

Parts Manual

Generator Set

VTA28 Engine with PowerCommand[®] 3.3 and 3.3 MLD
Controller

C600 D6

C600 D6 (Spec C-D)

C700 D5

C700 D5 (Spec C-D)

C825 D5A

C825 D5A (Spec C-D)

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Safety Precautions

The following symbols are used in Cummins Power Generation manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

Product Safety Precautions

Before operating the generator set, read the manuals and become familiar with them and the equipment. Safe and efficient operation can be achieved only if the equipment is properly operated and maintained. Many accidents are caused by failure to follow fundamental rules and precautions.



Note:

It is in the Operator's interest to read and understand all Health and Safety information together with all Warnings and Cautions contained within the documentation relevant to the generator set, its operation and daily maintenance.



Improper operation and maintenance can lead to severe personal injury or loss of life and property by fire, electrocution, mechanical breakdown or exhaust gas asphyxiation. Read and follow all safety precautions in the health and safety manual 0908-0110.



Service and repair of Cummins Power Generation equipment must be performed by trained, experienced personnel only. Improper service, repair or replacement of parts may result in damage to equipment & property, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

About This Manual

This manual applies to the generator models C600 D6, C700 D5, C825 D5A. Parts illustrations are arranged in groups relating to their position and function on the generator set. Each part illustrated is identified by a reference number corresponding to the list of part numbers in the accompanying table.

Engine and alternator parts that have been modified or added by Cummins are identified in this catalogue. Contact your nearest authorized distributor for assistance in ordering replacement parts. All other replacement parts must be ordered from the engine/alternator manufacturer by referring to the item nameplate and supplying all available information.

Cummins Generator Model	Cummins Engine Model
C600 D6	VTA28G5
C700 D5	VTA28G5
C825 D5A	VTA28G6

Generator Set Data Table

Model	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
C600 D6	600,000	#	60	4L, 6L	3	24VDC
C700 D5	700,000	#	50	4L, 6L	3	24VDC
C825 D5A	825,000	#	50	4L, 6L	3	24VDC

– 380–13,800V (Refer to Genset Data Sheet).

Quick Serve Online (QSOL)

Documentation and operator manuals pertaining to the generator set are available on QuickServe Online.

QuickServe Online: <https://quickserve.cummins.com/info/index.html>

The information contained within this manual is based on information available at the time of going to print. In line with Cummins policy of continuous development and improvement, information may change at any time without notice. Obtain the most up to date version available on QuickServe Online or contact your authorized distributor for assistance.

Related Literature

The related literature that is appropriate to your generator set includes:

- Operator Manual for VTA28G5/6 with PC 3.3 (A035B514)
- Installation Manual for VTA28G5/6 with PC 3.3 (A035B501)
- Generator Set Service Manual for VTA28G5/6 with PC 3.3 (A035B522)
- Controller Service Manual for PC 3.3 (0900–0670)
- Engine Operation & Maintenance Manual for VTA28 (3379052)
- Alternator Service Manual for HC Alternators (0900–9904–00)
- Application Manual T–030, Liquid Cooled Generator Sets (For application information)
- Recommended Spares List (RSL) for C600 D6, C600D6 (Spec C–D) (A035B544)
- Recommended Spares List (RSL) for C700 D5, C700D5 (Spec C–D) (A035B542)
- Recommended Spares List (RSL) for C825 D5A, C825D5A (Spec C–D) (A035B543)
- Standard Repair Times – BL Family (0900–0900)
- Warranty Administration Manual (4021290)
- Global Commercial Warranty Statement (A028U870)

If further information is required, contact your authorized distributor.

Model Identification

This manual covers generator set models produced under the Cummins brand name.

To avoid errors or delay in filling your parts order, always state the MODEL and SERIAL NUMBER from the Cummins nameplate.

 Power Generation	

The engine serial number is located on a data tag on the engine or is stamped on the engine block.

The control software number is located on the electronic control module (ECM) or can be obtained via the digital interface if one is available.

For reference document your generator set information in the spaces below.

Generator Set Model Number: _____

Generator Set Serial Number: _____

Generator Spec Letter: _____

Engine Serial Number: _____

Digital Control Software: _____

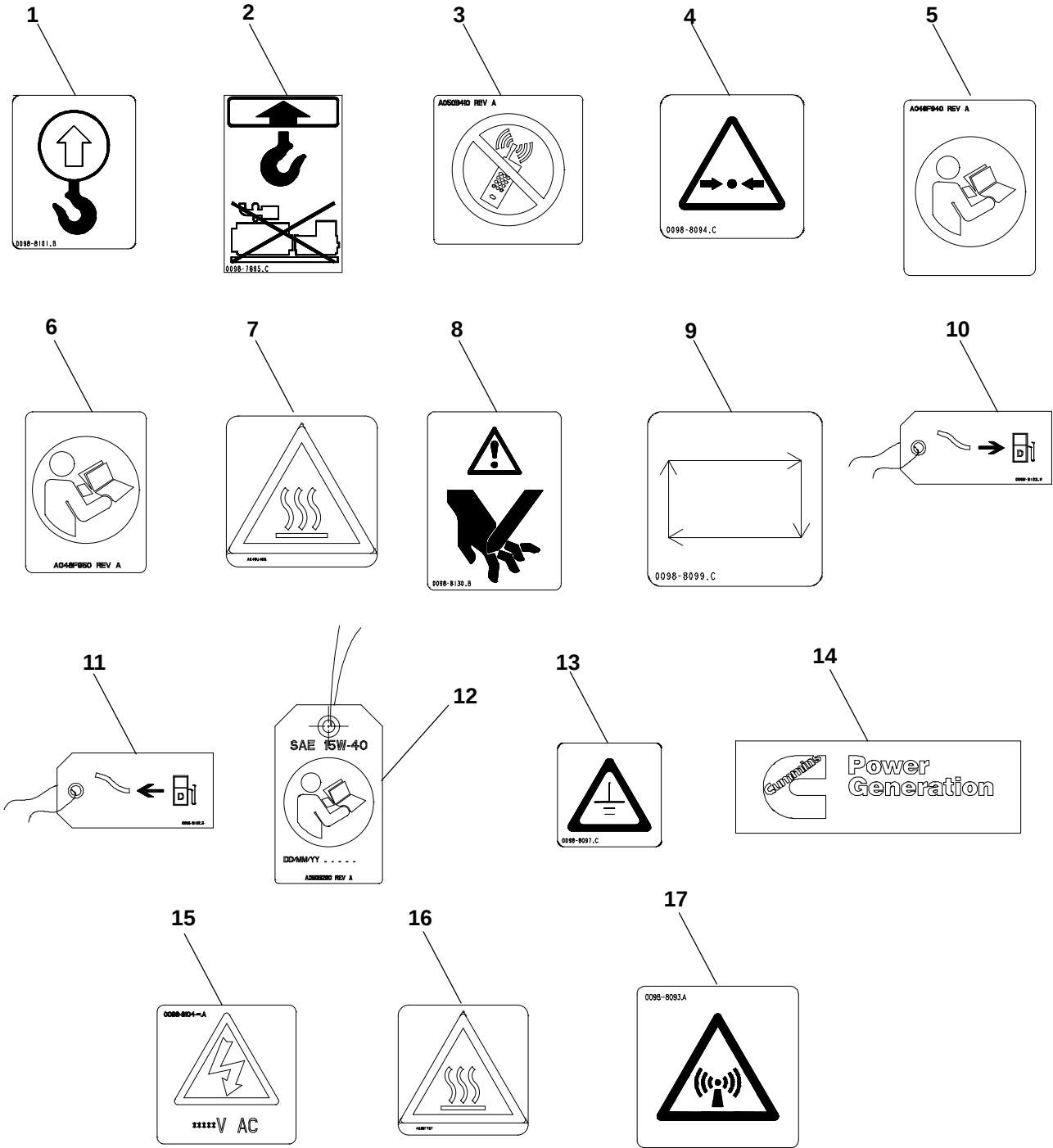
Abbreviations

Some of the following abbreviations may be used throughout this Parts Manual:

AC	Alternating Current	LED	Light-Emitting Diode
ACB	Air Circuit Breaker	LTP	Limited Time Power Rating
ACH	Anti-Condensations Heaters	LTA	Low Temperature Aftercooling
ATS	Automatic Transfer Switch	LV	Low Voltage
Amp	Ampere	M	Meter
A/R	As Required	MCB	Miniature Circuit Breaker
AVR	Automatic Voltage Regulator	MCCB	Moulded Case Circuit Breaker
AWG	American Wire Gauge	MF	Mains Failed
BHP	Brake Horsepower	MFSS	Master First Start Sensor
BMS	Building Measurement System	mm	Millimeter
BST	Busbar Sensing Transformer	MOH	Mobile Off Highway
CAN	Controlled Area Network	MR	Mains Returned
CB	Circuit Breaker	MST	Mains Sensing Transformer
CCA	Cold Cranking Amps	MSU	Mains Sensing Unit
CHP	Combined Heat and Power	MV	Medium Voltage
COP	Continuous Power Rating	NEC	Neutral Earthing Contact
CT	Current Transformer	NFS	Not For Sale
		NPT	National Pipe Thread
dB(A)	Unit of noise level	OD	Outside Diameter
DC	Direct Current	oz.	Ounce
Deg	Degree	PC	PowerCommand 3.3
DIP	Dual In-line Package	PC	Printed Circuit
DMC	Digital Master Control	PF	Power Factor
DMSU	Demand Load Standby Unit	Ph	Phase
ECM	Engine Control Module	PFC	Power Factor Controller
EFC	Electronic Fuel Control	PLC	Programmable Logic Controller
EIT	External/Internal Tooth	PMG	Permanent Magnet Generator
EMCU	Engine Monitoring and Control Unit	PRP	Prime Power Rating
EMF	Electromotive Force	PSU	Power Supply Unit
EPROM	Erasable Programmable Read Only Memory	PT/CT	Potential Transformer/Current Transformer
EPU	Engine Protection Unit	PTC	Power Transfer Control
ET	External Tooth	QCC	Quadrature Current Control
FAE	Full Authority Engine	RFI	Radio Frequency Interference
FSS	First Start Sensor	RMS	Root Mean Square
GCP	Generator Control Panel	RPM	Revolutions Per Minute
GFI	Ground Fault Interrupter	RT	Right
GKWT	Global Kilowatt Transducer	RTD	Resistance Temperature Detector
HMI	Human/Machine Interface	Spec	Specification
HV	High Voltage	Thk	Thick
IC	Integrated Circuit	UL	Underwriters Laboratories Inc.
ID	Inside Diameter	UNC	Union National Coarse
IEC	International Electrotechnical Commission	UNF	Union National Fine
I/O	Input / Output	V	Volts
IT	Internal Tooth	VAC	Volts, Alternating Current
kVA	Apparent Power	VCB	Vacuum Circuit Breaker
kVAR	Reactive Power	VDC	Volts, Direct Current
kW	Active / Real Power (Kilowatt)	VF	Volt-free
kWh	Unit of electrical energy or work	VT	Voltage Transformer
LPG	Liquid Petroleum Gas	W/(ET, IT, EIT)	With
LT	Left		

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Labels



Labels

Item	Part No.	Description	Qty
1	0098-8101	Label, Information	4
2	0098-7895	Label, Warning	6
3	A050B410	Label, Caution	1
4	0098-8094	Label, Warning	2
5	A048F940	Label, Instruction	4
6	A048F950	Label, Instruction	1
7	A048J466	Label, Warning	4
8	0098-8130	Label, Caution	3
9	0098-8099	Label, Danger	1
10	0098-8103	Label, Information	1
11	0098-8102	Label, Information	1
12	A050B260	Label, Oil Fill	1
13	0098-8097	Label, Information	1
14	0098-7902-04	Label, Logo	3
15	0098-8104-05	Label, Warning ($\leq 480V$ AC)	7
16	A030F757	Label, Warning	2
17	0098-8093	Label, Caution (Radio Interference)	1

Consumables

The following is a list of consumables associated with the generator models covered in this manual:

Service Consumables

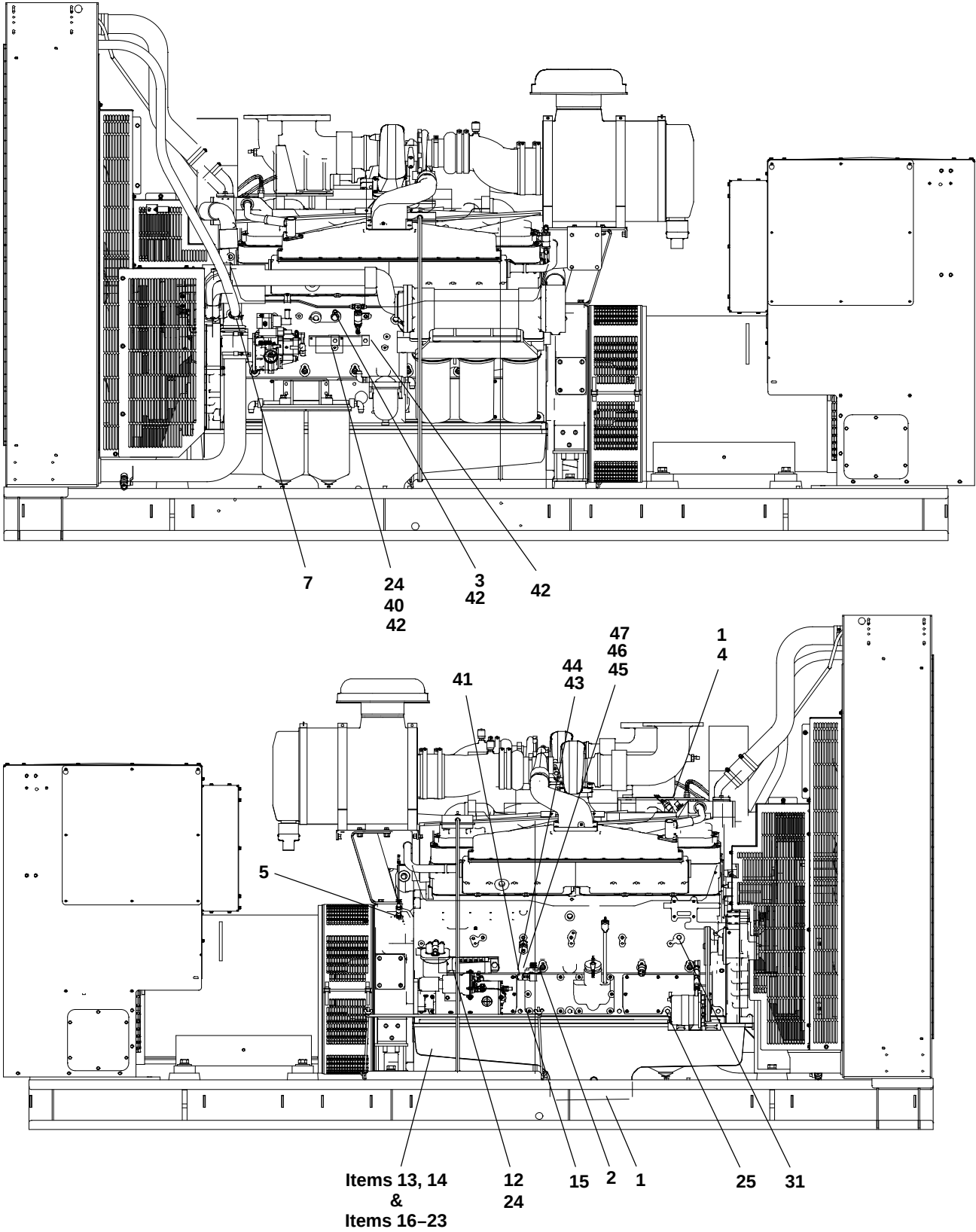
Ref. Page No.	Part No.	Description	Qty
25	0503–2386	Hose, Coolant	1
29	0501290	Line, Fuel – Supply	1
29	0501291	Line, Fuel – Return	1
19	0541–0925	Kit, Air Filter	1

Paint, Thread Sealant, Antifreeze and Oil

Item	Part No.	Description	Qty
1	525–0305	Onan Green Enamel (Non–Metallic) 12 oz. Pressurized Spray Can	n/a
2	518–0601	Sealant, Thread (6 ml Tube)	n/a
3	A050J634	Antifreeze, Ethylene Glycol (50/50)	159.0
4	A050J636	Oil, Lubricating	64.0

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Engine Accessories



Engine Accessories

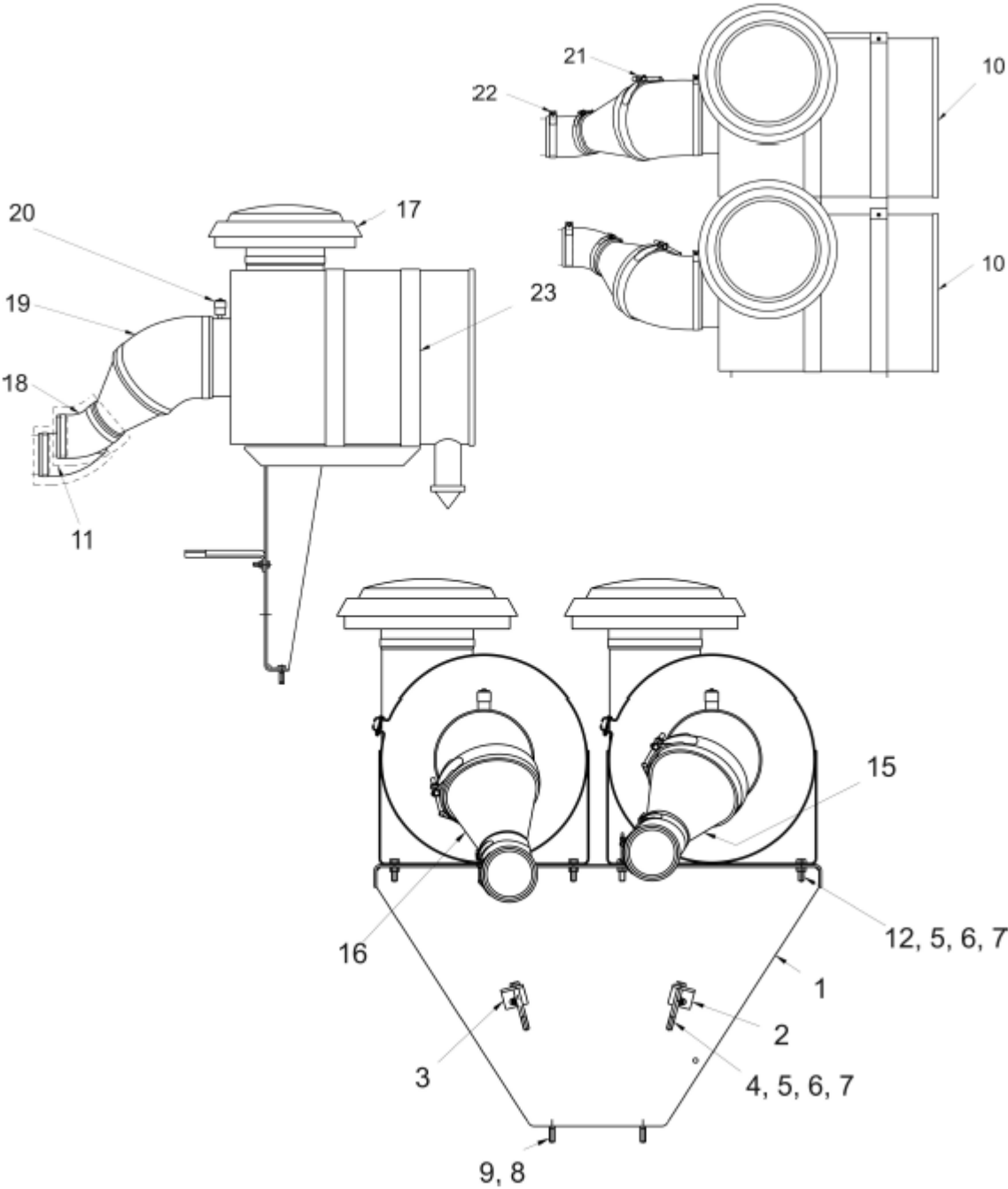
Item	Part No.	Description	Qty
1	0193-0432	Sender, Temperature	3
2	A028X493	Sender, Pressure	1
3	0309-0269	Switch	1
4	0505-0019	Bushing, Reducer	2
5	0151-0411	Sensor, Magnetic Pickup	1
6	0332-2634	Clamp, J	2
7	0505-1503	Adapter, Pipe	1
8	0505-0131	Bushing, Reducer	1
9	0800-0052	Screw, Hex Head	1
10	0850-0050	Washer, Lock	1
11	0332-2921	Clamp, J	3
12	001146	Bracket, Terminal Block	1
13	011263	Lead, Battery	1
14	011264	Lead, Battery	1
15	0226-4867	Lead, Earth	2
16	0416-1141	Clamp, Battery	2
17	0416-1142	Clamp, Battery	4
18	0416-1195	Cable, Jumper	2
19	0416-1200	Cable, Jumper	1
20	0416-1201	Cable, Jumper	1
21	0416-1202	Shield, Battery	2
22	0416-1203	Clamp, Battery	4
23		Clamp, Battery	
	0416-1204	Up to Spec C	4
	A056U125	Begin Spec D	4
24	0811366	Shroud, Terminal	3
25	0335-0242	Cable – Assembly	1
26	0332-3985	Boot, Insulation	7
27	0800-0048	Screw, Hex Head	3
28	0800-3017-52	Screw, Hex Head	1
29	0850-0114-56	Washer, Lock	11
30	0526-0399-64	Washer, Flat	21
31	0502-1432	Fitting, Hose Connector	1
32	0862-0026-57	Nut, Hex	10
33	0800-6288-12	Screw, Hex Head	2
34	0800-3017-56	Screw, Hex Head	8
35	0505-2261	Fitting, Pipe Nipple	1
36	0815-1540-20	Screw, Slotted Head	2
37	0862-0026-52	Nut, Hex	2
38	0526-0399-54	Washer, Flat	4
39	0505-2137	Bushing, Reducer	1
		Continued...	

Engine Accessories

Item	Part No.	Description	Qty
		Continued...	
40	C031-0005	Washer, Spring Lock	3
41	A042U834	Lead, Cable	1
42	C370-0042-02	Screw, Hex Head	3
43	C370-0031-09	Screw, Hex Head	1
44	C031-0007	Washer, Spring Lock	1
45	C031-0006	Washer, Flat	2
46	C380-0021	Nut, Hex	1
47	C041-0005	Washer, Flat	2

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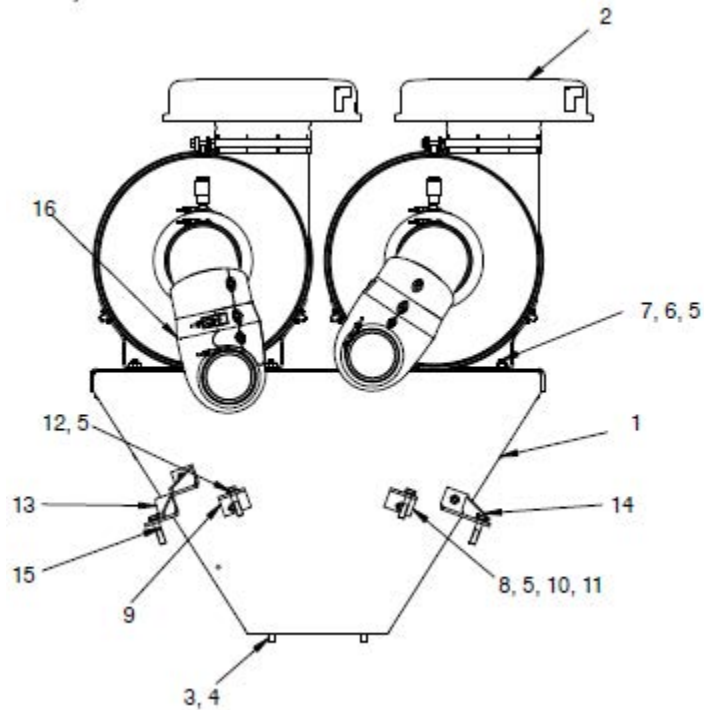
Air Cleaner (03SC040)



Air Cleaner (03SC040)

Item	Part No.	Description	Qty
1	009496	Bracket, Air Filter	1
2	009517	Bracket, Air Filter	1
3	009518	Bracket, Air Filter	1
4	0800-6494-62	Screw, Hex Head	2
5	0526-2400-61	Washer, Flat	20
6	0850-0114-56	Washer, Lock	10
7	0860-2127-16	Nut, Hex	10
8	0800-0310-64	Screw, Hex Head	2
9	0526-0399-25	Washer, Flat	2
10	0541-0925	Kit, Air Filter (Includes Parts Marked *)	2
11	009516	Shield, Heat	2
12	0800-6494-61	Screw, Hex Head	8

Air Cleaner (A058P879)

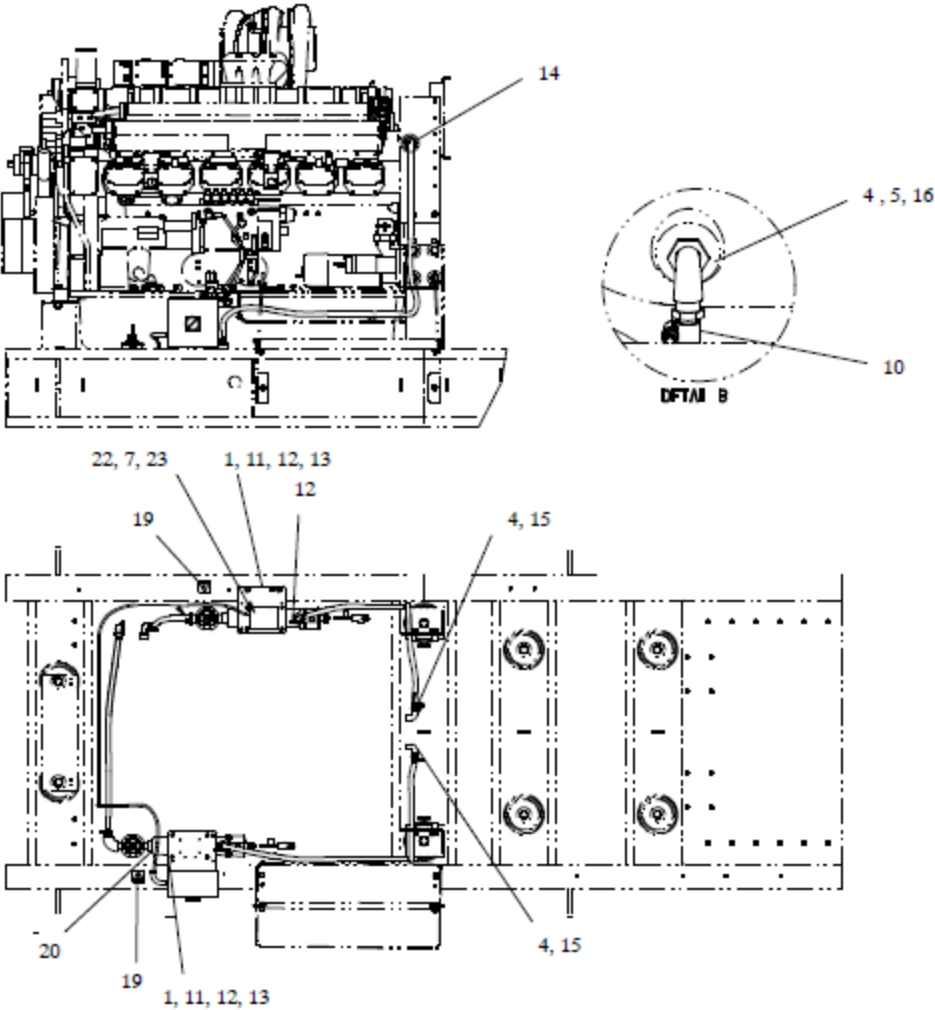


Item	Part No.	Description	Qty
1	A059W380	Bracket, Air Filter	1
2	A058P893	Kit, Air Filter	1
3	0526-0399-25	Washer, Flat	2
4	A060U814	Screw, Hex Head	2
5	0526-2400-61	Washer, Flat	16
6	0850-0114-56	Washer, Lock	8
7	0800-6494-61	Screw, Hex Head	8
8	A059W396	Bracket, Air Filter	1
9	A059W402	Bracket, Air Filter	1
10	0860-2127-16	Nut, Hex	4
11	0800-6494-62	Screw, Hex Head	4
12	A060U812	Screw, Hex Head	2
13	A059W400	Bracket, Air Filter	1
14	A059W394	Bracket, Air Filter	1
15	0800-6622-54	Screw, Hex Head	2
16	A061F010	Shield, Heat	2

Air Cleaner (03SC040)

Item	Part No.	Description	Qty
1	009496	Bracket, Air Filter	1
2	009517	Bracket, Air Filter	1
3	009518	Bracket, Air Filter	1
4	0800-6494-62	Screw, Hex Head	2
5	0526-2400-61	Washer, Flat	20
6	0850-0114-56	Washer, Lock	10
7	0860-2127-16	Nut, Hex	10
8	0800-0310-64	Screw, Hex Head	2
9	0526-0399-25	Washer, Flat	2
10	0541-0925	Kit, Air Filter (Includes Parts Marked *)	2
11	009516	Shield, Heat	2
12	0800-6494-61	Screw, Hex Head	8

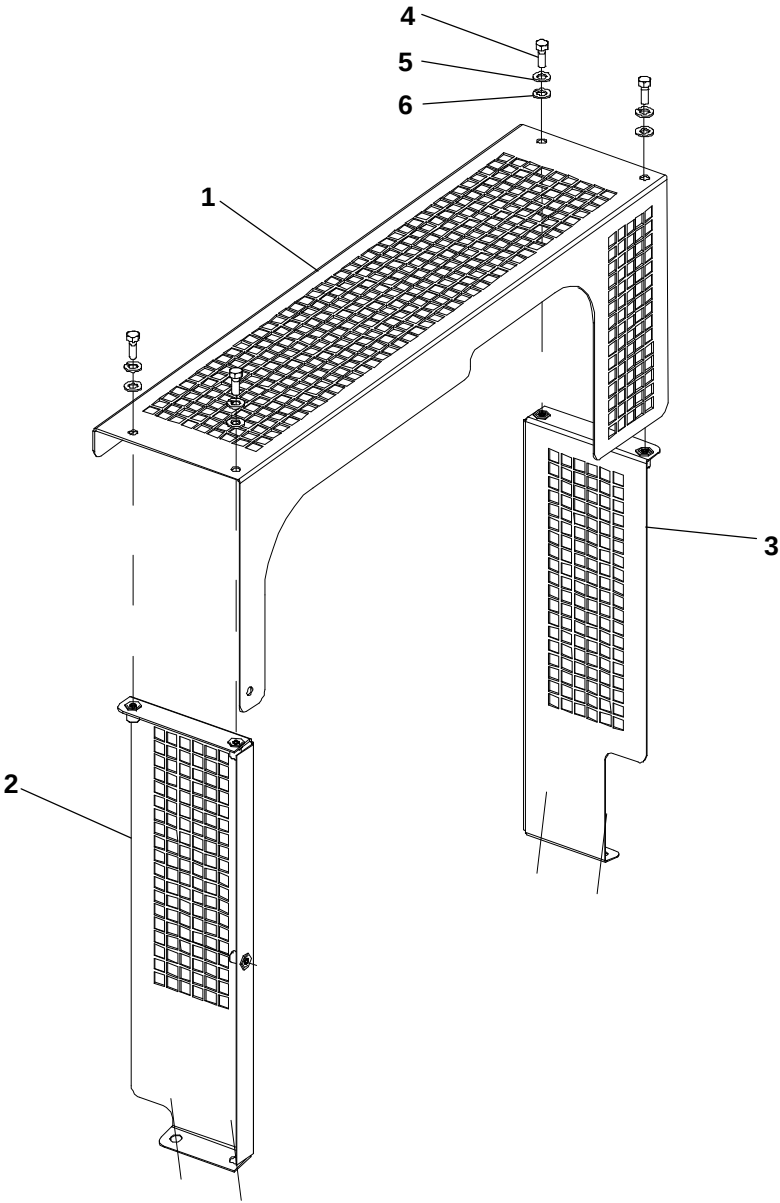
Engine Heater – 240V



Engine Heater – 240V

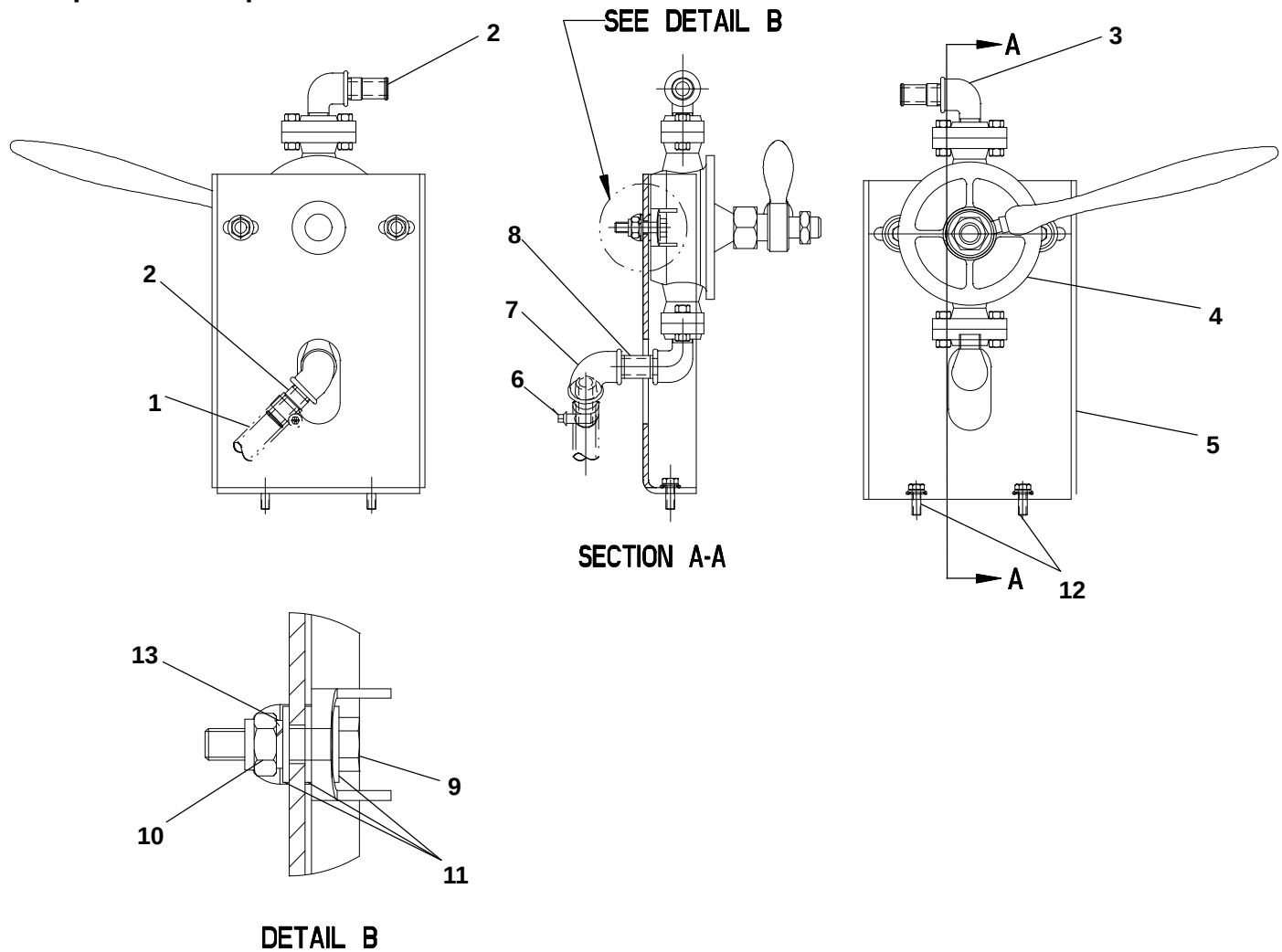
Item	Part No.	Description	Qty
1	010167	Heater, Support	2
2	0502-1490	Connector, Hose	4
3	0505-2137	Bushing, Reducer	1
4	0333-0763	Harness, Heater	1
5	0505-2303	Elbow, Tube	1
6	0503-2550	Clamp, Hose	8
7	0800-3017-37	Screw, Hex Head	4
8	0850-0114-55	Washer, Lock	4
9	0526-0399-62	Washer, Flat	4
10	0508-1119	Grommet	2
11	0502-1369	Elbow, Male Female	4
12	0505-2140	Bushing, Reducer	1
13	0503-2203-02	Hose	1
14	0098-8095	Label, Warning	1
15	A034J652	Heater, Coolant	1
16	A034J654	Heater, Coolant	1
17	A041D284	Screw, Thread Forming	2

Heat Shield



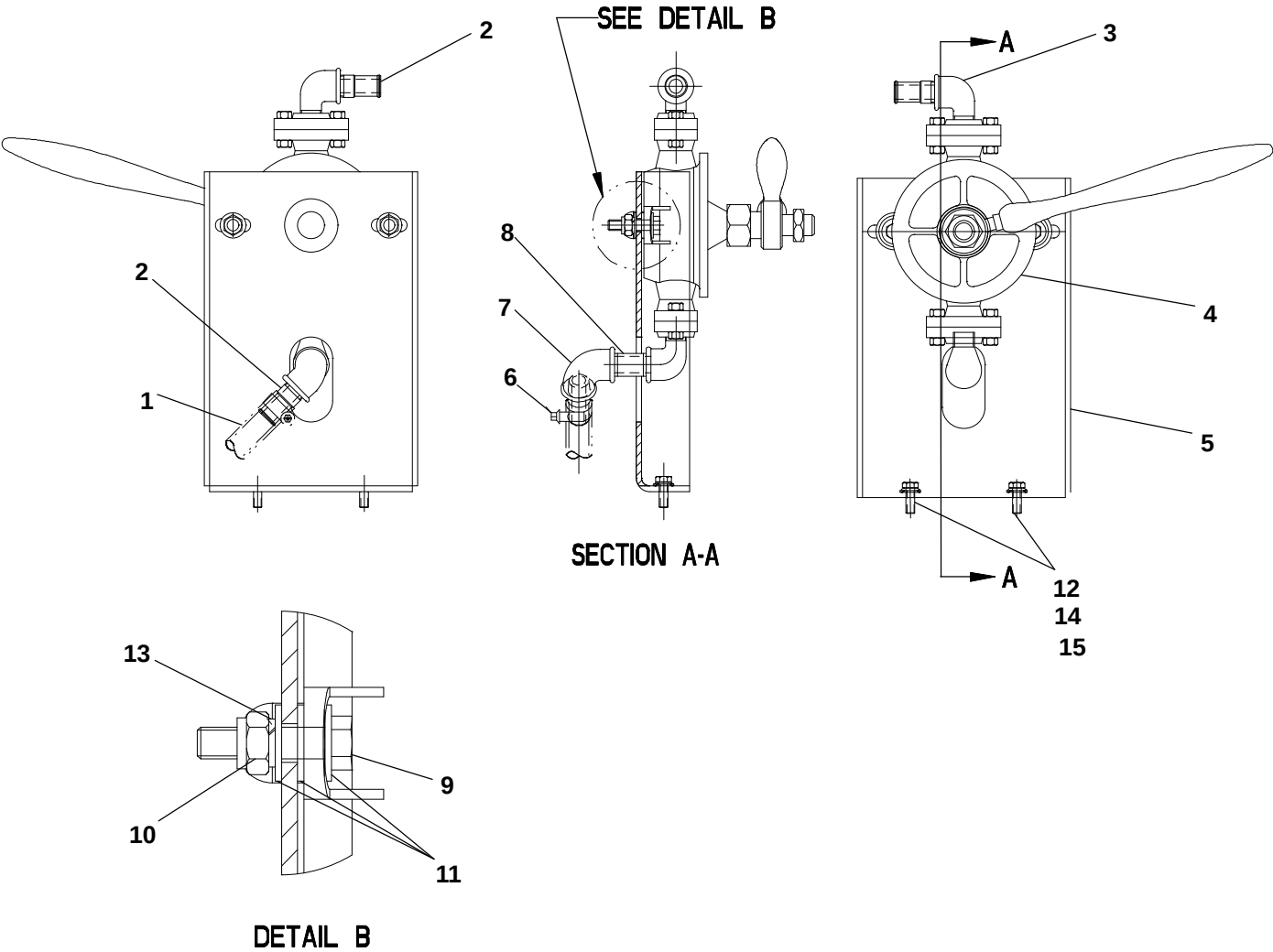
Item	Part No.	Description	Qty
1	0404-0030-02	Shield, Exhaust (Top)	1
2	A050C368	Shield, Exhaust (Left)	1
3	A050C379	Shield, Exhaust (Right)	1
4	C370-0029-03	Screw – Hex Head	3
5	C031-0005	Washer, Lock – Spring	3
6	C041-0004	Washer, Flat	3

Sump Drain Pump



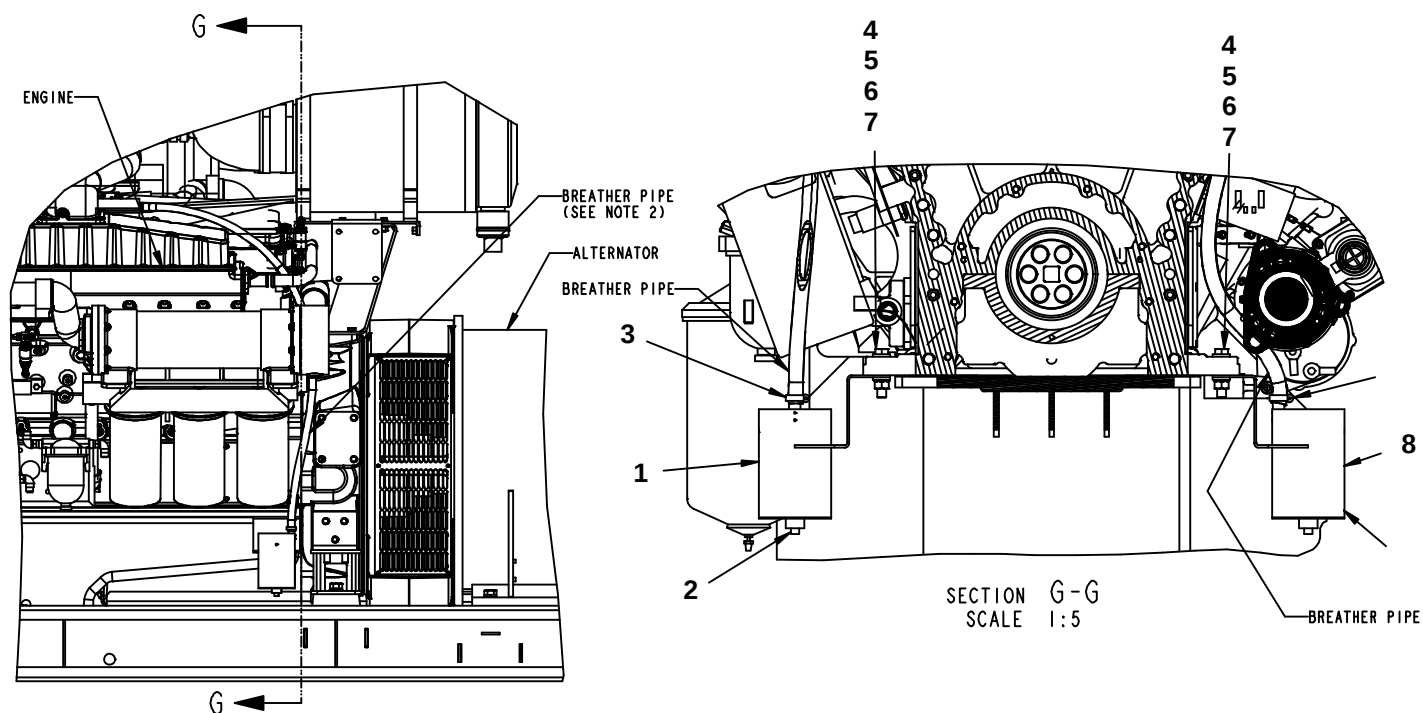
Item	Part No.	Description	Qty
1	0503-2386	Hose, Coolant	1
2	0502-1475	Adapter, Hose	2
3	0502-1369	Elbow, Male Female	2
4	0149-2736	Pump, Fuel	1
5	0120-1345-02	Bracket, Oil Pump	1
6	0503-2550	Clamp, Hose	2
7	0505-2141	Fitting, Pipe Elbow	1
8	0505-2098	Fitting, Pipe Nipple	1
9	0800-3017-40	Screw, Hex Head	2
10	0870-2225-03	Nut, Lock	2
11	0526-2122	Washer, Flat	6
12	0821-6003-02	Screw, Hex Head	2
13	0850-0114-55	Washer, Lock	2

Sump Drain Pump



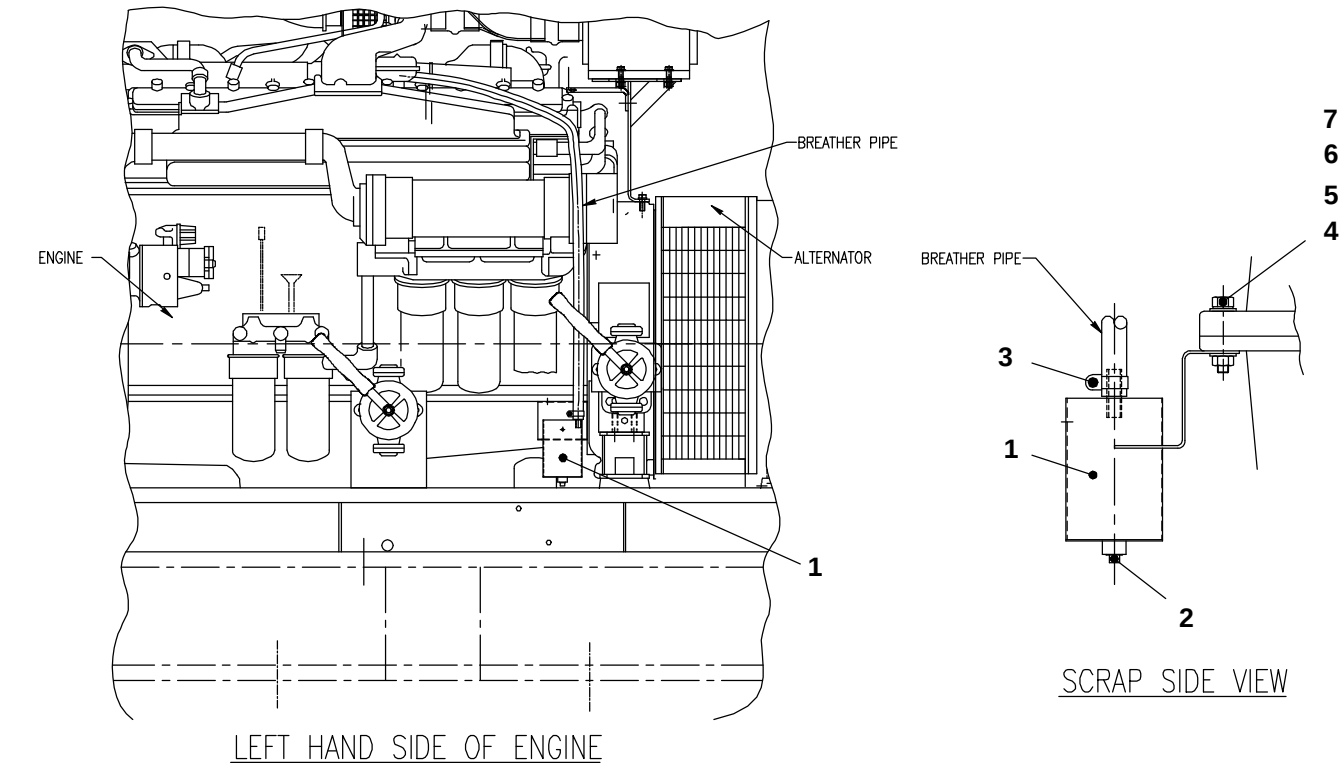
Item	Part No.	Description	Qty
1	A051C732	Hose, Coolant	1
2	0502-1475	Adapter, Hose	2
3	0502-1369	Elbow, Male Female	2
4	0149-2736	Pump, Fuel	1
5	0120-1345-02	Bracket, Oil Pump	1
6	0503-2550	Clamp, Hose	2
7	0505-2141	Fitting, Pipe Elbow	1
8	0505-2098	Fitting, Pipe Nipple	1
9	C370-0030-06	Screw, Hex Head	2
10	C380-0020	Nut, Hex	2
11	C041-0005	Washer, Flat	6
12	C370-0029-03	Screw, Hex Head	2
13	C031-0006	Washer, Lock	2
14	C041-0004	Washer, Flat	2
15	C031-0005	Washer, Spring Lock	2

Oil Container



Item	Part No.	Description	Qty
1	0403-6221-02	Pan, Drip	1
2	0505-1603	Plug, Pipe	2
3	0505-2550	Clamp, Hose	2
4	0800-3017-60	Screw, Hex Head	4
5	0862-0026-57	Nut, Hex	4
6	0526-0399-64	Washer, Flat	8
7	0850-0114-56	Washer, Lock	4
8	A046L149	Pan, Drip	1

