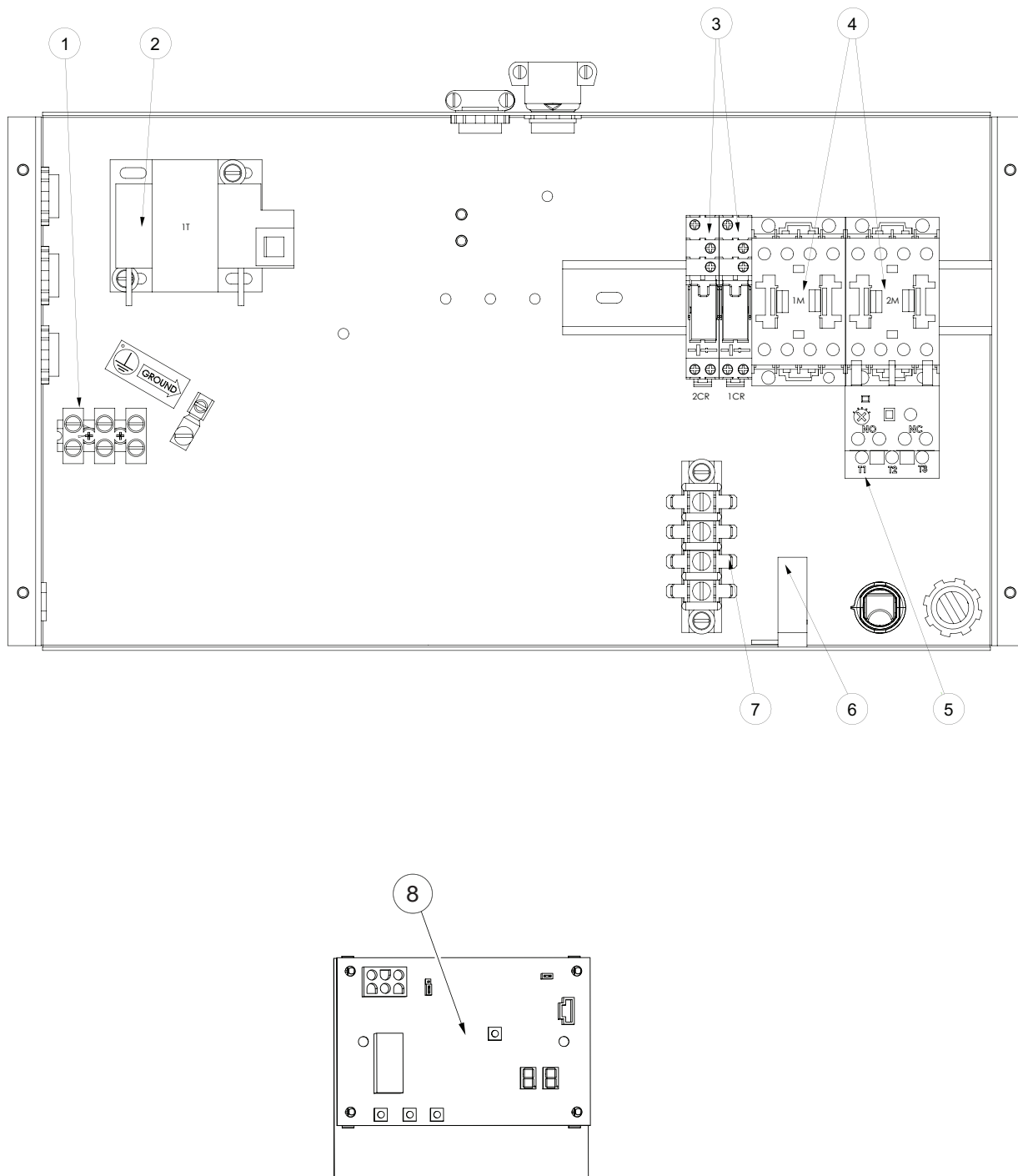
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Figure 5 B24E Electric Box 1PH (sheet 2 of 2)

Item	Part No.	Description
1	HC139055-01....	Strip - Term 12P SCW 600V 65A
2	HC150276-01....	Transformer - CNTRL 24V 75VA, 4 BOLT
3	HC150164	Relay - Miniature SPDT 24V Coil
4	HC150076	Contactor - 3P 25A 24V Coil BF25
5	HC150071	Relay - Overload RF38 13-18A
6	HC151789	Transformer - Current 1/1000
7	HC150795	Strip - Terminal
8	HC150029	Relay - Compressor COPZS
9	HC151445	Capacitor - Start
10	HC151447	Capacitor - Run
11.....	HC160731	Clamp - Hose 2-1/2" TO 5-1/2"
12	HC151771-01....	Board - Torque Consistency Control