Drip Pan

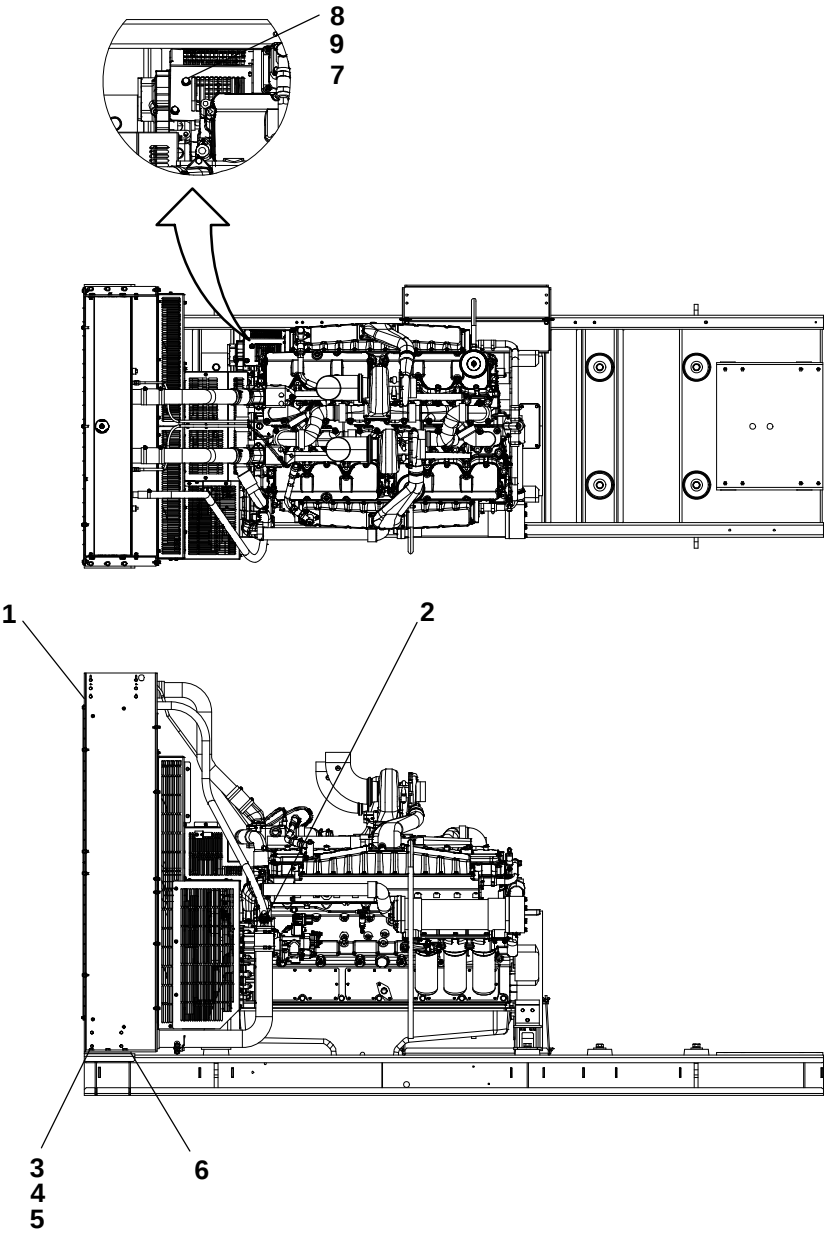


Item	Part No.	Description	Qty
1	0403-6221-02	Pan, Drip	2
2	0505-1603	Plug, Pipe	2
3	C071-0012-02	Clamp	2
4	C370-0031-09	Screw, Hex Head	4
5	C380-0021	Nut., Hex	4
6	C041-0006	Washer, Flat	8
7	C031-0007	Washer, Spring Lock	4

Fuel Lines

Item	Part No.	Description	Qty
1	023192	Hose, Fuel	1
2	023195	Hose, Fuel	1

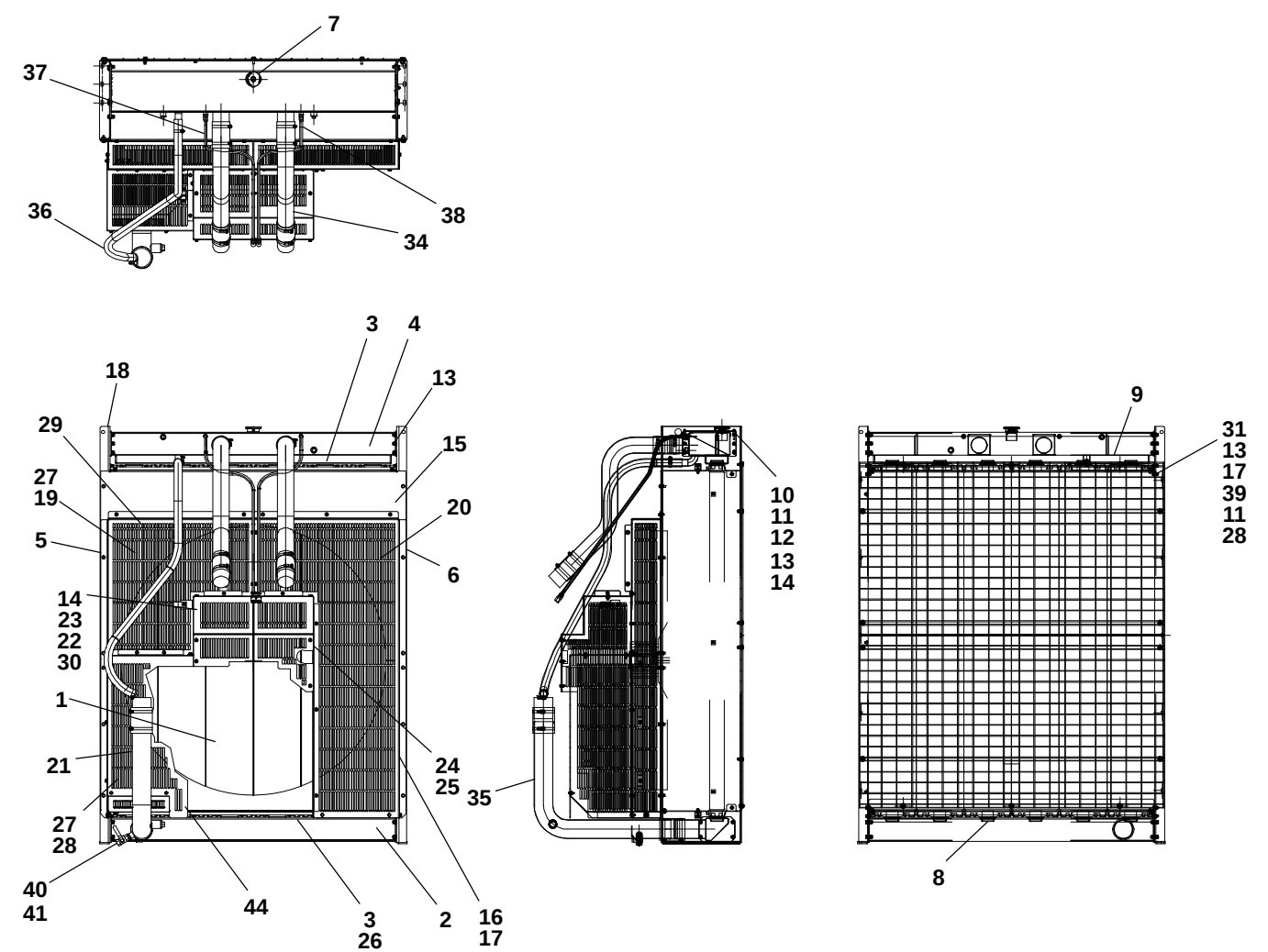
Cooling System



Item	Part No.	Description	Qty
1	A029J448	Radiator (See Page 33 for Radiator Service Parts)	1
2	A029V598	Fitting, Pipe Adapter	1
3	0800-3017-42	Screw, Hex Head	6
4	0526-2122	Washer, Flat	12
5	0870-2225-03	Nut, Lock	6
6	004502	Plate, Packing	4
7	603162	Screw, Hex Head	2
8	0850-0050	Washer, Lock	2
9	0526-0399-62	Washer, Flat	2

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Radiator Service Parts



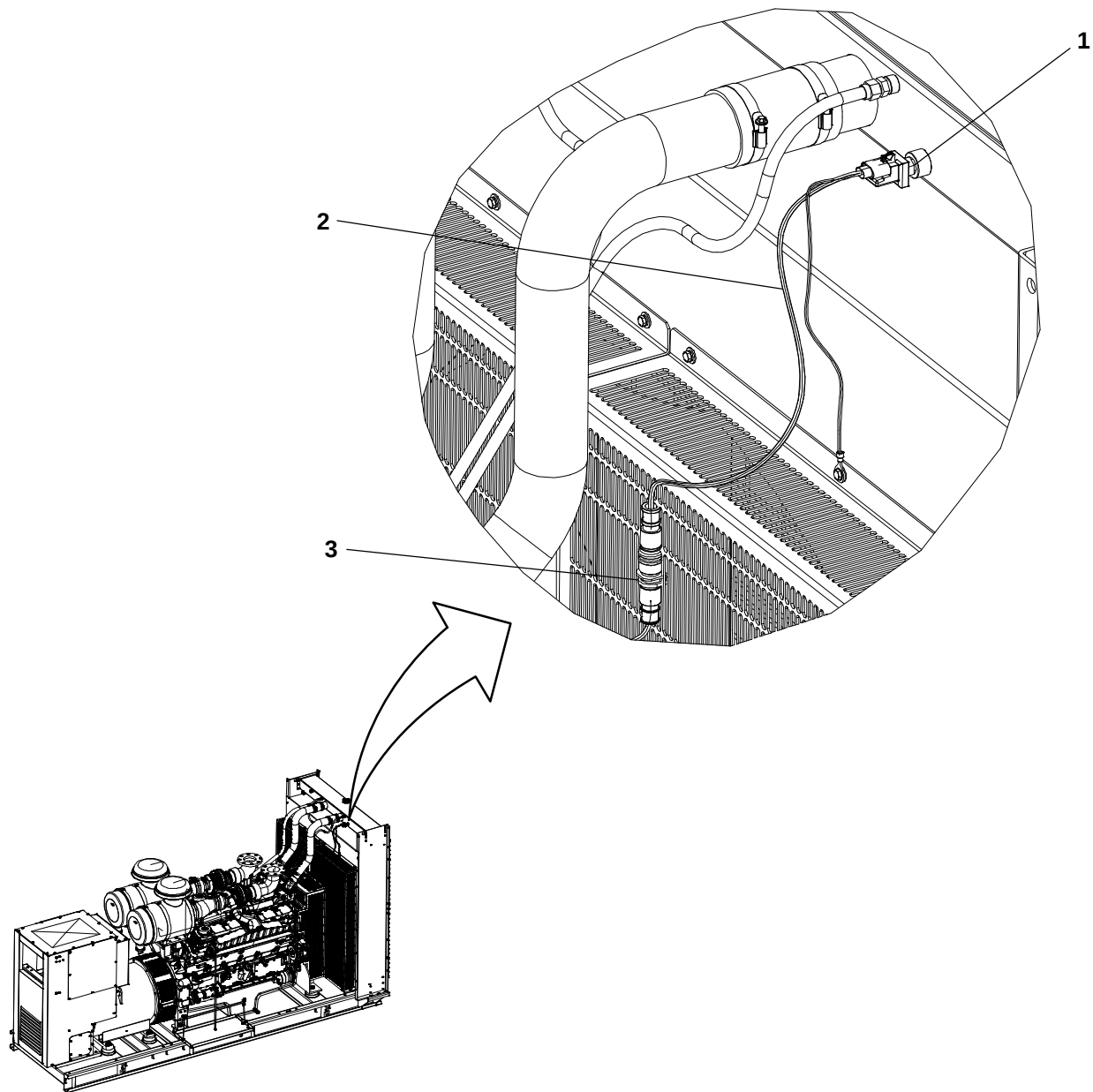
Radiator Service Parts

Item	Part No.	Description	Qty
1	A029X254	Core, Radiator	6
2	A029X255	Tank, Radiator	1
3	0130–7030	Seal, Radiator	12
4	A029X256	Tank, Radiator	1
5	A029X257	Member, Side	1
6	A029X258	Member, Side	1
7	0130–7595	Cap, Pressure	1
8	A029X259	Plate, Closing	1
9	A029X260	Plate, Closing	1
10	A029X262	Washer	40
11	0718–1037	Screw, Hex Head	31
12	A029M927	Nut	30
13	0130–5418	Bolt	58
14	0860–2033	Nut, Hex	9
15	A029X263	Shroud, Top Fan	1
16	A029X264	Shroud, Bottom Fan	1
17	A029X265	Nut	35
18	A029X266	Bracket	4
19	A047A292	Guard, Fan	1
20	A029X268	Guard, Fan	1
21	A047A291	Guard, Fan	1
22	A029X602	Guard, Fan	1
23	A029X603	Guard, Fan	1
24	A029X604	Guard, Fan	1
25	A029X605	Guard, Fan	1
26	A047A284	Guard, Fan	1
27	0130–5420	Bolt	12
28	A029M981	Nut	24
29	0821–6003–02	Screw, Hex Head	2
30	A029X272	Nut	14
31	A029X277	Panel, Mesh	2
32	A029X279	Guard, Fan (Not Shown)	1
33	A029X280	Guard, Fan (Not Shown)	1
34	A029X281	Tube, Radiator	2
35	A029X284	Tube, Radiator	1
36	A029X286	Tube, Fill	1

Radiator Service Parts

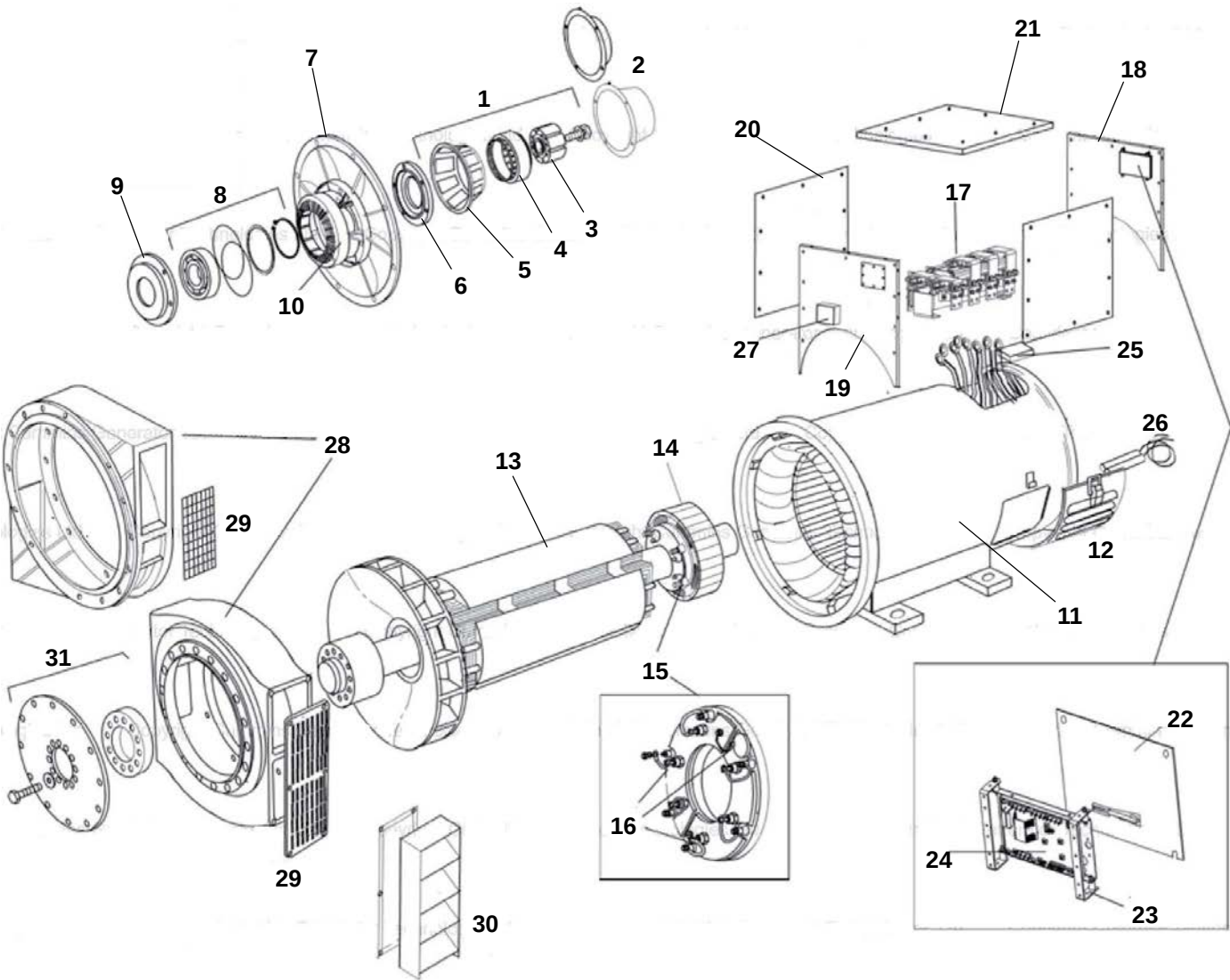
Item	Part No.	Description	Qty
37	A029X287	Hose, Vent	1
38	A029X288	Hose, Vent	1
39	A029X289	Washer	14
40	0504–0308	Valve, Ball	1
41	0505–2376	Fitting, Nipple	1
42	0503–2659	Hose, Clamp	4
43	A029X285	Clip	4
44	A047A302	Guard, Fan	1

Low Coolant Level Sensor



Item	Part No.	Description	Qty
1	A055G562	Sensor, Coolant	1
2		Harness, Sensor	
	A041X432	Up to Spec C	1
	A057M215	Begin Spec D	1
3		Tie, Cable	
	0332-1389	Up to Spc C	3
	A057J985	Begin Spec D	3

Generator
Generator – HC534 (1 Bearing, 4 Pole)



Generator – HC534 (1 Bearing, 4 Pole)

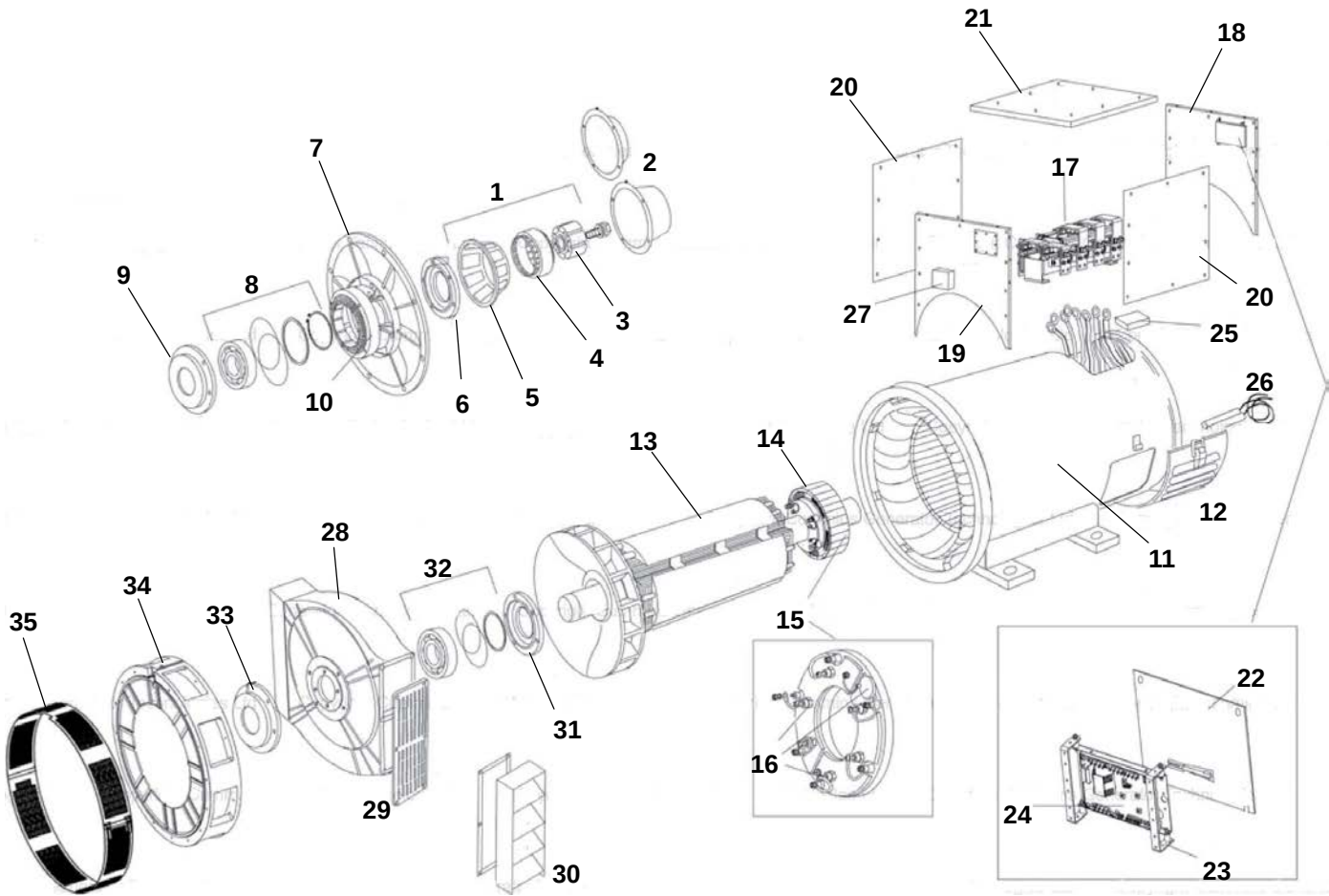
Item	Part No.	Description	Qty
1		Kit, Complete P.M.G. Upfit	
	45-0059A	To (29/09/00)	1
	45-0318A	From (29/09/00)	1
2		Cover	
	See Item 1	P.M.G. (Cover Included in Above Kit)	1
	410-10705	Non P.M.G. Cover	1
3	45-1082	Kit, Current P.M.G. Rotor/Stator Repair	1
4	45-1082	Kit, Current P.M.G. Rotor/Stator Repair	1
5	See Item 1	Crown, P.M.G. (If Fitted)	1
6	410-10268	Cap, N.D.E. Bearing (To 30/09/00)	1
7		Bracket, N.D.E.	
	520-10306	To 30/09/00	1
	520-10780	From 30/09/00	1
8		Kit, N.D.E. Bearing	
	45-0291	To 30/09/00	1
	45-0320	From 30/09/00	1
9		Cartridge, N.D.E. Bearing	
	458-12960	To 20/09/2000	1
	520-10811	From 20/09/2000	1
10		Stator, Exciter	
	410-1052	50mm	1
	520-20286	60mm	1
11	*	Frame, Main Stator – Assembly	1
12		Cover, N.D.E. Air Inlet	
	462-20100	Louvred	1
	520-10933	Industrial	1
13	*	Rotor, Main – Assembly	1
14		Rotor, Exciter	
	462-23400	50mm	1
	520-10305	60mm	1
15	450-16016	Rectifier, Rotating – Assembly	1
16	RSK-5001	Kit, Diode Fwd/Rev & Varistor	1
17	462-1020	Board, Main Terminal	1
18		N.D.E., Terminal Box Endpanel	
	520-10153	To 08/1998	1
	520-10534	To 19/09/1998	1
	520-10907	From 20/09/1998	1
		Continued...	

Generator – HC534 (1 Bearing, 4 Pole)

Item	Part No.	Description	Qty
		Continued...	
19		D.E., Terminal Box Endpanel	
	520-10181	To 08/1998	1
	520-10906	From 08/1998	1
20		Panel, Terminal Box Side	
	462-11880	To 08/1998	2
	520-10908	From 08/1998	2
21		Lid, Terminal Box	
	462-11840	To 08/1998	1
	520-10536	From 08/1998	1
22		Cover, A.V.R.	
	450-14310	Plate	1
	450-14310	Plate (Blanking)	1
23	45-0742	Bracket, A.V.R. Mounting	1
24		A.V.R.	
	E000-23412/1P	MX341 (Series 3)	1
	E000-24403/1P	AS440 (Series 4)	1
25	003-14027	Board, Auxiliary Terminal	2
26		Heater	
	45-0073	110-125 Volt	1
	45-0074	220-260 Volt	1
27	45-0024	Box, Terminal – For Heaters	1
28		Kit, D.E. Adaptor	
	45-0667	SAE 0	1
	45-0668	SAE 0.5	1
	45-0669	SAE 1	1
	45-0917	SAE 1 Round	1
	45-0666	SAE 00	1
29	See Item 28	Screen, D.E.	2
30		Louvre, D.E.	
	45-0655	SAE 0 & 0.5 & 1	1
	45-0654	SAE 00	1
31		Kit, Coupling	
	45-0780	SAE 14	1
	45-0781	SAE 18	1
	45-0783	SAE 17.75	1
	45-0782	SAE 24	1
		* – This part number depends on your machine serial number. Contact your reginal CPG technical support team.	

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Generator
Generator – HC534 (2 Bearing, 4 Pole)



Generator – HC534 (2 Bearing, 4 Pole)

Item	Part No.	Description	Qty
1		Kit, Complete P.M.G. Upfit	
	45-0060A	To (18/08/00)	1
	45-0328A	From (18/08/00)	1
2		Cover	
	See Item 1	P.M.G. (Cover Included in Above Kit)	1
	410-10705	Non P.M.G. Cover	1
3	45-1082	Kit, Current P.M.G. Rotor/Stator Repair	1
4	45-1082	Kit, Current P.M.G. Rotor/Stator Repair	1
5	See Item 1	Crown, P.M.G. (If Fitted)	1
6	410-10268	Cap, N.D.E. Bearing (To 30/09/00)	1
7		Bracket, N.D.E.	
	520-10306	To 30/09/00	1
	520-10780	From 30/09/00	1
8		Kit, N.D.E. Bearing	
	45-0291	To 30/09/00	1
	45-0320	From 30/09/00	1
9		Cartridge, N.D.E. Bearing	
	458-12960	To 20/09/2000	1
	520-10811	From 20/09/2000	1
10		Stator, Exciter	
	410-1052	50mm	1
	520-20286	60mm	1
11	*	Frame, Main Stator – Assembly	1
12		Cover, N.D.E. Air Inlet	
	462-20100	Louvred	1
	520-10933	Industrial	1
13	*	Rotor, Main – Assembly	1
14		Rotor, Exciter	
	462-23400	50mm	1
	520-10305	60mm	1
15	450-16016	Rectifier, Rotating – Assembly	1
16	RSK-5001	Kit, Diode Fwd/Rev & Varistor	1
17	462-1020	Board, Main Terminal	1
18		N.D.E., Terminal Box Endpanel	
	520-10153	To 08/1998	1
	520-10534	To 19/09/1998	1
	520-10907	From 20/09/1998	1
		Continued...	

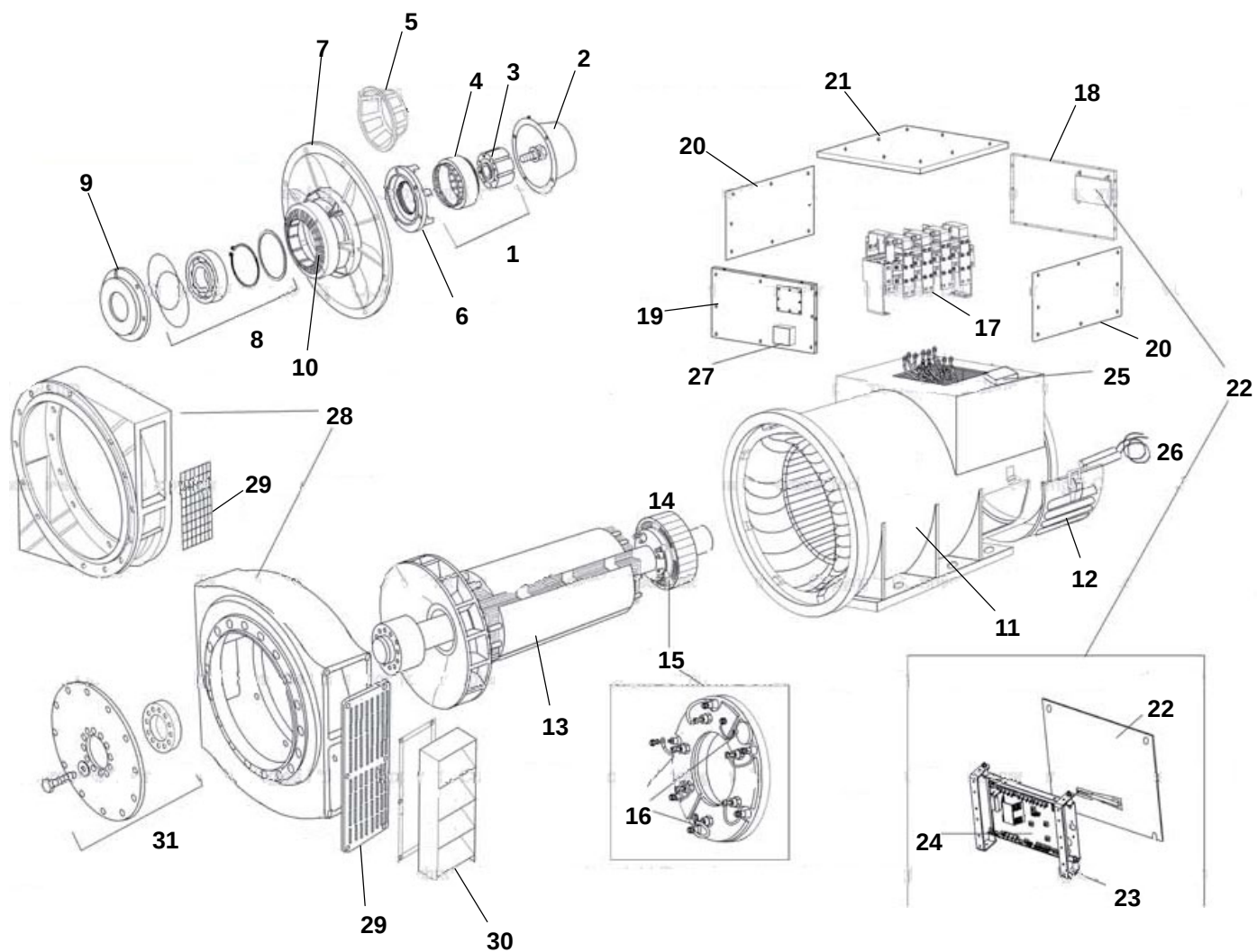
Generator – HC534 (2 Bearing, 4 Pole)

Item	Part No.	Description	Qty
		Continued...	
19		D.E., Terminal Box Endpanel	
	520-10181	To 08/1998	1
	520-10906	From 08/1998	1
20		Panel, Terminal Box Side	
	462-11880	To 08/1998	2
	520-10908	From 08/1998	2
21		Lid, Terminal Box	
	462-11840	To 08/1998	1
	520-10536	From 08/1998	1
22		Cover, A.V.R.	
	450-14310	Plate	1
	450-14310	Plate (Blanking)	1
23	45-0742	Bracket, A.V.R. Mounting	1
24		A.V.R.	
	E000-23412/1P	MX341 (Series 3)	1
	E000-24403/1P	AS440 (Series 4)	1
25	003-14027	Board, Auxiliary Terminal	2
26		Heater	
	45-0073	110-125 Volt	1
	45-0074	220-260 Volt	1
27	45-0024	Box, Terminal – For Heaters	1
28		Bracket, D.E.	
	462-11170	To 29/09/2000	1
	520-10557	From 29/09/2000	1
29	462-10260	Screen, D.E. Bracket	2
30	520-10070	Louvre, D.E.	2
31		Cartridge, D.E. Bearing	
	462-10130	To 30/09/2000	1
	520-10776	From 30/09/2000	1
32		Kit, D.E. Bearing	
	45-0292	To 30/09/2000	1
	45-0321	From 30/09/2000	1
33		Cap, D.E. Bearing – Outer	
	520-10333	To 30/09/2000	1
	520-10778	From 30/09/2000	1
34		Kit, 2 Brg Adapter	
	45-0679	SAE 0	1
	45-0680	SAE 0.5	1
	45-0681	SAE 1	1
	45-0678	SAE 00	1
35	See Item 34	Screen, D.E. Cover (Included in Kits)	1
		NOTE: Regrease Option is not Retrofittable	
		* – This part number depends on your machine serial number. Contact your reginal CPG technical support team.	

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Generator

Generator – HC634 (1 Bearing, 4 Pole)



Generator – HC634 (1 Bearing, 4 Pole)

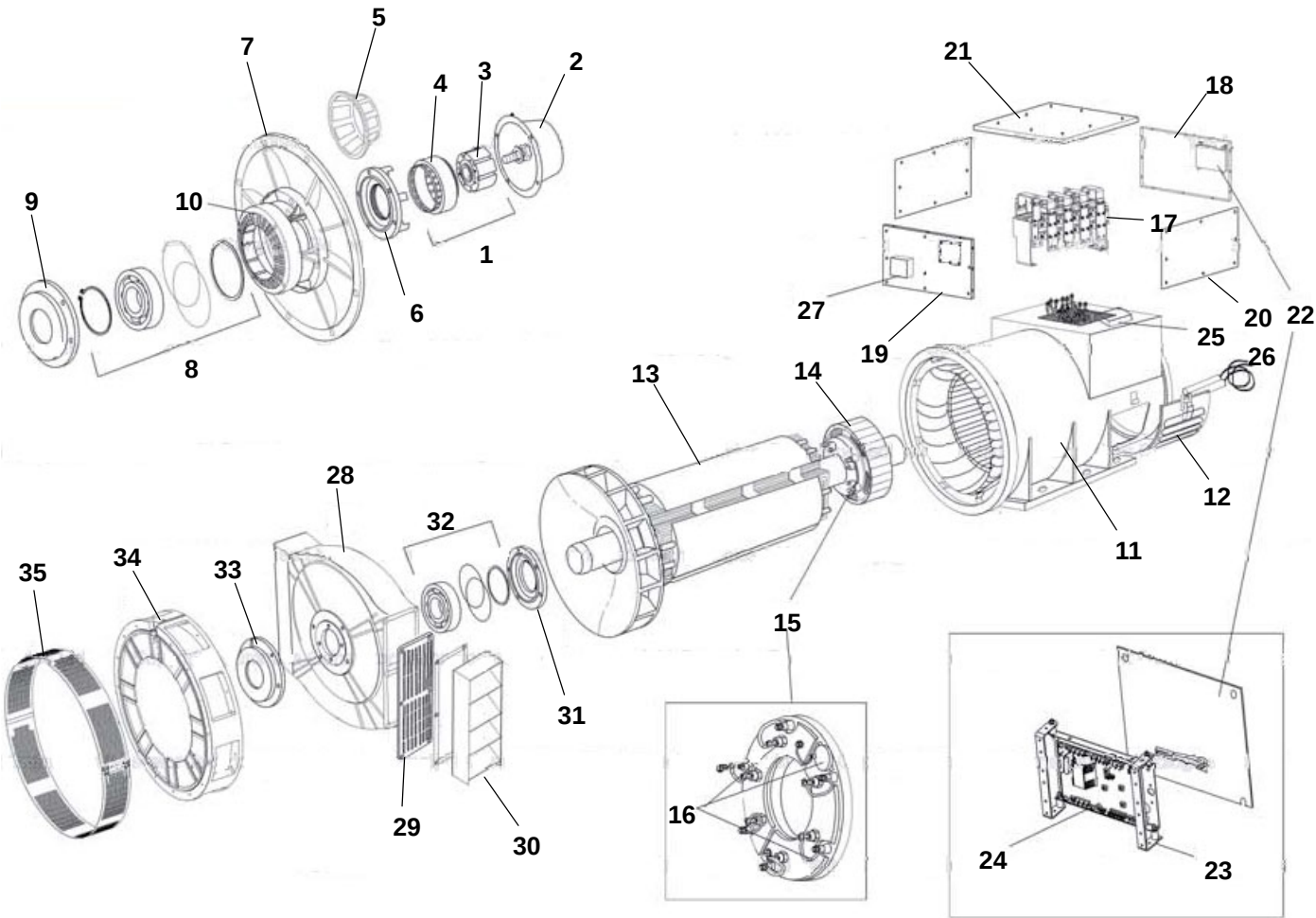
Item	Part No.	Description	Qty
1		Kit, Complete P.M.G. Upfit	
	45-0060A	To (01/05/01)	1
	45-0341A	From (01/05/01)	1
2	760-10562	Cover, P.M.G. (Cover Included in Kit)	1
3	45-1082	Kit, Current P.M.G. Rotor/Stator Repair	1
4	45-1082	Kit, Current P.M.G. Rotor/Stator Repair	1
5	See Item 1	Crown, P.M.G. (If Fitted)	1
6		Cap, N.D.E. Bearing	
	660-10071	To (25/04/98)	1
	660-10864	From (25/04/98)	1
7		Bracket, N.D.E.	
	660-10064	To (25/04/98)	1
	660-10860	From (25/04/98)	1
8		Kit, N.D.E. Bearing	
	45-0297	To (25/04/98)	1
	45-0340	From (25/04/98)	1
9		Cartridge, N.D.E. Bearing	
	462-12920	To (25/04/98)	1
	660-10862	From (25/04/98)	1
10	366-40800	Stator, Exciter – 75mm	1
11	*	Frame, Main Stator – Assembly	1
12		Cover, N.D.E. Air Inlet	
	660-11565	Industrial	1
	464-31600	Marine	1
13	*	Rotor, Main – Assembly	1
14	660-1010	Rotor, Exciter – 75mm	1
15	450-16025	Rectifier, Rotating – Assembly	1
16	RSK-6001	Kit, Diode Fwd/Rev & Varistor	1
17	660-1005	Board, Main Terminal	1
18	660-10653	Endpanel, Terminal Box – N.D.E.	1
19	660-10652	Endpanel, Terminal Box – D.E.	1
20	660-10650	Panel, Terminal Box Side	2
21	660-10651	Lid, Terminal Box	1
22		Plate, A.V.R. Cover	
	450-15254	Access	1
	450-14310	Blanking	1
		Continued...	

Generator – HC634 (1 Bearing, 4 Pole)

Item	Part No.	Description	Qty
		Continued...	
23	45-0742	Bracket, A.V.R. Mounting	1
24		A.V.R.	
	E000-23412/1P	MX341 (Series 3)	1
	E000-23212/1P	MX321	1
25	003-14046	Board, Auxiliary Terminal	2
26		Heater	
	45-0073	110-125 Volt	1
	45-0074	220-260 Volt	1
27	45-0024	Box, Terminal – For Heaters	1
28		Kit, D.E. Adaptor	
	45-0943	SAE 0	1
	45-0944	SAE 0.5	1
	45-0937	SAE 1	1
	45-0945	SAE 0 Round	1
	45-0942	SAE 00	1
29	See Item 28	Screen, D.E. (Included in Adapter Kit)	2
30		Louvre, D.E.	
	45-0658	SAE 0 & 0.5 & 1	1
	45-0657	SAE 00	1
31		Kit, Coupling	
	45-0788	SAE 14	1
	45-0789	SAE 18	1
	45-0791	SAE 17.75	1
	45-0790	SAE 21	1
		* – This part number depends on your machine serial number. Contact your reginal CPG technical support team.	

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Generator
Generator – HC634 (2 Bearing, 4 Pole)



Generator – HC634 (2 Bearing, 4 Pole)

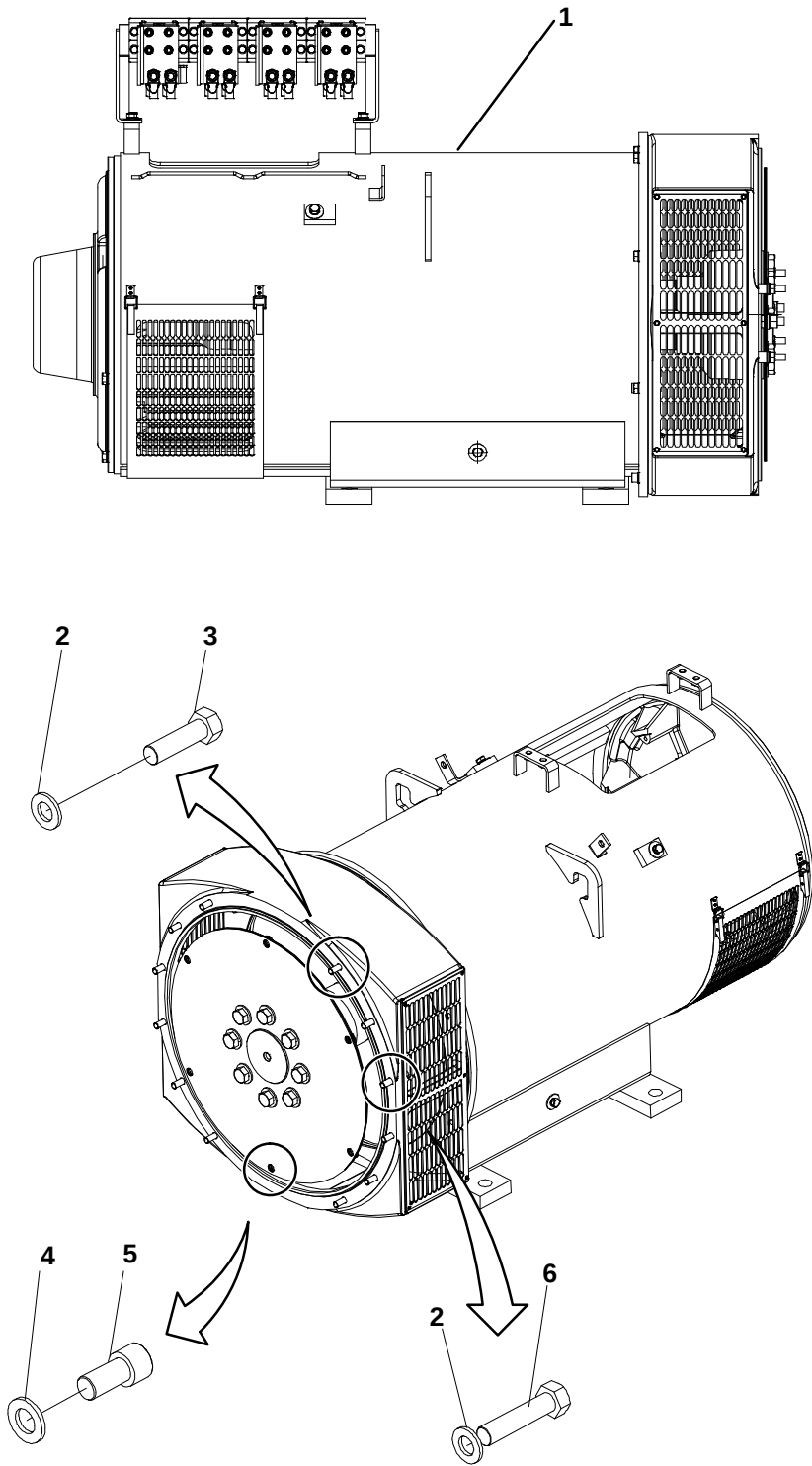
Item	Part No.	Description	Qty
1		Kit, Complete P.M.G. Upfit	
	45-0060A	To (01/05/01)	1
	45-0341A	From (01/05/01)	1
2	760-10562	Cover, P.M.G. (Cover Included in Kit)	1
3	45-1082	Kit, Current P.M.G. Rotor/Stator Repair	1
4	45-1082	Kit, Current P.M.G. Rotor/Stator Repair	1
5	See Item 1	Crown, P.M.G. (If Fitted)	1
6		Cap, N.D.E. Bearing	
	660-10071	To (25/04/98)	1
	660-10864	From (25/04/98)	1
7		Bracket, N.D.E.	
	660-10064	To (25/04/98)	1
	660-10860	From (25/04/98)	1
8		Kit, N.D.E. Bearing	
	45-0295	To (25/04/98)	1
	45-0340	From (25/04/98)	1
9		Cartridge, N.D.E. Bearing	
	462-12920	To (25/04/98)	1
	660-10862	From (25/04/98)	1
10	366-40800	Stator, Exciter – 75mm	1
11	*	Frame, Main Stator – Assembly	1
12		Cover, N.D.E. Air Inlet	
	660-11565	Industrial	1
	464-31600	Marine	1
13	*	Rotor, Main – Assembly	1
14	660-1010	Rotor, Exciter – 75mm	1
15	450-16025	Rectifier, Rotating – Assembly	1
16	RSK-6001	Kit, Diode Fwd/Rev & Varistor	1
17	660-1005	Board, Main Terminal	1
18	660-10653	Endpanel, Terminal Box – N.D.E.	1
19	660-10652	Endpanel, Terminal Box – D.E.	1
20	660-10650	Panel, Terminal Box Side	2
21	660-10651	Lid, Terminal Box	1
22		Plate, A.V.R. Cover	
	450-15254	Access	1
	450-14310	Blanking	1
		Continued...	

Generator – HC634 (2 Bearing, 4 Pole)

Item	Part No.	Description	Qty
		Continued...	
23	45-0742	Bracket, A.V.R. Mounting	1
24		A.V.R.	
	E000-23412/1P	MX341 (Series 3)	1
	E000-23212/1P	MX321	1
25	003-14046	Board, Auxiliary Terminal	2
26		Heater	
	45-0073	110-125 Volt	1
	45-0074	220-260 Volt	1
27	45-0024	Box, Terminal – For Heaters	1
28		Bracket, D.E.	
	464-15639	To (25/04/98)	1
	660-10868	From (25/04/98)	1
29	464-15650	Screen, D.E. Bracket	2
30	45-0659	Louvre, D.E.	2
31		Cartridge, D.E. Bearing	
	464-15090	To (25/04/98)	1
	660-10870	From (25/04/98)	1
32		Kit, D.E. Bearing	
	45-0294	To (25/04/98)	1
	45-0339	From (25/04/98)	1
33		Cap, D.E. Bearing – Outer	
	660-10074	To (25/04/98)	1
	660-10872	From (25/04/98)	1
34		Kit, 2 Brg Adapter	
	45-0683	SAE 0	1
	45-0682	SAE 00	1
35	See Item 34	Screen, D.E. Adapter (Included in Kits)	1
		* – This part number depends on your machine serial number. Contact your regional CPG technical support team.	

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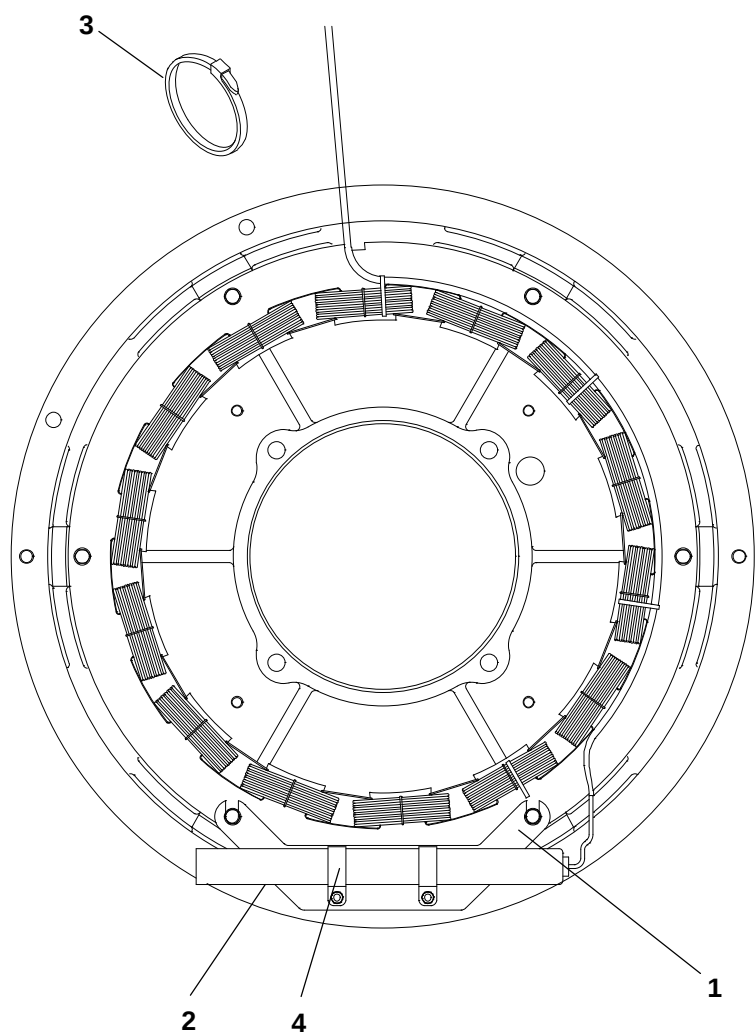
Generator – S5



Generator – S5

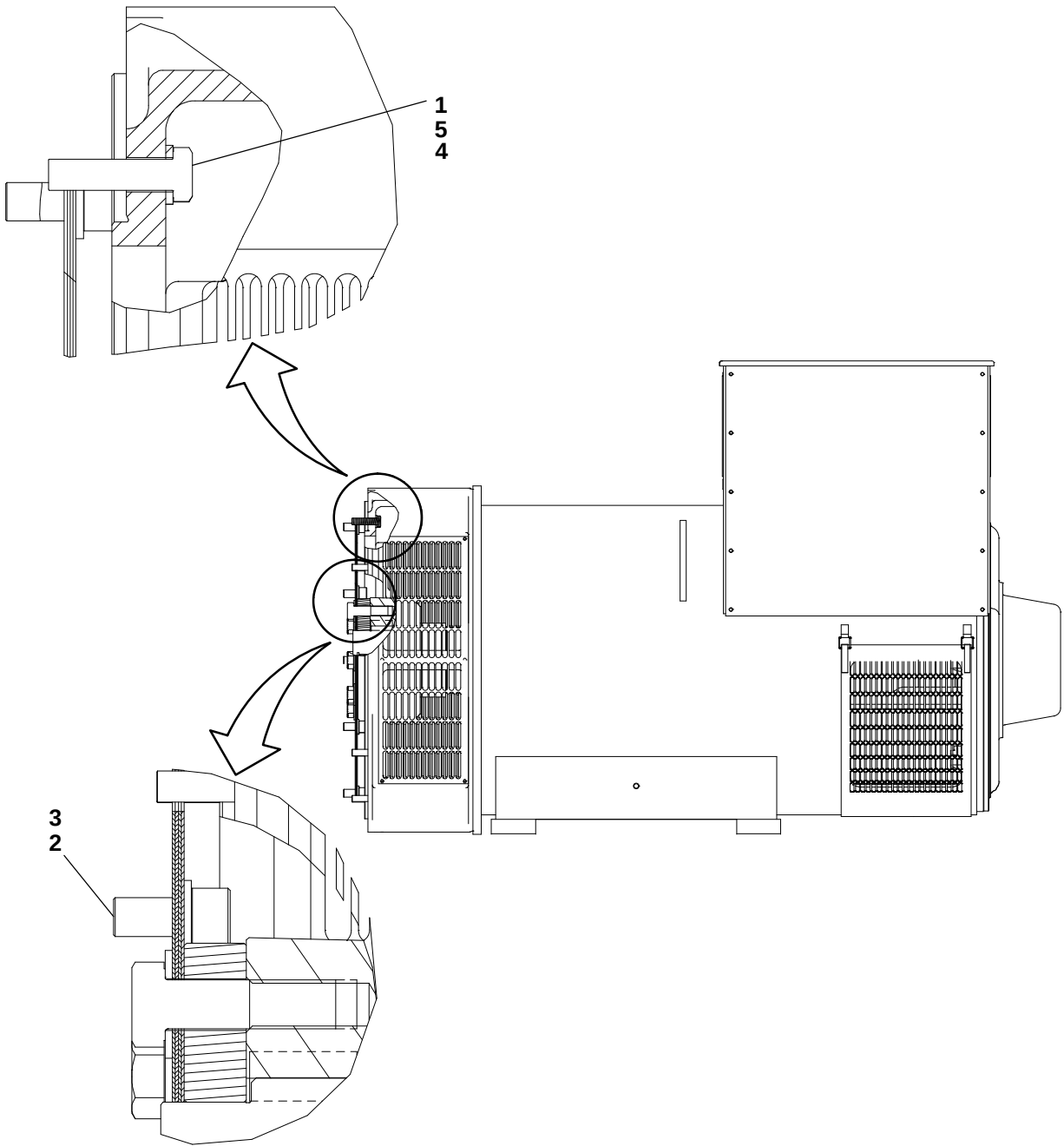
Item	Part No.	Description	Qty
1		Alternator (S5)	
	A073P314	S5L1S-F WD 311 (400V, 50Hz)	1
	A073N928	S5L1S-F WD 14 (380V, 60Hz)	1
2	C041-0006	Washer, Flat	12
3	C370-0044-06	Screw, Hex Head	8
4	C041-0008	Washer, Flat	6
5	C370-0059-02	Screw, Socket Head	6
6	C370-0044-08	Screw, Hex Head	4

Generator Heater



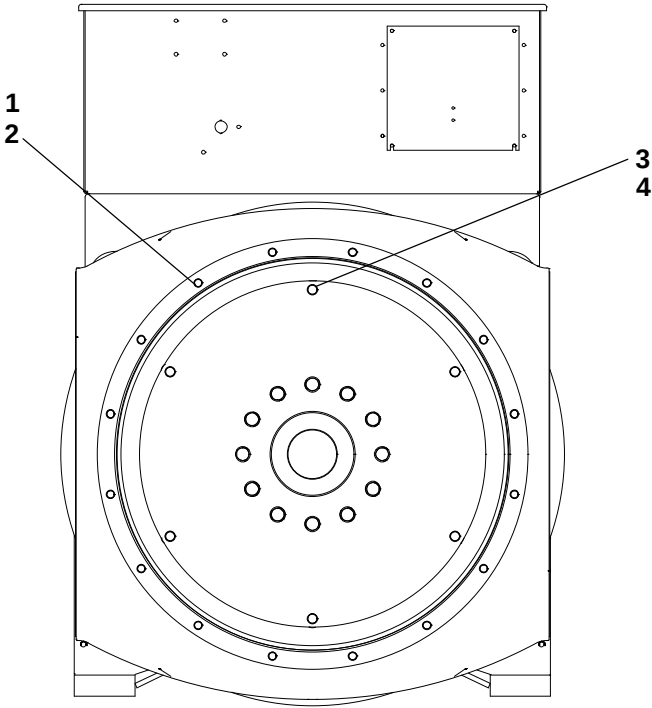
Item	Part No.	Description	Qty
1	0232-3849	Bracket, Heater	1
2	45-0074	Kit, Generator Heater Spares	1
3		Tie, Cable	
	0332-0941	Up to Spec C	2
	A057G720	Begin Spec D	2
4	0332-3024-14	Clamp, Loop	2

Generator Fastener – HC5



Item	Part No.	Description	Qty
1	0526-0399-64	Washer, Flat	12
2	0526-0399-66	Washer, Flat	6
3	0802-2552-01	Screw	6
4	0800-0095	Screw, Hex Head	4
5	A028U158	Screw, Hex Head	8

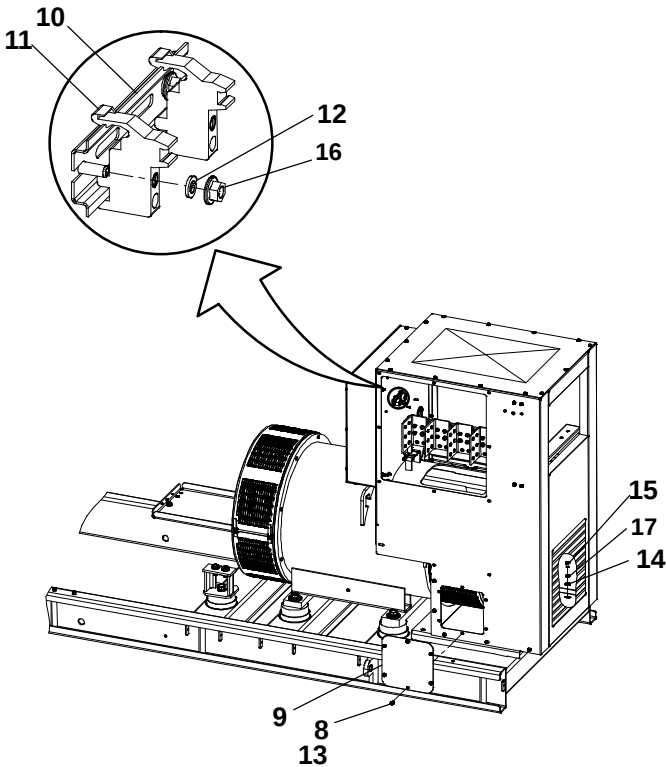
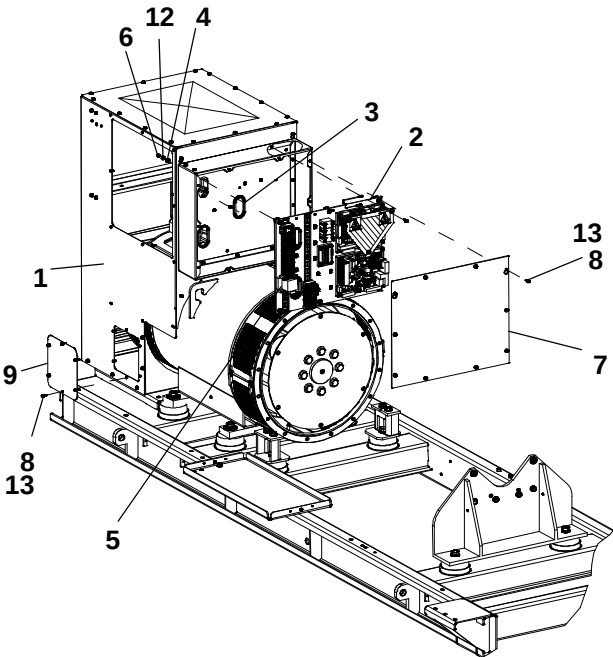
Generator Fastener – HC6



Item	Part No.	Description	Qty
1	0526-0399-64	Washer, Flat	16
2	0800-0094	Screw, Hex Head	16
3	0526-0399-66	Washer, Flat	6
4	0802-2552-01	Screw	6

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Terminal Box
End Mounted Control – HC5

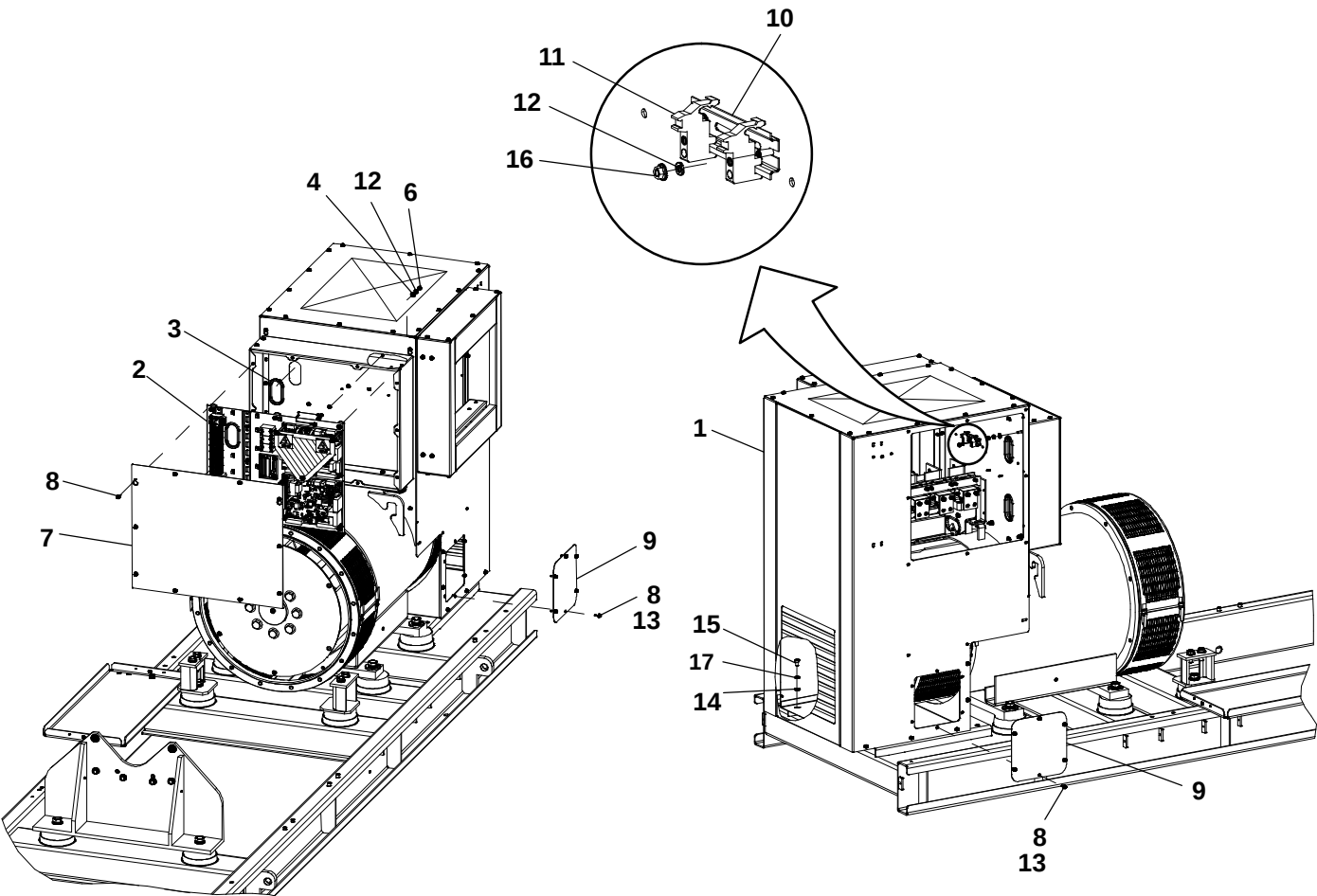


Terminal Box

End Mounted Control – HC5

Item	Part No.	Description	Qty
1	A040S352	Box, Terminal	1
2		Control (See Page 89 for Components)	
	A046Z809	Up to Spec C	1
	A057M779	Begin Spec D	1
3	A047U210	Grommet	2
4	C041-0004	Washer, Flat	6
5	0508-1090	Grommet	1
6	C380-0019	Nut, Hex	6
7	A041B516	Cover, Control Box	1
8	C370-0027-03	Screw, Hex Head	22
9	A040T841	Cover, Control	2
10	0332-2879-07	Rail, Terminal	1
11	0332-4145	Rail, Terminal Block	2
12	C031-0005	Washer, Lock	6
13	C041-0002	Washer, Flat	24
14	C031-0006	Washer, Lock	4
15	C370-0030-01	Screw, Hex Head	4
16	C370-0027-01	Screw, Hex Head	2
17	C041-0005	Washer, Flat	4

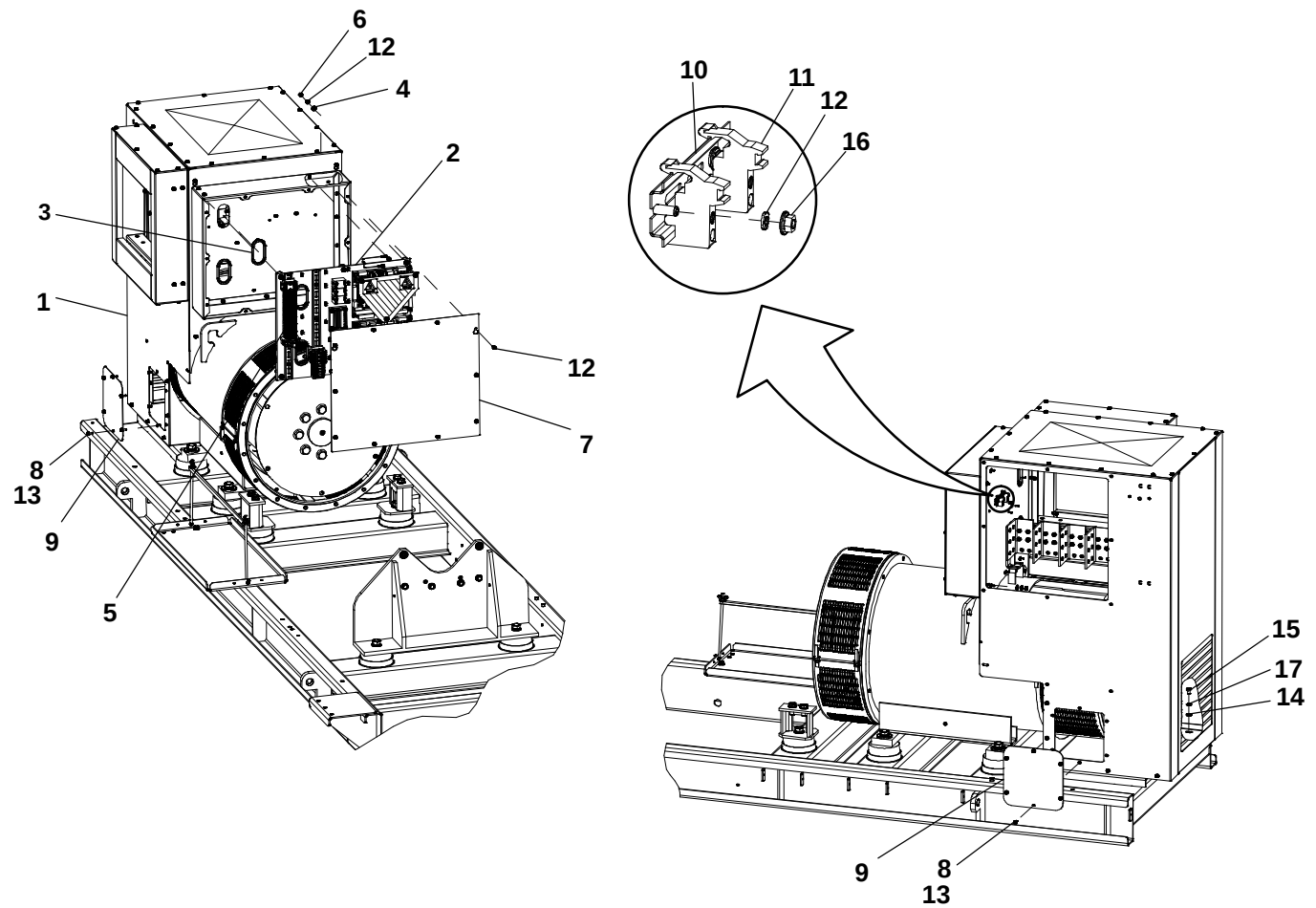
Terminal Box – Left Side Mounted Control – HC5



Terminal Box – Left Side Mounted Control – HC5

Item	Part No.	Description	Qty
1	A040S869	Box, Terminal	1
2	A035R250	Control (See Page 89 for Components)	1
3	A047U210	Grommet	2
4	C041-0004	Washer, Lock	6
5	0508-1090	Grommet	1
6	C380-0019	Nut, Hex	6
7	A041B516	Cover, Control Box	1
8	C370-0027-03	Screw, Hex Head	22
9	A040T841	Cover, Control	2
10	0332-2879-07	Rail, Terminal	6
11	0332-4145	Rail, Terminal Block	24
12	C031-0005	Washer, Lock	4
13	C041-0002	Washer, Flat	6
14	C031-0006	Washer, Lock	4
15	C370-0030-01	Screw, Hex Head	4
16	C370-0027-01	Screw, Hex Head	2
17	C041-0005	Washer, Flat	4

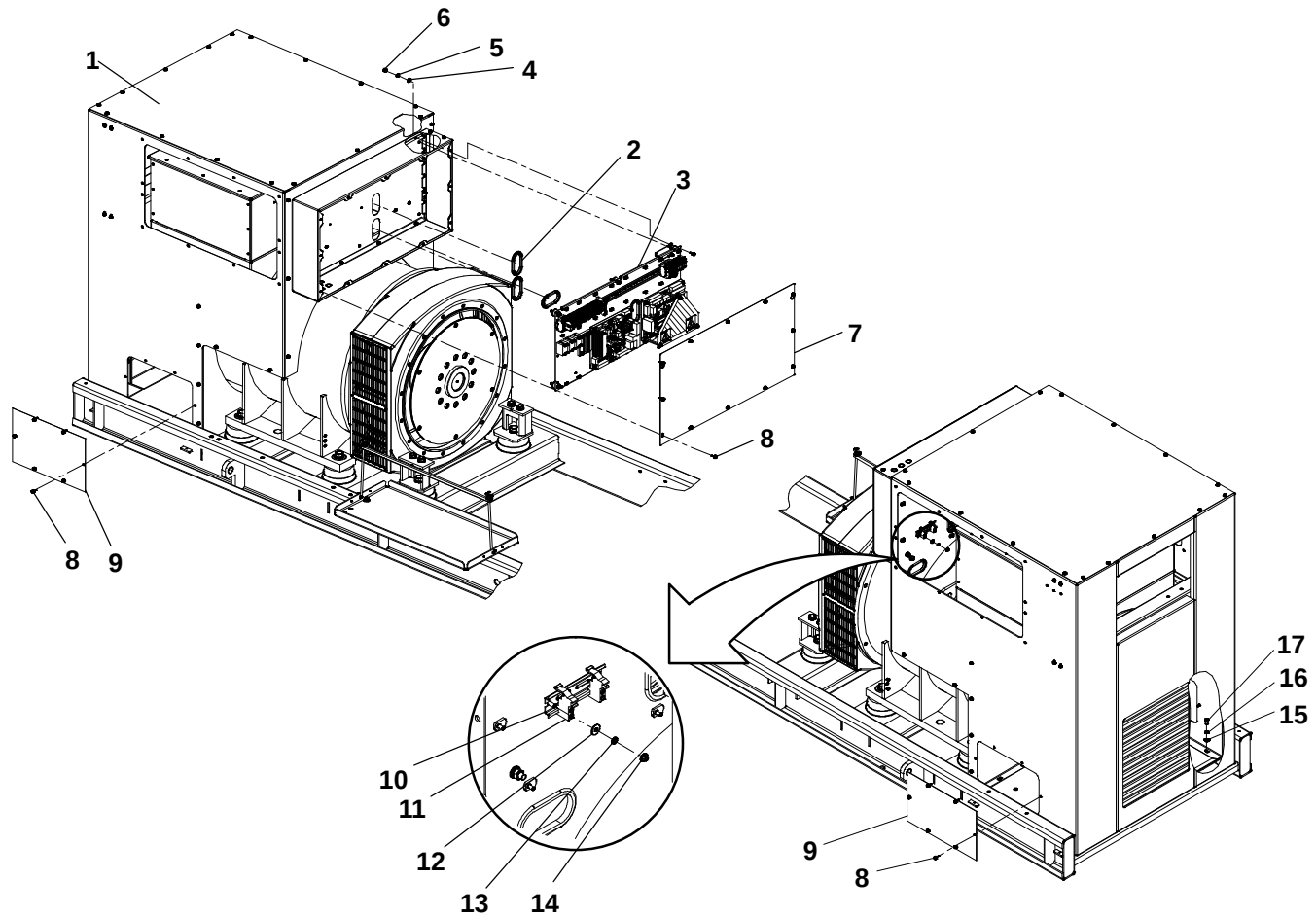
Terminal Box – Right Side Mounted Control – HC5



Terminal Box – Right Side Mounted Control – HC5

Item	Part No.	Description	Qty
1	A040S827	Box, Terminal	1
2		Control (See Page 89 for Components)	
	A035R250	Up to Spec C	1
	A057M781	Begin Spec D	1
3	A047U210	Grommet	2
4	C041-0004	Washer, Flat	6
5	0508-1090	Grommet	1
6	C380-0019	Washer, Lock	6
7	A041B516	Cover, Control Box	1
8	C370-0027-03	Screw, Hex Head	22
9	A040T841	Cover, Control	2
10	0332-2879-07	Rail, Terminal	1
11	0332-4145	Rail, Terminal Block	2
12	C031-0005	Washer, Lock	6
13	C041-0002	Washer, Flat	24
14	C031-0006	Washer, Lock	4
15	C370-0030-01	Screw, Hex Head	4
16	C370-0027-01	Screw, Hex Head	2
17	C041-0005	Washer, Flat	4

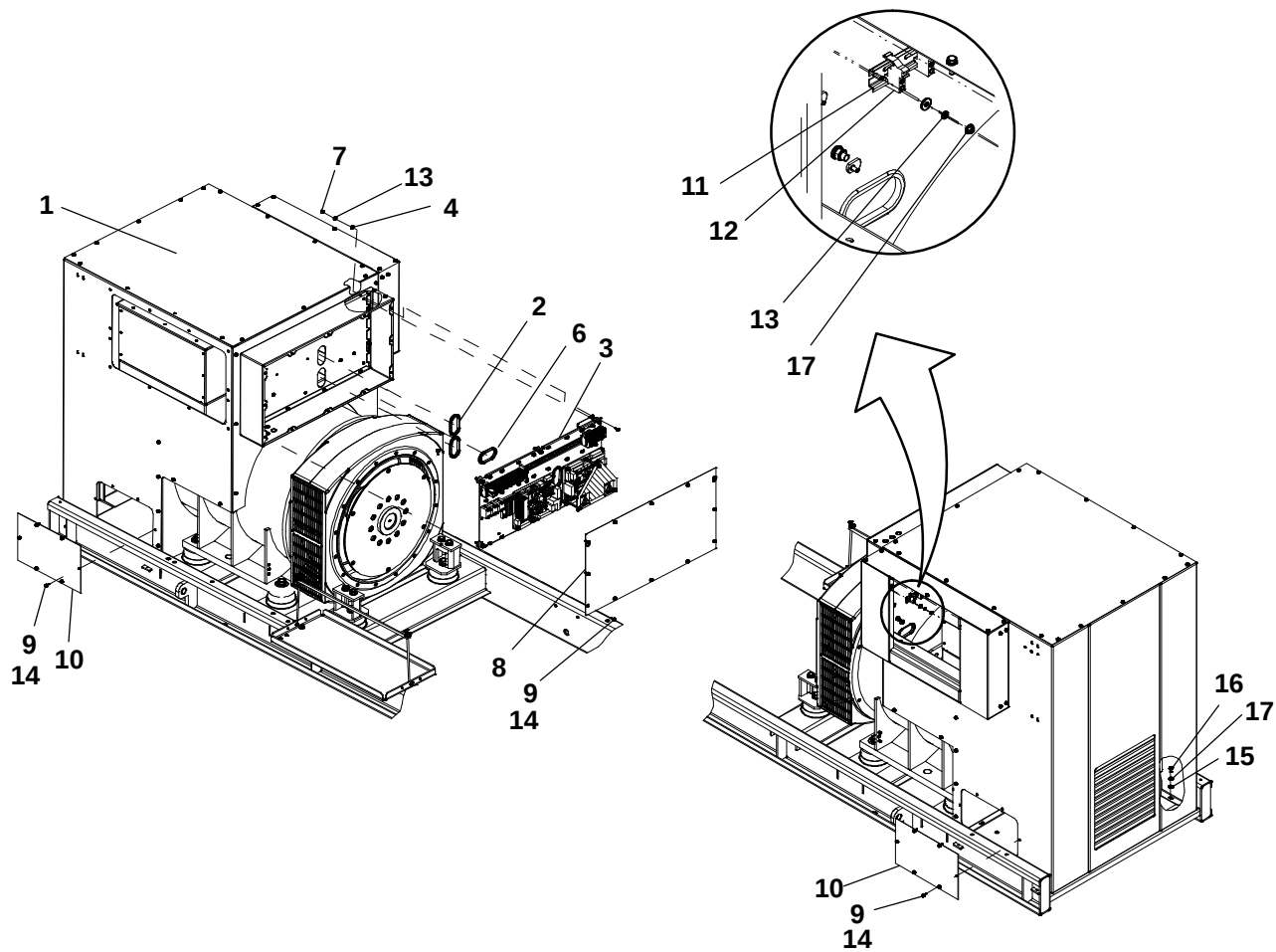
Terminal Box End Mounted Control – HC6



Item	Part No.	Description	Qty
1	A040P064	Box, Terminal	1
2	0508-1090	Grommet	3
3	A040M921	Control (See Page 93 for Components)	1
4	0526-2100	Washer, Flat	6
5	0850-2058	Washer, Lock	6
6	0862-0026-55	Nut, Hex	6
7	A040A928	Cover, Control Box	1
8	0821-6002-03	Screw, Hex Head	24
9	0811712	Cover, Lower Housing Side	2
10	0332-2879-07	Rail, Terminal	1
11	0332-4145	Rail, Terminal Block	2
12	0526-0399-57	Washer, Flat	2
13	0850-0114-52	Washer, Lock	2
14	0166-0771	Nut, Flange Hex	2
15	0526-0399-62	Washer, Flat	6
16	0850-0114-55	Washer, Lock	6
17	0800-3017-35	Screw, Hex Head	6

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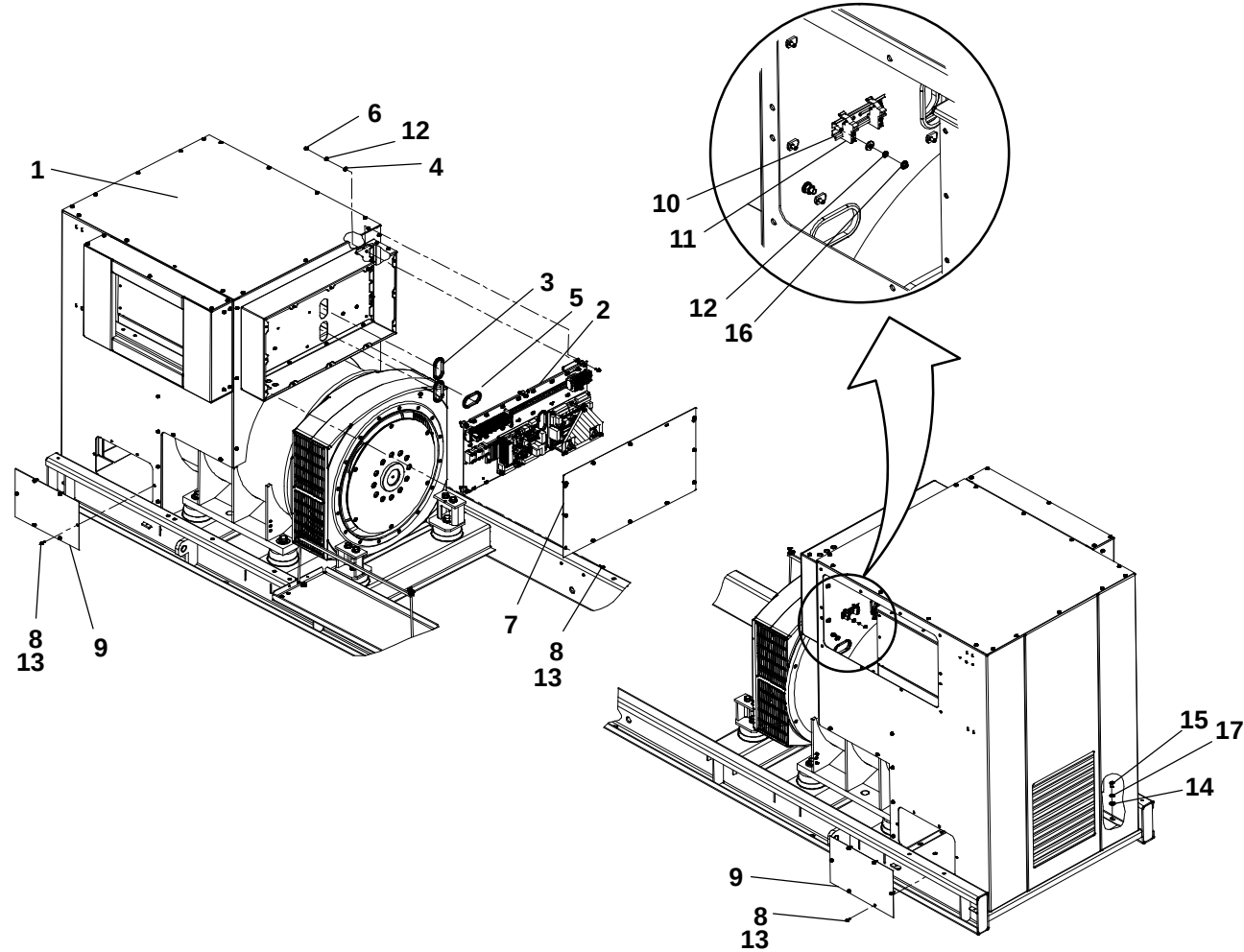
Terminal Box – Left Side Mounted Control – HC6



Terminal Box – Left Side Mounted Control – HC6

Item	Part No.	Description	Qty
1	A040N572	Box, Terminal	1
2	A040M921	Control (See Page 93 for Components)	1
3	A047U210	Grommet	2
4	C041-0004	Washer, Flat	6
5	0508-1090	Grommet	1
6	C380-0019	Nut, Hex	6
7	A041B516	Cover, Control Box	1
8	C370-0027-03	Screw, Hex Head	22
9	A040T841	Cover, Control	2
10	0332-2879-07	Rail, Terminal	1
11	0332-4145	Rail, Terminal Block	2
12	C031-0005	Washer, Lock	6
13	C041-0002	Washer, Flat	24
14	C031-0006	Washer, Lock	4
15	C370-0030-01	Screw, Hex Head	4
16	C370-0027-01	Screw, Hex Head	2
17	C041-0005	Washer, Flat	4

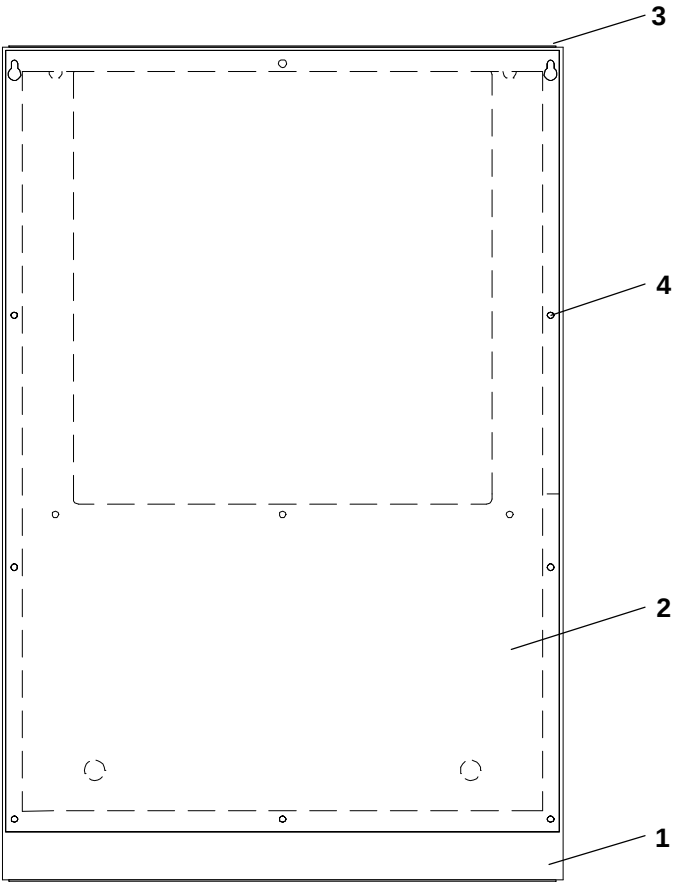
Terminal Box – Right Side Mounted Control – HC6



Terminal Box – Right Side Mounted Control – HC6

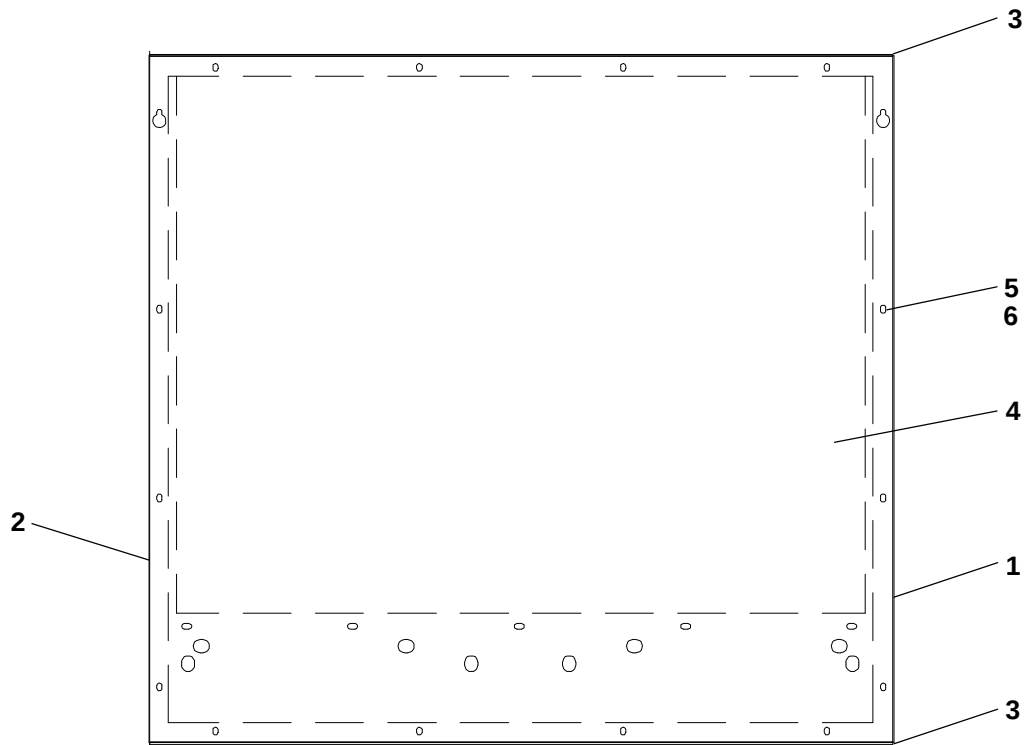
Item	Part No.	Description	Qty
1	A040N910	Box, Terminal	1
2	A040M921	Control (See Page 93 for Components)	1
3	A047U210	Grommet	2
4	C041-0004	Washer, Flat	6
5	0508-1090	Grommet	1
6	C380-0019	Nut, Hex	6
7	A041B516	Cover, Control Box	1
8	C370-0027-03	Screw, Hex Head	22
9	A040T841	Cover, Control	2
10	0332-2879-07	Rail, Terminal	1
11	0332-4145	Rail, Terminal Block	2
12	C031-0005	Washer, Lock	6
13	C041-0002	Washer, Flat	24
14	C031-0006	Washer, Lock	4
15	C370-0030-01	Screw, Hex Head	4
16	C370-0027-01	Screw, Hex Head	2
17	C041-0005	Washer, Flat	4

Entrance Box – HC5



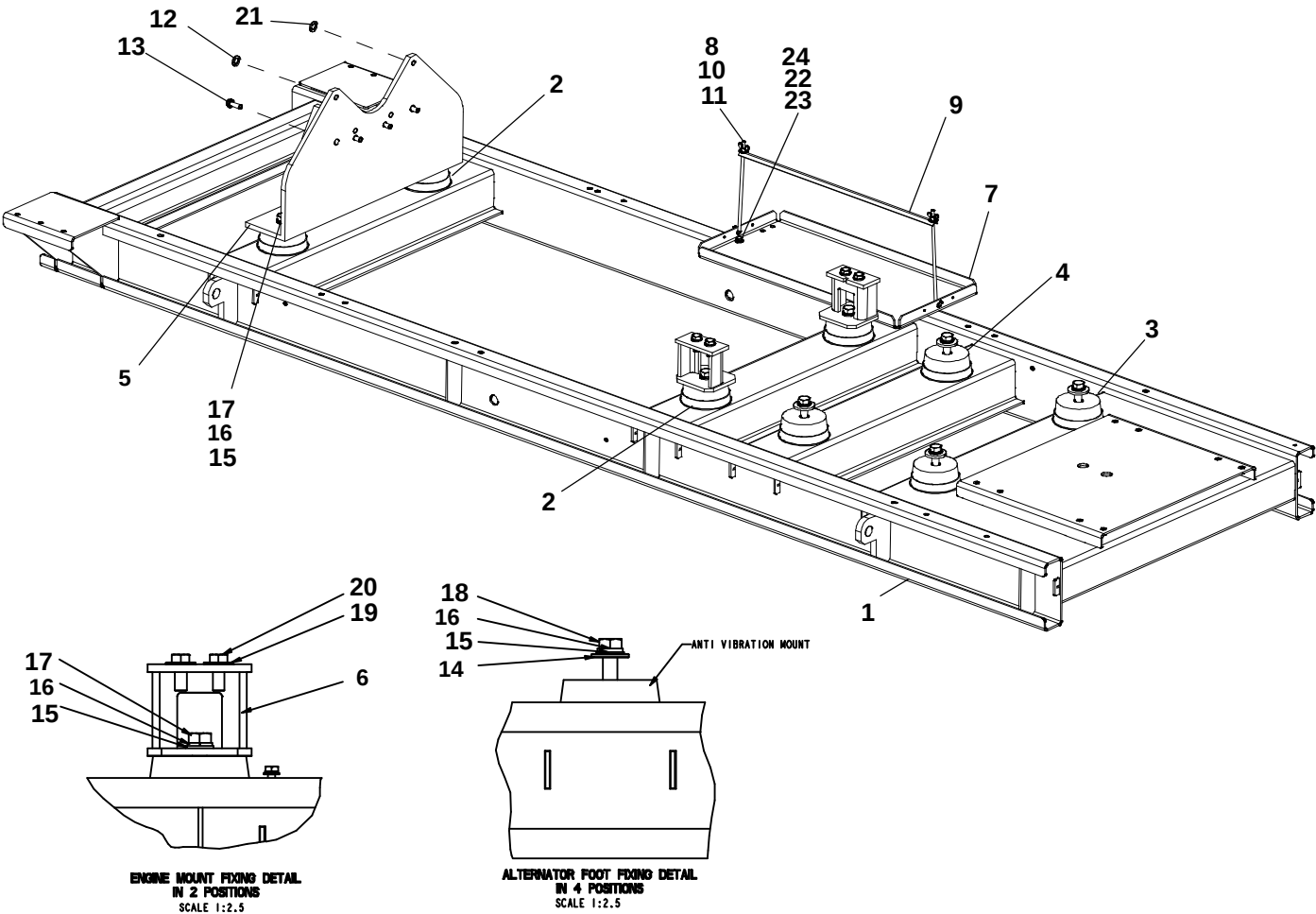
Item	Part No.	Description	Qty
1	0319-4822	Box, Circuit Breaker	1
2	0319-4825	Cover, Entrance Box	1
3	0319-4824	Plate, Gland	2
4	0821-6002-03	Screw, Hex Head	33
	0337-3587-01	Lead, Earth	2

Entrance Box – HC6



Item	Part No.	Description	Qty
1	0319-4883-02	Box, Circuit Breaker	1
2	0319-4884-02	Box, Circuit Breaker	1
3	0319-4889	Cover, Box	1
4	0319-4887	Plate, Gland	2
5	0800-3017-03	Screw, Hex Head	46
6	0526-0399-59	Washer, Flat	46

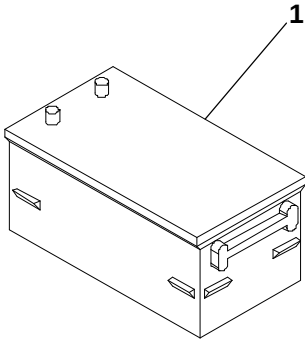
Skid



Skid

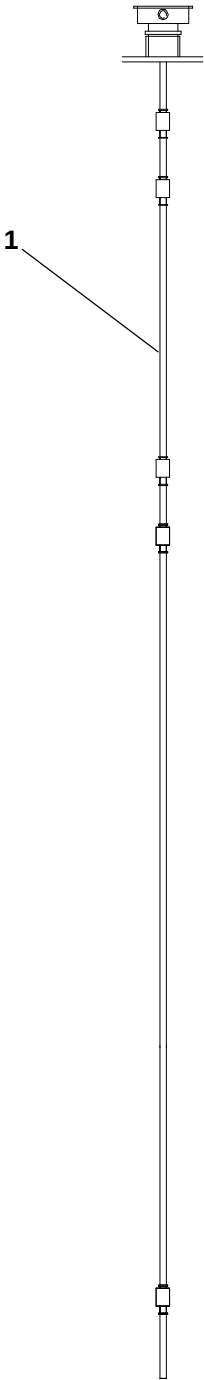
Item	Part No.	Description	Qty
1	A050A701	Chassis	1
2	0402-0897	Isolator, Vibration	4
3	0402-0898	Isolator, Vibration	2
4	0402-0899	Isolator, Vibration	2
5	0323-4166	Bracket, Mounting Foot	1
6	0403-6172	Mount, Engine	2
7	A050A703	Tray, Battery	1
8	0416-1198	Rod, Battery Hold Down	2
9	A050B004	Clamp, Battery	1
10	0865-0031	Nut, Wing	2
11	C041-0004	Washer, Flat	2
12	C041-0016	Washer, Lock	4
13	C370-0044-05	Screw, Hex Head	4
14	C041-0020	Washer, Flat	4
15	C041-0010	Washer, Flat	8
16	C031-0011	Washer, Spring Lock	8
17	C370-0035-02	Screw, Hex Head	4
18	C370-0035-07	Screw, Hex Head	4
19	C041-0077	Washer, Flat	4
20	C370-0045-03	Screw, Hex Head	4
21	C041-0008	Washer, Flat	2
22	C041-0005	Washer, Flat	2
23	C031-0006	Washer, Spring Lock	2
24	C370-0030-04	Screw, Hex Head	2

Battery



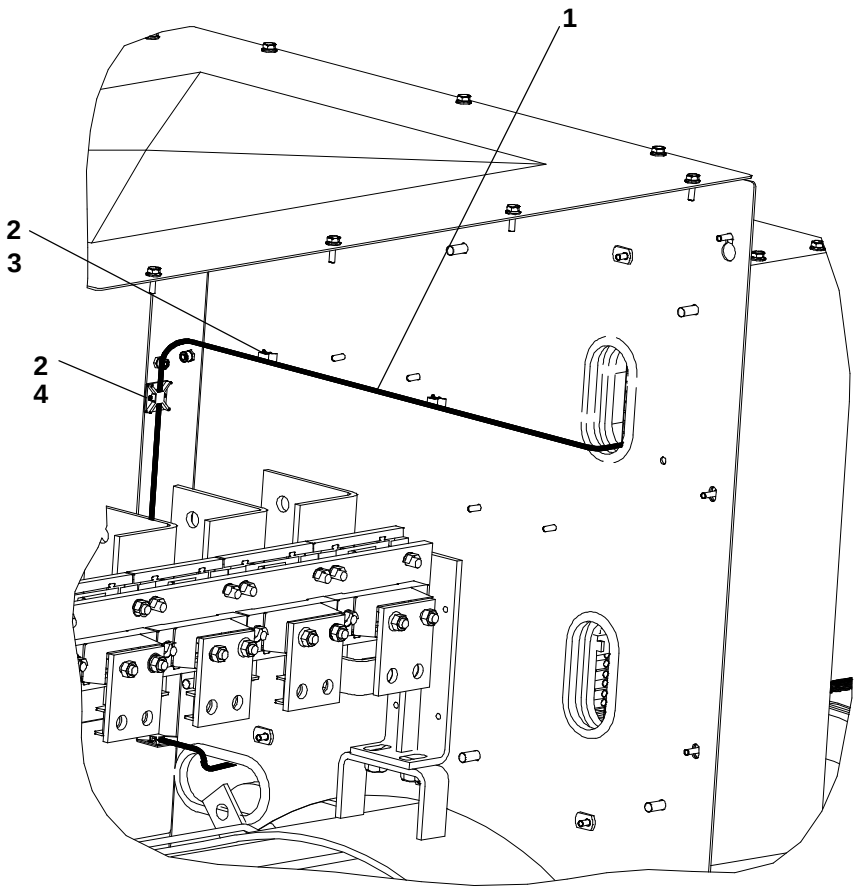
Item	Part No.	Description	Qty
1	C250-0006	Battery – Dry	4

Level Switch



Item	Part No.	Description	Qty
1	0309-0709	Switch, Level – 500L Tank	1

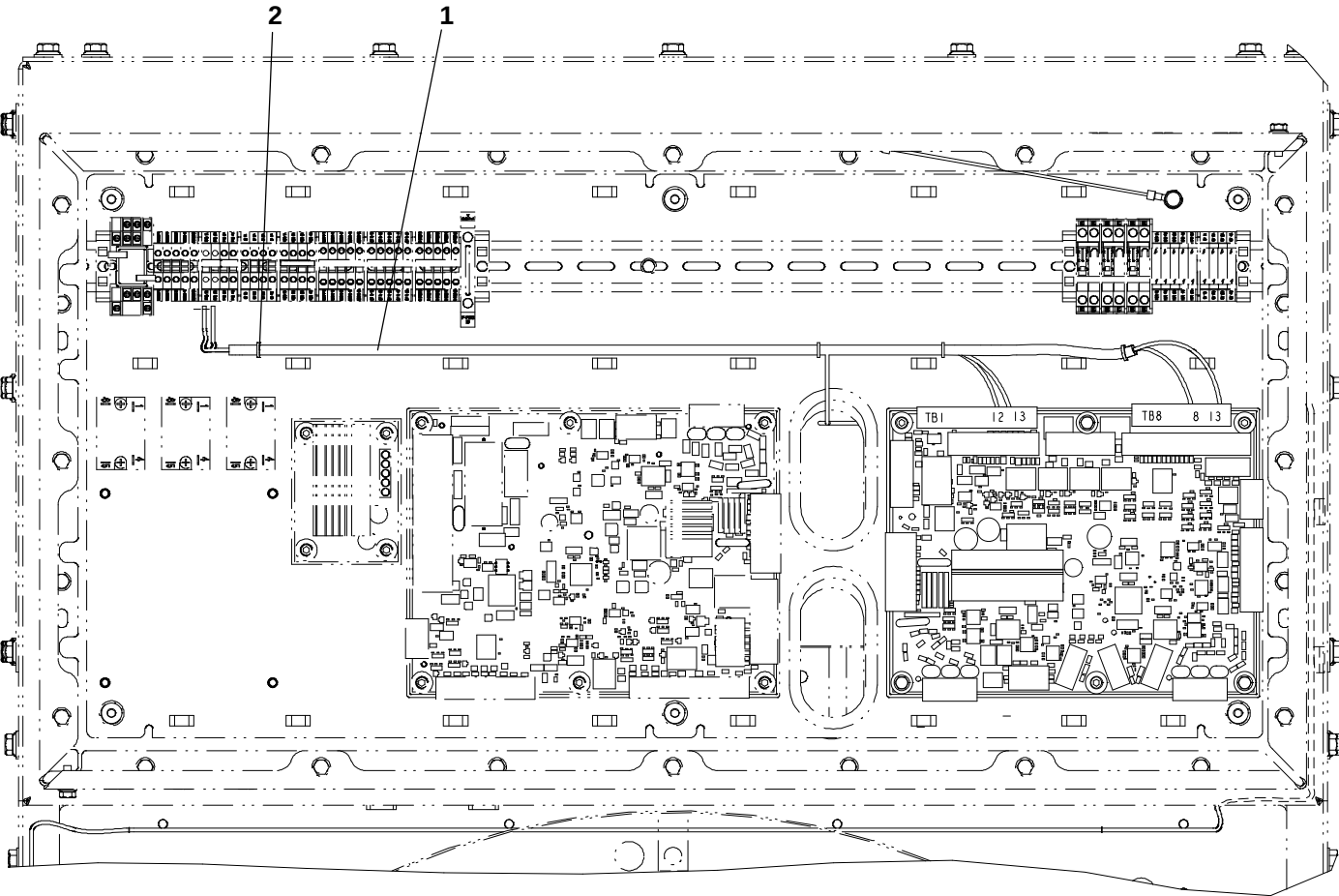
Fuel Level Harness – HC5



Wire Routing in GCB

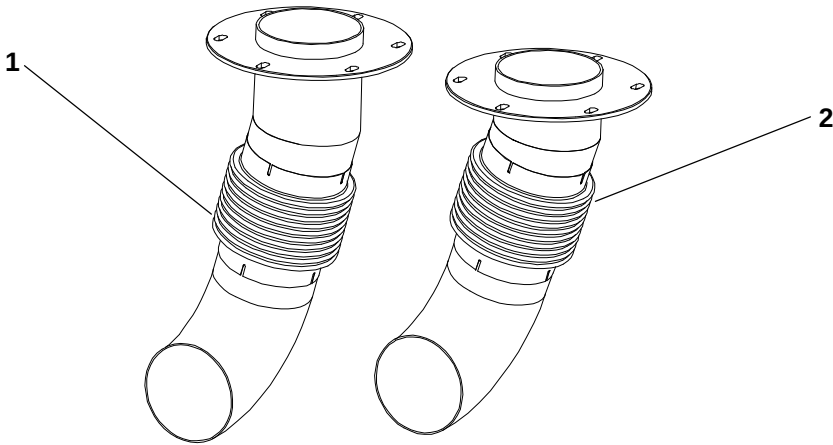
Item	Part No.	Description	Qty
1		Harness, Accessory	
	A041B583	Up to Spec C	1
	A057M235	Begin Spec D	1
2	0332-0941	Tie, Cable	10
3	0332-4106	Mount, Cable Tie	2
4		Tie, Cable	
	0332-2420	Up to Spec C	1
	A057G735	Begin Spec D	1