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Figure 6 Electric Box 3PH (sheet 1 of 2)

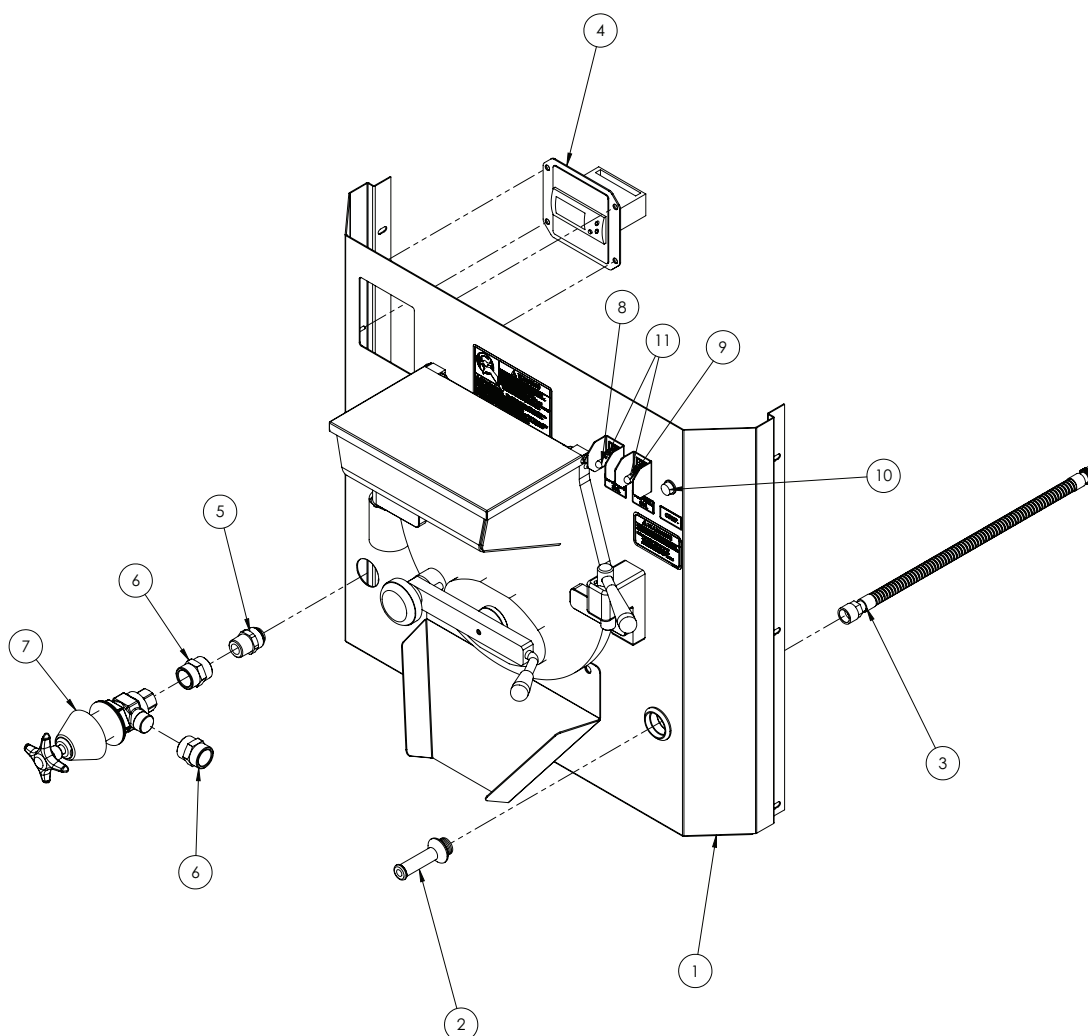


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Figure 6 Electric Box 3PH (sheet 2 of 2)