Fuel Level Harness – HC6



Item	Part No.	Description	Qty
1	A040E576	Harness, Accessory	1
2	0332-1389	Tie, Cable	15
	0332-2420	Tie, Cable (Not Shown)	2

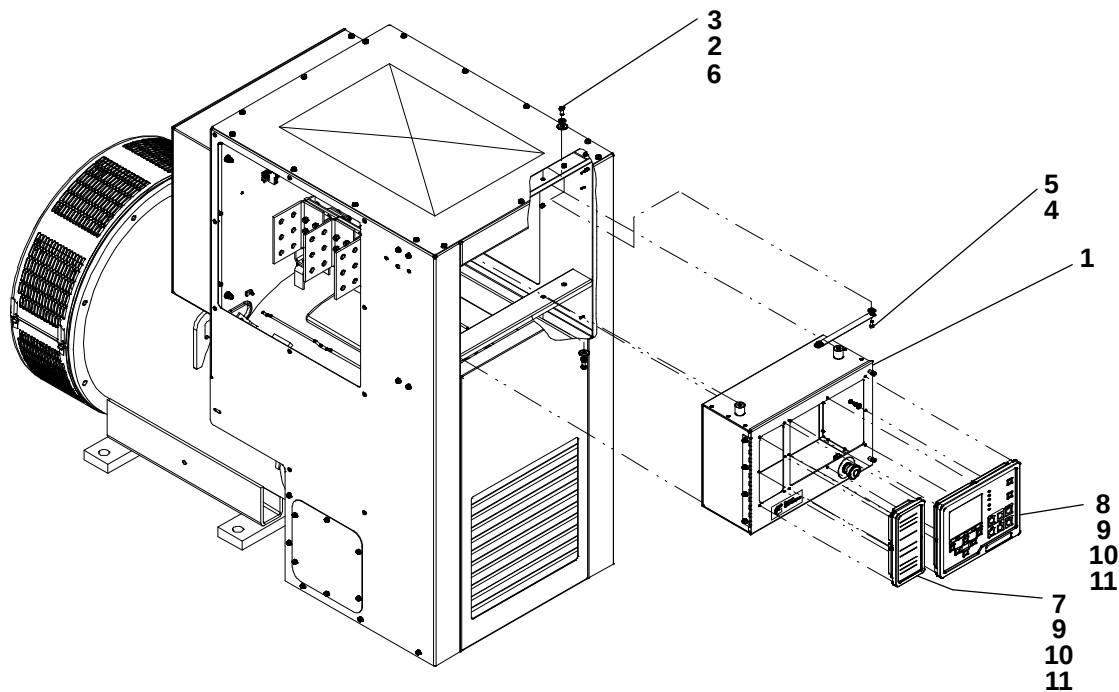
Exhaust Pipe – HC6



Item	Part No.	Description	Qty
1	0155-4628-01	Pipe, Exhaust – Left Hand Inlet	1
2	0155-4628-02	Pipe, Exhaust – Right Hand Inlet	1

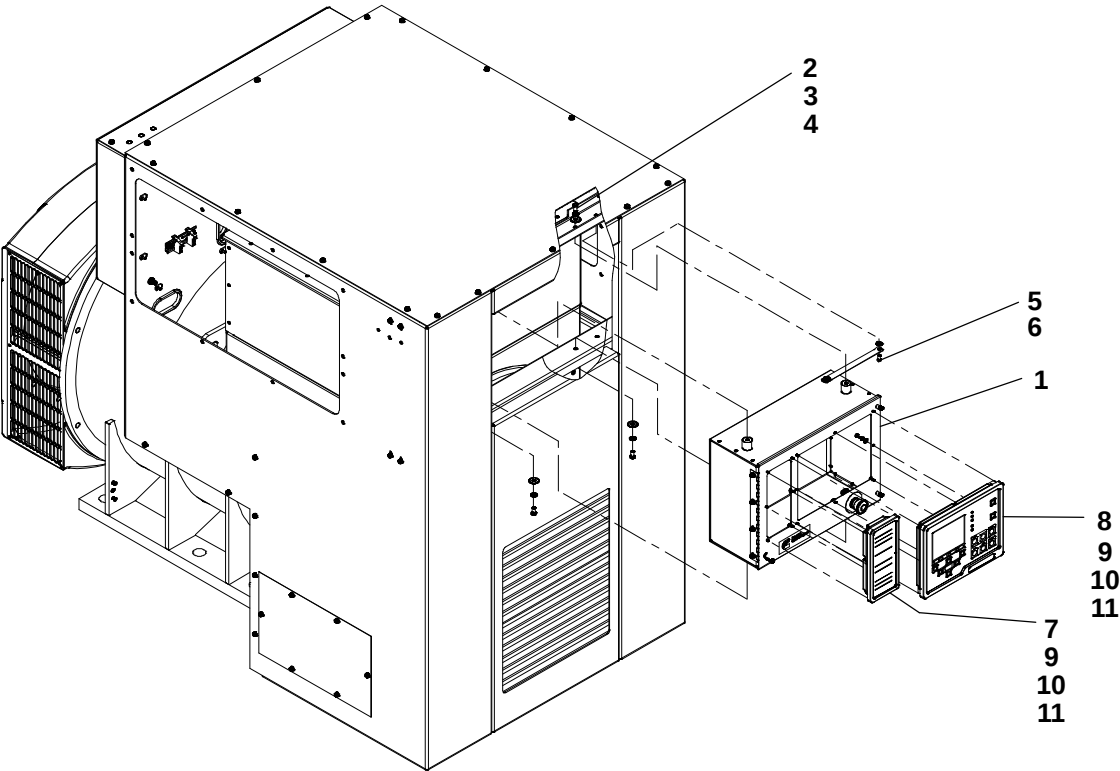
Control

Control Mounting (HC5)



Item	Part No.	Description	Qty
1	A035G278	Cabinet, Control – See Components on Pages 83, 85, and 84	1
2	0850-0045	Washer, Lock	4
3	0800-0025	Screw, Hex Head	4
4	0856-0006	Washer, Lock	1
5	0800-2029	Screw, Hex Head	1
6	0526-0399-61	Washer, Flat	4
7	0300-6366-02	Display, Control	1
8	0300-6315-02	Display, Control	1
9	0526-0009	Washer, Flat	14
10	0823-1001-03	Screw, Pan Head	14
11	0850-0030	Washer, Lock	14

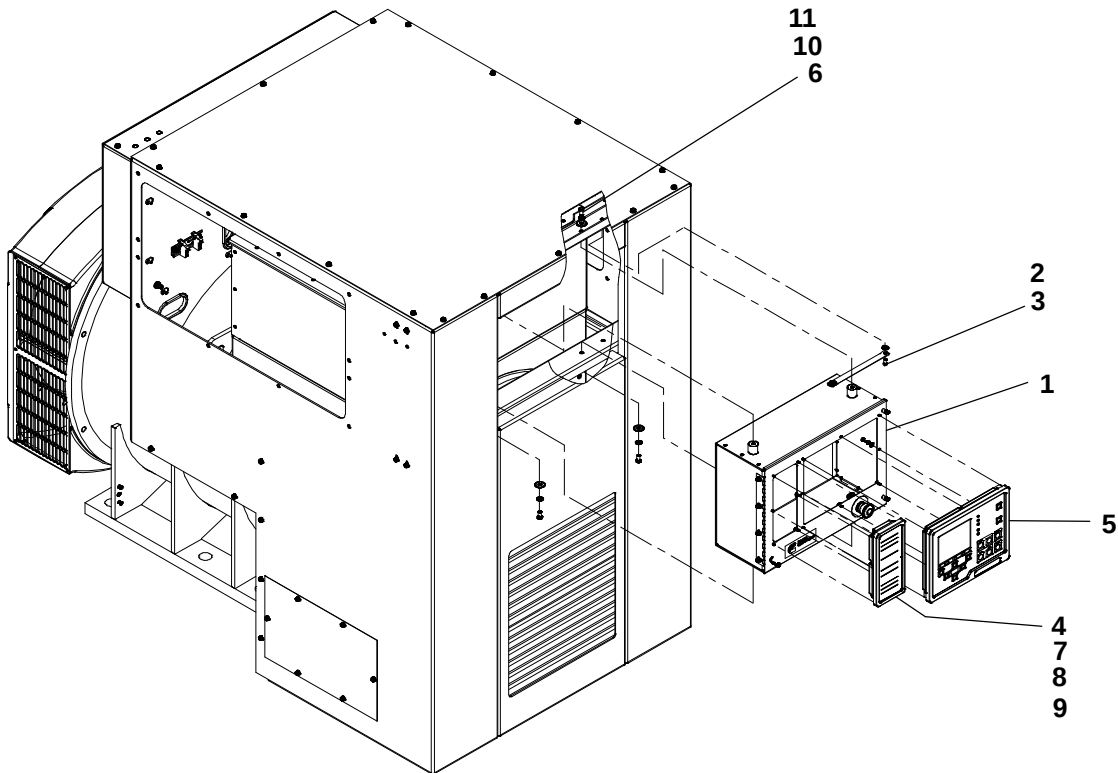
Control
Control Mounting (HC6)



Item	Part No.	Description	Qty
1	A035G278	Cabinet, Control – See Components on Pages 83, 85, and 84	1
2	0526–0399–61	Washer, Flat	4
3	0850–0045	Washer, Lock	4
4	0800–0025	Screw, Hex Head	4
5	0856–0006	Washer, Lock	1
6	0800–2029	Screw, Hex Head	1
7	0300–6366–02	Display, Control	1
8	0300–6315–02	Display, Control	1
9	0526–0009	Washer, Flat	14
10	0850–0030	Washer, Lock	14
11	0823–1001–03	Screw, Pan Head	14

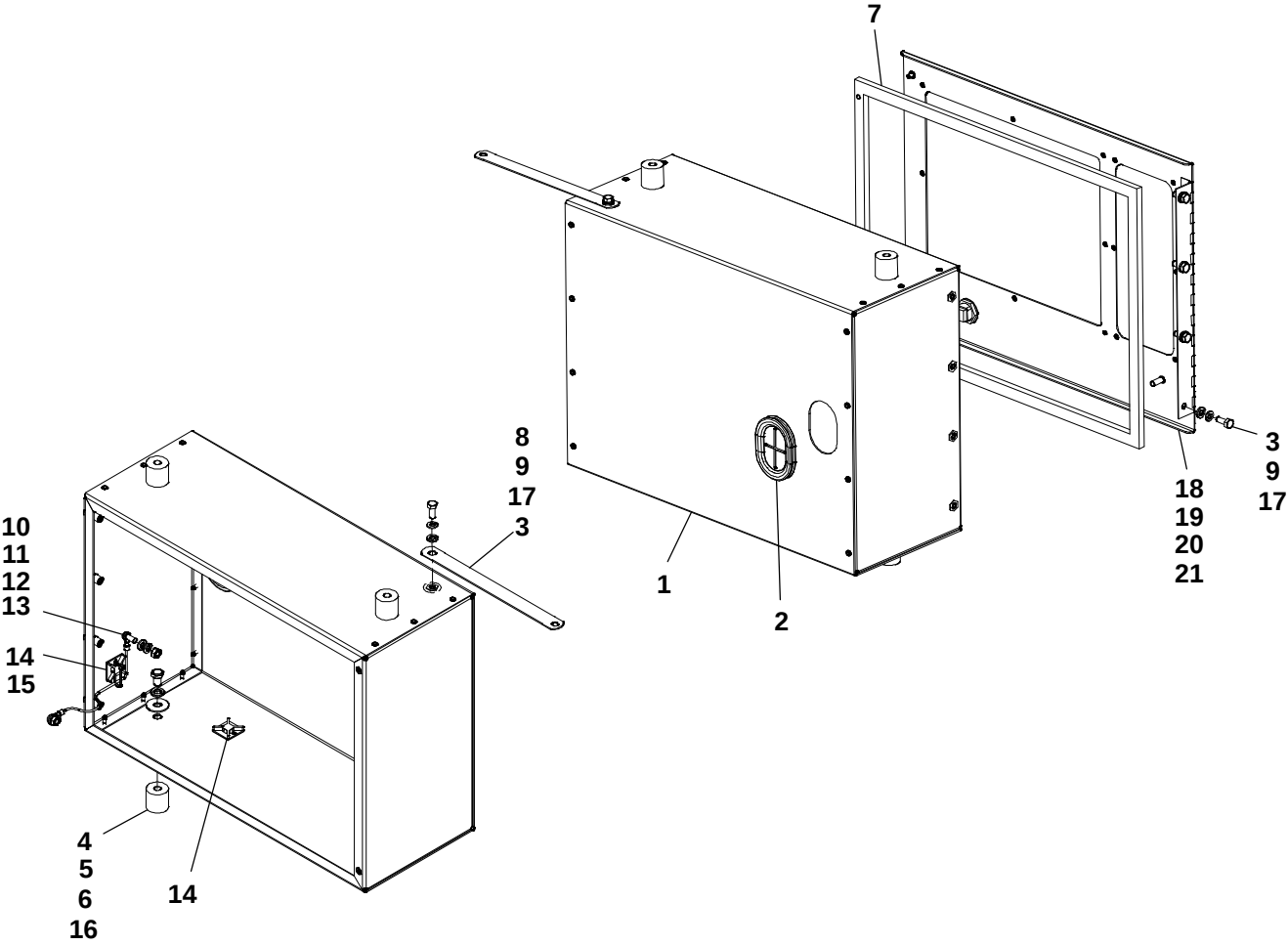
Control

Control Mounting



Item	Part No.	Description	Qty
1	A035G278	Cabinet, Control – See Components on Pages 83, 85, and 84	1
2	C045-0002	Washer, Lock	1
3	C370-0028-02	Screw, Hex Head	1
4	0300-6366-02	Display, Control	1
5	0300-6315-02	Display, Control	1
6	C031-0014	Washer, Spring Lock	4
7	C041-0022	Washer, Flat	14
8	C031-0021	Washer, Spring Lock	14
9	C370-0068-04	Screw, Socket Head	14
10	C041-0004	Washer, Flat	4
11	C370-0041-02	Screw, Hex Head	4

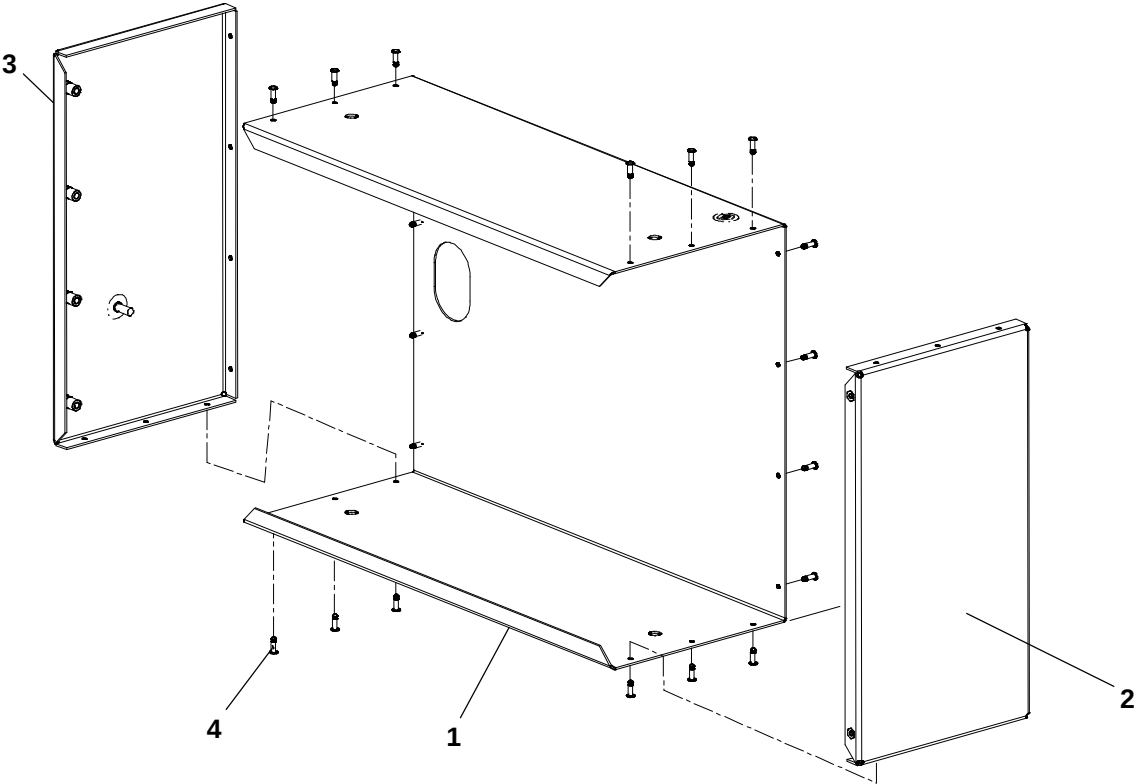
Control Cabinet



Control Cabinet

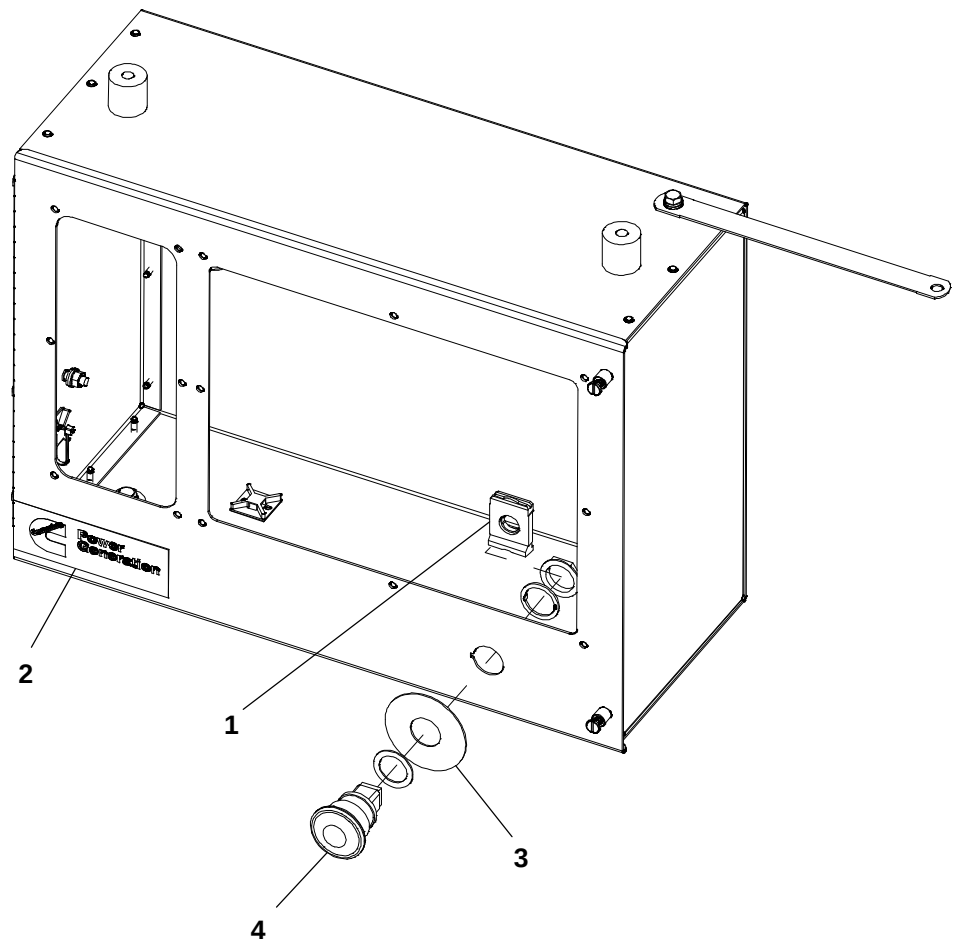
Item	Part No.	Description	Qty
1	A041R437	Cabinet, Control – See Page 84 for Components	1
2	0508–1116	Grommet, Remote	1
3	0800–3017–03	Screw, Hex Head	5
4	0402–0527	Isolator, Vibration	4
5	0850–0045	Washer, Lock	4
6	0800–0024	Screw, Hex Head	4
7	A035H095	Gasket	1
8	0337–0049	Strap, Electrical	1
9	0850–0114–53	Washer, Lock	5
10	0850–2006	Washer, Lock	2
11	0526–2081	Washer, Flat	2
12	0860–2007	Nut, Hex	2
13	A034H418	Lead, Ground	1
14	0332–2420	Tie, Cable	2
15		Tie, Cable	
	0332–0942	Up to Spec C	1
	A057J584	Begin Spec D	1
16	0526–0041	Washer, Flat	4
17	0526–0399–58	Washer, Flat	5
18	A041R409	Door, Control	1
19	A041T008	Screw, Captive	2
20	0406–0746	Hinge, Control	1
21	0826–2059	Stud	1

Control Box



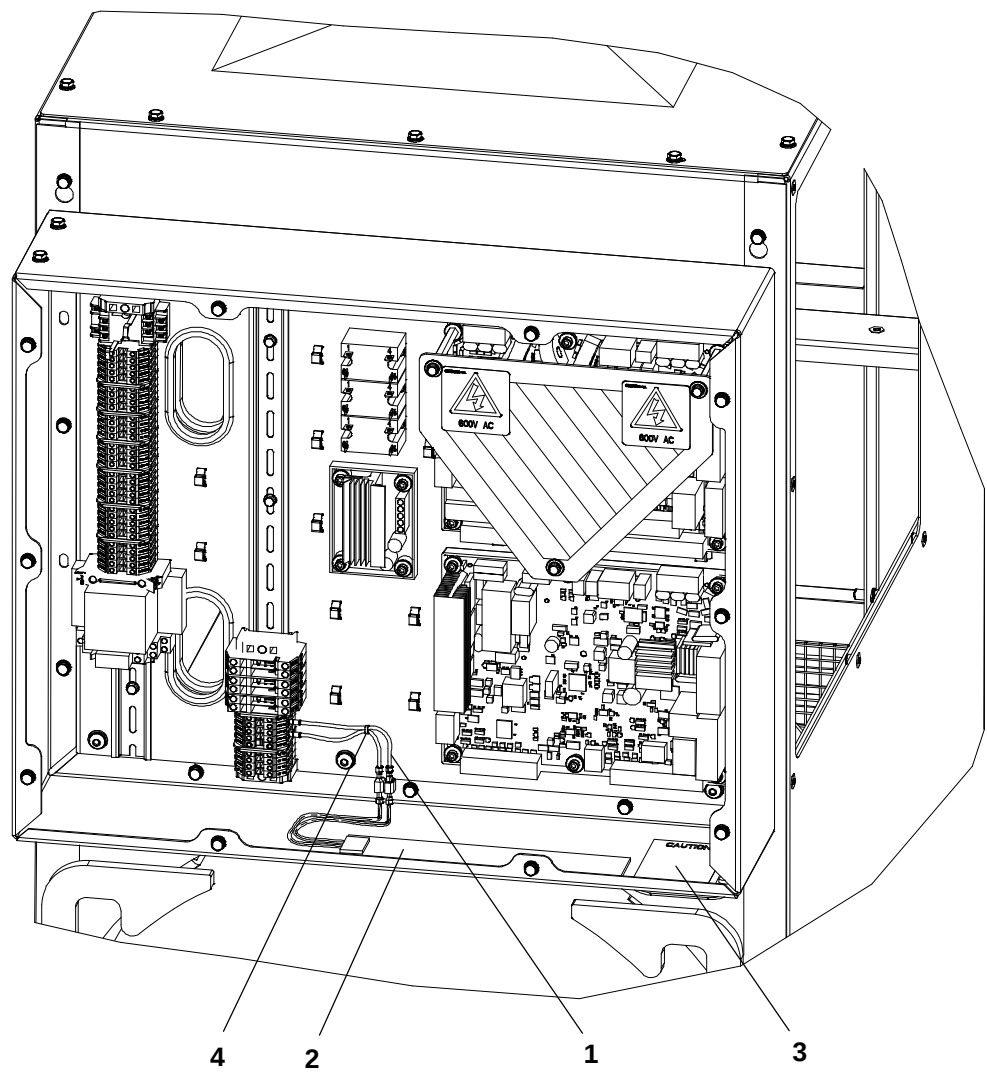
Item	Part No.	Description	Qty
1	A041R479	Panel, Control Box	1
2	A041R490	Panel, Control Box	1
3	A041R465	Panel, Control Box	1
4	0818-0224	Rivet, Self Plug	20

Control Cabinet Switch



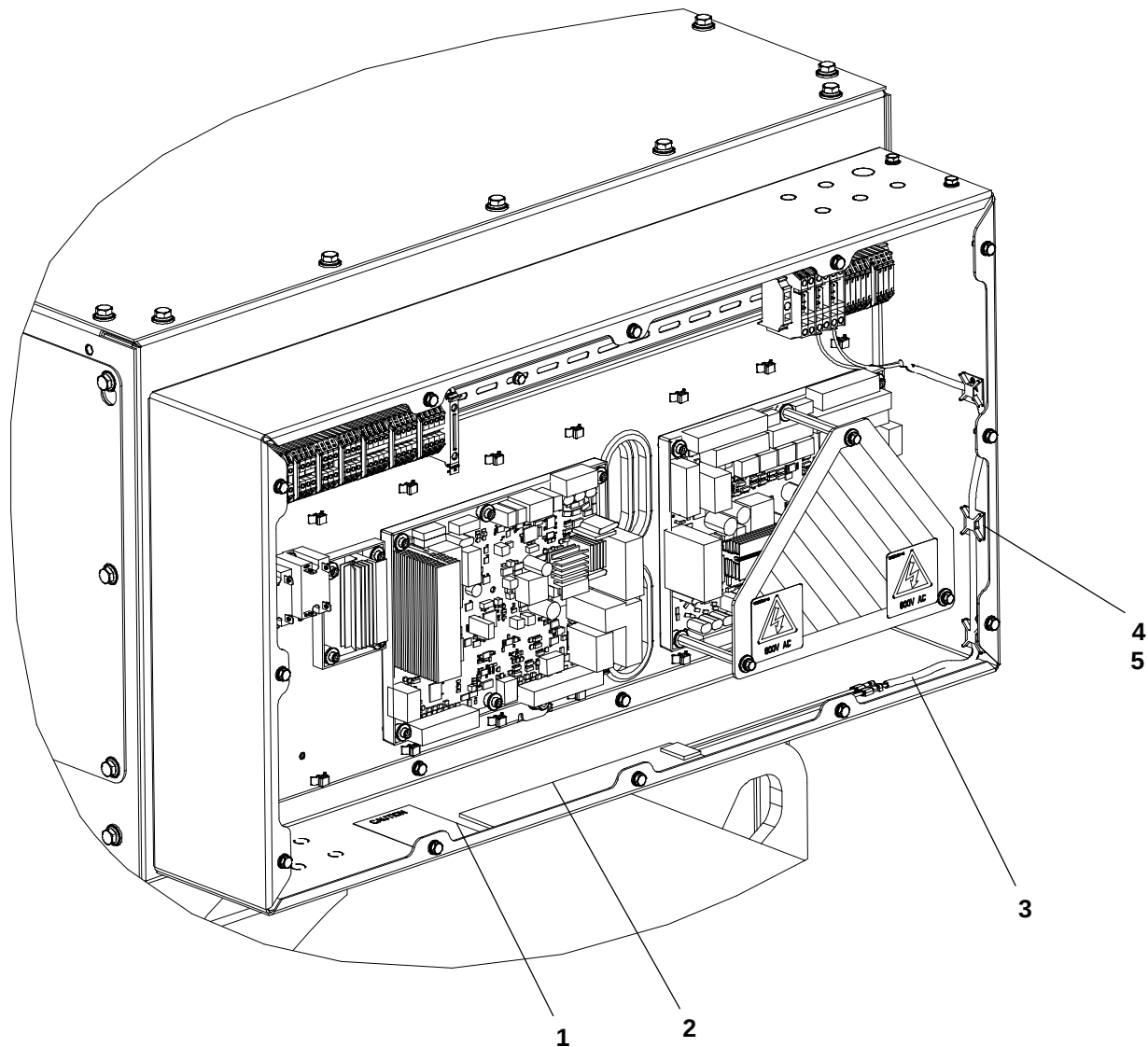
Item	Part No.	Description	Qty
1	A034L722	Switch, Pushbutton	1
2	A035A271	Label, Logo	1
3	A035A310	Bezel, Switch	1
4	A034L265	Switch, Pushbutton	1

Control Box Heater – HC5



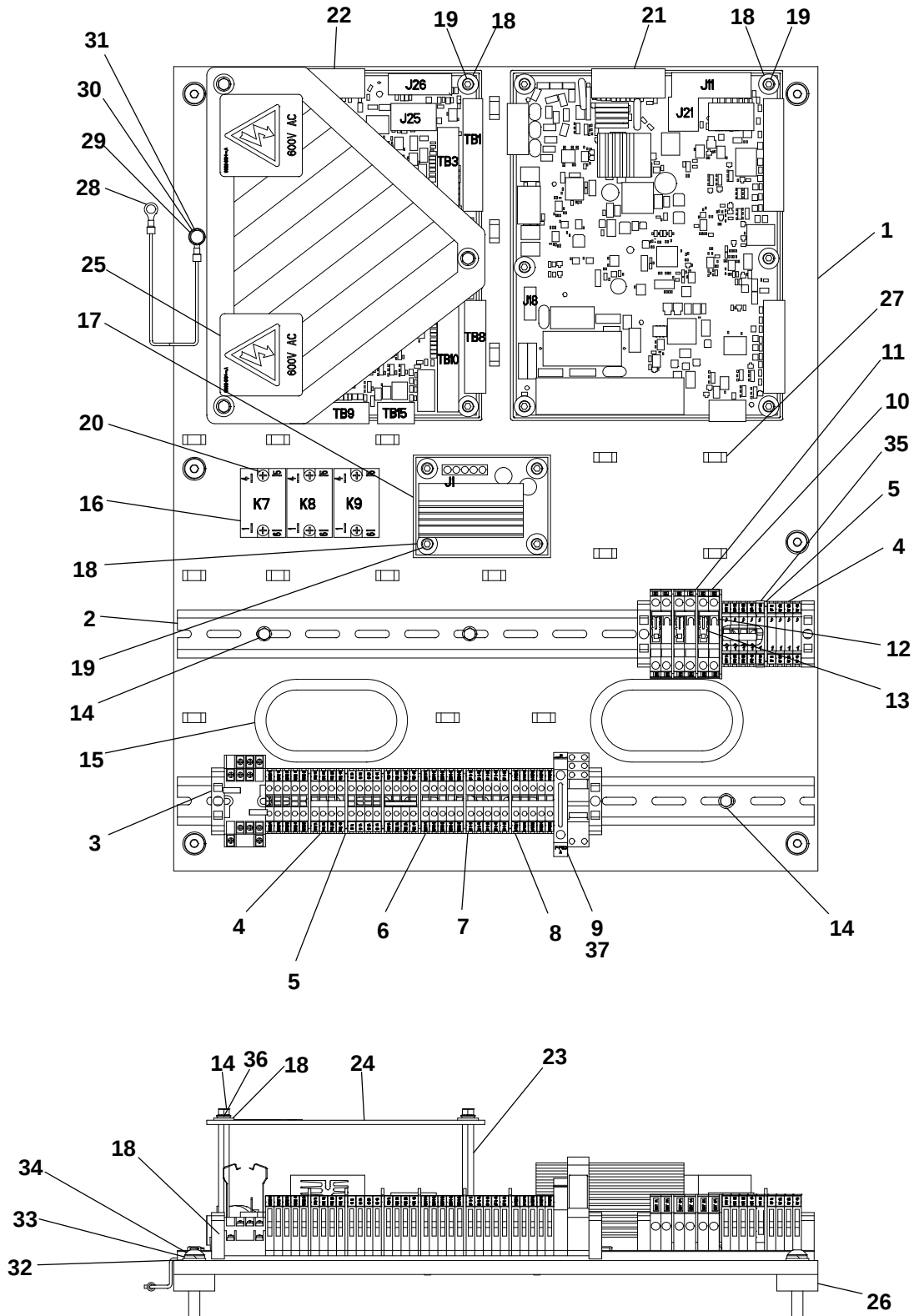
Item	Part No.	Description	Qty
1	A040Y070	Harness, Heater	1
2		Heater, Control	
	0300-4515-01	120V	1
	0300-4515-02	240V	1
3	0098-6195	Label, Caution	1
4	0332-1389	Tie, Cable	1

Control Box Heater – HC6



Item	Part No.	Description	Qty
1	0098-6195	Label, Caution	1
2		Heater, Control	
	0300-4515-01	120V	1
	0300-4515-02	240V	1
3	A040D298	Harness, Heater	1
4	0332-2420	Tie, Cable	3
5	0332-1389	Tie, Cable	3

Control – HC5

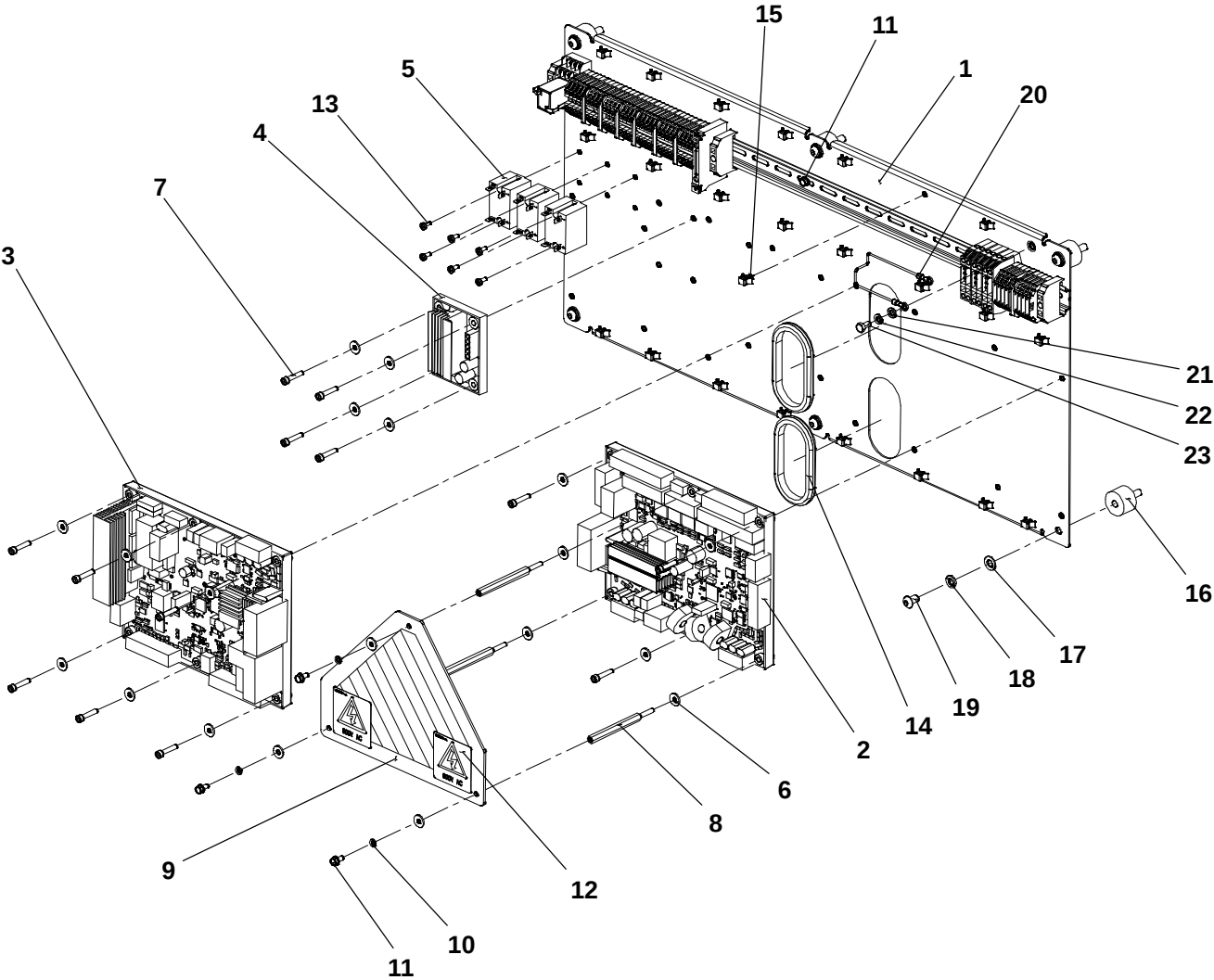


Control – HC5

Item	Part No.	Description	Qty
1	A035R002	Panel, Control Box	1
2	A040B247	Rail, Terminal	2
3	0332-4320	Block, Terminal	4
4	0332-4325	Block, Terminal	25
5	0332-4322	Block, Terminal	7
6	0332-4321	Block, Terminal	5
7	0332-4323	Block, Terminal	5
8	0332-4324	Block, Terminal	5
9	0321-0445	Holder, Fuse	1
10	A028T521	Connector	6
11	A028T567	Connector	3
12	A028T563	Connector	3
13	A028T569	Connector	3
14	0815-0793-02	Screw, Hex Flange Head	9
15	0508-1090	Grommet	2
16	0307-2968-04	Relay, Power	3
17	0327-1507	Card, Governor	1
18	0526-0399-57	Washer, Flat	19
19	0725-1008	Screw	13
20	0815-0862	Screw, Pan Head	6
21	A028T766	Card, Control	1
22		Card, Control	
	0327-1601-01	PCC3300	1
	A041W736	PCC3300 MLD	1
23	A026M891	Standoff	3
24	A026M929	Cover	1
25	0098-8104-06	Label, Warning	2
26	A040R107	Mount, Antivibration	6
27	0332-4106	Mount, Cable Tie	17
28	A034H418	Lead, Ground	1
29	0526-0464	Washer, Flat	1
30	0850-2056	Washer, Lock	1
31	0800-3017-02	Screw, Hex Head	1
32	0526-2100	Washer, Flat	6
33	0850-2058	Washer, Lock	6
34	0820-2000-02	Screw, Socket Head	6
35	A041F630	Block, Terminal	1
36	0850-0114-52	Washer, Lock	3
37	0321-0372-01	Fuse, Cartridge	1

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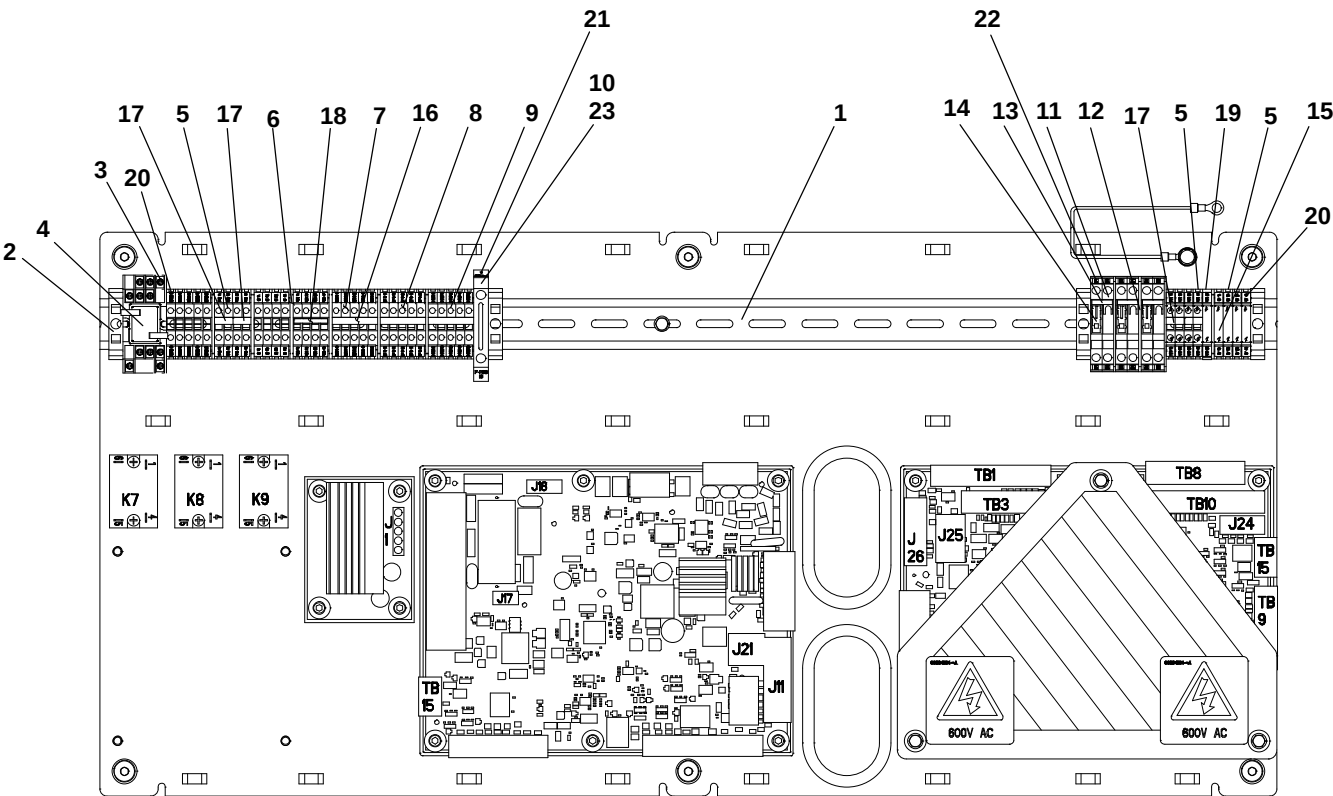
Control – HC6



Control – HC6

Item	Part No.	Description	Qty
1	A040M919	Member, Mounting	1
2		Card, Control	
	0327-1601-01	PCC3300	1
	A041W736	PCC3300 MLD	1
3	A028T766	Card, Control	1
4	0327-1507	Card, Governor	1
5	0307-2968-04	Relay, Power	3
6	0526-0399-57	Washer, Flat	19
7	0725-1008	Screw	13
8	A026M891	Standoff	3
9	A026M929	Cover	1
10	0850-0114-52	Washer, Lock	3
11	0815-0793-02	Screw, Hex Flange Head	6
12	0098-8104-06	Label, Warning	2
13	0815-0862	Screw, Pan Head	6
14	0508-1090	Grommet	2
15	0332-4106	Mount, Cable Tie	23
16	A040R107	Mount, Antivibration	6
17	0526-2100	Washer, Flat	6
18	0850-2058	Washer, Lock	6
19	0820-2000-02	Screw, Socket Head	6
20	A034H418	Lead, Ground	1
21	0526-0464	Washer, Flat	1
22	0850-2056	Washer, Lock	1
23	0800-3017-02	Screw, Hex Head	1

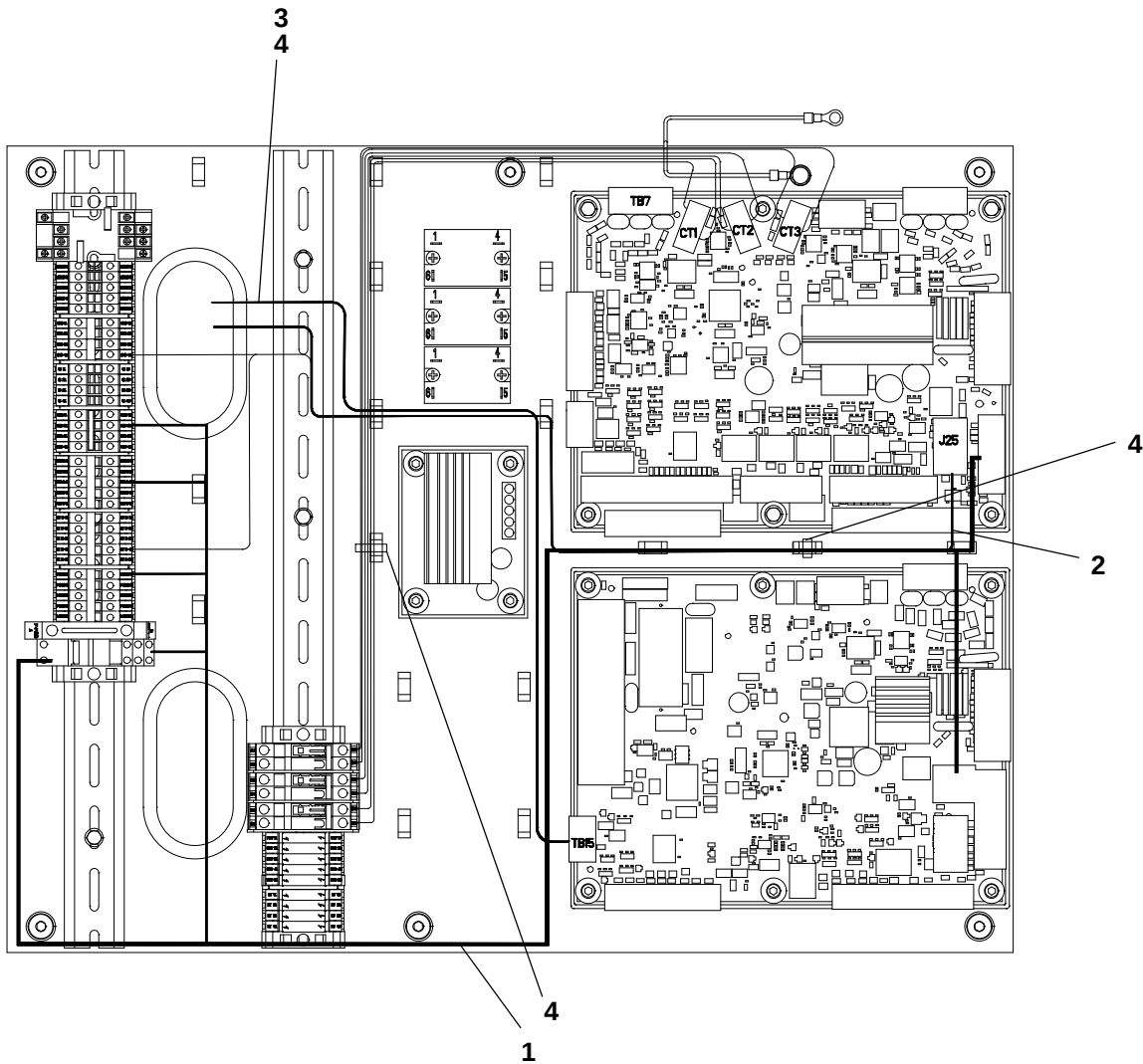
Control – HC6 (Continued)



Control – HC6 (Continued)

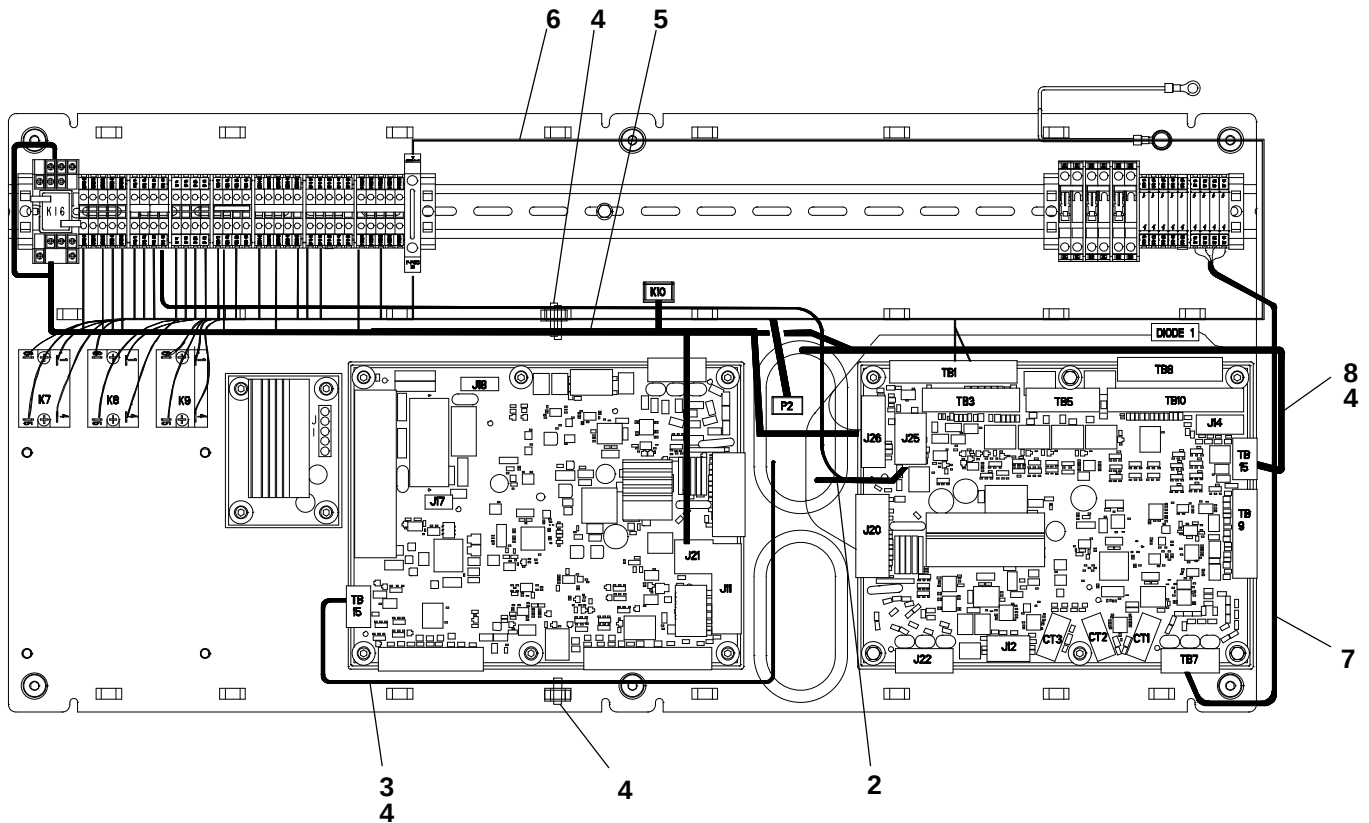
Item	Part No.	Description	Qty
1	0332-2879-06	Rail, Terminal	1
2	0332-4320	Block, Terminal	4
3	A040C732	Socket, Relay	A/R
4	A040C734	Relay	A/R
5	0332-4325	Block, Terminal	25
6	0332-4322	Block, Terminal	7
7	0332-4321	Block, Terminal	5
8	0332-4323	Block, Terminal	5
9	0332-4324	Block, Terminal	5
10	0321-0445	Holder, Fuse	1
11	A028T521	Connector	6
12	A028T567	Connector	3
13	A028T563	Connector	3
14	A028T569	Connector	3
15	A040K269	Tag, Terminal	9
16	0332-4326	Jumper, Terminal	3
17	0332-4336	Jumper, Terminal	4
18	A040F385	Jumper, Terminal	1
19	A041F630	Block, Terminal	1
20	A040M378	Tag, Terminal	82
21	A040M403	Tag, Terminal	2
22	0332-3939-17	Strip, Marker	12
23	0321-0372-01	Fuse, Cartridge	1