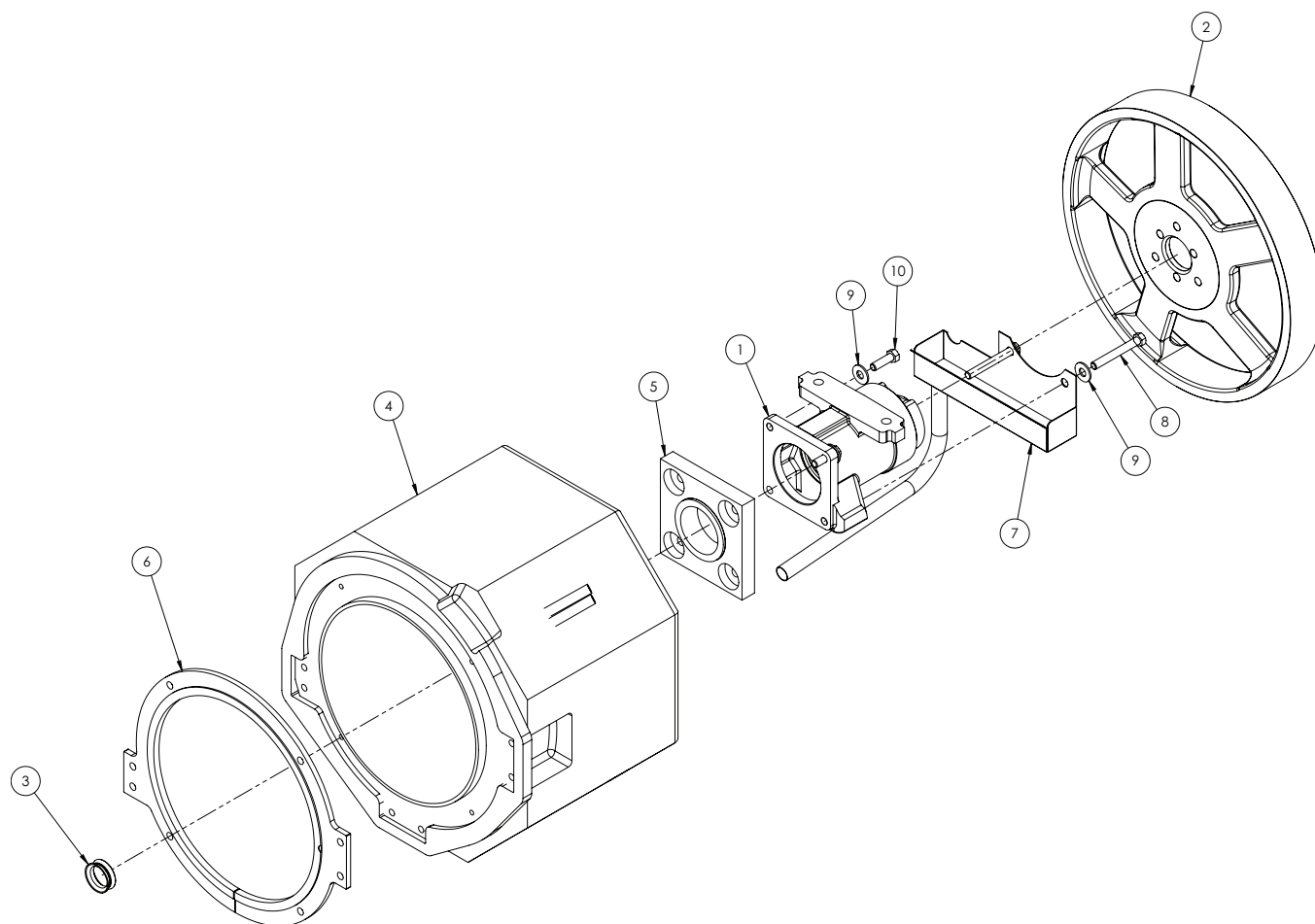
Item	Part No.	Description
1	HC139055-01....	Strip - Term 12P SCW 600V 65A
2	HC150276-01....	Transformer - CNTRL 24V 75VA, 4 Bolt
3	HC150164	Relay - Miniature SPDT 24V Coil
4	HC150076	Contactor - 3P 25A 24V Coil BF25
5	HC150069	Relay - Overload RF38 6.3-10A
6	HC151789	Transformer - Current 1/1000
7	HC150795	Strip - Terminal
8	HC151771-01....	Board - Torque Consistency Control

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Figure 7 B12E Front Panel

Item	Part No.	Description
1	HC121846	Panel - Assy Upper Front Complete
2	HC142145	Nozzle - Wash
3	HC160795	Hose - Sprayer
4	HC121869	Panel - Assy Control Complete
5	HC155635	Adapter - 12mm Hose X 1/2 BSPP
6	HC160762	Coupling - Hex 1/2 BSPP BR
7	HC160794	Valve - Water Tap
8	HC159235	Switch - Toggle SPST
9	HC150435	Switch - Toggle DPST
10	HC150550	Light - Indicator 28V Amber
11	HC150898	Boot - Toggle Switch

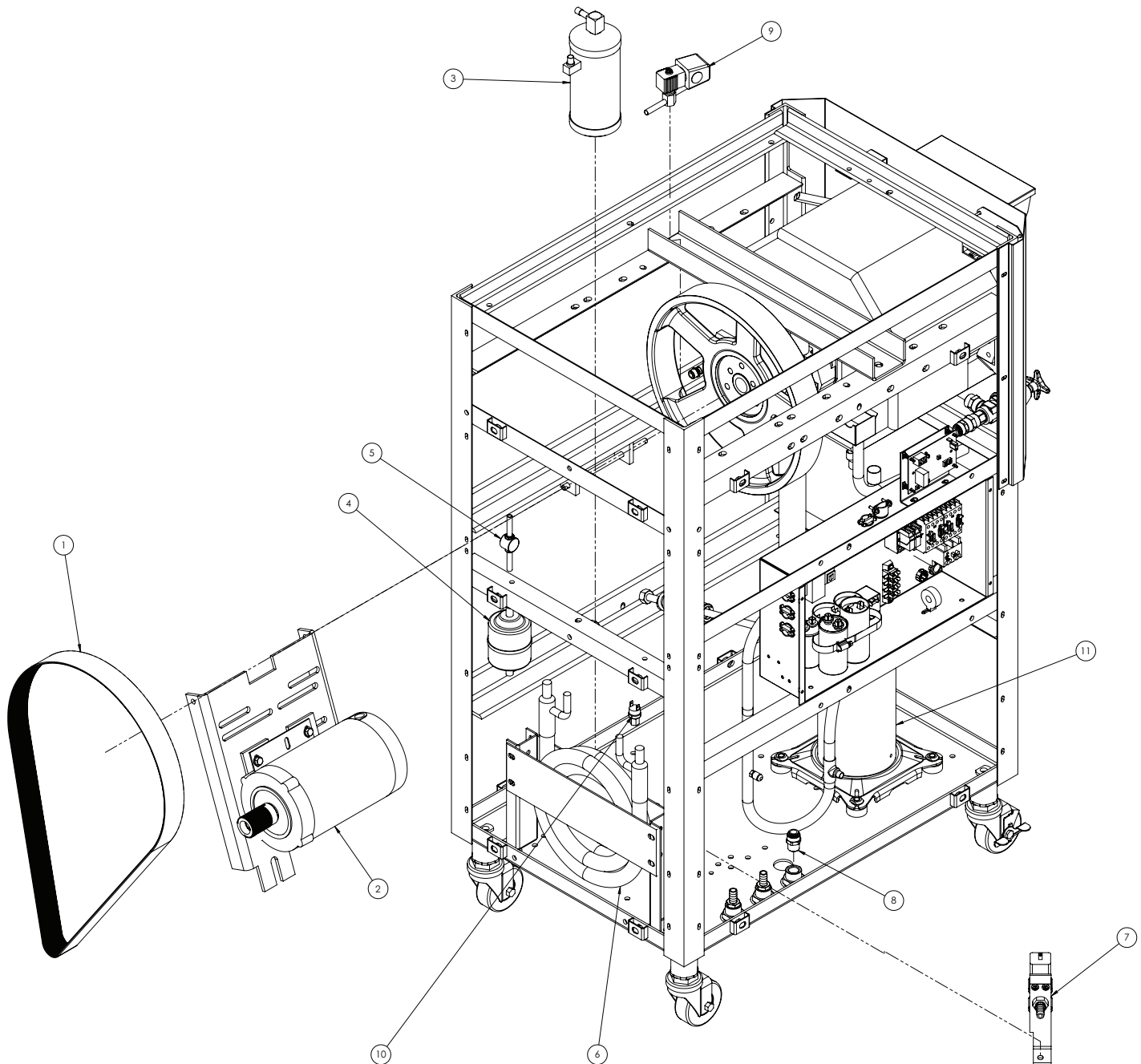
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Figure 8 B12ECylinder Assembly

Item	Part No.	Description
1	HC121830	Assembly - Driving Complete
2	HC153508	Sheave - Driven 15.34in Dia (B12E)
or	HC153627	Sheave - Aluminum 19.685 OD (B24E)
3	HC160659	Seal - Drive Shaft Beater
4	HC121838	Cylinder - Assy Complete (B12E)
or	HC121887	Cylinder - Assy Complete (B24E)
5	HC142139	Spacer - Bearing Mounting
6	HC160660	Ring - Cylinder Front Plastic
7	HC119605	Tube - Assy Drain (B12E)
or	HC119458	Tube - Assy Drain (B24E)
8	HC160424	Screw - HXHC 3/8 - 16 X 3 FUL THD ZN
9	HC160132	Washer - Flat 3/8 ZN
10	HC160014	Screw - HXHC 3/8 - 16 X 1-1/4 ZN