Control Harness – HC5



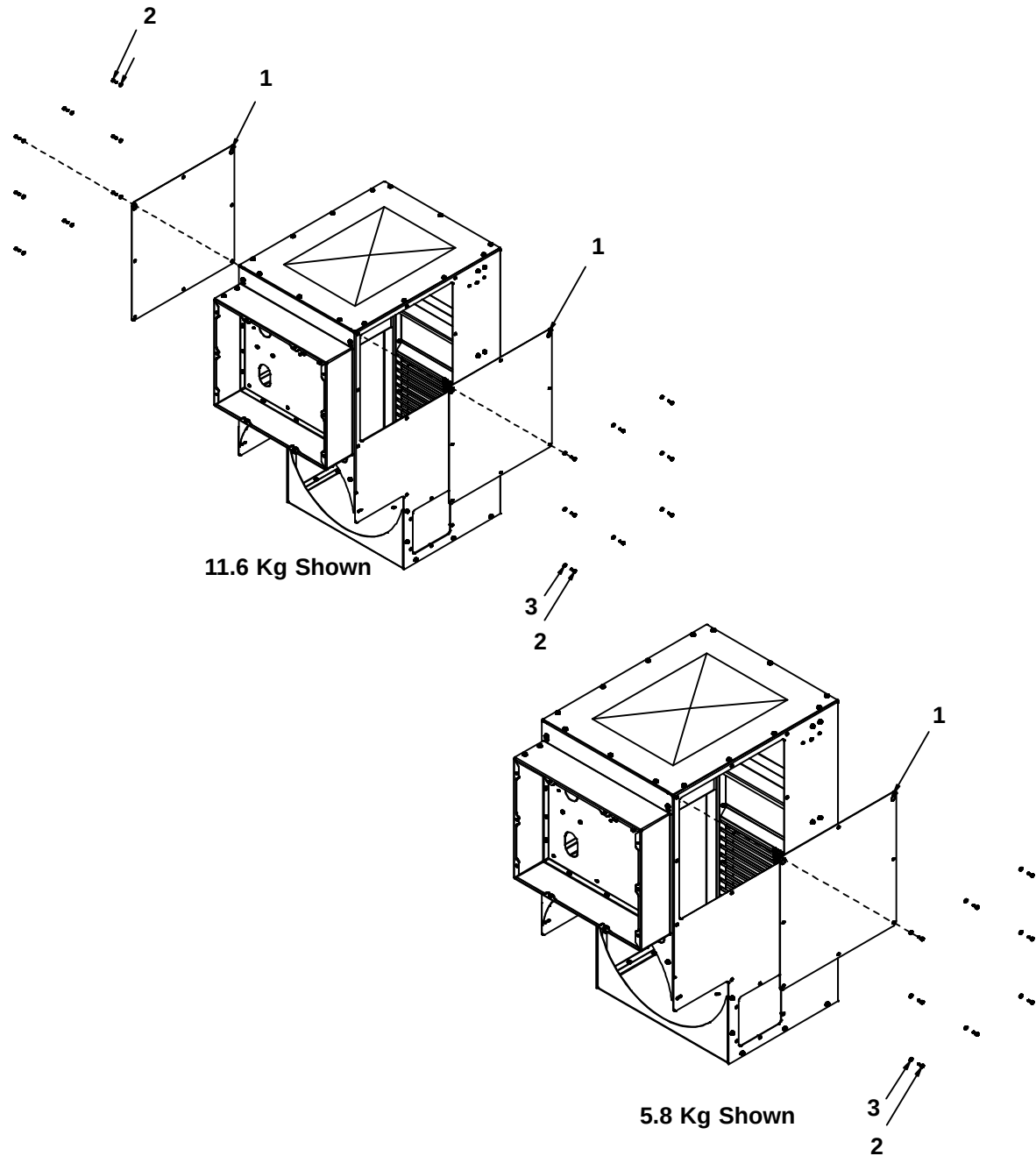
Item	Part No.	Description	Qty
1		Harness, Interface	
	A035P912	Up to Spec C	1
	A057M077	Begin Spec D	1
2		Harness, Interface	
	A035G075	Up to Spec C	1
	A057M062	Begin Spec D	1
3		Harness, Interface	
	A040G672	Up to Spec C	1
	A057M046	Begin Spec D	1
4	0332-0941	Tie, Cable	15

Control Harness – HC6



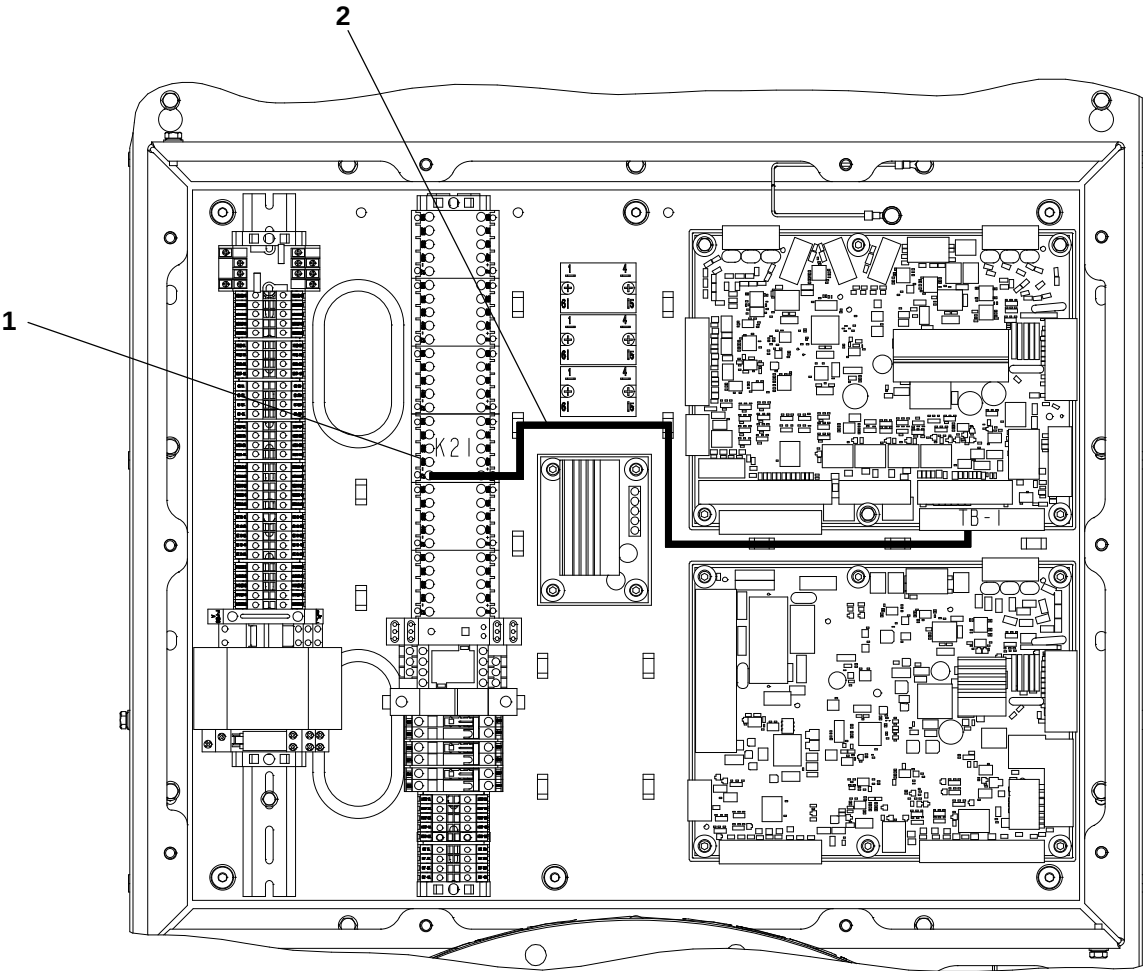
Item	Part No.	Description	Qty
1	A035P912	Harness, Interface	1
2	A035G075	Harness, Interface	1
3	A040G672	Harness, Interface	1
4	0332-0941	Tie, Cable	A/R
5		Harness, Interface	
	A035G905	Up to Spec C	1
	A057L807	Begin Spec D	1
6		Harness, Interface	
	A035H282	Up to Spec C	1
	A057L816	Begin Spec D	1
7		Harness, Alternating Current	
	A035E847	Up to Spec C	1
	A057M223	Begin Spec D	1
8		Harness, Interface	
	A040D379	Up to Spec C	1
	A057L813	Begin Spec D	1

Control Box Cover



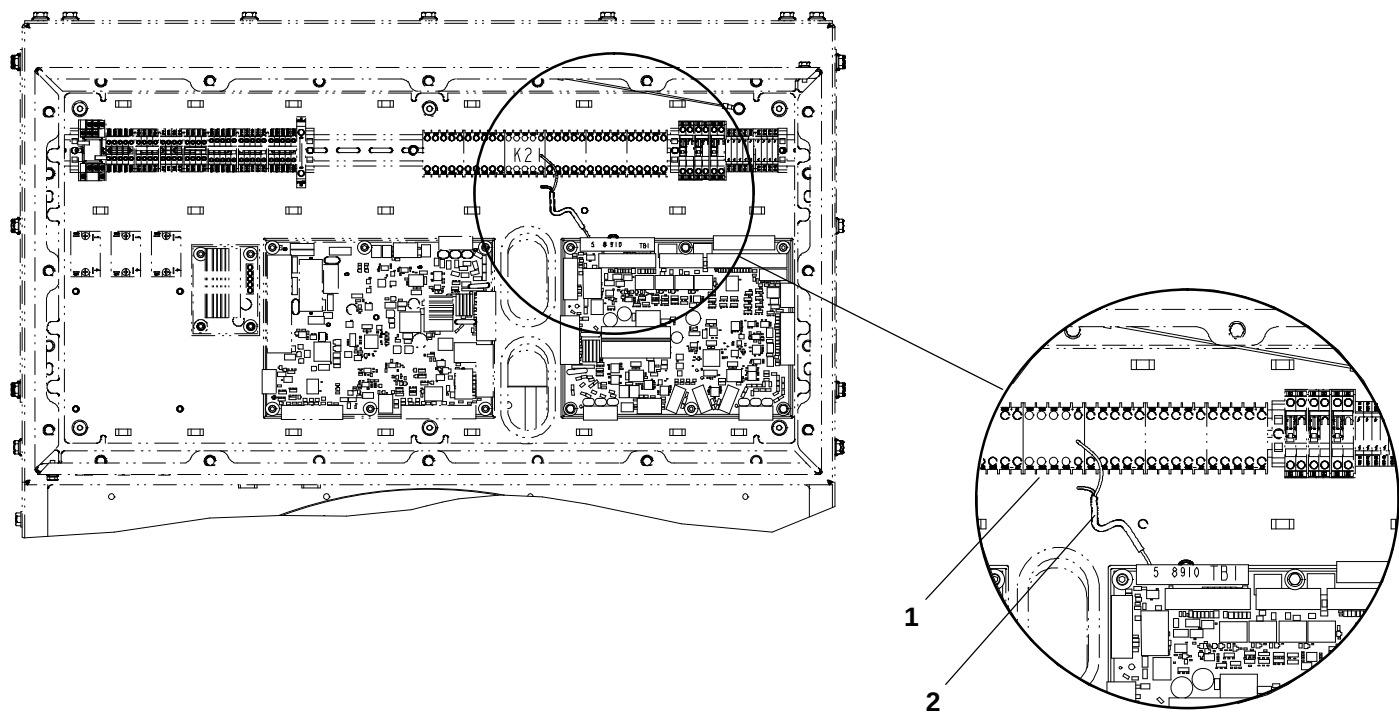
Item	Part No.	Description	Qty
1	A040T978	Cover, Box	2
2	C370-0028-03	Screw, Hex Head	16
3	C041-0003	Washer, Flat	16

Common Alarm – HC5



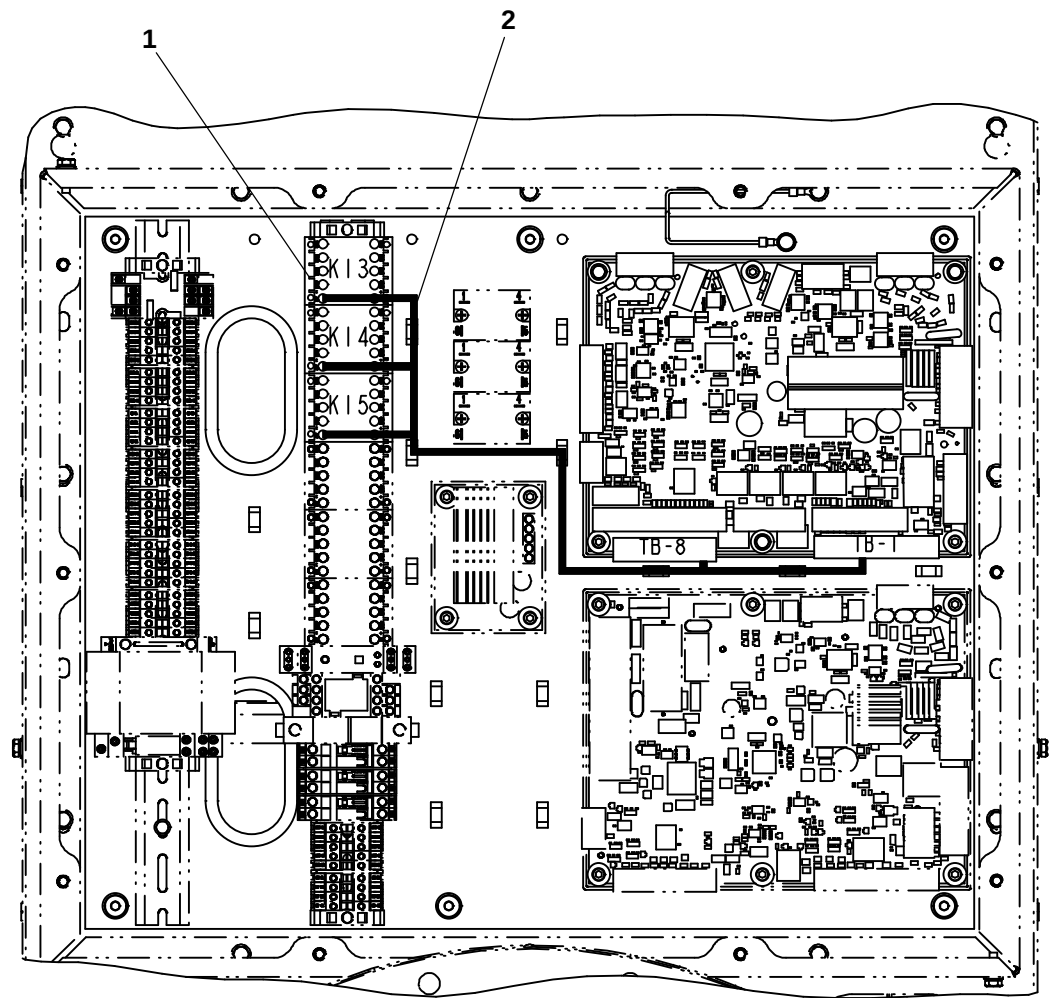
Item	Part No.	Description	Qty
1	0307-2874	Relay, Control	1
2		Harness, Alarm	
	A040X290	Up to Spec C	1
	A057M269	Begin Spec D	1

Common Alarm – HC6



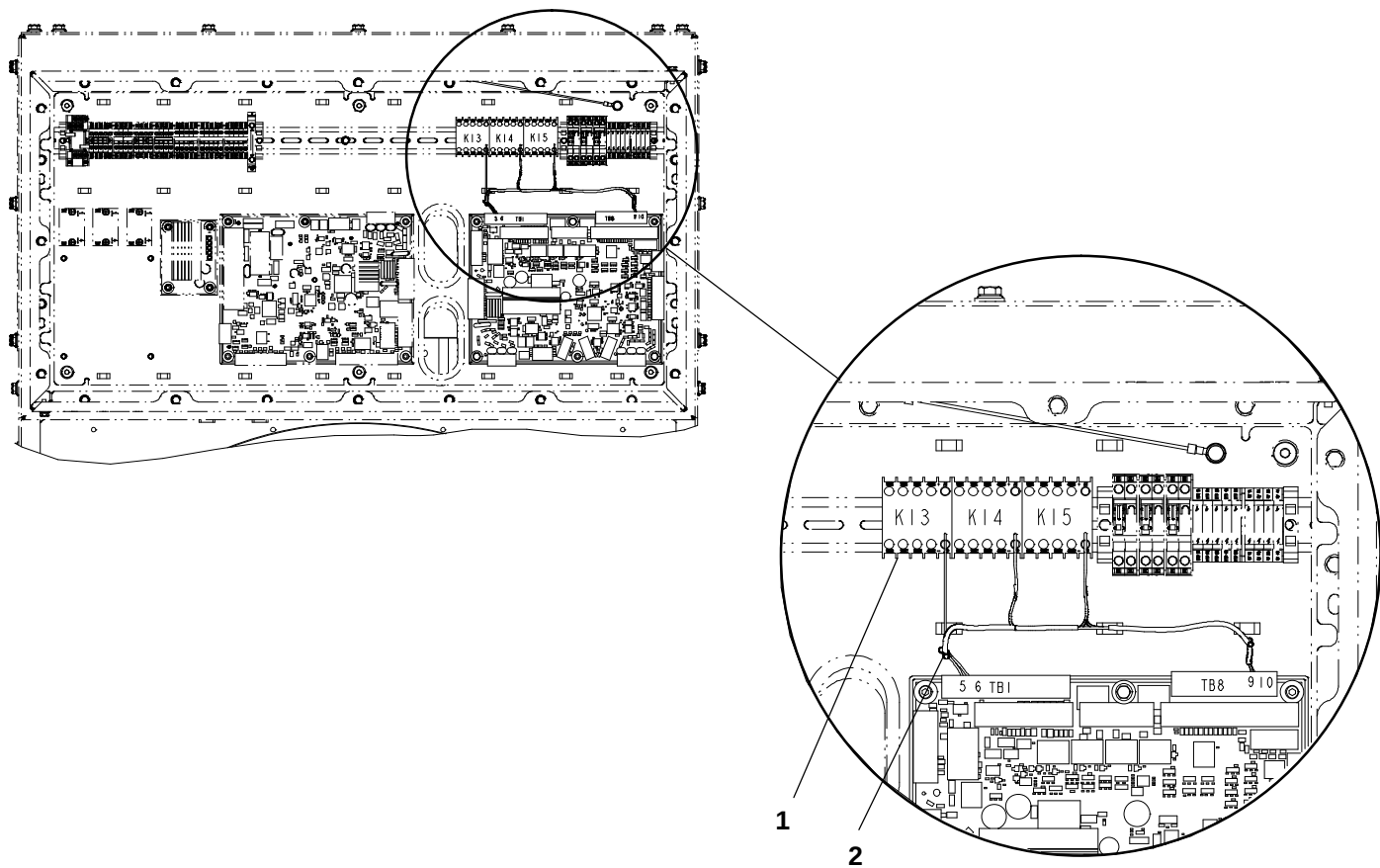
Item	Part No.	Description	Qty
1	0307-2874	Relay, Control	1
2	A040D523	Harness, Alarm	1

Run Relay – HC5



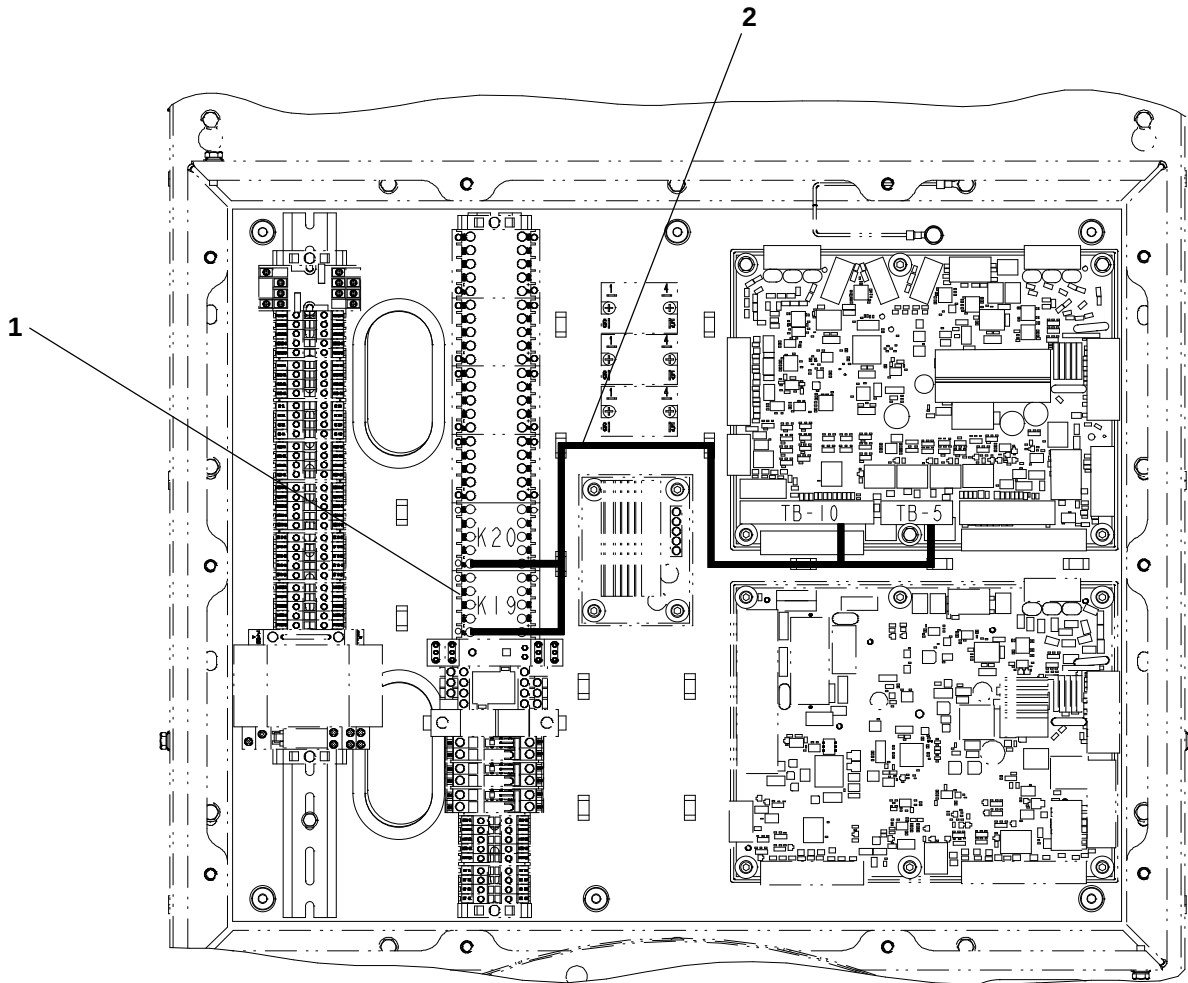
Item	Part No.	Description	Qty
1	0307-2874	Relay, Control	3
2		Harness, Relay	
	A040X242	Up to Spec C	1
	A057M246	Begin Spec D	1

Run Relay – HC6



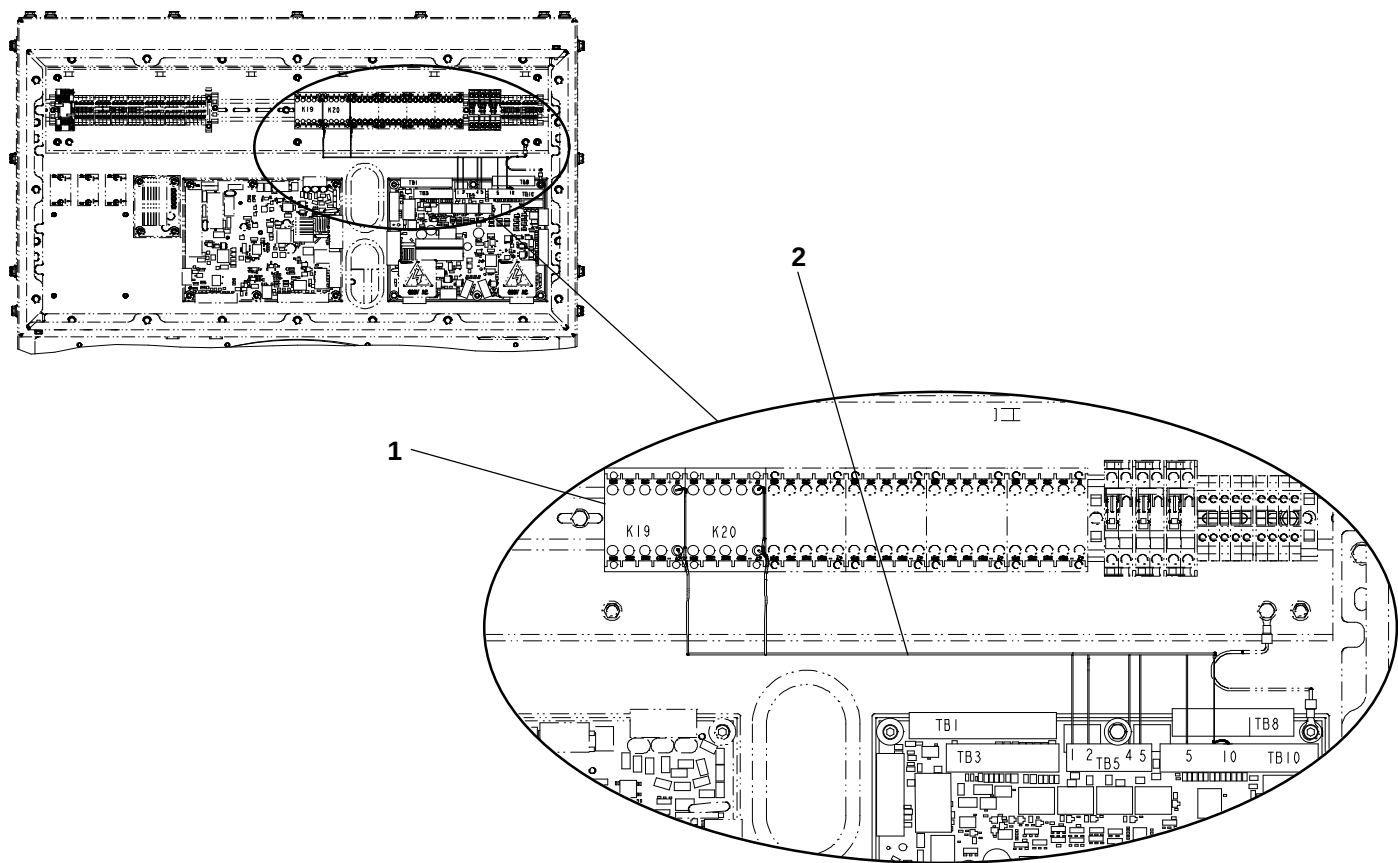
Item	Part No.	Description	Qty
1	0307-2874	Relay, Control	3
2	A040D669	Harness, Relay	1

Parallel Relay – HC5



Item	Part No.	Description	Qty
1	0307-2874	Relay, Control	1
2		Harness, Accessory	
	A040X432	Up to Spec C	1
	A057M203	Begin Spec D	1

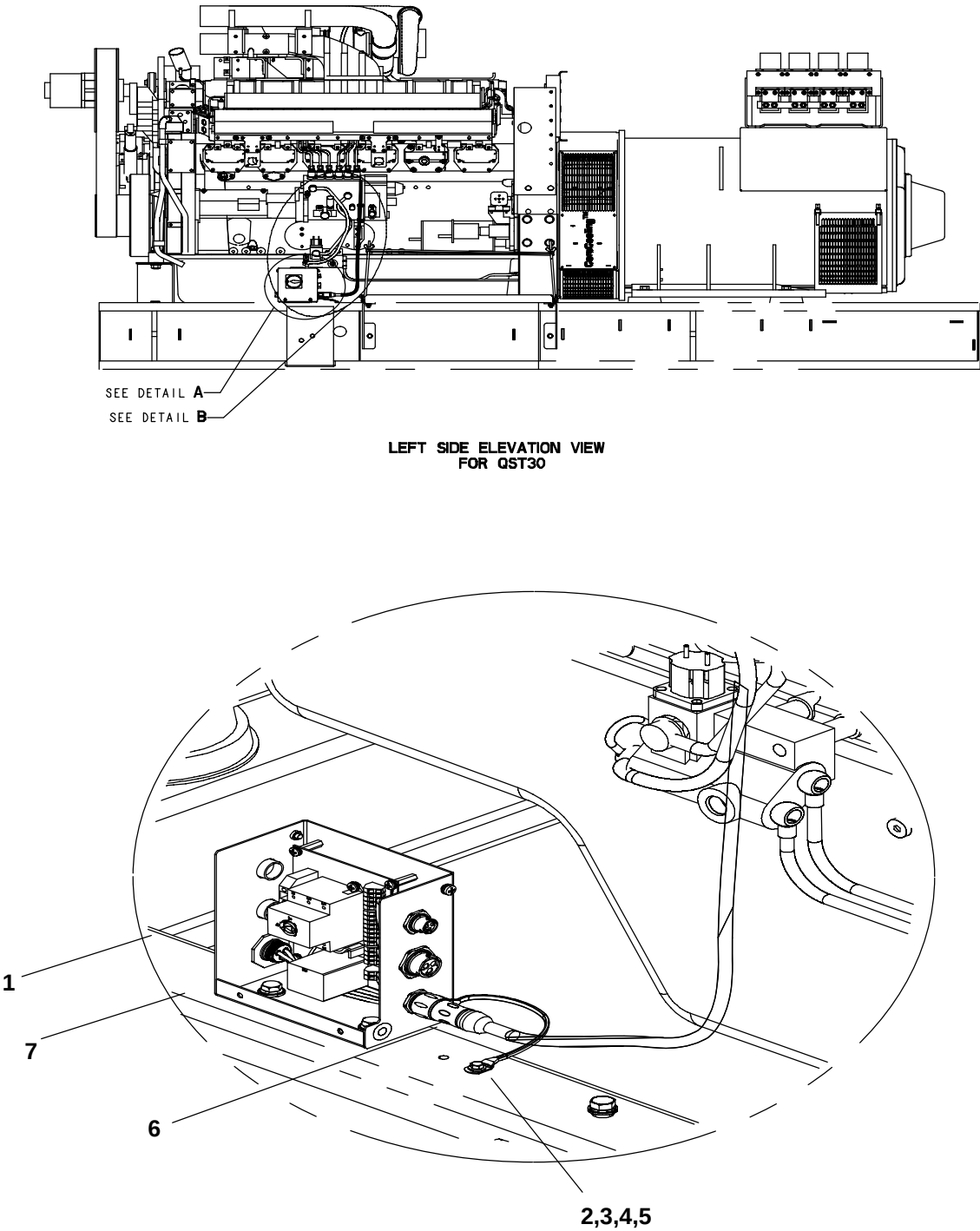
Parallel Relay – HC6



Item	Part No.	Description	Qty
1	0307-2874	Relay, Control	2
2		Harness, Accessory	
	A040H464	Up to Spec C	1
	A057M209	Begin Spec D	1

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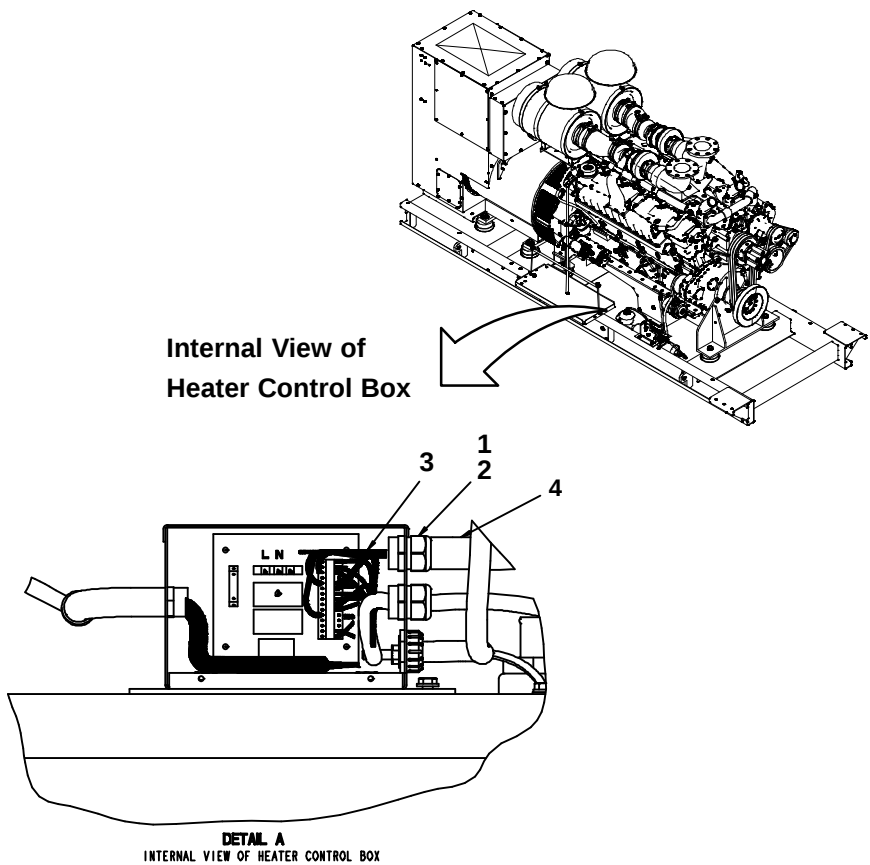
Heater Control Box



Heater Control Box

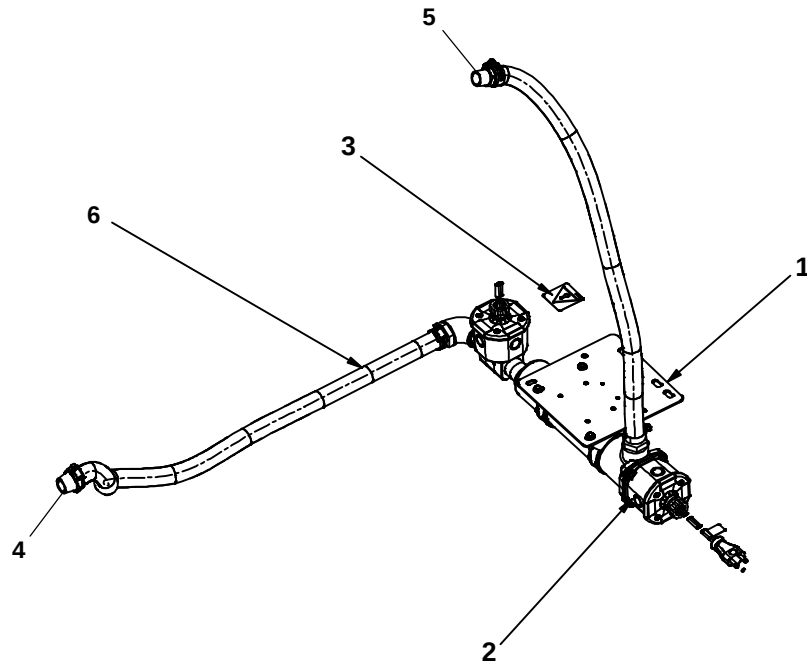
Item	Part No.	Description	Qty
1	A047V267	Heater, Control Box	1
2	A005Y438	Screw,Hex head	1
3	A007L039	Washer,Flat	2
4	A007L385	Washer,Lock	1
5	A004W495	Nut,Hex	1
6	A050V836	Harness,Direct current	1
7	A005Y272	Screw,Hex Head	2

Heater Control Box



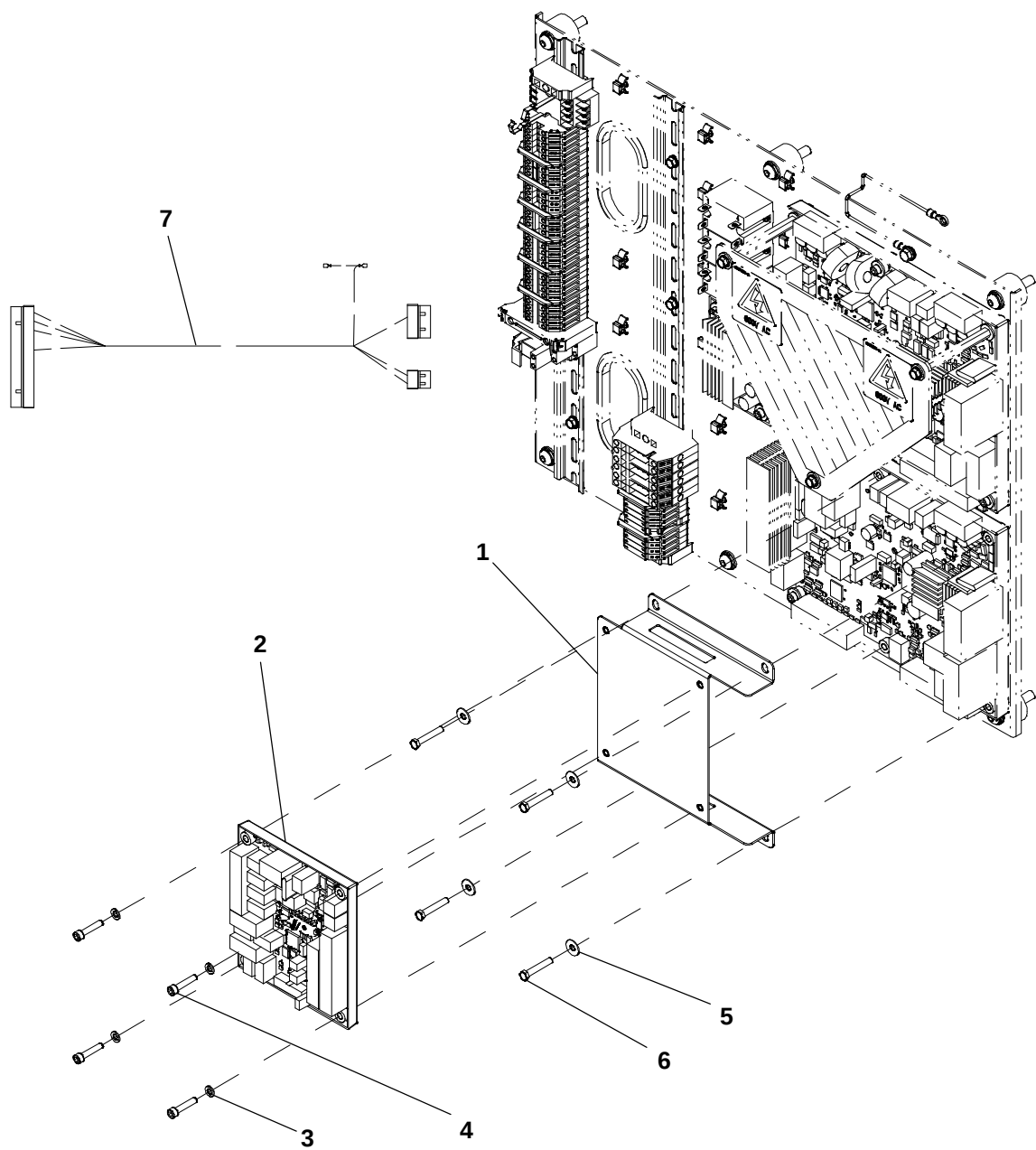
Item	Part No.	Description	Qty
1	0331-0586-02	Connector, Conduit	1
2	0331-0621	Ring, Locking	1
3	0334-2278-01	Wire, Stranded	14
4	A041C921	Harness, Accessory	1

Heater Control Box



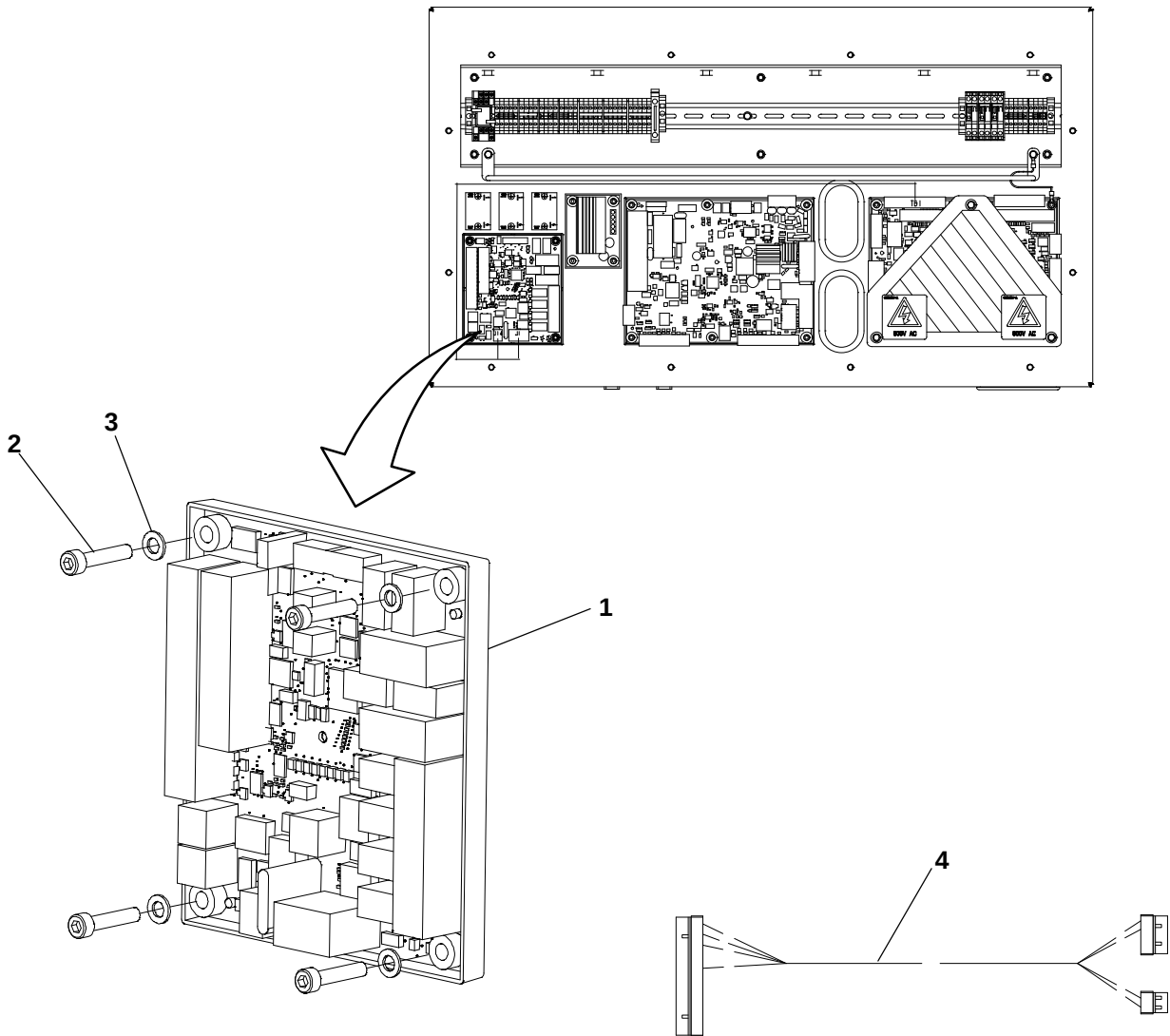
Item	Part No.	Description	Qty
1	010167	Heater, Support	1
2	A034J656	Heater, Coolant	1
3	0098-8095	Label, Warning	1
4	010160	Fitting, Hose Connector	1
5	010162	Fitting, Hose Connector	1
6	A050D688	Kit, Coolant Heater	1

Auxiliary Input Output Card – HC5



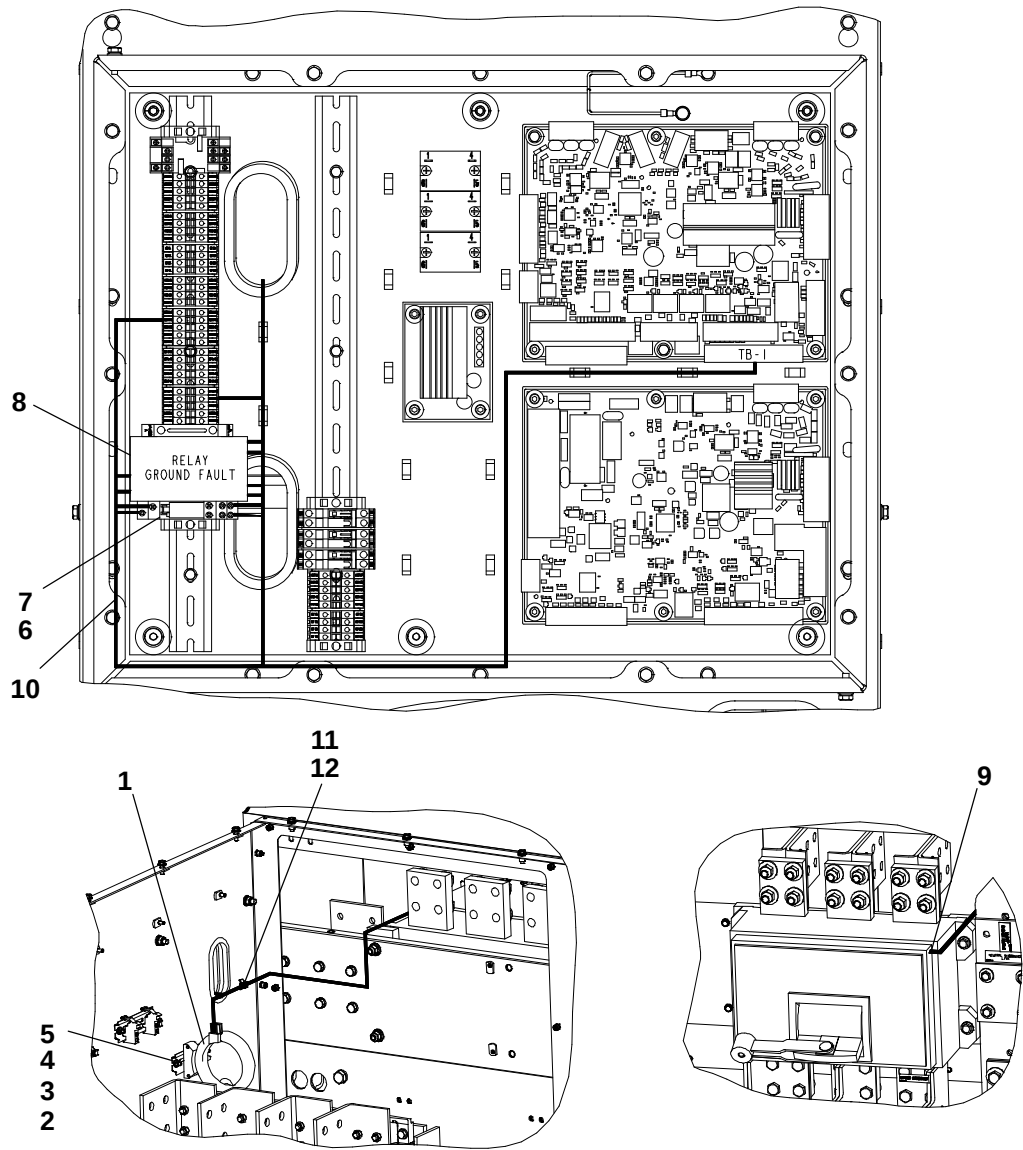
Item	Part No.	Description	Qty
1	A040V213	Plate, Circuit Board Mounting	1
2	0327-1536	Card, Input Output	1
3	0526-0399-56	Washer, Flat	4
4	0725-1008	Screw	4
5	0526-0399-57	Washer, Flat	4
6	0800-2012	Screw, Hex Head	4
7		Harness, Interface	
	A040W512	Up to Spec C	1
	A057M035	Begin Spec D	1

Auxiliary Input Output Card – HC6



Item	Part No.	Description	Qty
1	0327-1536	Card, Input Output	1
2	0725-1008	Screw	4
3	0526-0399-56	Washer, Flat	4
4		Harness, Interface	
	A035E359	Up to Spec C	1
	A057M037	Begin Spec D	1