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Figure 9 B12E Rear View WC



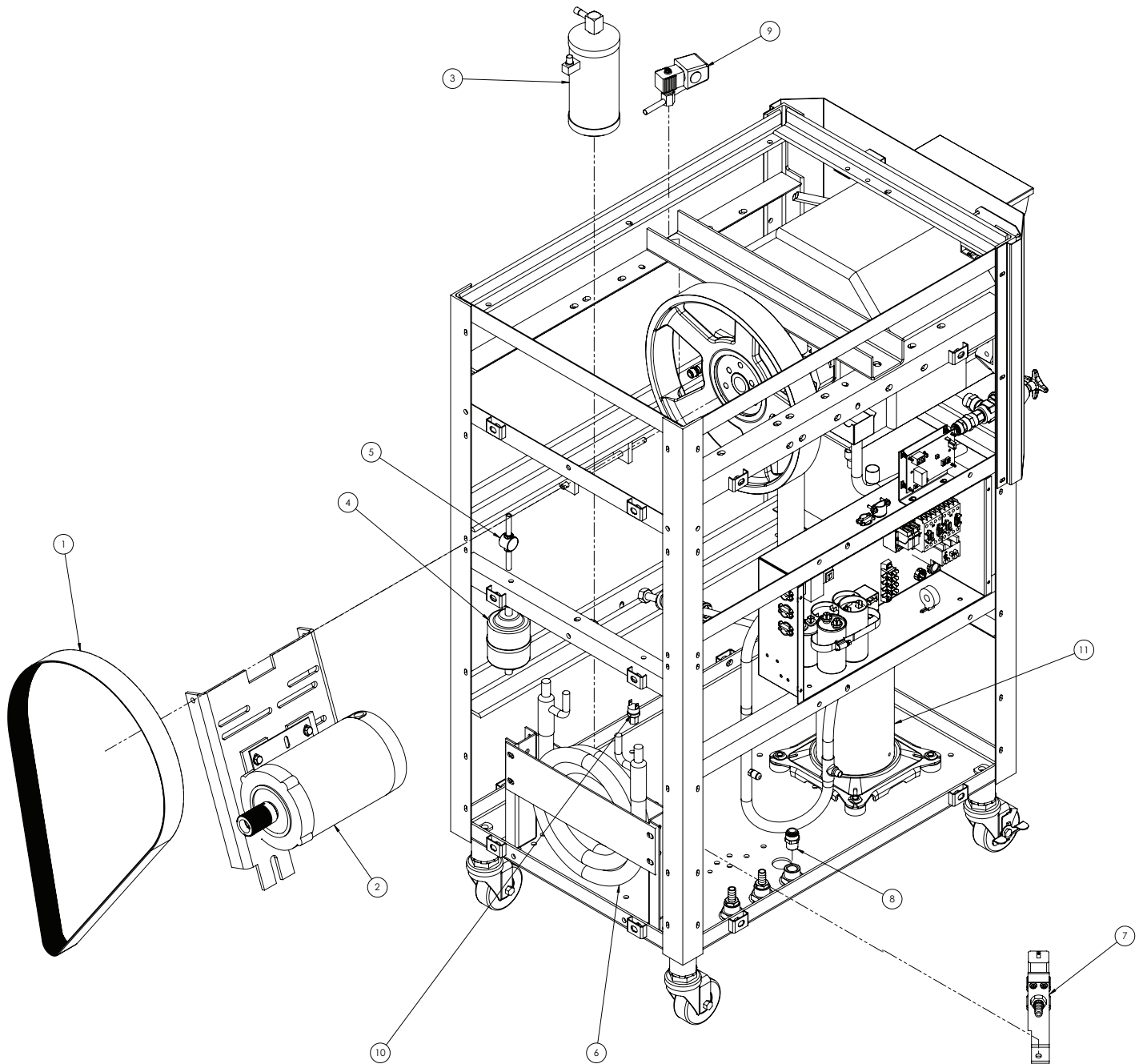
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Figure 9 B12E Rear View WC