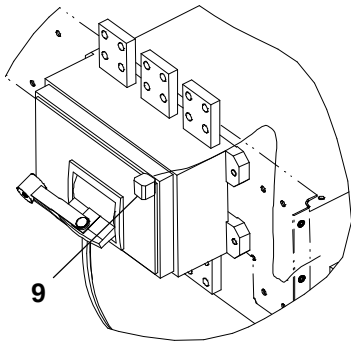
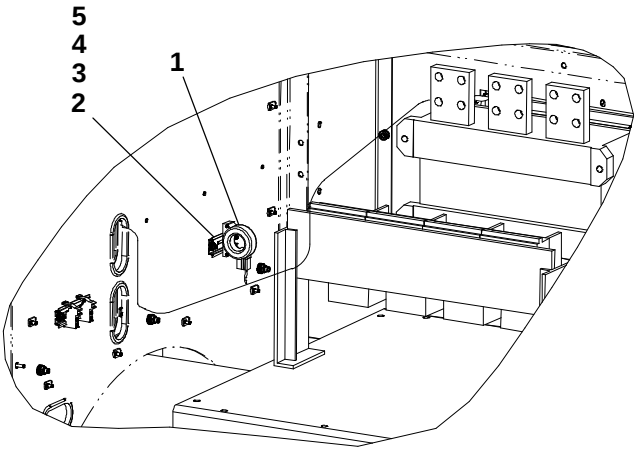
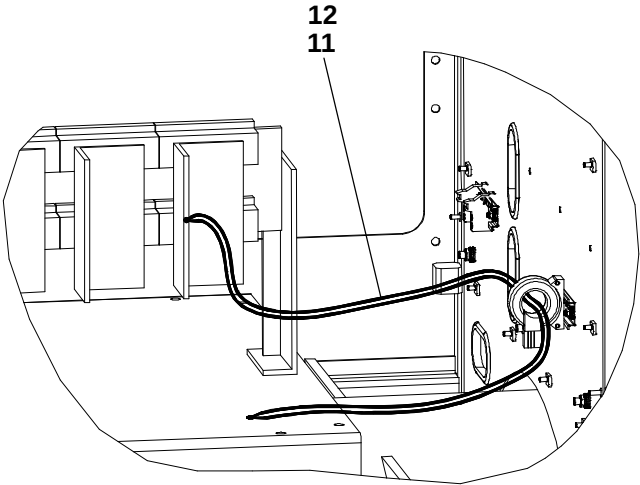
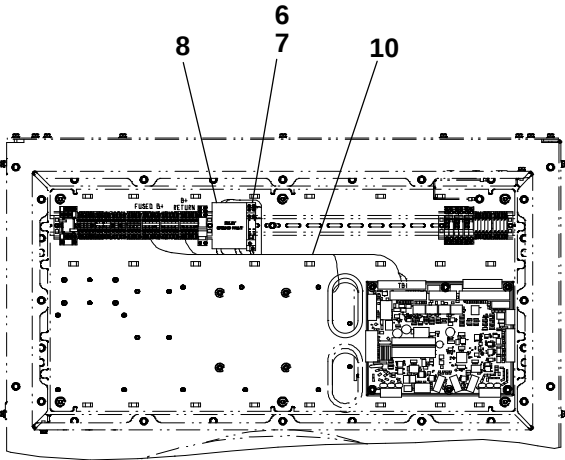
Ground Fault – HC5



Item	Part No.	Description	Qty
1	0315-1607-02	Transformer, Current	1
2	0332-4001-02	Rail, Terminal Block	1
3	0526-0399-58	Washer, Flat	2
4	0850-0114-53	Washer, Lock	2
5	0800-3017-03	Screw, Hex Head	2
6	0249-0814	Relay	1
7	0307-3047	Relay	1
8	0307-3087	Relay, Ground Fault	1
9	0320-2078	Trip, Shunt	1
10	A040X897	Harness, Accessory	1
11	0332-4106	Mount, Cable Tie	1
12	0332-0941	Tie, Cable	1

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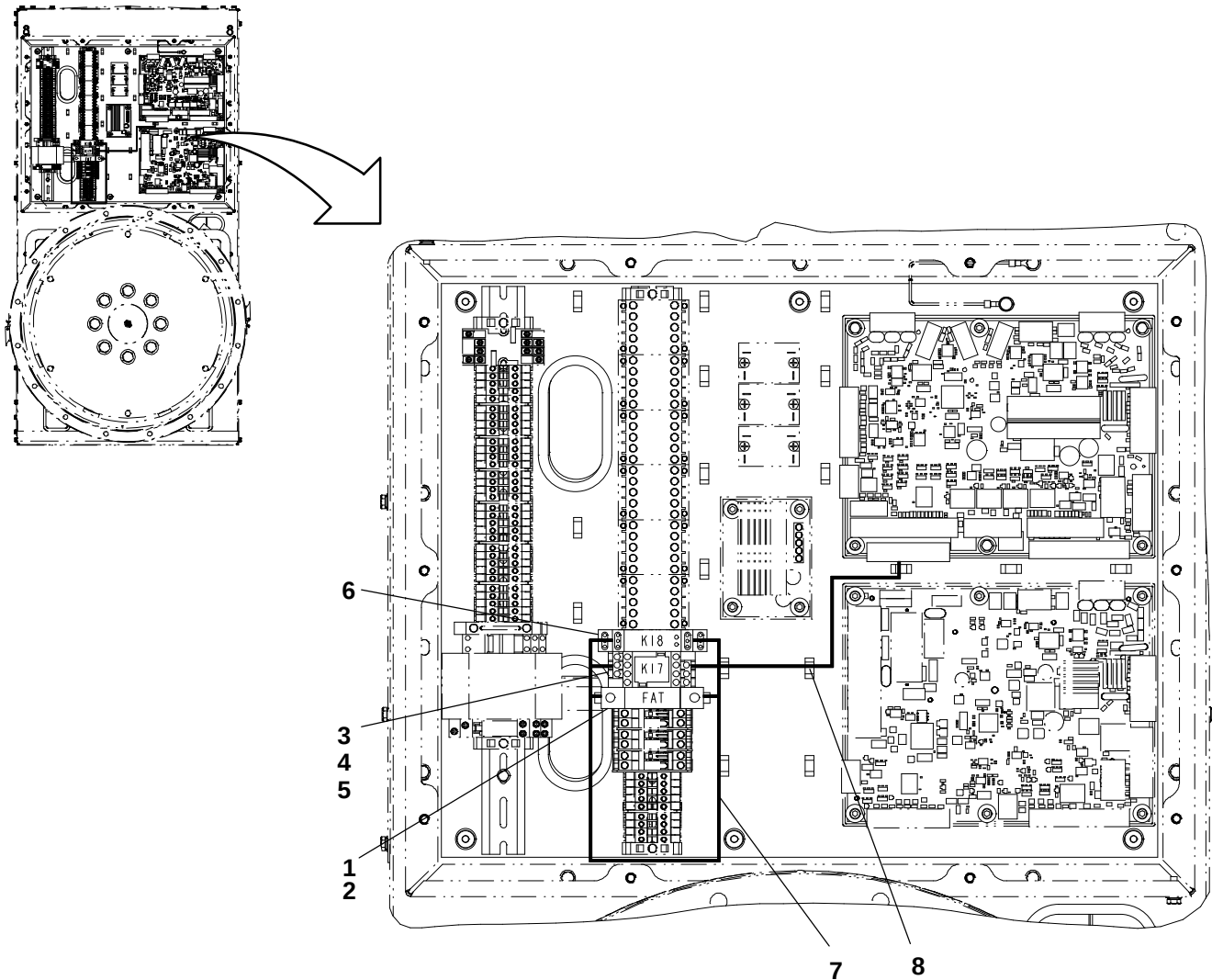
Ground Fault – HC6



Ground Fault – HC6

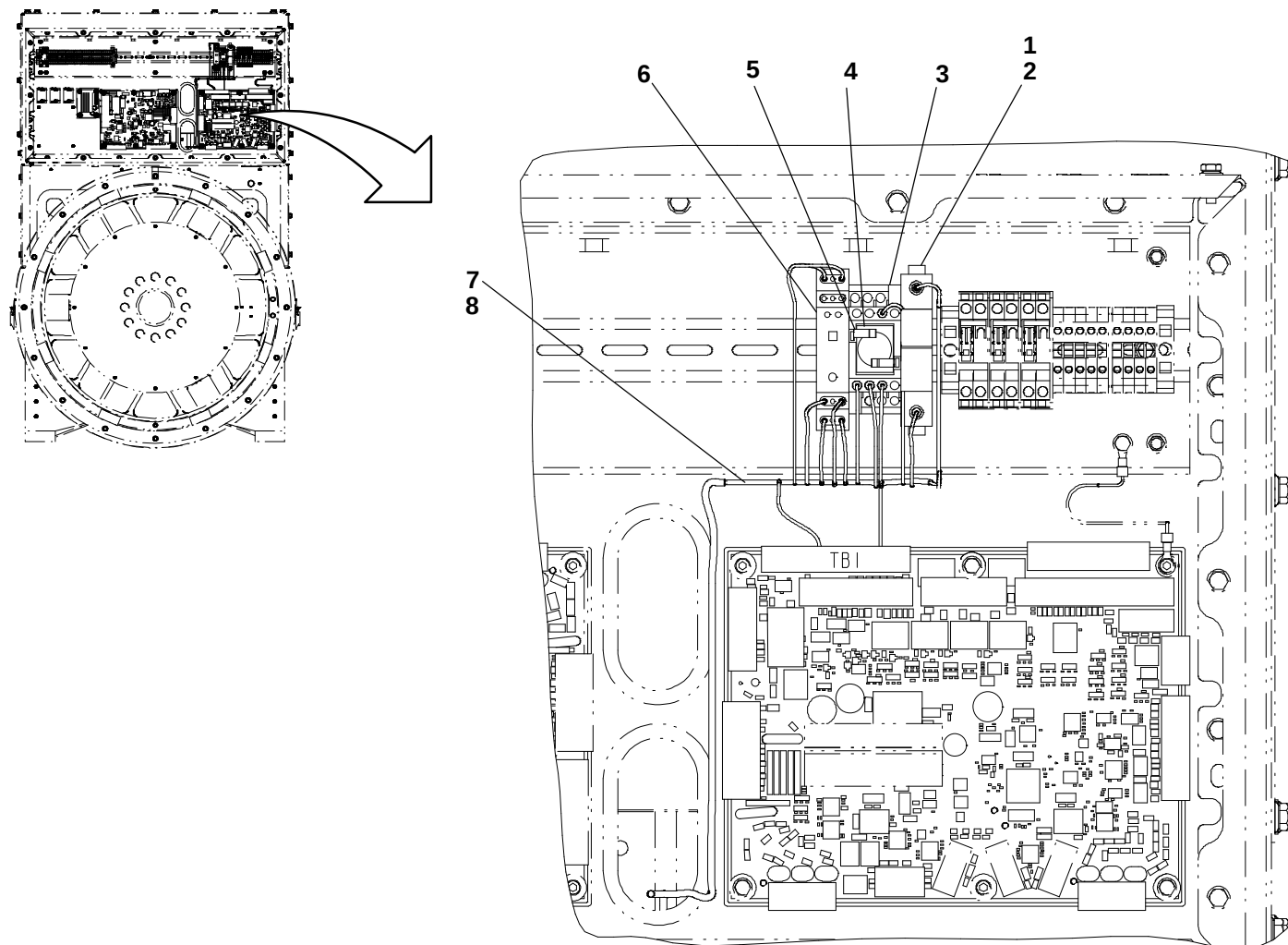
Item	Part No.	Description	Qty
1	0315-1607-02	Transformer, Current	1
2	0332-4001-02	Rail, Terminal Block	1
3	0526-0399-58	Washer, Flat	2
4	0850-0114-53	Washer, Lock	2
5	0800-3017-03	Screw, Hex Head	2
6	0249-0814	Relay	1
7	0307-3047	Relay	1
8	0307-3087	Relay, Ground Fault	1
9	0320-2078	Trip, Shunt	1
10		Harness, Accessory	
	A040G249	Up to Spec C	1
	A057M201	Begin Spec D	1
11	A040Y054	Strap, Ground	2
12	0332-1389	Tie, Cable	5

High Alternator Temperature Shutdown – HC5



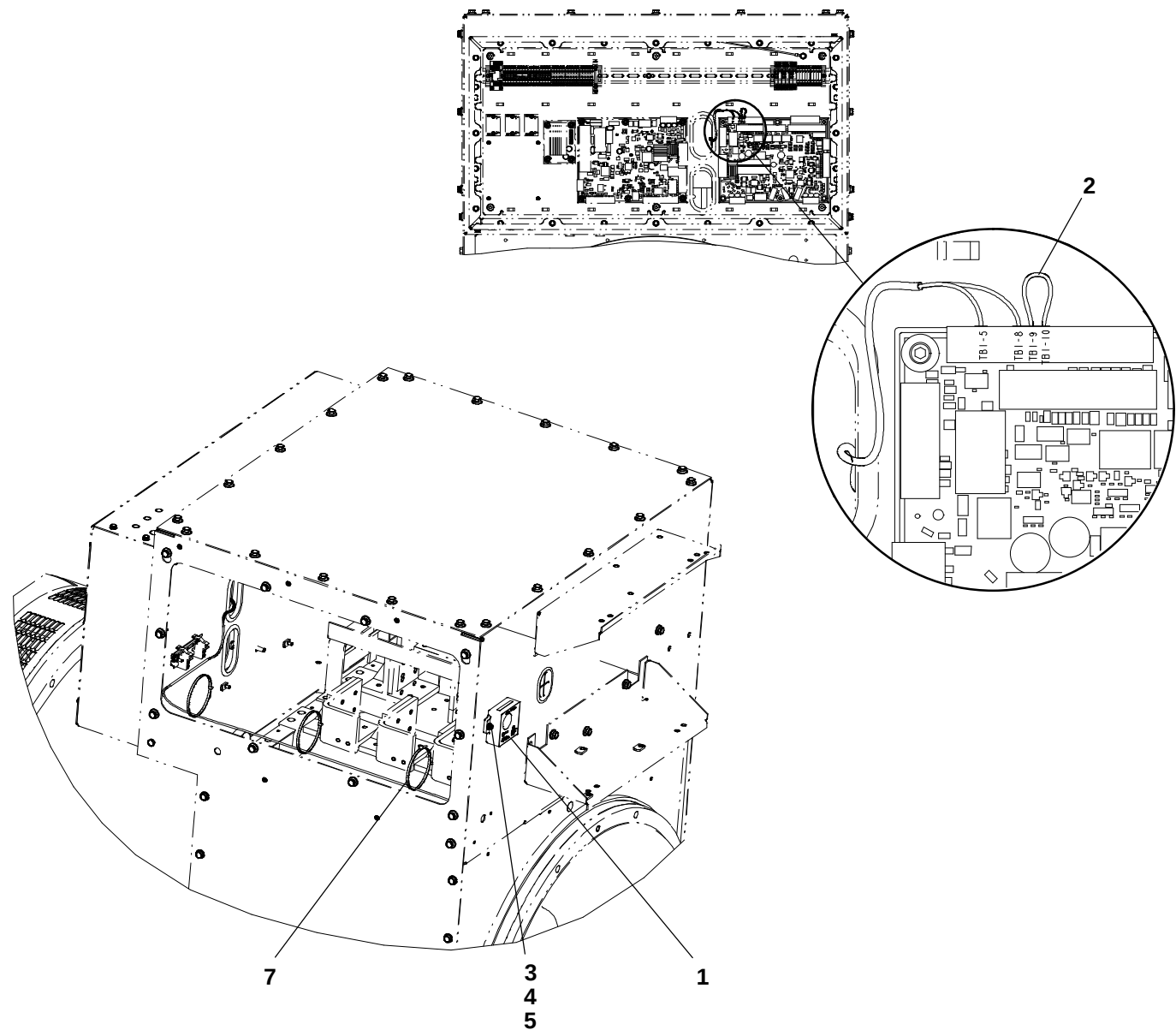
Item	Part No.	Description	Qty
1	0249-0855	Holder, Fuse	1
2	0321-0402-01	Fuse	1
3	0249-0818	Base, Relay	1
4	0307-3009-03	Timer	1
5	0307-3007-01	Clip, Timer	2
6	0307-3018	Relay, Temperature	1
7		Harness, Accessory	
	A041A000	Up to Spec C	1
	A057M096	Begin Spec D	1
8	0332-1389	Tie, Cable	3

High Alternator Temperature Shutdown – HC6



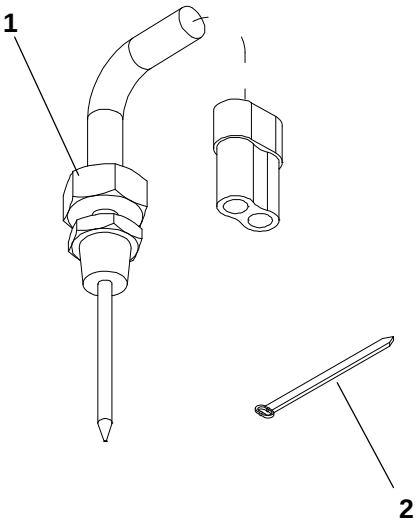
Item	Part No.	Description	Qty
1	0249-0855	Holder, Fuse	1
2	0321-0402-01	Fuse	1
3	0249-0818	Base, Relay	1
4	0307-3009-03	Timer	1
5	0307-3007-01	Clip, Timer	2
6	0307-3018	Relay, Temperature	1
7		Harness, Accessory	
	A040E908	Up to Spec C	1
	A057M112	Begin Spec D	1
8	0332-1389	Tie, Cable	3

Audible Alarm



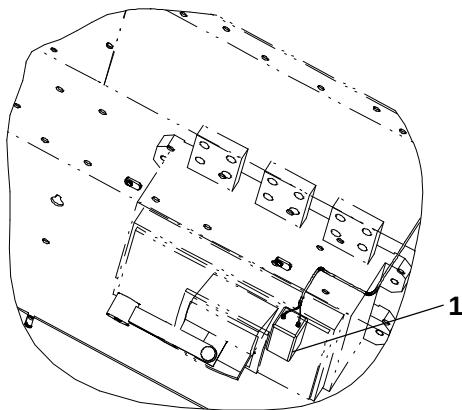
Item	Part No.	Description	Qty
1	0300-3998-01	Module, Alarm	1
2		Lead, Electrical	
	0226-4696	Up to Spec C	1
	A057M275	Begin Spec D	1
3	0800-3017-04	Screw, Hex Head	2
4	0526-0399-58	Washer, Flat	2
5	0850-0114-53	Washer, Lock	2
6	0898-1375	Sleeve, Insulation	1
7	0332-1389	Tie, Cable	3

Thermocouple

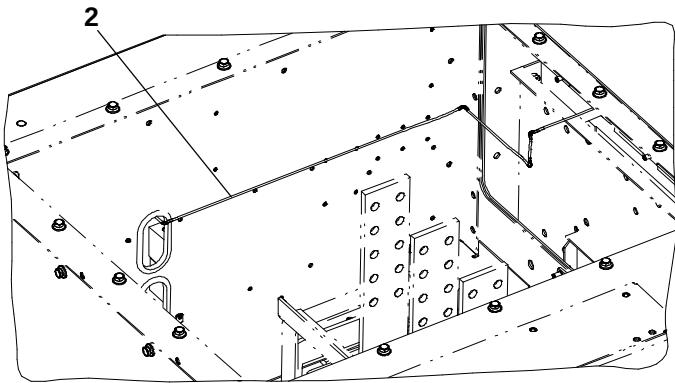


Item	Part No.	Description	Qty
1	0193-0446	Sender, Exhaust Gas Temperature	2
2		Tie, Cable	
	0332-1445	Up to Spec C	8
	A057G711	Begin Spec D	8

Circuit Breaker
Accessories



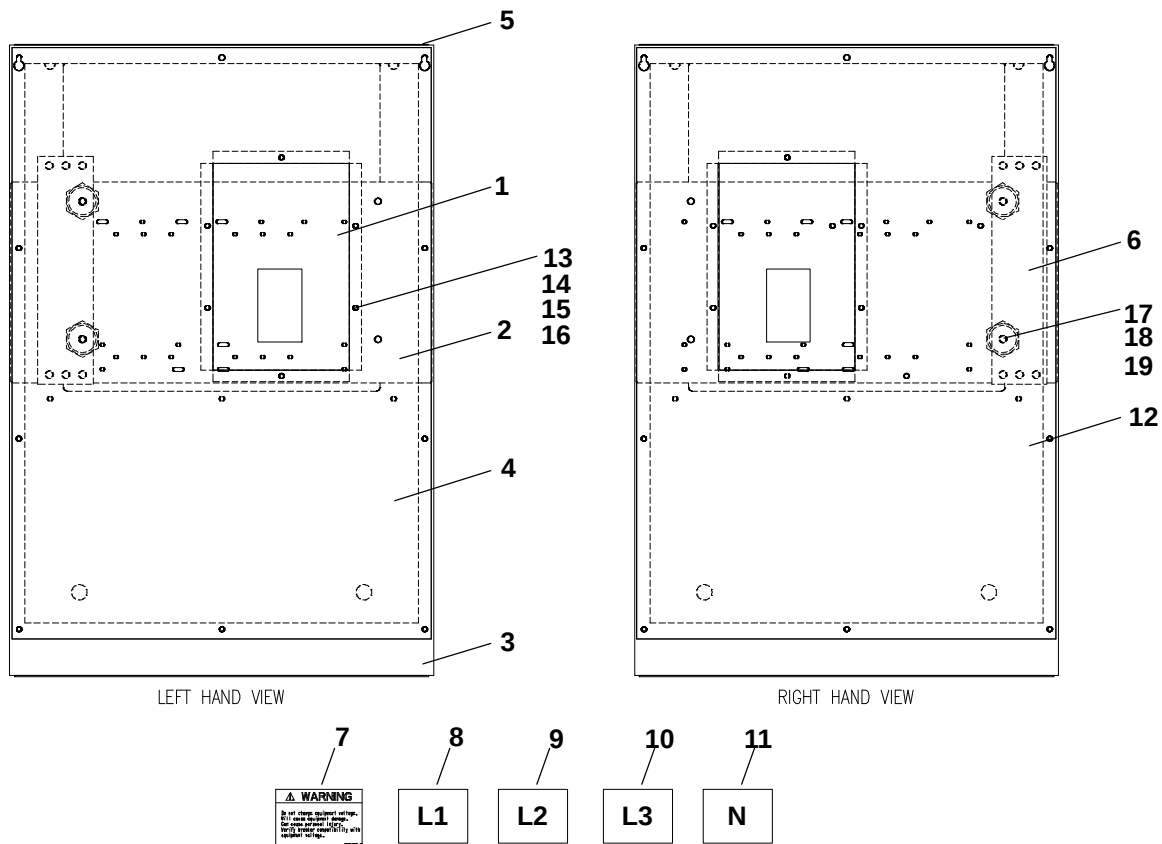
ACCESSORIES-CB ASSEMBLY IN BREAKER



WIRE ROUTING IN THE CONTROL BOX

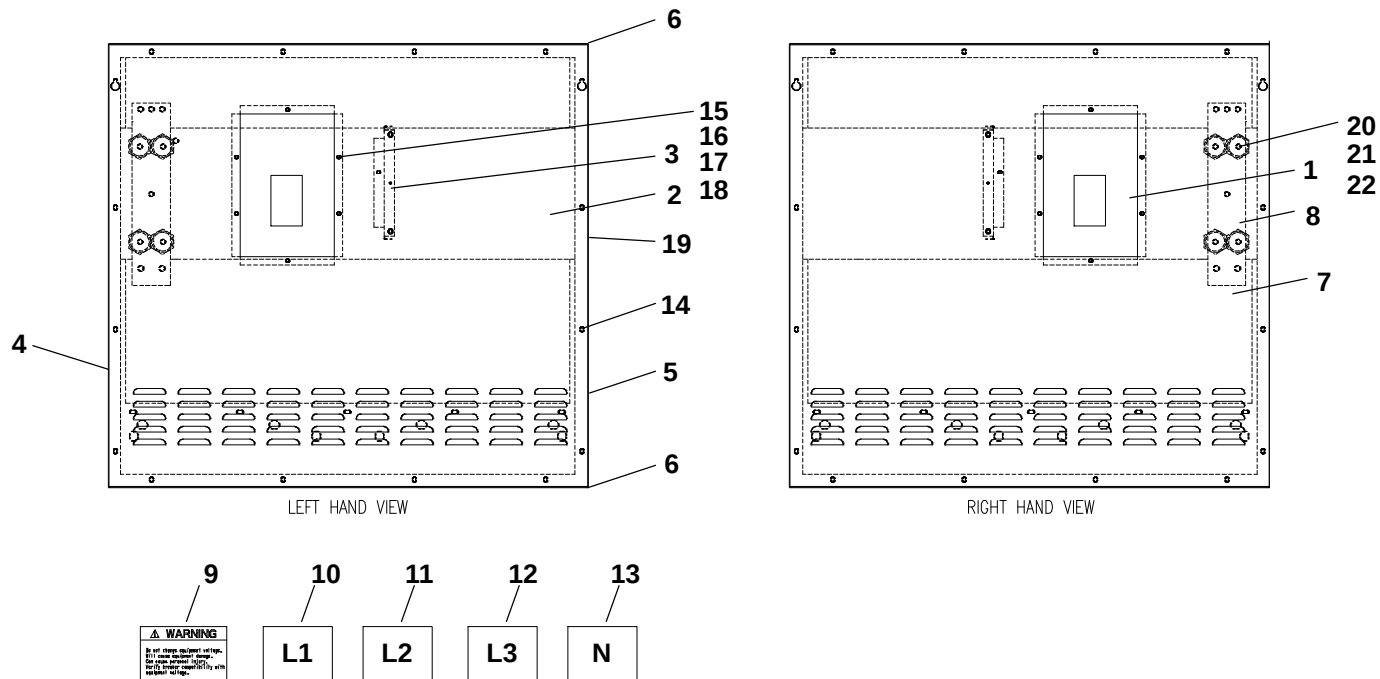
Item	Part No.	Description	Qty
1	0320-1981-01	Switch, SPDT	1
2	A040H462	Harness, Accessory	1

Circuit Breaker Panel (800–1600A) – HC5



Item	Part No.	Description	Qty
1	0319-4624	Cup, Switch	1
2	0319-4625	Bracket, Circuit Breaker	1
3	0319-4822	Box, Circuit Breaker	1
4	0319-4823	Cover, Circuit Breaker	1
5	0319-4824	Plate, Gland	2
6	0337-3581	Neutral Bar Assembly – 3 Pole (See Page 125 for Components)	1
7	0098-2304	Label, Warning	1
8	0098-8213-01	Label – L1	1
9	0098-8213-02	Label – L2	1
10	0098-8213-03	Label – L3	1
11	0098-8213-04	Label – N	1
12	0821-6002-03	Screw, Hex Head (M6 x 16)	39
13	0526-0399-58	Washer, Flat (M6)	12
14	0800-3017-03	Screw, Cap – Hex Head (M6 x 16)	6
15	0850-0114-53	Washer, Lock (M6)	6
16	0862-0026-54	Nut, Hex (M6)	6
17	0526-0399-62	Washer, Flat (M10) – 3 Pole	2
18	0800-3017-35	Screw, Cap – Hex Head (M10 x 16) – 3 Pole	2
19	0850-0114-55	Washer, Lock (M10) – 3 Pole	2

Circuit Breaker Panel (800–1600A) – HC6



Item	Part No.	Description	Qty
1	0319-4629	Cup, Switch	1
2	0319-4630	Bracket, Circuit Breaker	1
3	0319-3252	Brace, Circuit Breaker Cover	1
4	0319-4883	Box, Circuit Breaker – LH	1
5	0319-4884	Box, Circuit Breaker – RH	1
6	0319-4887	Plate, Gland	1
7		Cover, Circuit Breaker	
	0319-4885	LHS	1
	0319-4886	RHS	1
8	0337-3646-01	Neutral Bar Assembly – 3 Pole (See Page 126 for Components)	1
9	0098-2304	Label	1
10	0098-8213-01	Label – L1	1
11	0098-8213-02	Label – L2	1
12	0098-8213-03	Label – L3	1
13	0098-8213-04	Label – N	1
14	0821-6002-03	Screw, Hex Head (M6 x 16)	64
15	0526-0399-58	Washer, Flat (M6)	12
16	0800-3017-03	Screw, Cap – Hex Head (M6 x 16)	6
17	0850-0114-53	Washer, Lock (M6)	6
18	0862-0026-54	Nut, Hex (M6)	6
19	0821-6003-02	Screw, Hex Head (M8 x 20)	6
20	0526-0399-62	Washer, Flat (M10) – 3 Pole	4
21	0800-3017-35	Screw, Cap – Hex Head (M10 x 16) – 3 Pole	4
22	0850-0114-55	Washer, Lock (M10) – 3 Pole	4

The technical drawings show the front and side views of the device. The left hand view (left) and right hand view (right) are shown. Dimensions are indicated by numbers 1 through 22. Callouts 9, 10, 11, 12, and 13 point to the L1, L2, L3, and N models respectively. A warning label is shown at the bottom left.

LEFT HAND VIEW

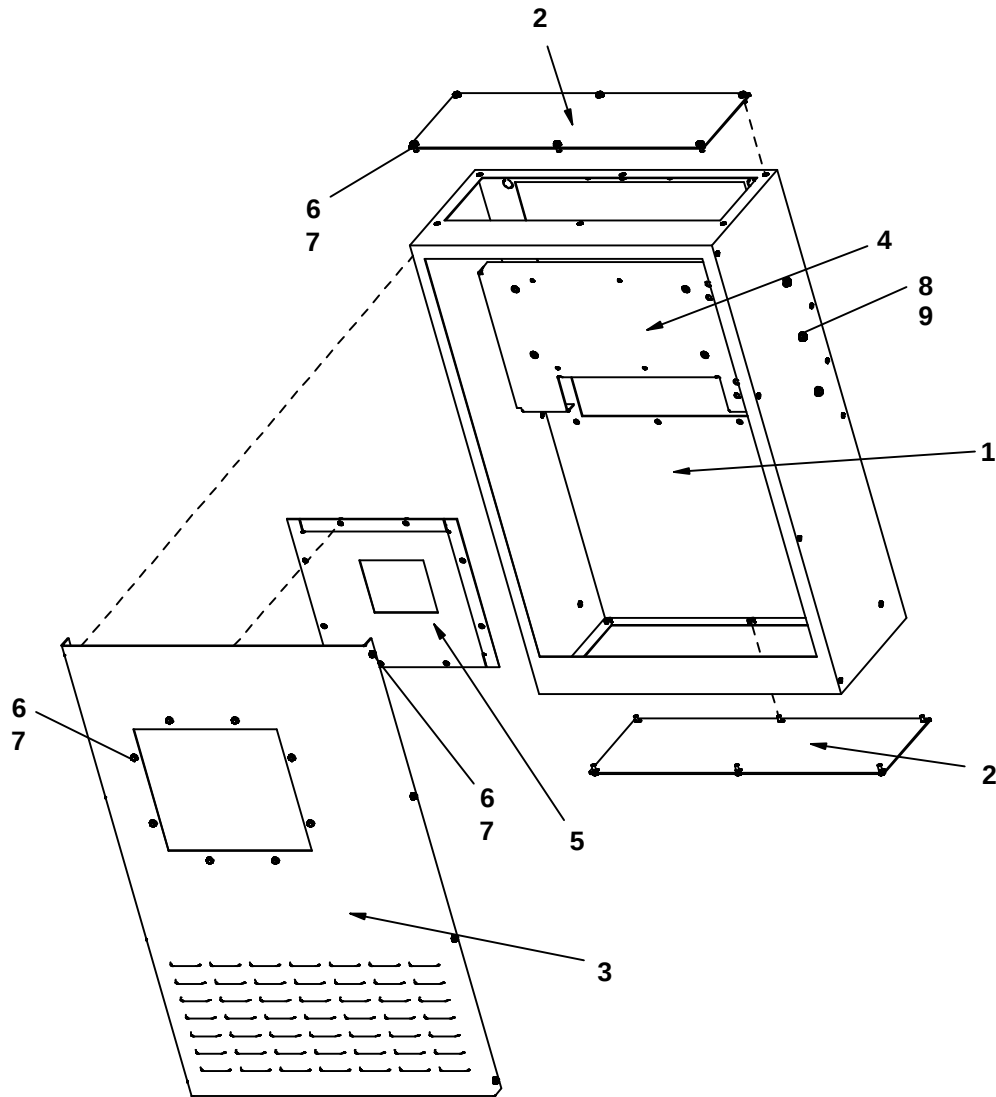
RIGHT HAND VIEW

9 **10** **11** **12** **13**

WARNING
Do not change, tamper, or modify.
Do not use the device in any way.
Do not use the device in any way.
Do not use the device in any way.

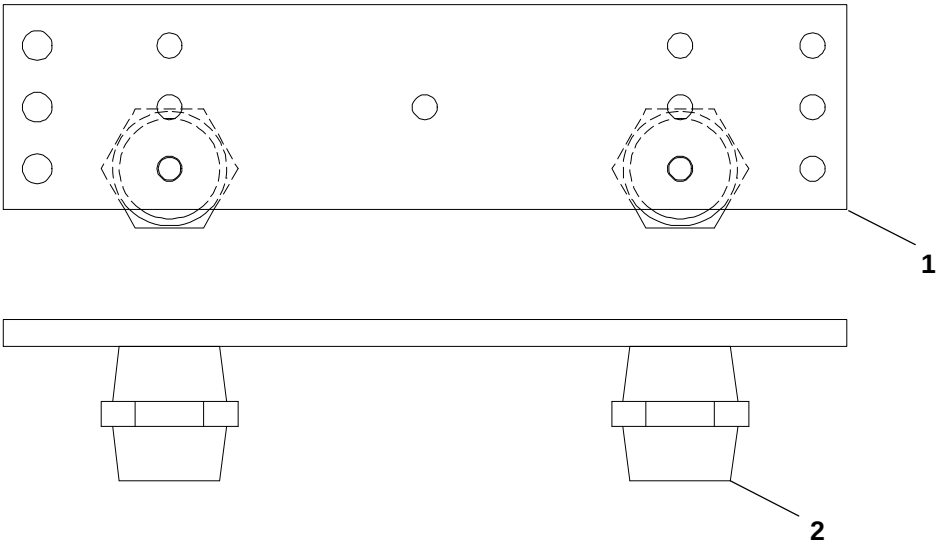
Item	Part No.	Description	Qty
1	0319-6331-02	Cup, Switch	1
2	0319-5315-02	Bracket, Circuit Breaker	1
3	0319-6332-02	Cover, Stiffener	1
4	0319-4883-02	Box, Circuit Breaker – LH	1
5	0319-4884-02	Box, Circuit Breaker – RH	1
6	0319-4887	Plate, Gland	2
7		Cover, Circuit Breaker	
	A034K044	LHS	1
	0319-6506-02	RHS	1
8	0337-3646-02	Neutral Bar Assembly – 3 Pole (See Page 126 for Components)	1
9	0098-2304	Label, Warning	1
10	0098-8213-01	Label – L1	1
11	0098-8213-02	Label – L2	1
12	0098-8213-03	Label – L3	1
13	0098-8213-04	Label – N	1
14	0821-6002-03	Screw, Hex Head (M6 x 16)	63
15	0526-0399-58	Washer, Flat (M6)	16
16	0800-3017-03	Screw, Cap – Hex Head (M6 x 16)	8
17	0850-0114-53	Washer, Lock (M6)	8
18	0862-0026-54	Nut, Hex (M6)	8
19	0821-6003-02	Screw, Hex Head (M8 x 20)	6
20	0526-0399-62	Washer, Flat (M10) – 3 Pole	4
21	0800-3017-35	Screw, Cap – Hex Head (M10 x 16) – 3 Pole	4
22	0850-0114-55	Washer, Lock (M10) – 3 Pole	4

Circuit Breaker Panel (800–2000A



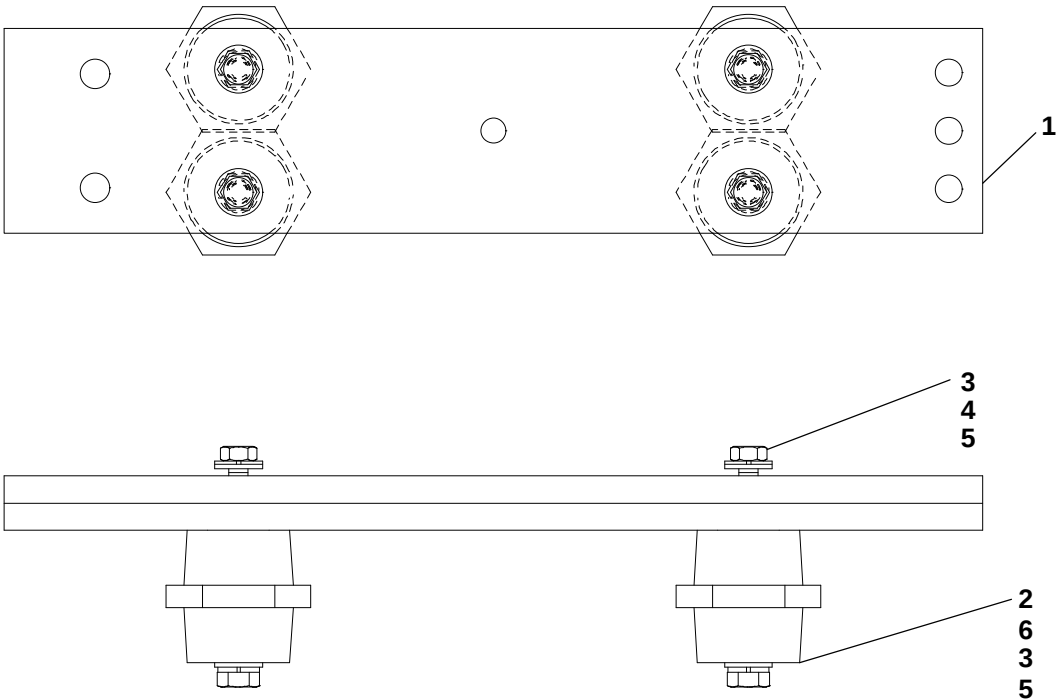
Item	Part No.	Description	Qty
1	A050V555	Panel, Circuit Breaker	1
2	A051M118	Cover, Circuit Breaker	2
3		Panel, Circuit Breaker	
	A050V581	800A/1600A	1
	A050W107	800A/1600A (Automatic)	1
	A050U781	2000A	1
4	A050U547	Bracket, Circuit Breaker	1
5	A050U959	Panel, Circuit Breaker	1
6	C041-0003	Washer, Flat	28
7	C370-0028-03	Screw, Hex Head	28
8	C041-004	Washer, Flat	6
9	C370-0029-03	Screw, Hex Head	6

Neutral Bar – HC5



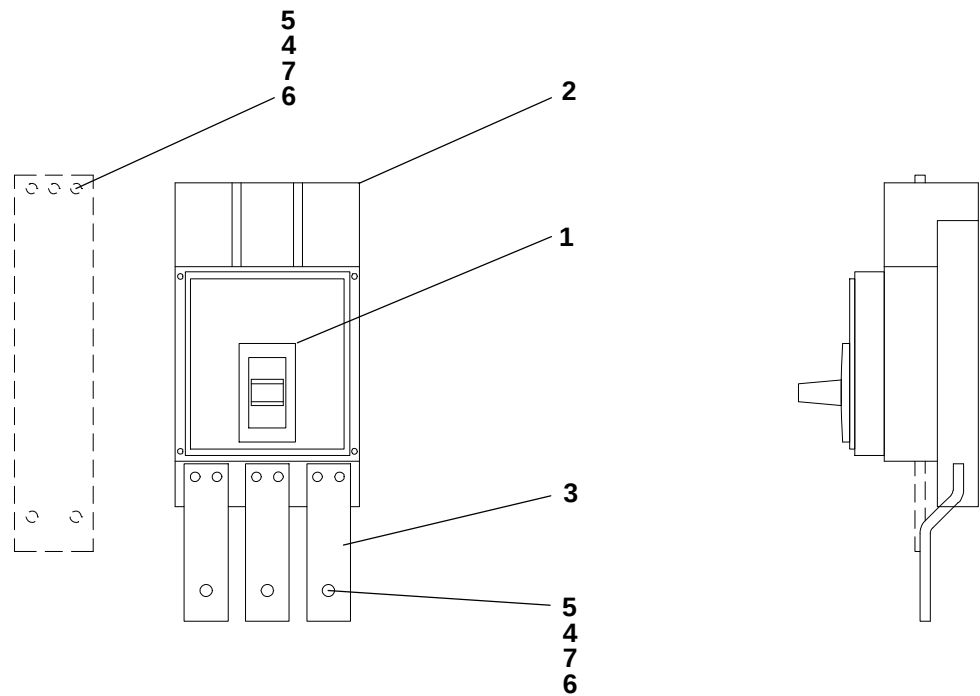
Item	Part No.	Description	Qty
1	0337-3580	Busbar, Neutral	1
2	0872-0013	Standoff, Insulator	2

Neutral Bar – HC6



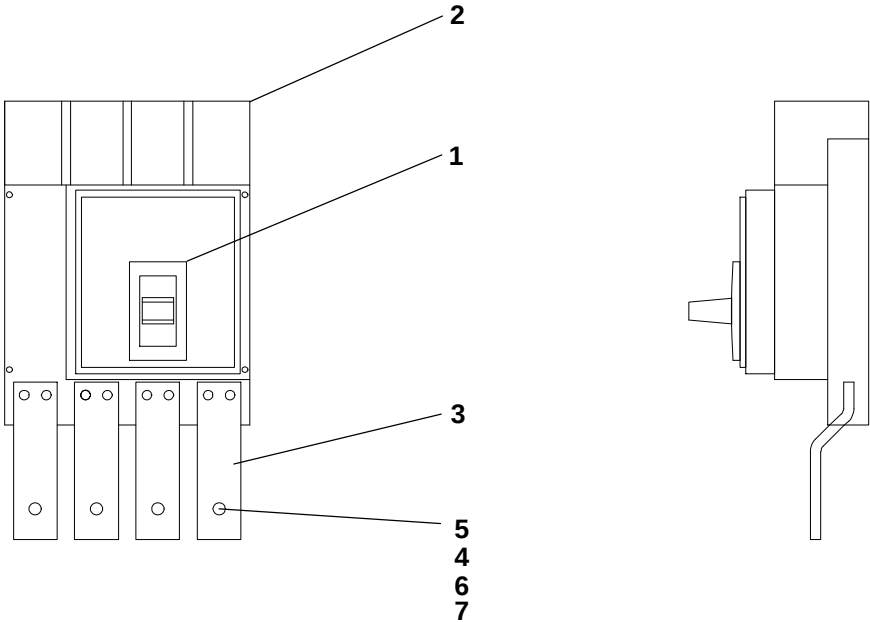
Item	Part No.	Description	Qty
1		Busbar, Neutral	
	0337-3645	800-1600A	1
	0337-3645	2000A	2
2	0872-0013	Standoff	4
3	0526-0399-62	Washer, Flat	8
4		Screw, Hex Head	
	0800-3017-37	800-1600A	4
	0800-3017-38	2000A	4
5	0850-0114-55	Washer, Lock	8
6	0800-3017-35	Screw, Hex Head	4

Circuit Breaker (1000A) 3P



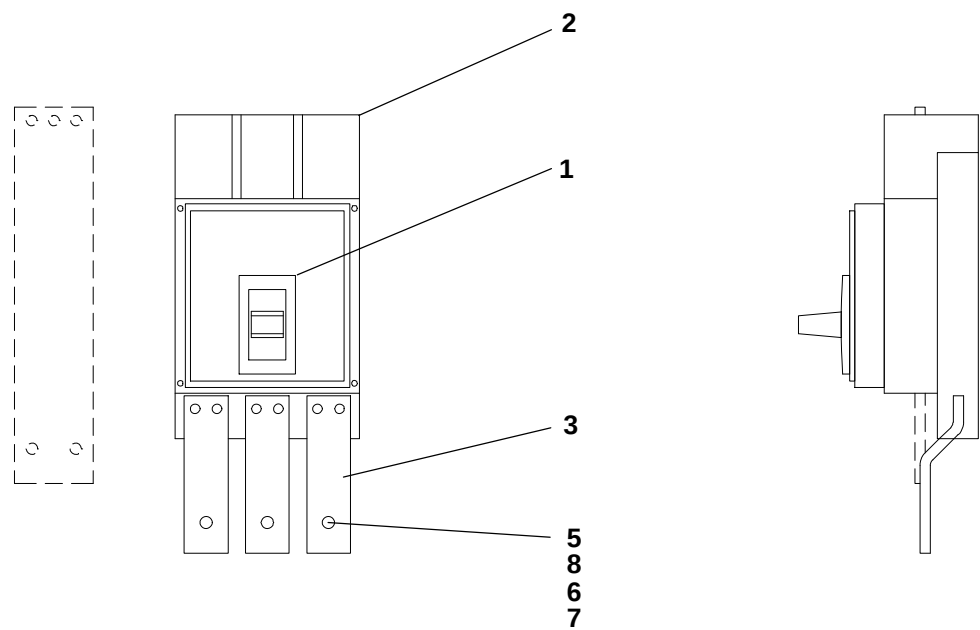
Item	Part No.	Description	Qty
1	C210-0003-03	Breaker, Circuit	1
2	0320-2079	Connector, Cable	1
3	0337-3551	Busbar, Load	3
4	C041-0006	Washer, Flat	20
5	C370-0031-07	Screw, Hex Head	10
6	C031-0007	Washer, Spring Lock	10
7	C380-0021	Nut, Hex	10
8	0337-3587-01	Lead, Earth (not shown)	2

Circuit Breaker (1000A) 4P



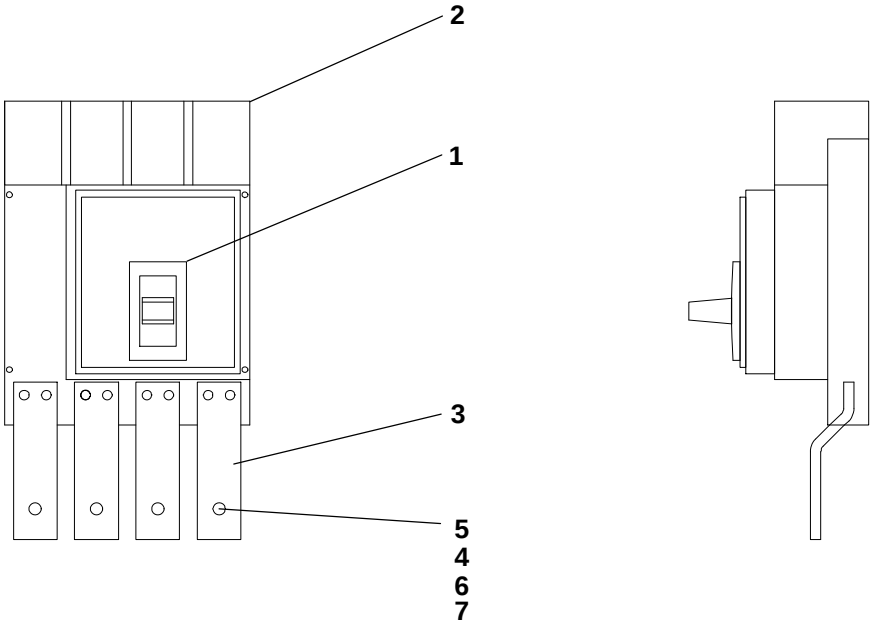
Item	Part No.	Description	Qty
1	0320-2064	Breaker, Circuit	1
2	0320-2080	Connector, Cable	1
3	0337-3551	Busbar, Load	3
4	C041-0006	Washer, Flat	20
5	C370-0031-07	Screw, Hex Head	10
6	C031-0007	Washer, Lock	10
7	C380-0021	Nut, Hex	10
8	0337-3587-01	Lead, Earth (not shown)	2

Circuit Breaker (1250A) 3P



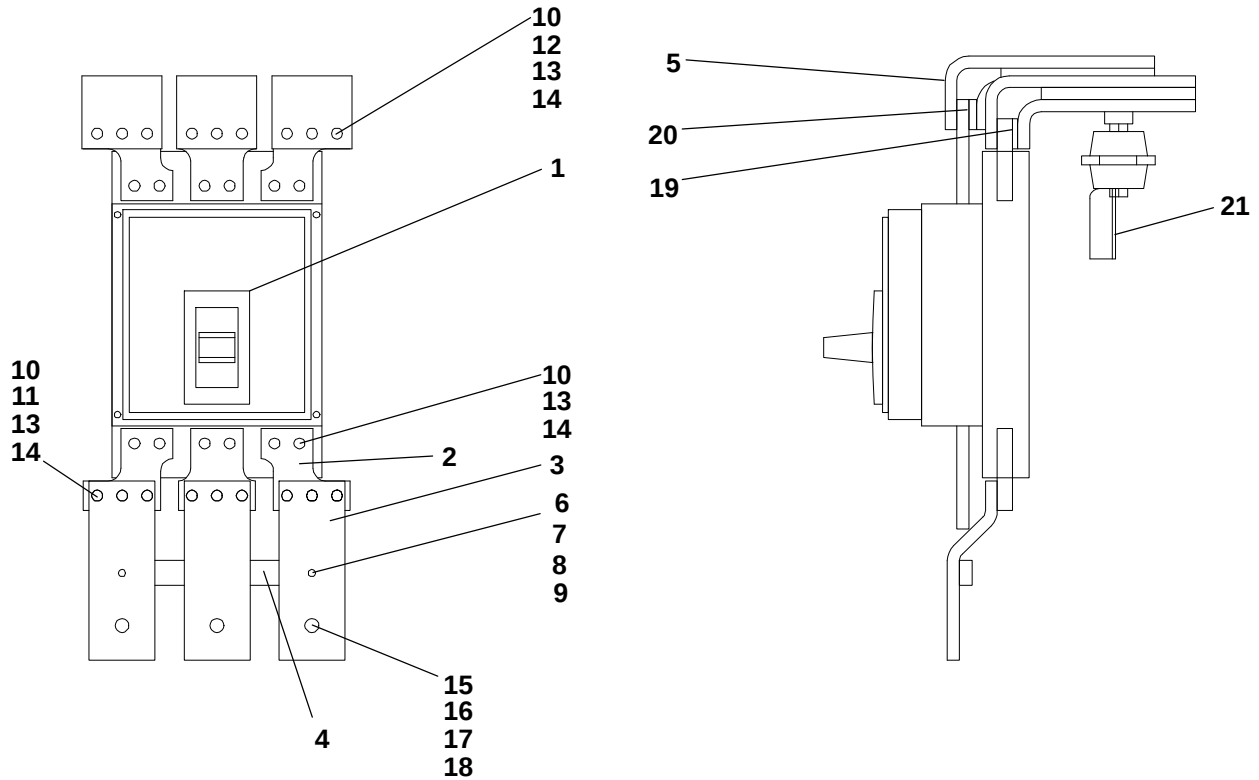
Item	Part No.	Description	Qty
1	0320-2065	Breaker, Circuit	1
2	0320-2079	Connector, Cable	1
3	0337-3551	Busbar, Load	3
4	C041-0006	Washer, Flat	20
5	C370-0031-07	Screw, Hex Head	10
6	C031-0007	Washer, Spring Lock	10
7	C380-0021	Nut, Hex	10
8	0337-3587-01	Lead, Earth (not shown)	2