Item	B12E Part No.	Description
1	HC153102.....	Belt - Poly V 650J20
2	HC120493.....	Kit - Motor 1PH
		Includes:
		HC150294Capacitor - Start
		HC151025Motor - 2-1/2HP 208-230/1/60
		HC151440Capacitor - Run
or	HC151066.....	Motor - 3PH
3	HC155071.....	Receiver - 3LB
4	HC155054.....	Drier - Filter 16CU IN
5	HC155059.....	Glass - Sight
6	HC155029.....	Condenser - Water
7	HC113769-01....	Valve - Assy Water
8	HC155635.....	Adapter - 12mm Hose x 1/2 BSPT
9	HC151486.....	Coil - Solenoid VLV 24V MKC-1
10	HC155405.....	Cutout - High Pressure 405 PSI
11	HC121917.....	Compressor - Assy 1PH
		Includes:
		HC150403Capacitor - Run
		HC151445Capacitor - Start W/Bleed
		HC155054Drier - Filter 16 CU IN
		HC154947Compressor ZS19KAE-PFV
		HC150029Relay - Compressor COPZS
		HC151490Kit - Compressor Mounting
or	HC121918.....	Compressor - Assy 3PH
		Includes:
		HC154947Compressor - Scroll ZS19KAE-PFV
		HC155054Drier - Filter 16 CU IN
		HC151490Kit - Compressor Mounting
Not Shown:		
	HC155703.....	Cut Out - Low Pressure
	HC155385.....	Valve - Thermostatic Expansion

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Figure 10 B24E Rear View WC

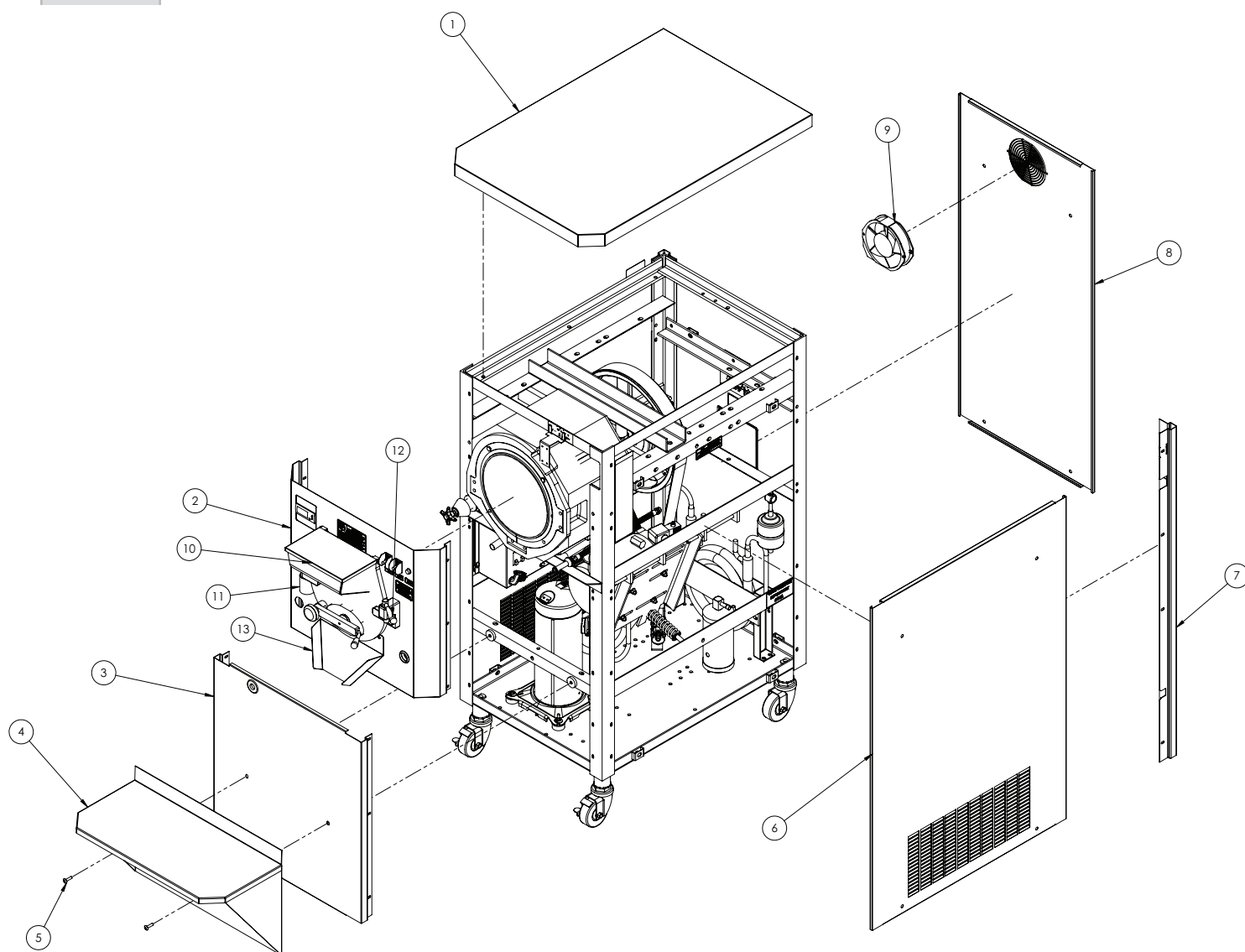


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Figure 10 B24E Rear View WC

Item	B24E Part No.	Description
1	HC153193	Belt - Poly V 650J20
2	HC121916	Kit - Motor 1PH
or	HC151040	Motor - 3PH
3	HC155071	Receiver - 3LB
4	HC155054	Drier - Filter 16CU IN
5	HC155059	Glass - Sight
6	HC155032	Condenser - Water
7	HC113769-01	Valve - Assy Water
8	HC155635	Adapter - 12mm Hose x 1/2 BSPT
9	HC151486	Coil - Solenoid VLV 24V MKC-1
10	HC155405	Cutout - High Pressure 405 PSI
11	HC121919	Compressor - Assy 1PH
		Includes:
		HC150029 Relay - Compressor COPZS
		HC151445 Capacitor Start W/Bleed
		HC151447 Capacitor - Run
		HC151464 Kit - Compressor Mounting
		HC154930 Compressor Scroll ZS26KAE-PFV
		HC155054 Drier - Filter 16 CU IN
or	HC121920	Compressor - Assy 3PH
		Includes:
		HC151464 Kit - Compressor Mounting
		HC154929 Compressor - Scroll ZS26KAE-TF5
		HC155054 Drier - Filter 16 CU IN
Not Shown:		
	HC155703	Cut Out - Low Pressure
	HC155385	Valve - Thermostatic Expansion

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Figure 11 Panel View

Item	Part No.	Description
1	HC121903	Panel - Assy Top
2	HC121846	Panel - Assy Upper Front Complete
3	HC140341	Panel - Lower Front
4	HC121902	Shelf - Assy Batch
5	HC159219	Screw - TRPM 1/4 - 20 X 1 SST
6	HC140213	Panel - Side
7	HC140218	Channel - Rear Corner
8	HC140342	Panel - Rear W/C (See Figure 9 for A/C)
9	HC151000	Fan - Axial
10	HC119828	Door - Assy Complete
11	HC142108	Hinge - Door
12	HC119798	CAM - Assy Door Lock
13	HC140236	Chute - Mix Dispense

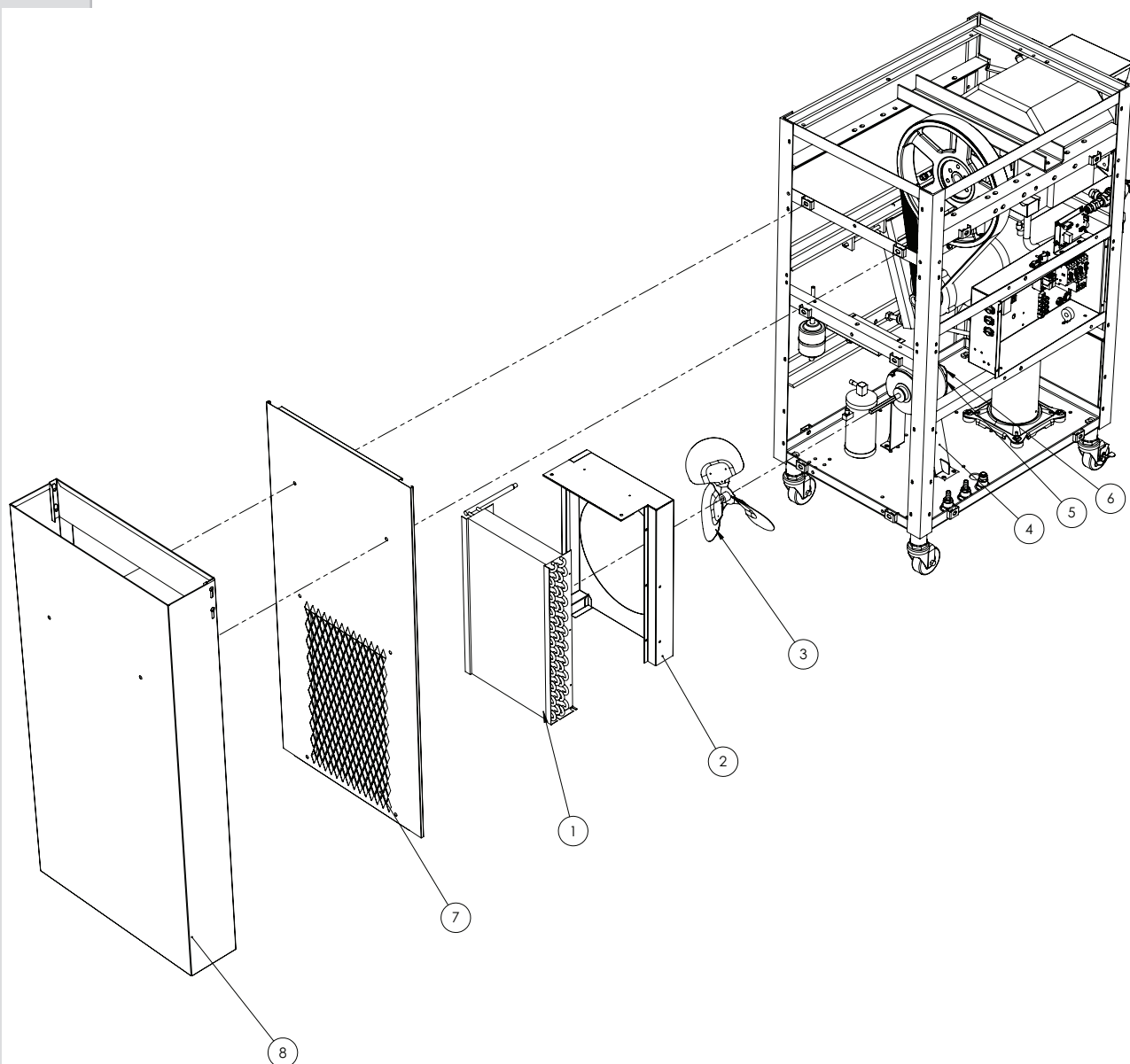
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Figure 11 Panel View (continued)