Circuit Breaker (1250A) 4P



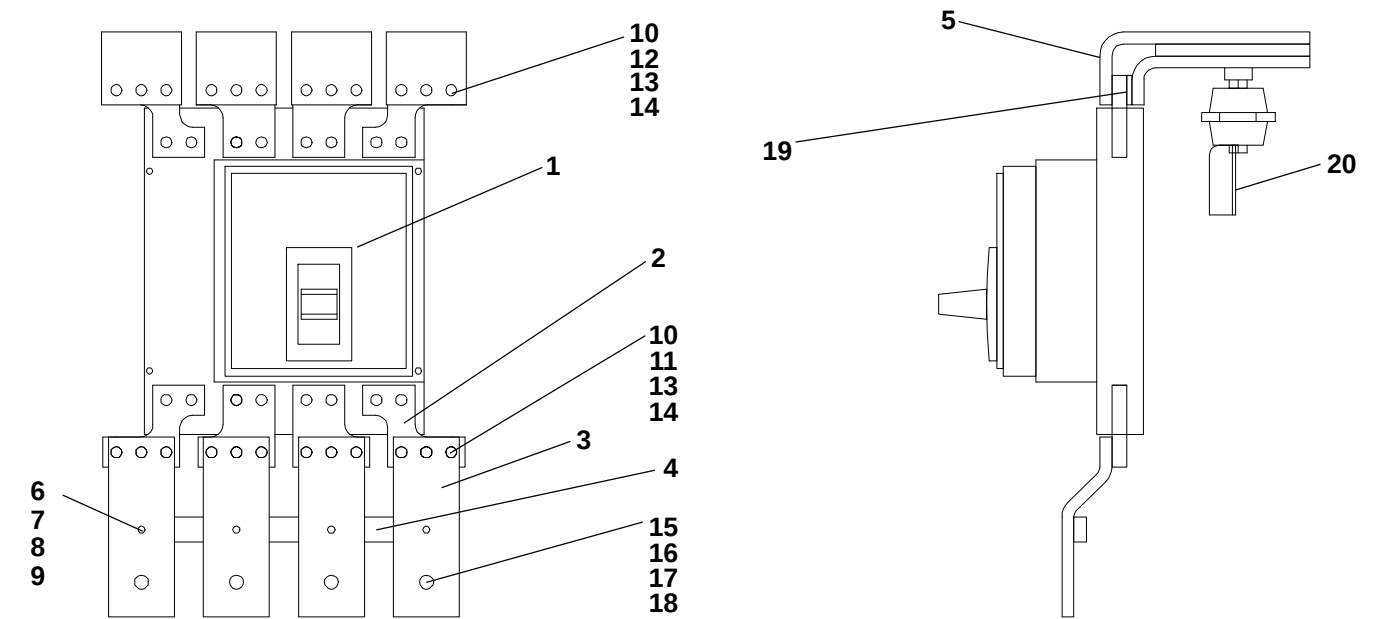
Item	Part No.	Description	Qty
1	0320-2066	Breaker, Circuit	1
2	0320-2080	Connector, Cable	1
3	0337-3551	Busbar, Load	4
4	0526-0399-64	Washer, Flat	8
5	0800-3017-58	Screw, Hex Head	4
6	0850-0114-56	Washer, Lock	4
7	0862-0026-57	Nut, Hex	4
	0337-3587-01	Lead, Earth	2

Circuit Breaker (1600A) 3P – HC6



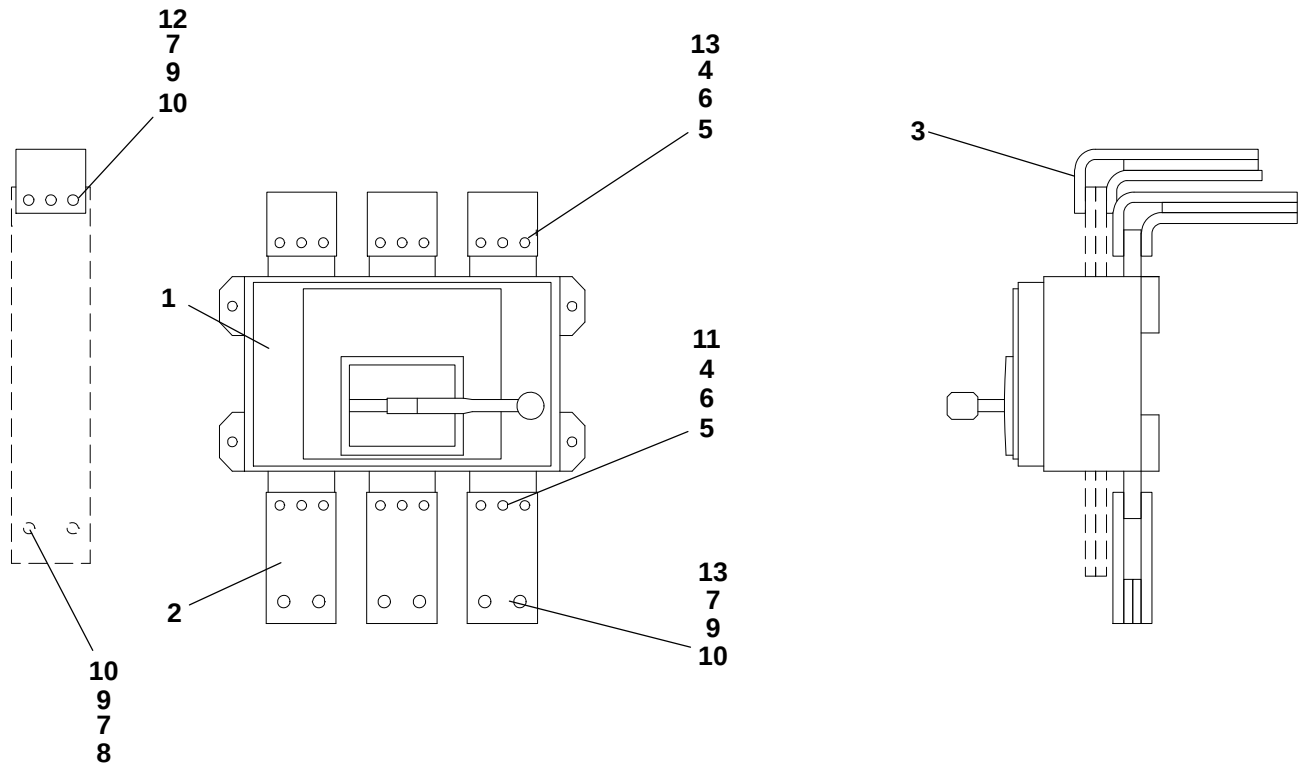
Item	Part No.	Description	Qty
1	0320-2067	Breaker, Circuit	1
2	0320-2089	Spreader, Terminal	2
3	0337-3552	Busbar, Load	3
4	0337-3606	Brace, Busbar	1
5	0337-3932	Busbar	4
6	C041-0006	Washer, Flat	20
7	C370-0031-07	Screw, Hex Head	10
8	C031-0007	Washer, Spring Lock	10
9	C380-0021	Nut, Hex	10
10	0526-0399-62	Washer, Flat	42
11	0800-3017-41	Screw, Hex Head	9
12	C370-0030-12	Screw, Hex Head	21
13	C031-0006	Washer, Lock	21
14	C380-0020	Nut, Hex	21
15	0526-0399-64	Washer, Flat	10
16	0800-3017-58	Screw, Hex Head	5
17	0850-0114-56	Washer, Lock	5
18	0862-0026-57	Nut, Hex	5
19	0337-3934	Spacer, Busbar	3
20	0337-3935	Spacer, Busbar	1
21	0300-6608	Control	1
	A034J210	Lead, Ground (not shown)	2

Circuit Breaker (1600A) 4P – HC6



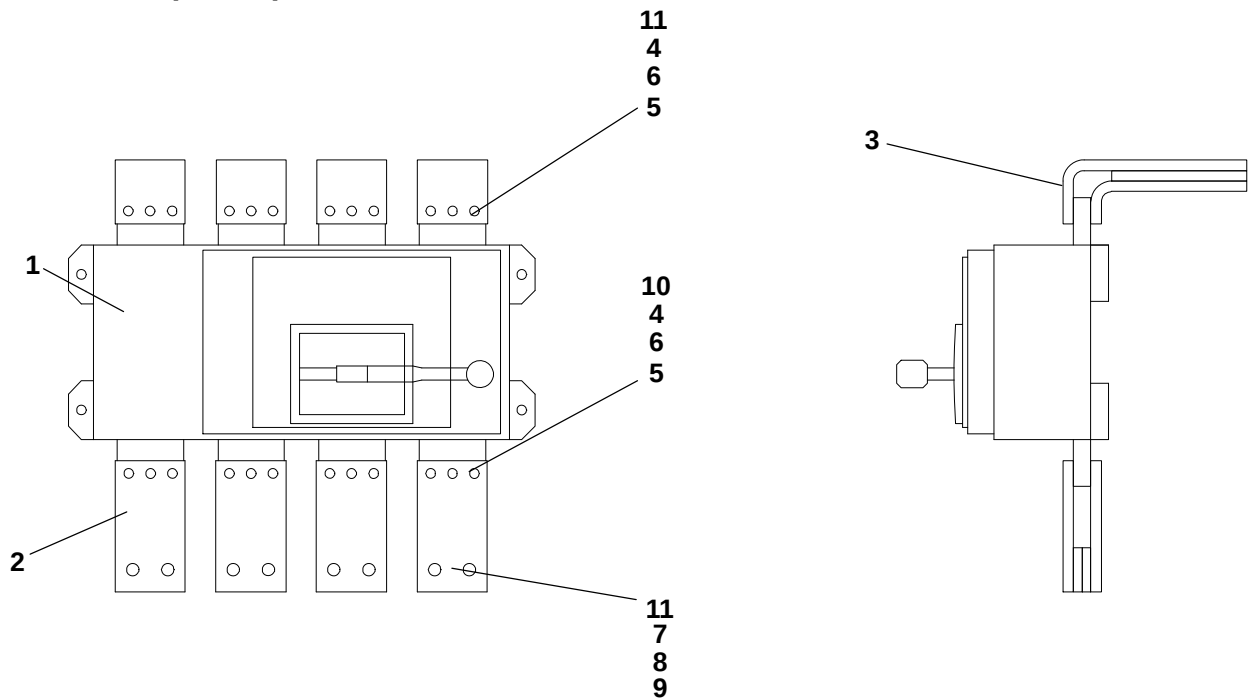
Item	Part No.	Description	Qty
1	0320-2068	Breaker, Circuit	1
2	0320-2090	Spreader, Terminal	2
3	0337-3552	Busbar, Load	4
4	0337-3617	Brace, Busbar	1
5	0337-3932	Busbar	4
6	0526-0399-58	Washer, Flat	8
7	0800-3017-08	Screw, Hex Head	4
8	0850-0114-53	Washer, Lock	4
9	0862-0026-54	Nut, Hex	4
10	0526-0399-62	Washer, Flat	48
11	0800-3017-41	Screw, Hex Head	12
12	0800-3017-44	Screw, Hex Head	12
13	0850-0114-55	Washer, Lock	24
14	0862-0026-56	Nut, Hex	24
15	0526-0399-64	Washer, Flat	8
16	0800-3017-58	Screw, Hex Head	4
17	0850-0114-56	Washer, Lock	4
18	0862-0026-57	Nut, Hex	4
19	0337-3934	Spacer, Busbar	4
20	0300-6622	Control	1
	A034J210	Lead, Ground	2

Circuit Breaker (2000A) 3P – HC6



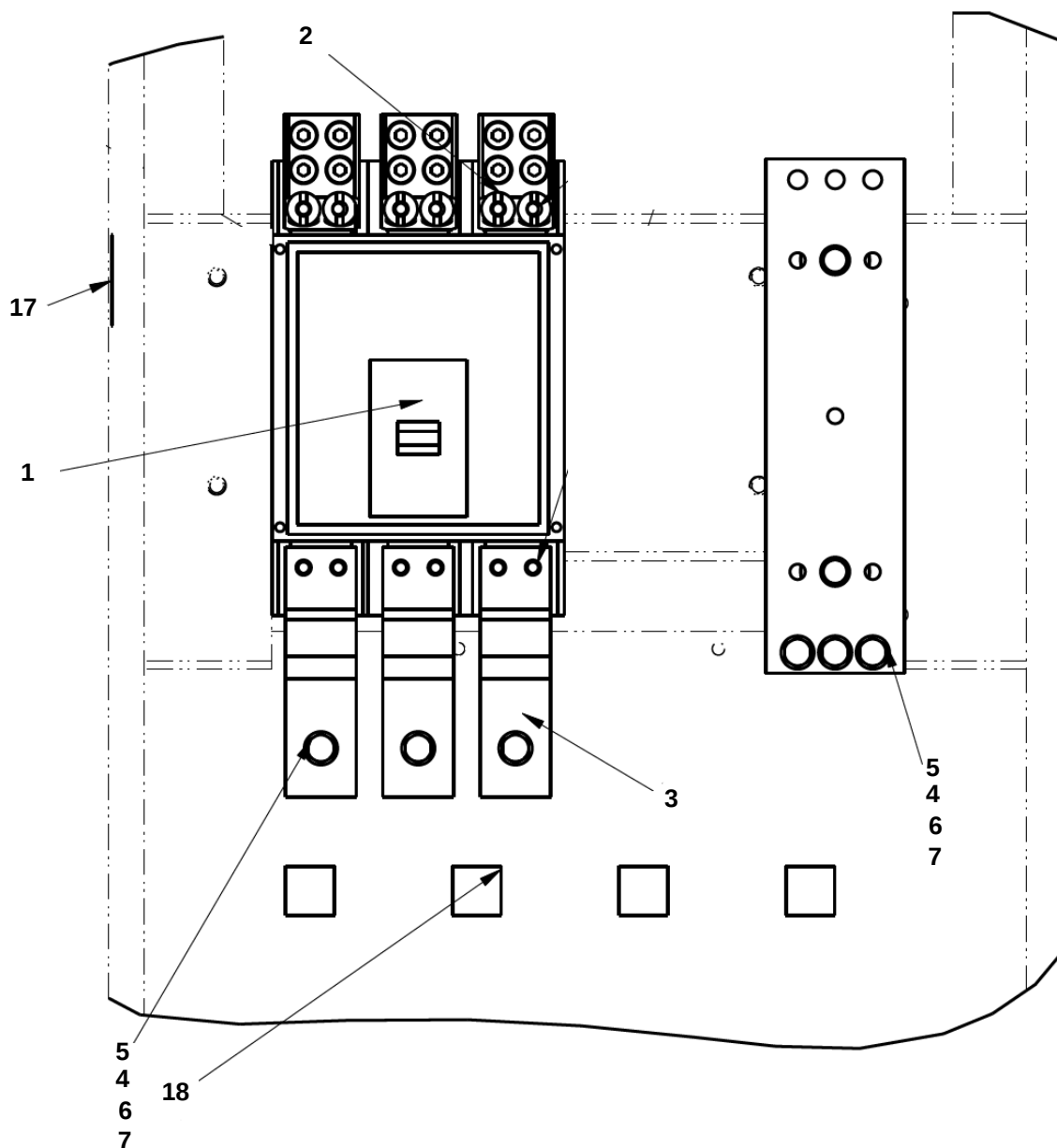
Item	Part No.	Description	Qty
1	0320-2233	Breaker, Circuit	1
2	0337-3676	Busbar, Load	6
3	0337-3932	Busbar	4
4	0526-0399-62	Washer, Flat	18
5	0850-0114-55	Washer, Lock	9
6	0862-0026-56	Nut, Hex	9
7	0526-0399-64	Washer, Flat	40
8	0800-3017-60	Screw, Hex Head	2
9	0850-0114-56	Washer, Lock	20
10	0862-0026-57	Nut, Hex	20
11	0800-3017-47	Screw, Hex Head	9
12	0800-3017-62	Screw, Hex Head	3
13	0800-3017-63	Screw, Hex Head	15
	A034J210	Lead, Ground	2
	0337-3677	Spacer, Busbar	6

Circuit Breaker (2000A) 4P – HC6

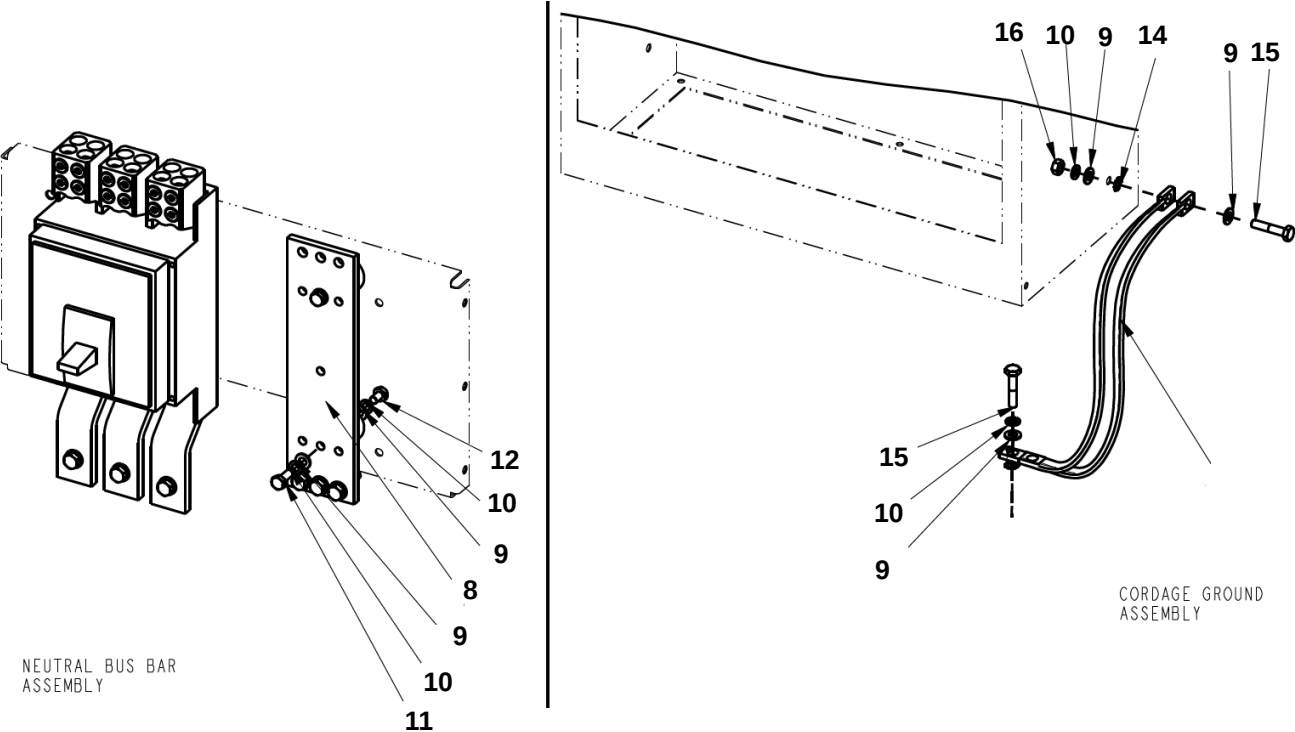


Item	Part No.	Description	Qty
1	0320-2234	Breaker, Circuit	1
2	0337-3676	Busbar, Load	8
3	0337-3932	Busbar	4
4	0526-0399-62	Washer, Flat	24
5	0850-0114-55	Washer, Lock	12
6	0862-0026-56	Nut, Hex	12
7	0526-0399-64	Washer, Flat	40
8	0850-0114-56	Washer, Lock	20
9	0862-0026-57	Nut, Hex	20
10	0800-3017-47	Screw, Hex Head	12
11	0800-3017-63	Screw, Hex Head	20
	A034J210	Lead, Ground	2
	0337-3677	Spacer, Busbar	8

Circuit Breaker Panel (1000–1600A)



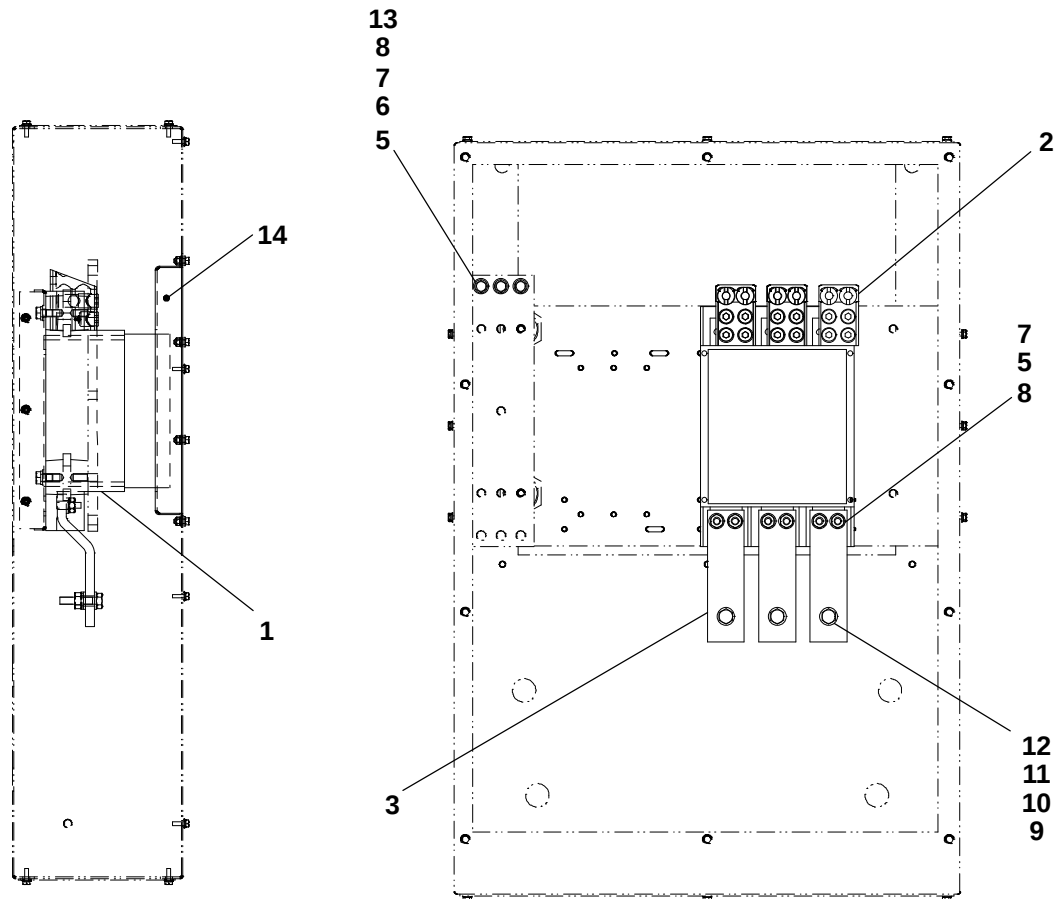
Circuit Breaker Panel (1000–1600A)



Circuit Breaker Panel (1000–1600A)

Item	Part No.	Description	Qty
1		Circuit, Breaker	
	C210-0003-02	1000A (Manual)	1
	C210-0003-03	1250A (Manual)	1
	C210-0003-04	1600A (Manual)	1
	C210-0031-02	1000A (Electric)	1
	C210-0031-03	1250A (Electric)	1
	C210-0031-04	1600A (Electric)	1
2	0320-2079	Connector, Cable	1
3	A051P411	Busbar	3
4	C041-0006	Washer, Flat	18
5	C370-0031-07	Screw, Hex Head	9
6	C031-0007	Washer, Spring Lock	9
7	C380-0021	Nut, Hex Head	9
8	A050J741	Busbar, Neutral	1
9	C041-0005	Washer, Flat	7
10	C031-0006	Washer, Spring Lock	6
11	C370-0030-03	Screw, Hex Head	2
12	C370-0030-01	Screw, Hex Head	2
13	0337-3597-01	Lead, Earth	2
14	C045-0004	Washer, Lock	2
15	C370-0030-08	Screw, Hex Head	2
16	C380-0020	Nut, Hex	1
17	C230-0002	Label	1
18	C230-0054	Label	1
19	A051W550	Lead, Electrical (Not Shown)	1

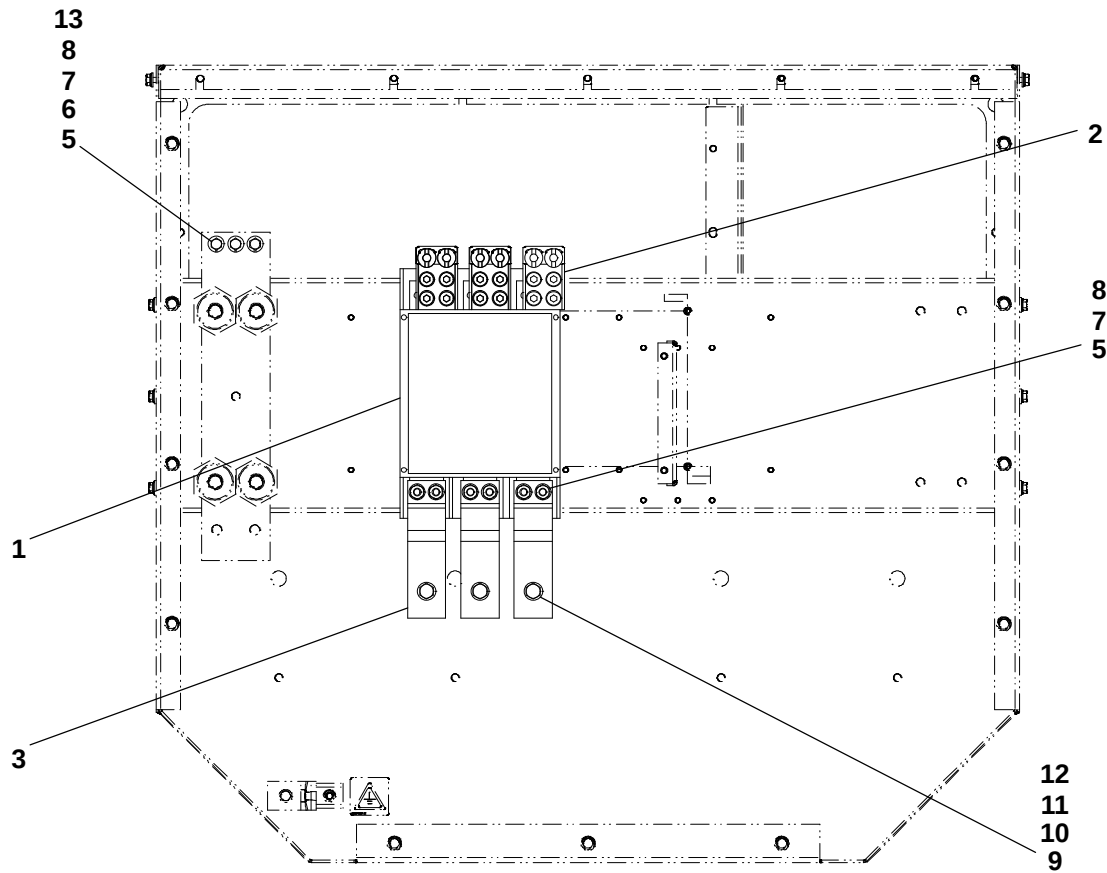
Motorized Circuit Breaker (1000, 1250A – 3P) – HC5



Right Hand Arrangement Shown

Item	Part No.	Description	Qty
1		Breaker, Circuit	
	0320-2099	1000A	1
	0320-2129	1250A	1
2	0320-2079	Connector, Cable	1
3	0337-3551	Busbar, Load	3
4	0337-3587-01	Lead, Earth (Not Shown)	2
5	0526-0399-62	Washer, Flat	18
6	0800-3017-38	Screw, Hex Head	3
7	0850-0114-55	Washer, Lock	12
8	0862-0026-56	Nut, Hex	12
9	0526-0399-64	Washer, Flat	10
10	0800-3017-58	Screw, Hex Head	5
11	0850-0114-56	Washer, Lock	5
12	0862-0026-57	Nut, Hex	5
13	0800-3017-40	Screw, Hex Head	3
14	A052U182	Cup, Switch	1

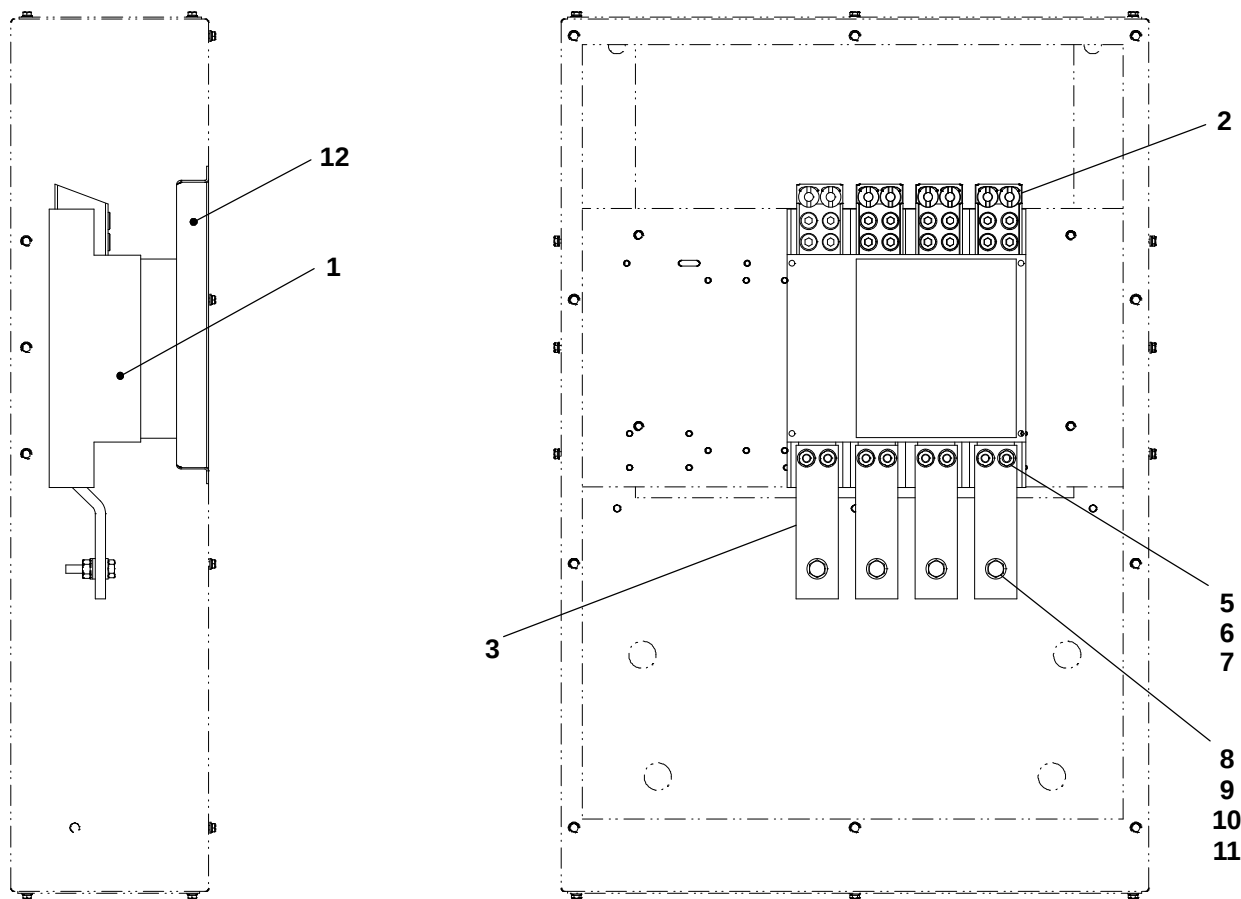
Motorized Circuit Breaker (1000, 1250A – 3P) – HC6



Left Hand Arrangement Shown

Item	Part No.	Description	Qty
1		Breaker, Circuit	
	0320-2099	1000A	1
	0320-2129	1250A	1
2	0320-2079	Connector, Cable	1
3	0337-3551	Busbar, Load	3
4	0337-3587-01	Lead, Earth (Not Shown)	2
5	0526-0399-62	Washer, Flat	18
6	0800-3017-38	Screw, Hex Head	3
7	0850-0114-55	Washer, Lock	12
8	0862-0026-56	Nut, Hex	12
9	0526-0399-64	Washer, Flat	10
10	0800-3017-58	Screw, Hex Head	5
11	0850-0114-56	Washer, Lock	5
12	0862-0026-57	Nut, Hex	5
13	0800-3017-40	Screw, Hex Head	3
14	A052U182	Cup, Switch (Not Shown)	1

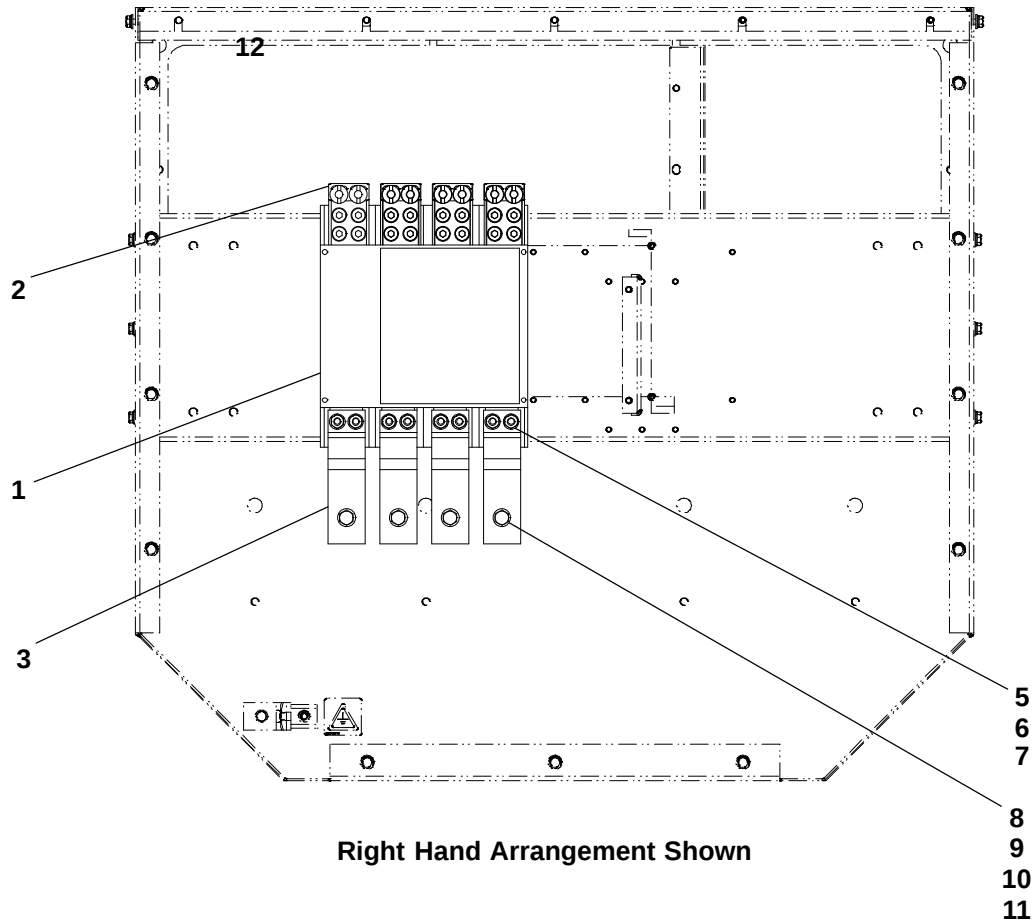
Motorized Circuit Breaker (1000, 1250A – 4P) – HC5



Right Hand Arrangement Shown

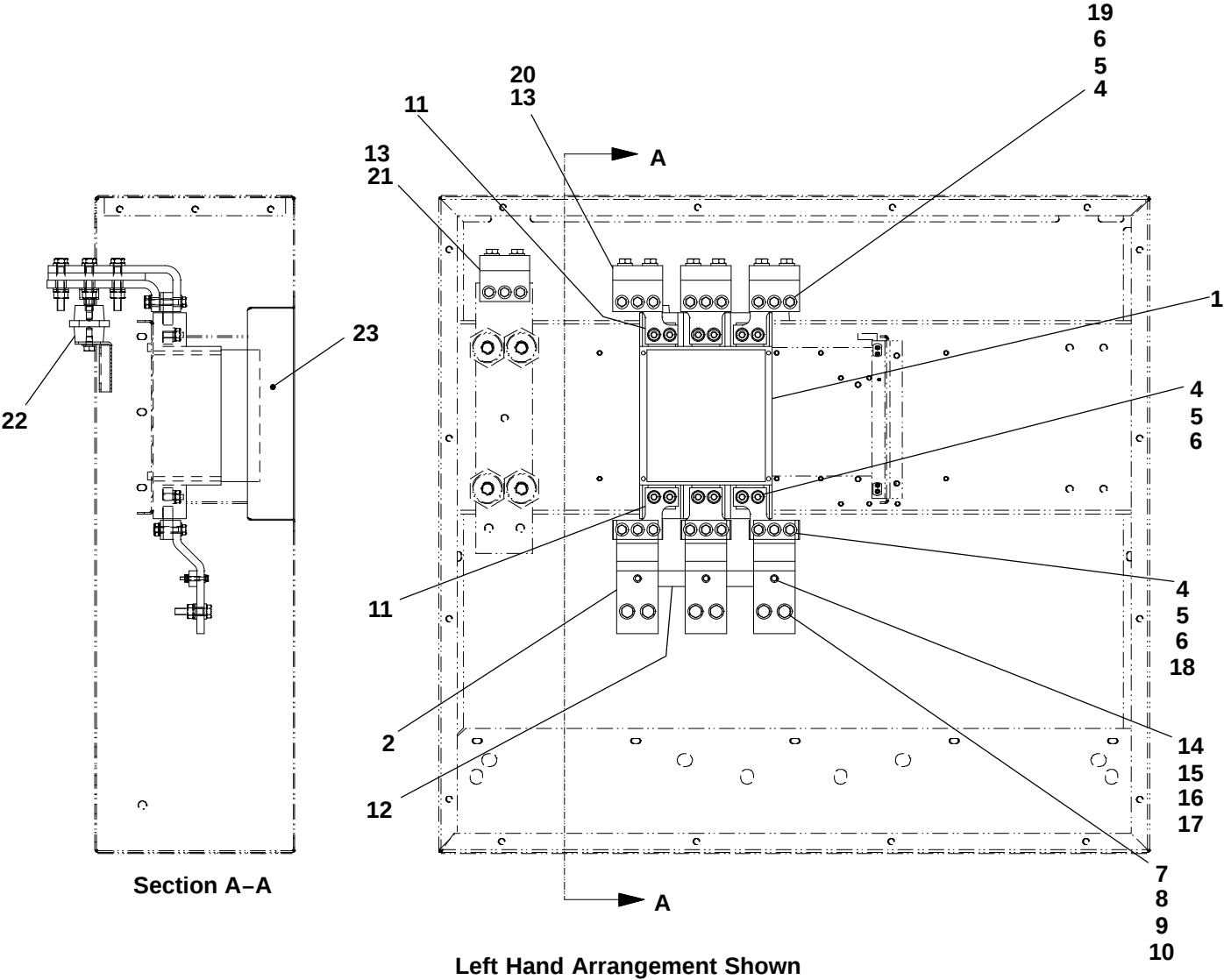
Item	Part No.	Description	Qty
1		Breaker, Circuit	
	0320-2115	1000A	1
	0320-2114	1250A	1
2	0320-2080	Connector, Cable	1
3	0337-3551	Busbar, Load	4
4	0337-3587-01	Lead, Earth (Not Shown)	2
5	0526-0399-62	Washer, Flat	8
6	0850-0114-55	Washer, Lock	8
7	0862-0026-56	Nut, Hex	8
8	0526-0399-64	Washer, Flat	8
9	0800-3017-58	Screw, Hex Head	4
10	0850-0114-56	Washer, Lock	4
11	0862-0026-57	Nut, Hex	4
12	A052U182	Cup, Switch	1

Motorized Circuit Breaker (1000, 1250A – 4P) – HC6



Item	Part No.	Description	Qty
1		Breaker, Circuit	
	0320-2115	1000A	1
	0320-2114	1250A	1
2	0320-2080	Connector, Cable	1
3	0337-3551	Busbar, Load	4
4	0337-3587-01	Lead, Earth (Not Shown)	2
5	0526-0399-62	Washer, Flat	8
6	0850-0114-55	Washer, Lock	8
7	0862-0026-56	Nut, Hex	8
8	0526-0399-64	Washer, Flat	8
9	0800-3017-58	Screw, Hex Head	4
10	0850-0114-56	Washer, Lock	4
11	0862-0026-57	Nut, Hex	4
12	A052U182	Cup, Switch	1

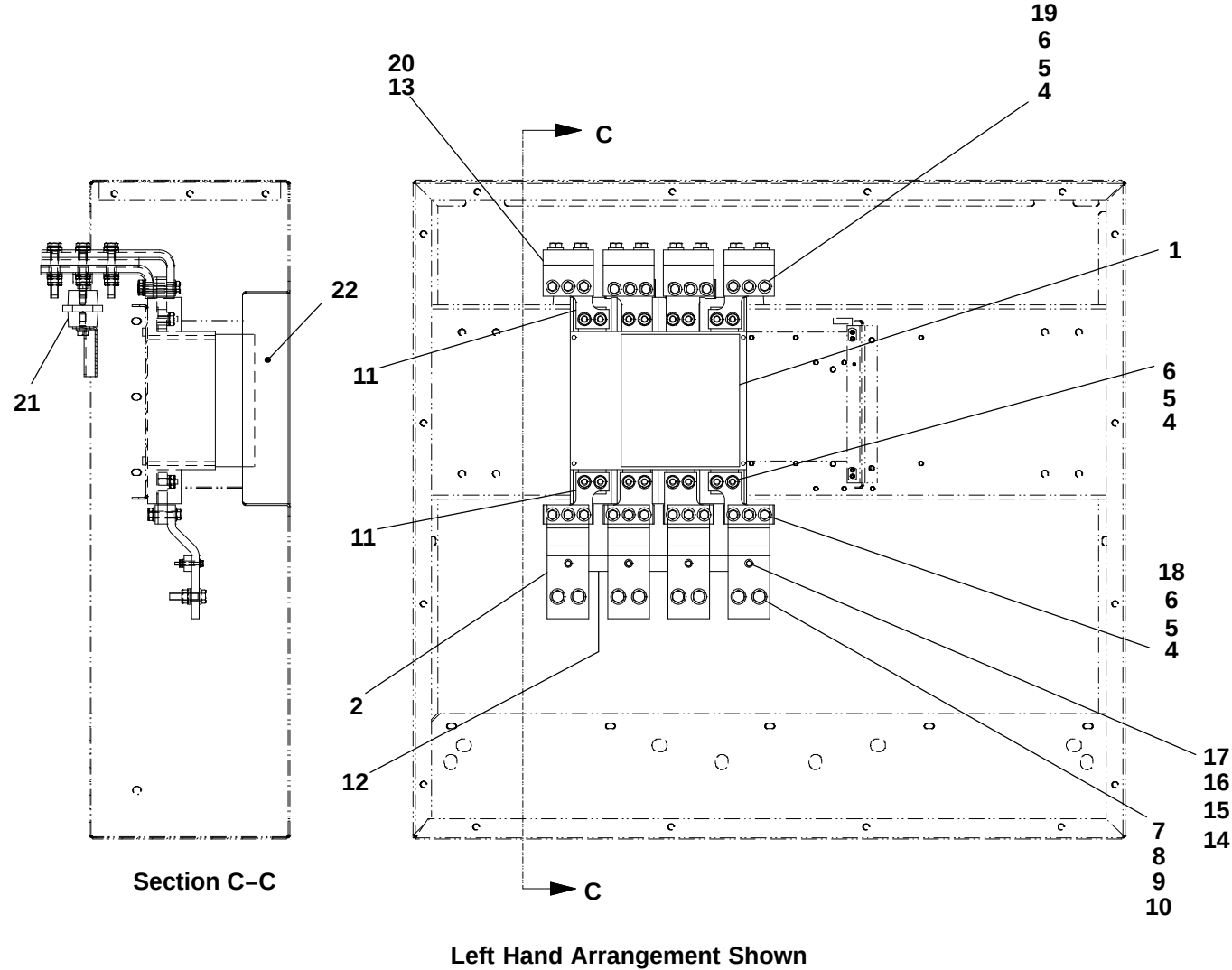
Motorized Circuit Breaker (1600A – 3P) – HC6



Motorized Circuit Breaker (1600A – 3P) – HC6

Item	Part No.	Description	Qty
1	0320-2130	Breaker, Circuit – 1600A	1
2	0337-3552	Busbar, Load	3
3	A034J210	Lead, Earth (Not Shown)	2
4	0526-0399-62	Washer, Flat	42
5	0850-0114-55	Washer, Lock	21
6	0862-0026-56	Nut, Hex	21
7	0526-0399-64	Washer, Flat	10
8	0800-3017-58	Screw, Hex Head	5
9	0850-0114-56	Washer, Lock	5
10	0862-0026-57	Nut, Hex	5
11	0320-2089	Spreader, Terminal	2
12	0337-3606	Brace, Busbar	1
13	0337-3932	Busbar	4
14	0526-0399-58	Washer, Flat	6
15	0800-3017-08	Screw, Hex Head	3
16	0850-0114-53	Washer, Lock	3
17	0862-0026-54	Nut, Hex	3
18	0800-3017-41	Screw, Hex Head	9
19	0800-3017-44	Screw, Hex Head	12
20	0337-3934	Spacer, Busbar	3
21	0337-3935	Spacer, Busbar	1
22	0300-6608	Control	1
23	A052T858	Cup, Switch	1

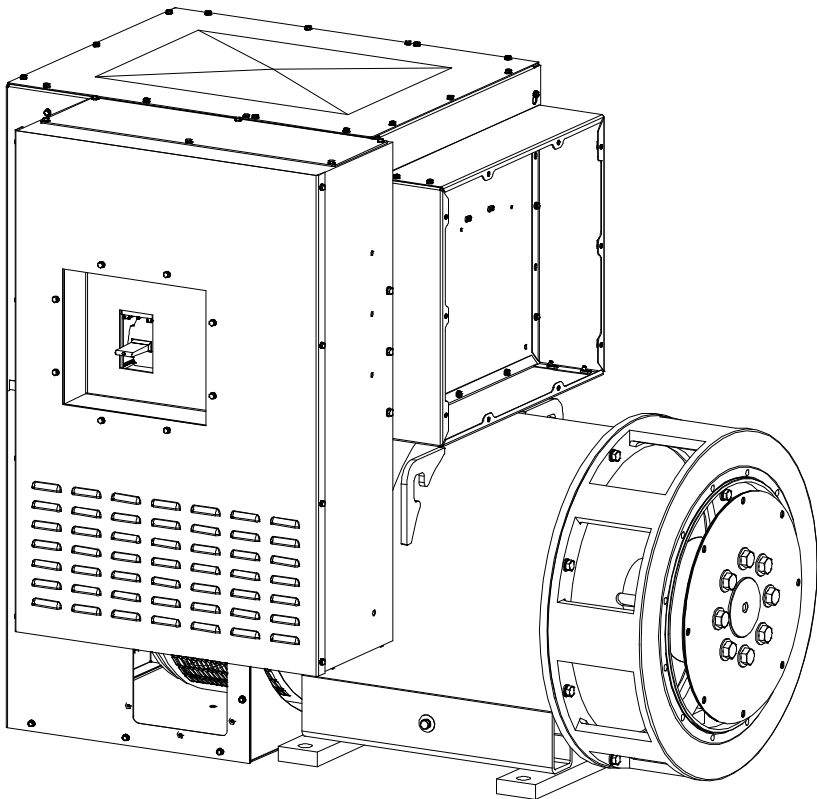
Motorized Circuit Breaker (1600A – 4P) – HC6



Motorized Circuit Breaker (1600A – 4P) – HC6

Item	Part No.	Description	Qty
1	0320-2131	Breaker, Circuit – 1600A	1
2	0337-3552	Busbar, Load	4
3	A034J210	Lead, Earth (Not Shown)	2
4	0526-0399-62	Washer, Flat	48
5	0850-0114-55	Washer, Lock	24
6	0862-0026-56	Nut, Hex	24
7	0526-0399-64	Washer, Flat	8
8	0800-3017-58	Screw, Hex Head	4
9	0850-0114-56	Washer, Lock	4
10	0862-0026-57	Nut, Hex	4
11	0320-2090	Spreader, Terminal	2
12	0337-3617	Brace, Busbar	1
13	0337-3932	Busbar	4
14	0526-0399-58	Washer, Flat	8
15	0800-3017-08	Screw, Hex Head	4
16	0850-0114-53	Washer, Lock	4
17	0862-0026-54	Nut, Hex	4
18	0800-3017-41	Screw, Hex Head	12
19	0800-3017-44	Screw, Hex Head	12
20	0337-3934	Spacer, Busbar	4
21	0300-6622	Control	1
22	A052T858	Cup, Switch	1

ABB Circuit Breakers
Manual Circuit Breaker (ABB) 1000A, 1250A (Illustration #1)