Hardware for Panels				
Panel	Screw	Nut-Speed	Spacer	Nut-Speed on Frame
Channel-Rear	HC160048	HC160117	n/a	n/a
Dispense	HC160076	HC159132	HC138456	n/a
Front	HC160076	HC159132	n/a	HC159067
Rear	HC160048	HC160114	HC138456	n/a
Side	HC159219	HC160114	HC138456	n/a
Top	HC160305	n/a	n/a	n/a
Trimstrip	HC160076	n/a	n/a	n/a
n/a – Not Applicable				

Panel Decals & Labels	
Part No.	Description
HC165119	6" Air Flow
HC165025-03	Beater Warning Twist
HC164452	Cleaning Instructions
HC165093	Clear Overlay
HC165013	CMT Patent
HC164447	Nameplate SN
HC164239	MTS Connect Red Line
HC165124	Top Air Discharge
HC165126	Panel Removal
HC165124	Top Air Discharge
HC164081	Trimstrip
HC164081	Electro Freeze Label
HC165246	Warning - Pressurized

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Figure 12 Rear Panel View

Item	B12E Part No.	B24E Part No.	Description
1	HC155125	HC155669	Condenser - Air
2	HC118787	HC142191	Shroud - Condenser
3	HC159040	HC159034	Blade - Fan
4	HC120941-01	HC120941-02	Bracket - Assy Fan Motor Supprot
5	HC151160	HC151046	Motor - Fan
6	HC120907	-	Bracket - Assy Fan Motor
7	HC120907	-	Panel - Assy Rear A/C
8	HC121910	-	Deflector - Assy Kit

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Accessories

Part No.	Description
HC155613	Adapter-1/2 MPT x 3/4 Garden BR
HC196103	Bottle-Wash 500ml
HC158026	Brush-1 inch dia x 12 inch long
HC158020	Brush-6 inch x 2-3/4 w/9 inch handle
HC158077	Brush-9/16 inch w/36 inch handle
HC162105	Caster-1 1/4 ST PT w/brake
HC162106	Caster-1 1/4 ST PT w/o brake
HC158051	Cup-Overrun Measuring 1 Pint (use with P/N HC158049 scale)
HC158000A.....	Lubricant-Petrol Gel 4 oz. tube (per tube)
HC150736	Nut-Lock Conduit 1 1/4 (casters)
HC158013	Sanitizer-Stera Sheen Sample
HC158014	Sanitizer-Stera Sheen case/4 jars
HC158014A.....	Sanitizer-Stera Sheen 4 lb. jar
HC158049	Scale-Overrun
HC169374	Tool-O-ring Removal

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