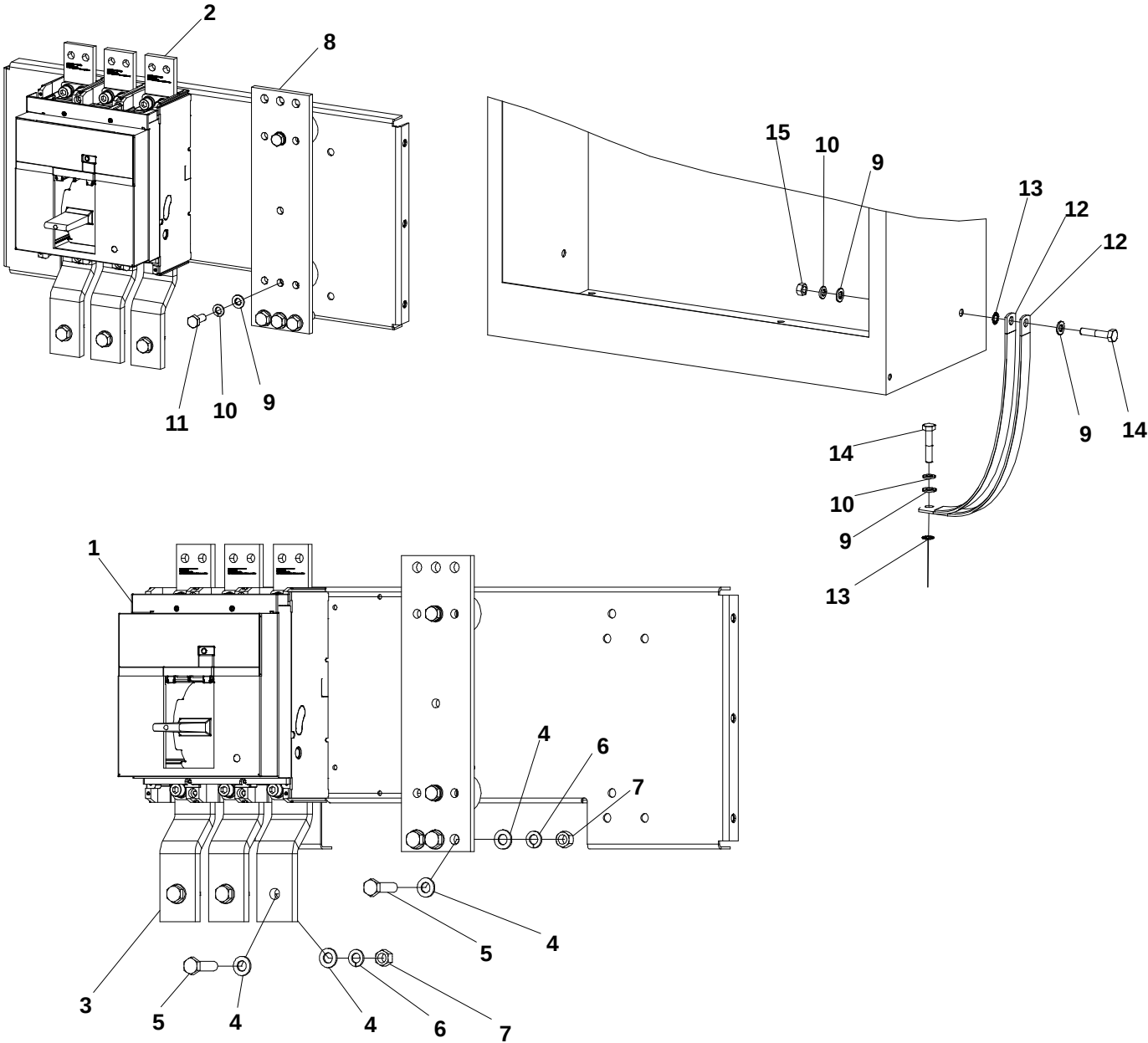


Manual Circuit Breaker

Item	Part No.	Description	Qty
1	A074K863	Installation, Circuit Breaker (See Page 149 for Components)	1
2	A050L437	Cover, Control Box (See Page 151 for Components)	1
3	A073P303	Installation, Circuit Breaker (See Page 152 for Components)	1
4	A073T612	Lead, Electrical (See Page 161 for Components)	1

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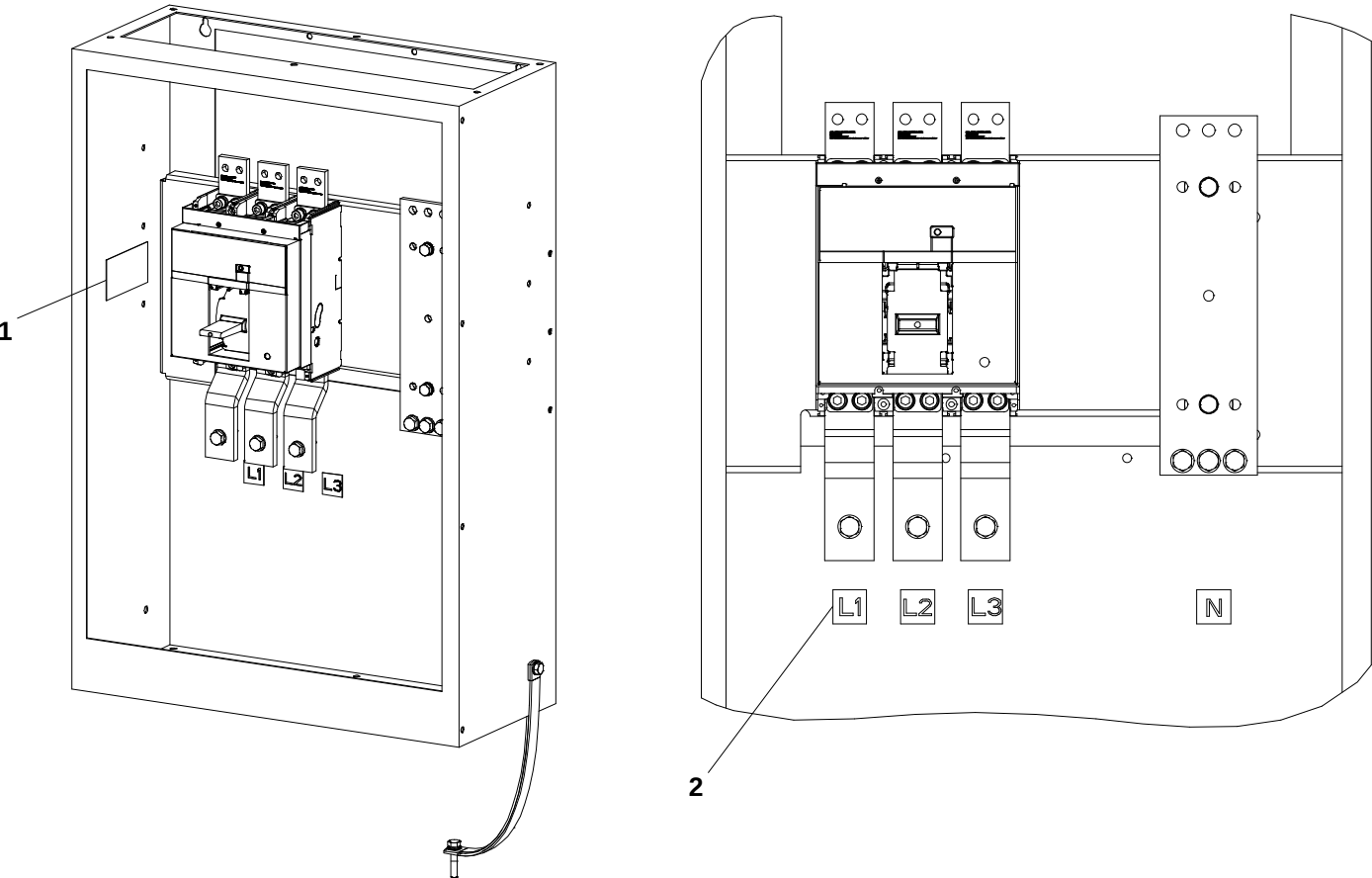
Manual Circuit Breaker (ABB) 1000A, 1250A (Illustration #2)



Manual Circuit Breaker (ABB) 1000A, 1250A (Illustration #2)

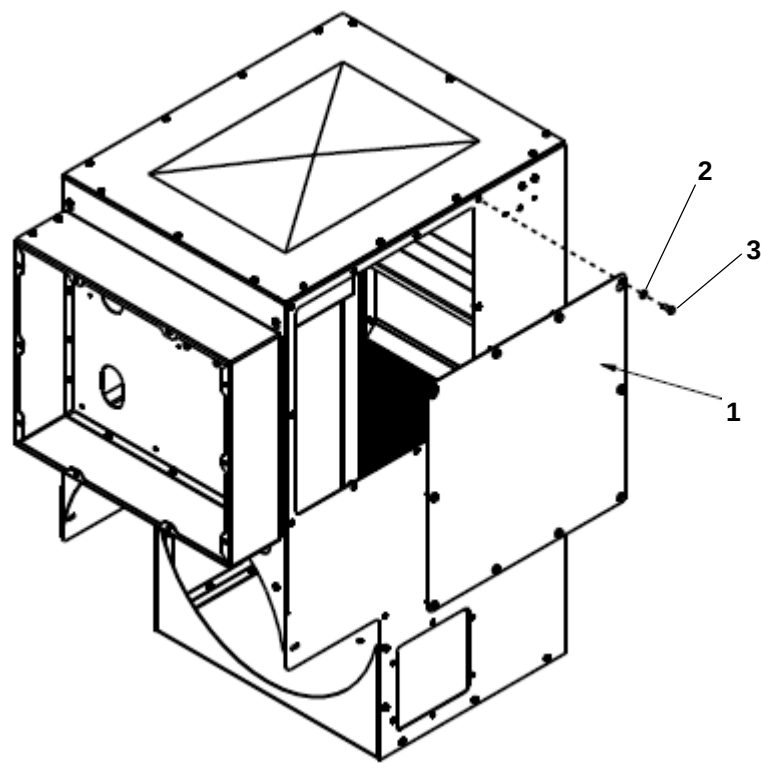
Item	Part No.	Description	Qty
1		Breaker, Circuit	
	A072H639	1000A	1
	A072H640	1250A	1
2	A054D998	Busbar	3
3	A051P411	Busbar	3
4	C041-0006	Washer, Flat	12
5	C370-0031-07	Screw, Hex Head	6
6	C031-0007	Washer, Spring	6
7	C380-0021	Nut, Hex	6
8	A050J741	Busbar, Neutral	1
9	C041-0005	Washer, Flat	7
10	C031-0006	Washer, Spring	6
11	C370-0030-03	Screw, Hex Head	2
12	0337-3587-01	Lead, Earth	2
13	C045-0004	Washer, Lock	2
14	C370-0030-08	Screw, Hex Head	2
15	C380-0020	Nut, Hex	1

Manual Circuit Breaker (ABB) 1000A, 1250 (Illustration #3)



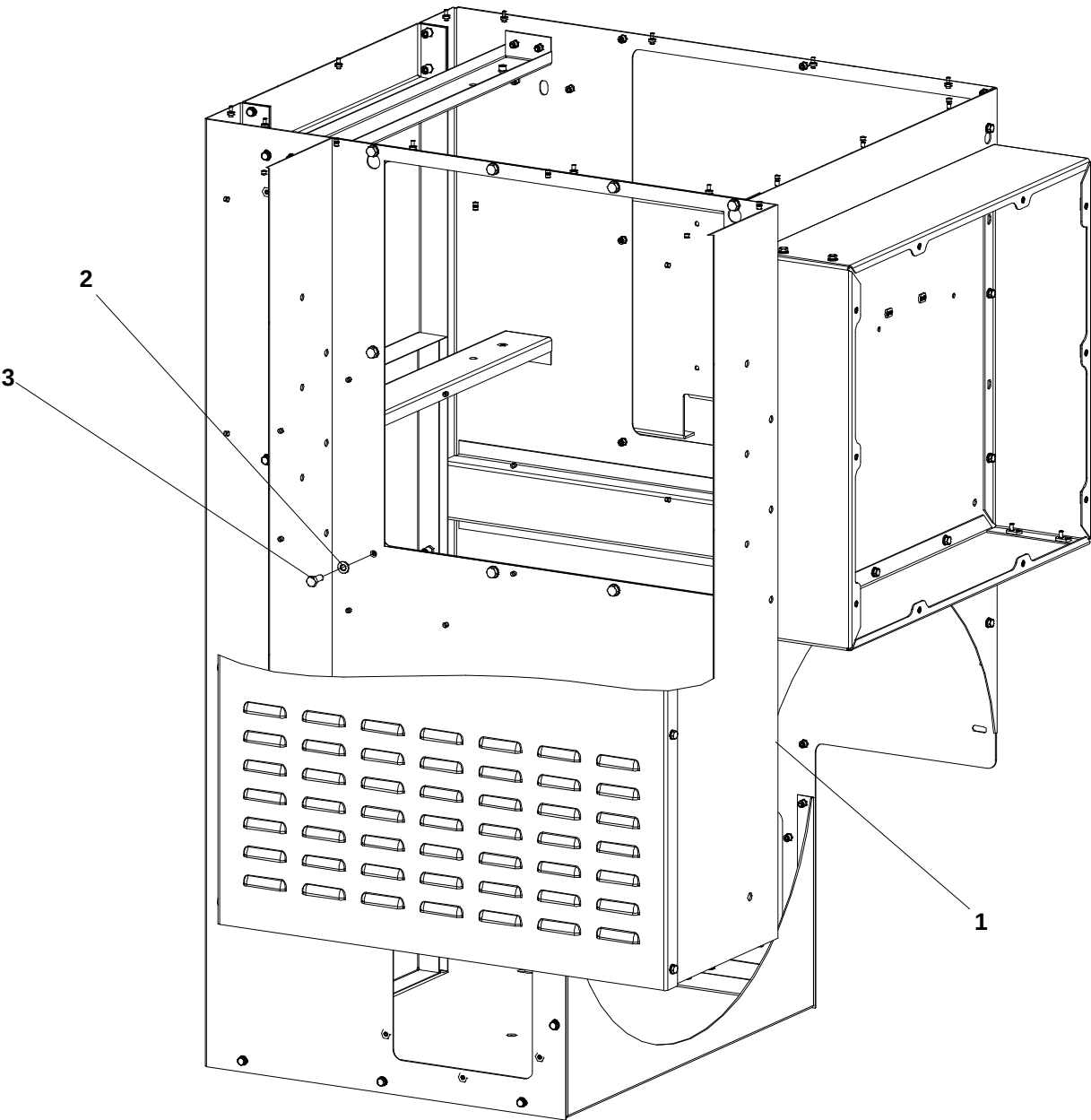
Item	Part No.	Description	Qty
1	C230-0002	Label	1
2	C230-0054	Label	1
3	C140-0004	Mount, Cable Tie (Not Shown)	3

Manual Circuit Breaker (ABB) 1000A, 1250A (Illustration #4)



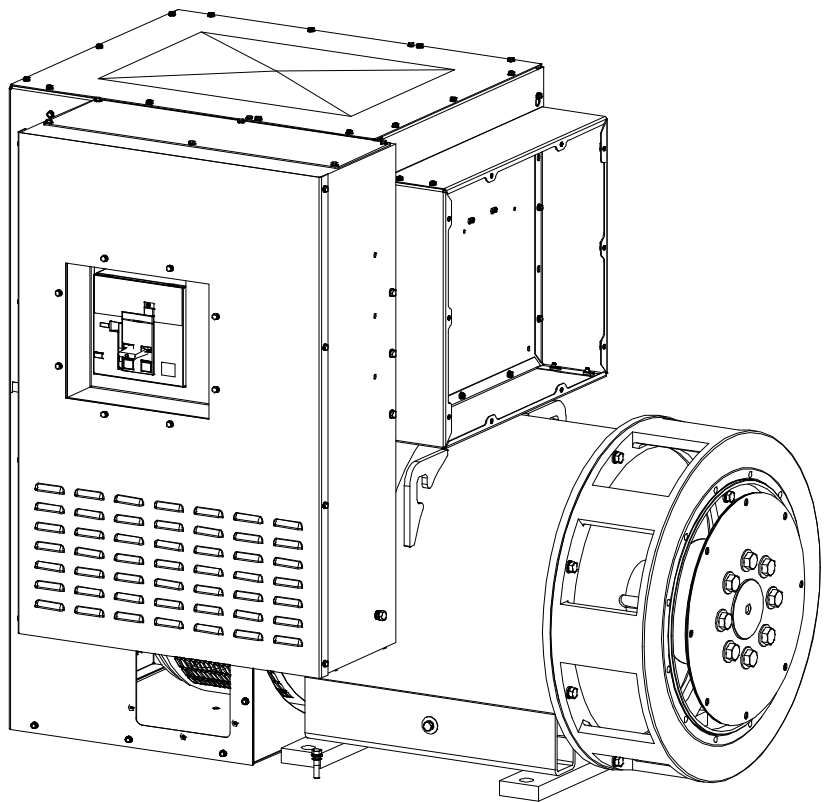
Item	Part No.	Description	Qty
1	A051D225	Cover, Control	1
2	C041-0004	Washer, Flat	10
3	C370-0029-03	Screw, Hex Head	10

Manual Circuit Breaker (ABB) 1000A, 1250A (Illustration #5)



Item	Part No.	Description	Qty
1	A073P305	Panel, Circuit Breaker	1
2	C041-0004	Washer, Flat	10
3	C370-0029-03	Screw, Hex Head	10

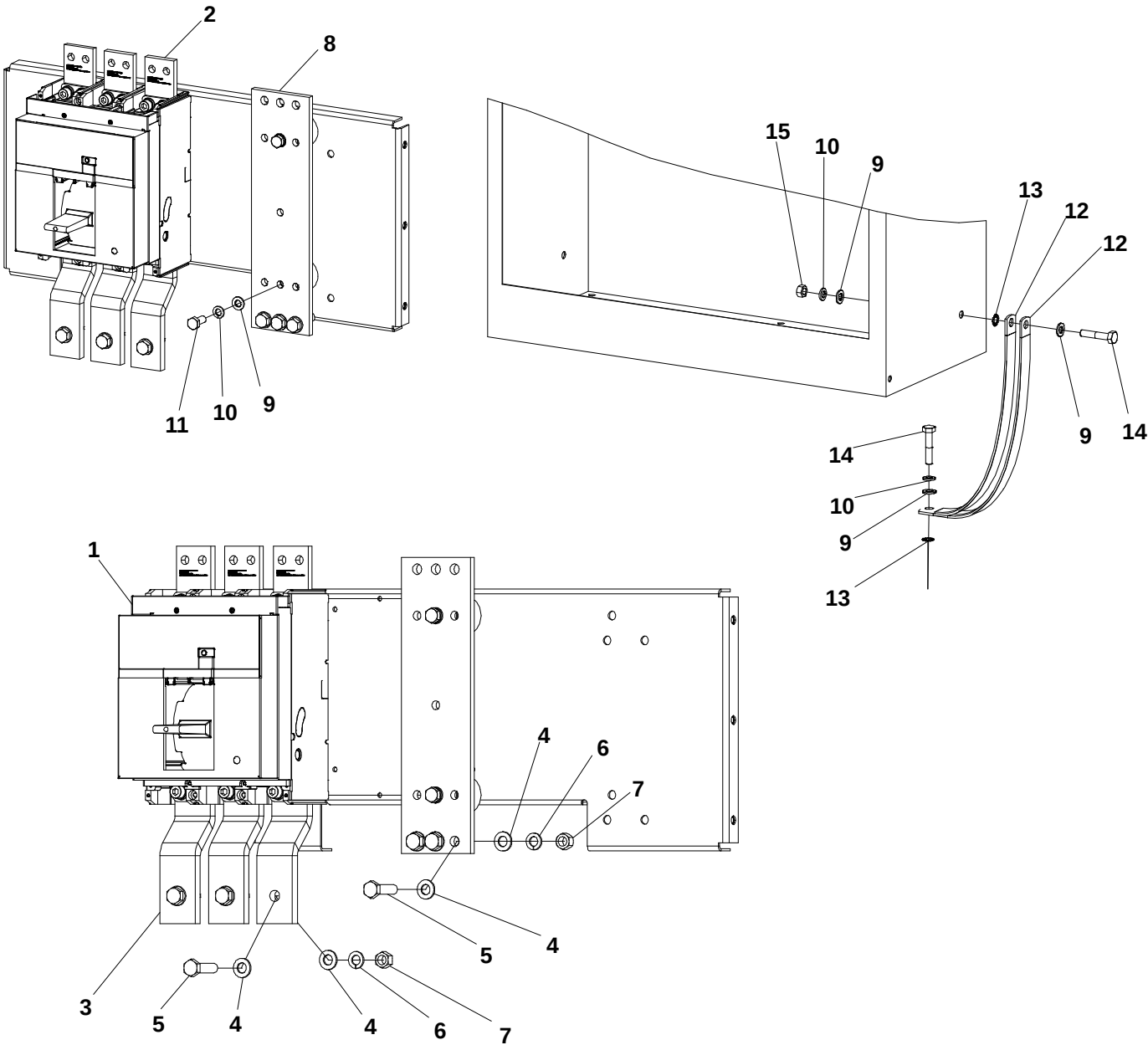
Motorized Circuit Breaker (ABB) 1000A, 1250A (Illustration #1)



Motorized Circuit Breaker

Item	Part No.	Description	Qty
1	A074K865	Installation, Circuit Breaker (See Page 155 for Components)	1
2	A050L437	Cover, Control Box (See Page 157 for Components)	1
3	A073P304	Installation, Circuit Breaker (See Page 158 for Components)	1
4	A073T612	Lead, Electrical (See Page 161 for Components)	1

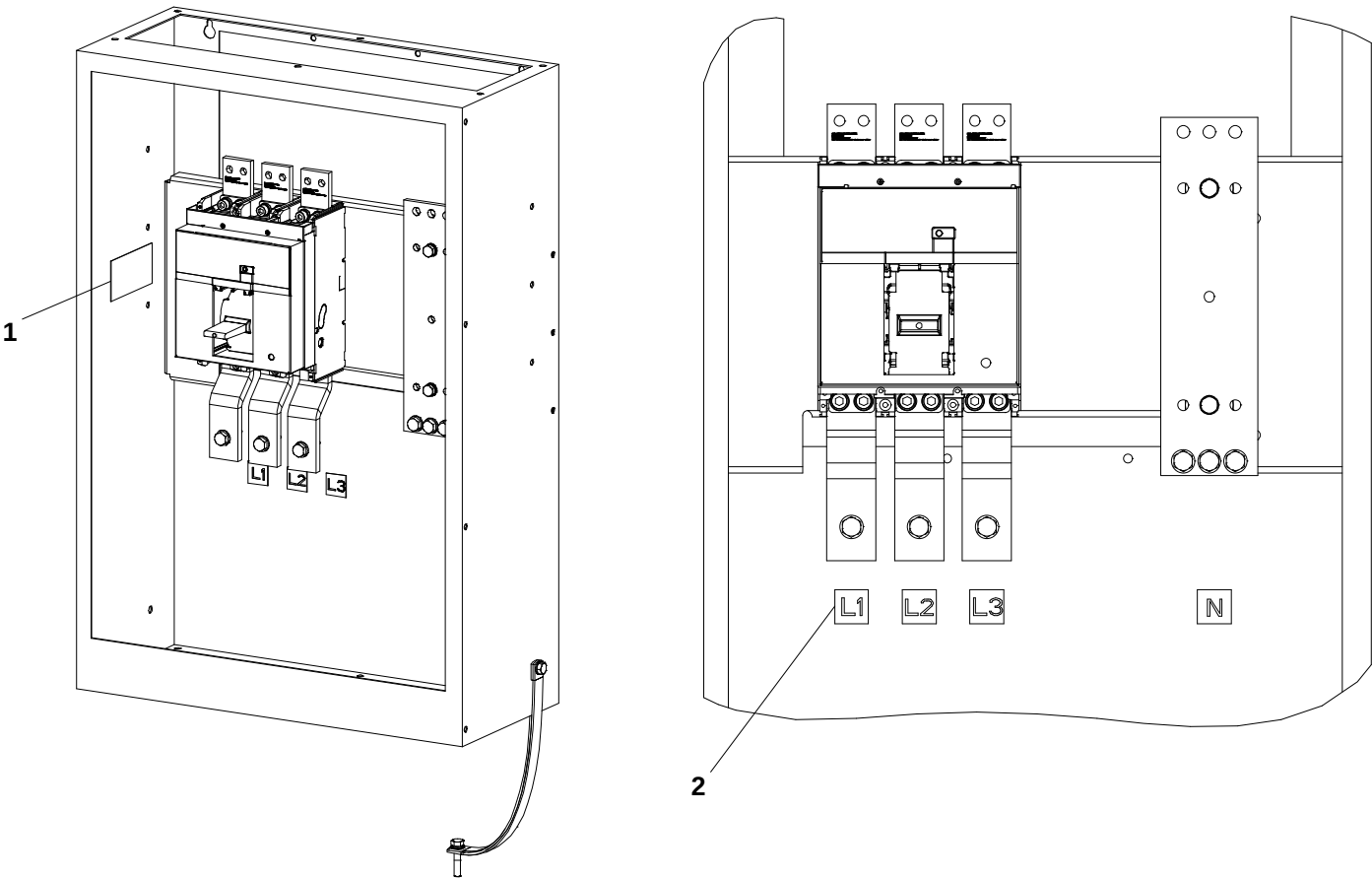
Motorized Circuit Breaker (ABB) 1000A, 1250A (Illustration #2)



Motorized Circuit Breaker (ABB) 1000A, 1250A (Illustration #2)

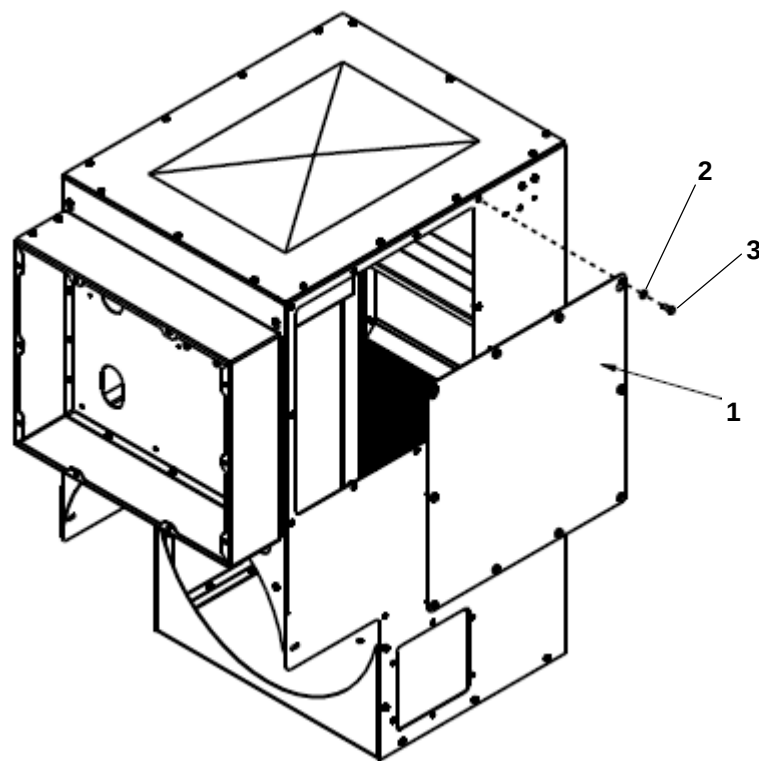
Item	Part No.	Description	Qty
1		Breaker, Circuit	
	A072E950	1000A	1
	A072E951	1250A	1
2	A054D998	Busbar	3
3	A051P411	Busbar	3
4	C041-0006	Washer, Flat	12
5	C370-0031-07	Screw, Hex Head	6
6	C031-0007	Washer, Spring	6
7	C380-0021	Nut, Hex	6
8	A050J741	Busbar, Neutral	1
9	C041-0005	Washer, Flat	7
10	C031-0006	Washer, Spring	6
11	C370-0030-03	Screw, Hex Head	2
12	0337-3587-01	Lead, Earth	2
13	C045-0004	Washer, Lock	2
14	C370-0030-08	Screw, Hex Head	2
15	C380-0020	Nut, Hex	1

Motorized Circuit Breaker (ABB) 1000A, 1250 (Illustration #3)



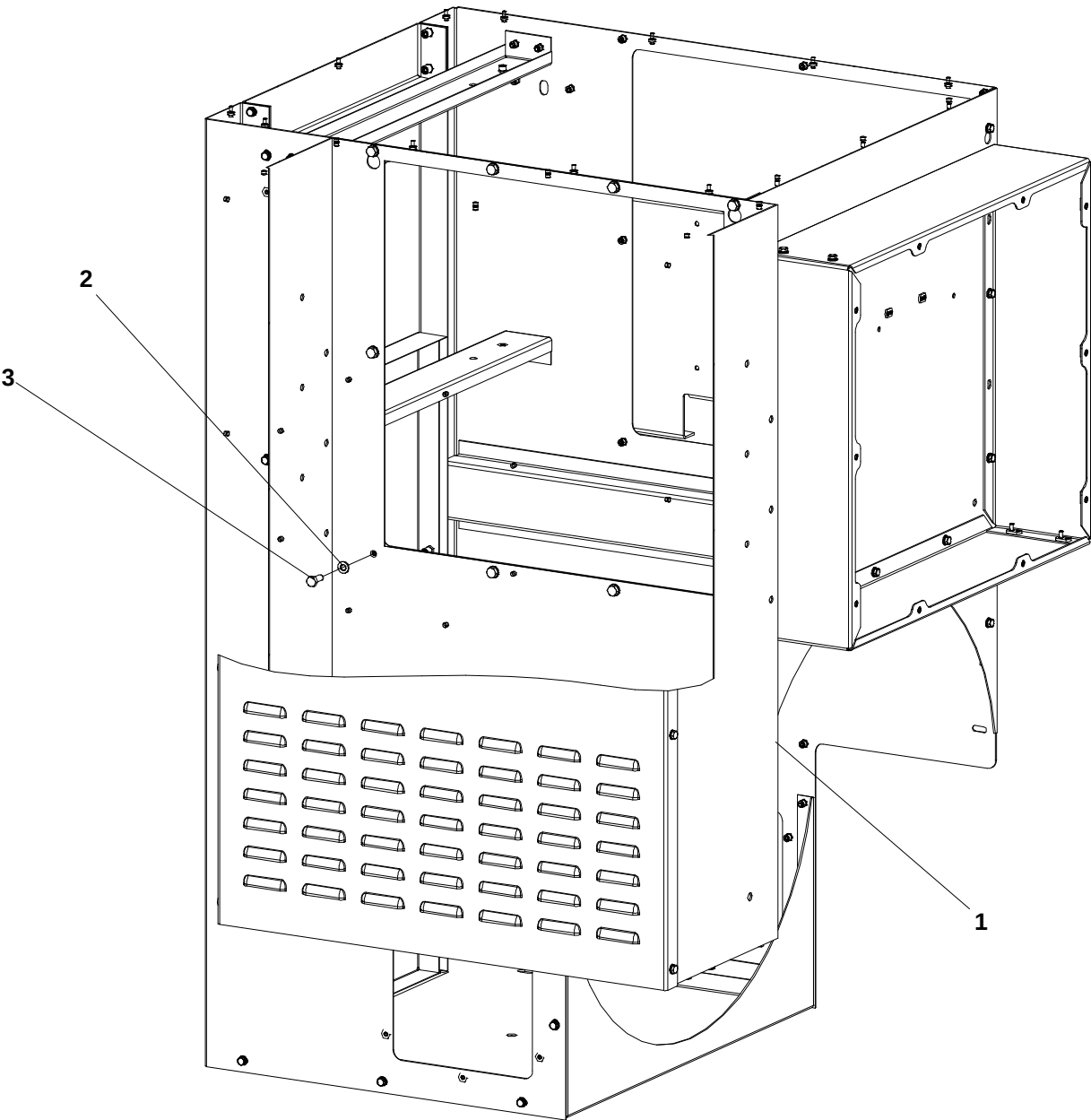
Item	Part No.	Description	Qty
1	C230-0002	Label	1
2	C230-0054	Label	1
3	C140-0004	Mount, Cable Tie (Not Shown)	3
4	A051V932	Harness, Circuit Breaker (Not Shown)	1

Motorized Circuit Breaker (ABB) 1000A, 1250A (Illustration #4)



Item	Part No.	Description	Qty
1	A051D225	Cover, Control	1
2	C041-0004	Washer, Flat	10
3	C370-0029-03	Screw, Hex Head	10

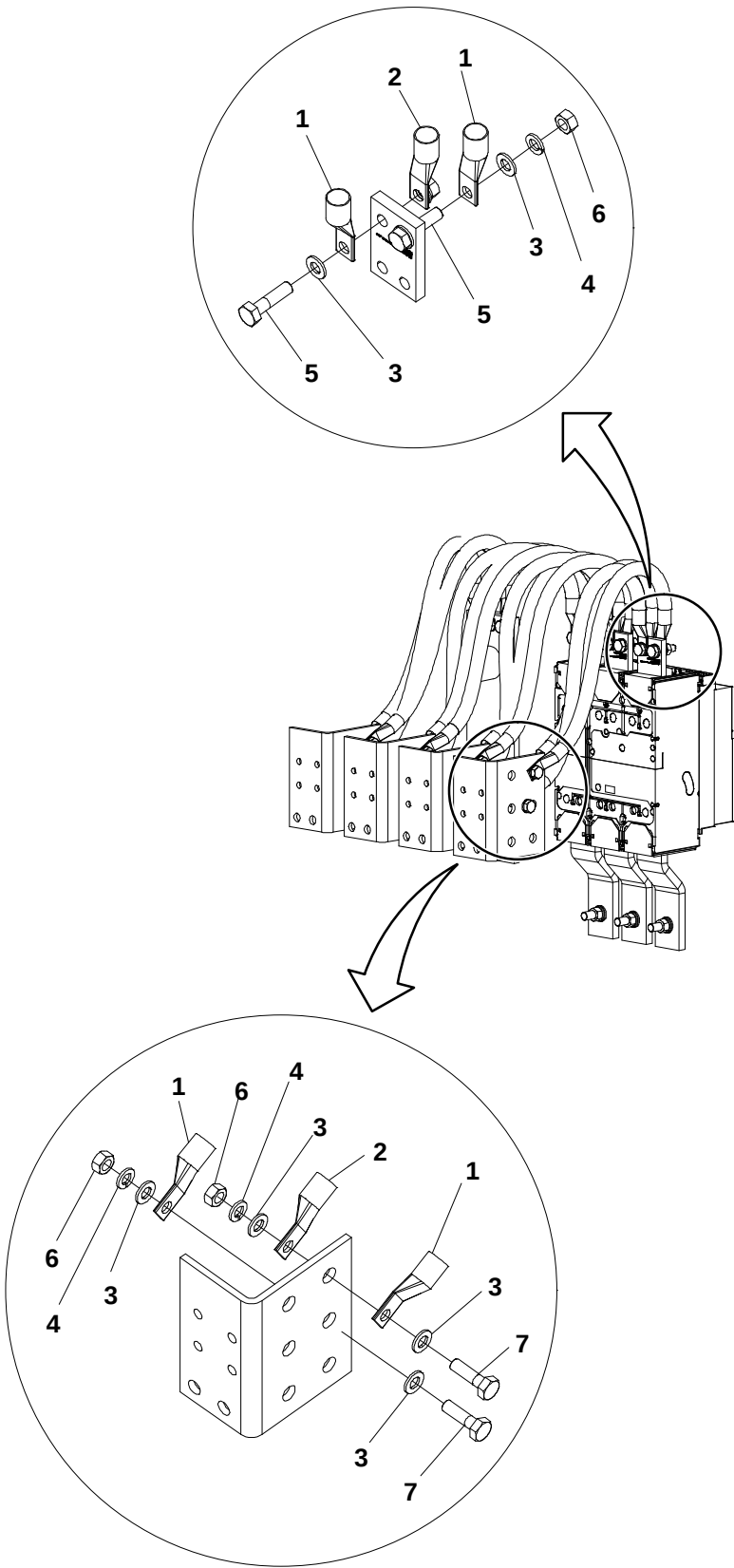
Motorized Circuit Breaker (ABB) 1000A, 1250A (Illustration #5)



Item	Part No.	Description	Qty
1	A073P306	Panel, Circuit Breaker	1
2	C041-0004	Washer, Flat	10
3	C370-0029-03	Screw, Hex Head	10

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Motorized Circuit Breaker (ABB) 1000A, 1250A (Illustration #6)



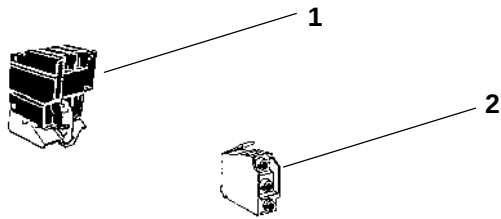
Motorized Circuit Breaker (ABB) 1000A, 1250A (Illustration #6)

Item	Part No.	Description	Qty
1	A073J069	Lead, Electrical	2
2	A073J070	Lead, Electrical	1
3	C041-0005	Washer, Flat	34
4	C031-0006	Washer, Spring	17
5	C370-0030-06	Screw, Hex Head	9
6	C380-0020	Nut, Hex	17
7	C370-0030-05	Screw, Hex Head	8

ABB Spare Parts

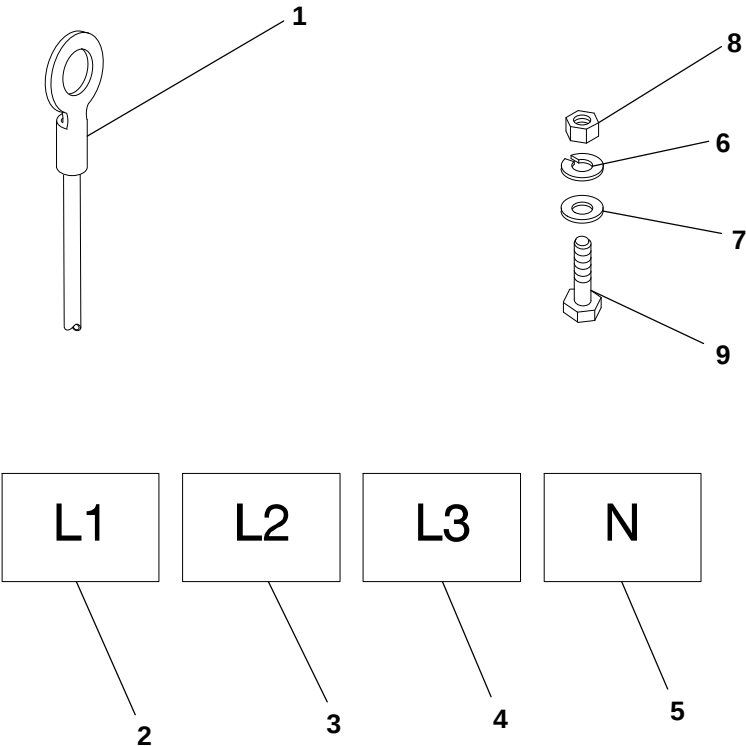
Item	Part No.	Description	Qty
	A074P835	ABB Manual Breaker Trip and Status Contact	A/R
	A074P839	ABB Motorized Breaker Open Coil	A/R
	A074P840	ABB Motorized Breaker Close Coil	A/R
	A074P841	ABB Motorized Breaker Undervoltage Coil	A/R
	A074P843	ABB Motorized Breaker Status Contacts	A/R
	A074P844	ABB Motorized Breaker Trip Contact	A/R
	A074P846	ABB Motorized Breaker Spring Charging Motor	A/R

Shunt Trip and Auxiliary Contact



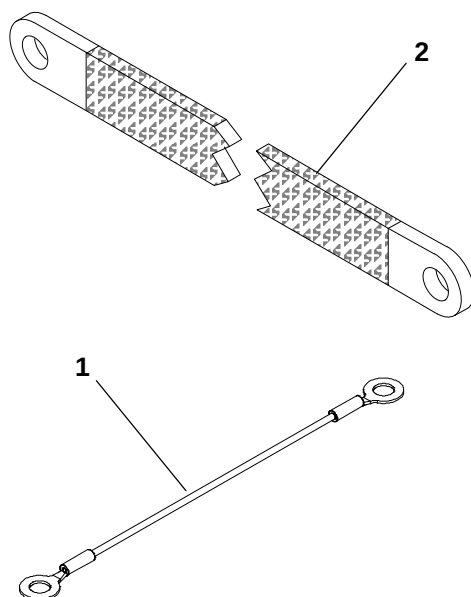
Item	Part No.	Description	Qty
1	0320-2078	Shunt Trip – 24VDC	1
2	0320-1981-01	Switch – Used as a Trip Alarm or Auxiliary Contact	2

Switchgear Leads



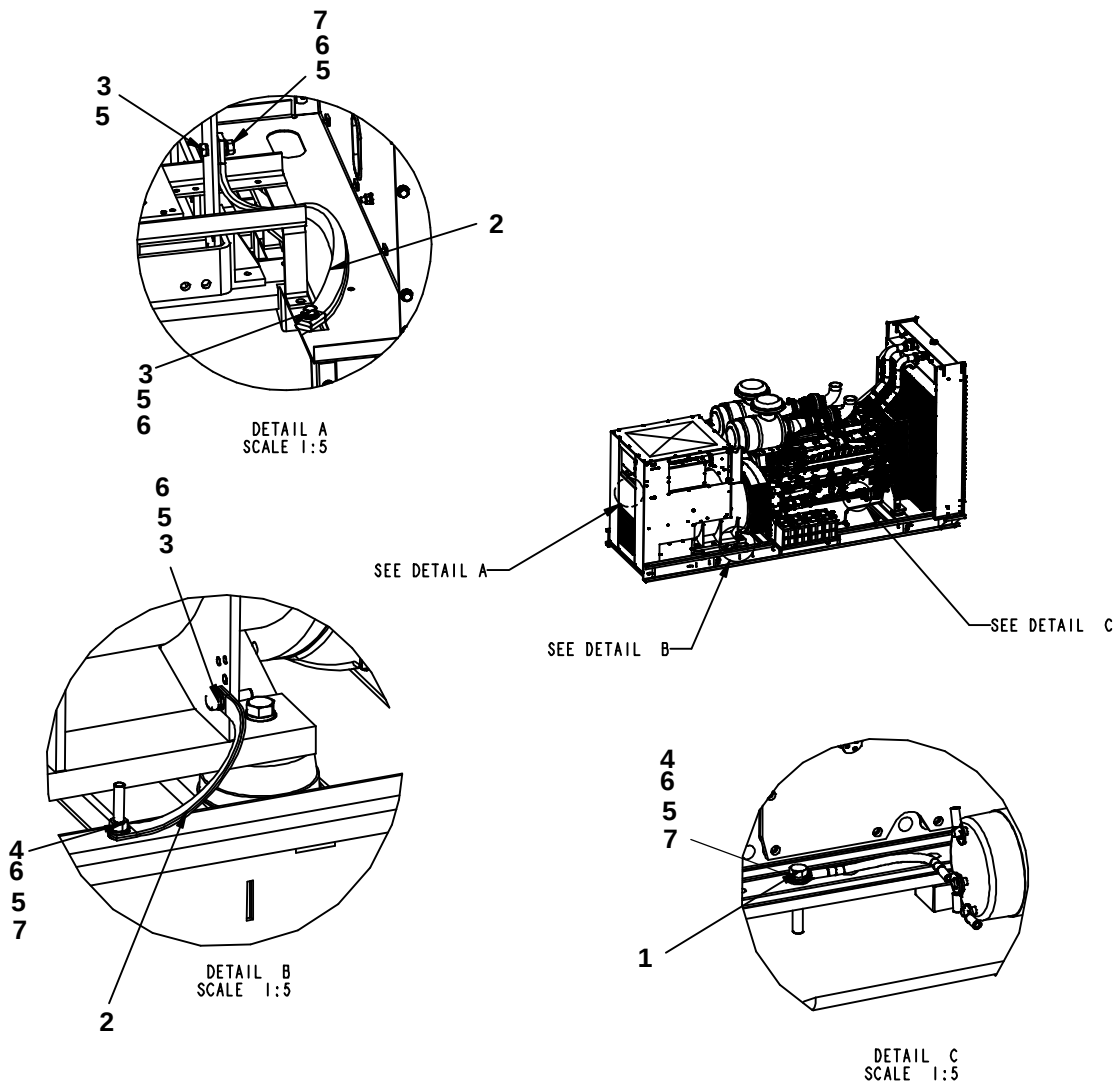
Item	Part No.	Description	Qty
1		Lead, Electrical	
	0226-4406-04	1000A – HC5 – 3P (39")	5
	0226-4406-03	1000A – HC5 – 3P (39")	15
	0226-4406-03	1000A – HC5 – 4P (39")	20
	0226-4406-04	1250A – HC5,HC6 – 3P (39")	6
	0226-4406-03	1250A – HC5,HC6 – 3P (39")	18
	0226-4406-03	1250A – HC5,HC6 – 4P (39")	24
	0226-4498-03	1600A – HC6 – RHS (30")	32
	0226-4498-03	1600A – HC6 – LHS (30")	24
	0226-4498-03	2000A – HC6 – RHS (30")	40
	0226-4498-03	2000A – HC6 – LHS (30")	30
2	0098-8213-01	Label, Information (L1)	A/R
3	0098-8213-02	Label, Information (L2)	A/R
4	0098-8213-03	Label, Information (L3)	A/R
5	0098-8213-04	Label, Information (N)	A/R
6	0850-0114-56	Washer, Lock	A/R
7	0526-0399-64	Washer, Flat	A/R
8	0862-0026-57	Nut, Hex	A/R
9	0800-3017-57	Screw, Hex Head	A/R

Earth Lead – Alternator to Bed



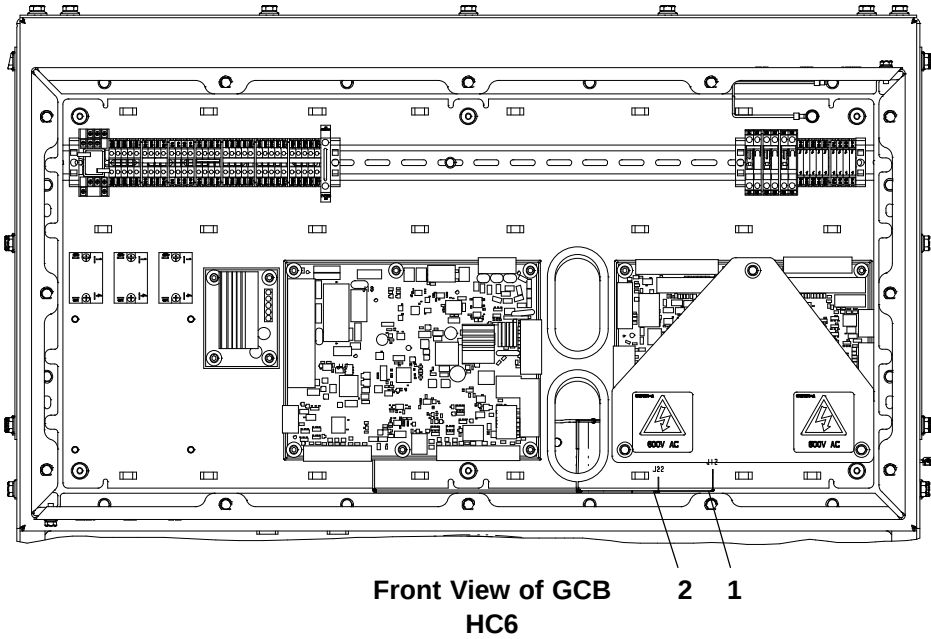
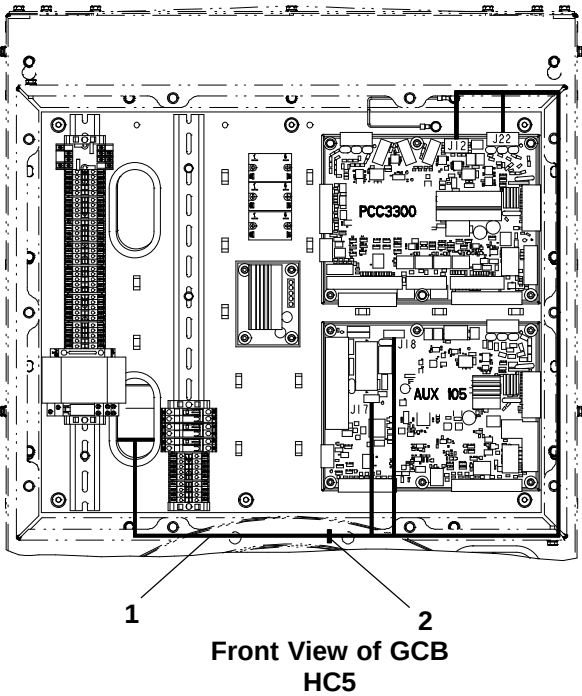
Item	Part No.	Description	Qty
1	A052M708	Strap, Ground	1
2	0337-3587-01	Lead, Earth	4
	0800-3017-48	Screw, Hex Head	1
	0526-0399-62	Washer, Flat	10
	0850-0114-55	Washer, Lock	7
	0862-0026-56	Nut, Hex	3
	0800-3017-41	Screw, Hex Head	2
	0800-3017-37	Screw, Hex Head	1
	0800-3017-38	Screw, Hex Head	1
	0800-3017-57	Screw, Hex Head	1
	0526-0399-64	Washer, Flat	2
	0850-0114-56	Washer, Lock	1
	0862-0026-57	Nut, Hex	1
	702389	Bolt, Hex Head	1

Earth Lead – Engine to Ground



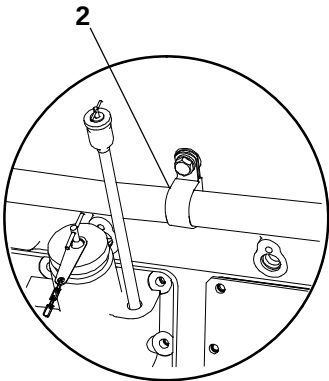
Item	Part No.	Description	Qty
1	A052M708	Strap, Ground	1
2	0337-3587-01	Lead, Earth	4
3	C370-0031-06	Screw, Hex Head	3
4	C370-0031-12	Screw, Hex Head	2
5	C041-0006	Washer, Flat	8
6	C031-0007	Washer, Spring Lock	5
7	C380-0021	Nut, Hex	3

AC Harness (PMG)

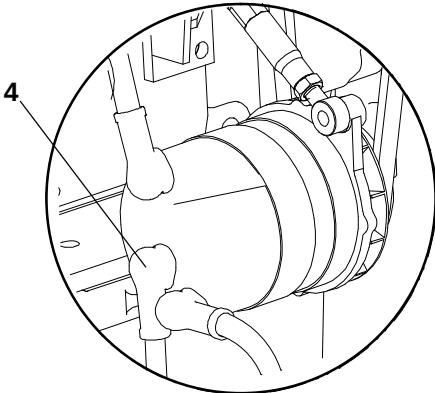


Item	Part No.	Description	Qty
1		Harness, AC (Includes 3 A040C763 fuses for HC5 & HC6)	
	A041E318	HC5 – Up to Spec C	1
	A057M285	HC5 – Begin Spec D	1
	A034Y614	HC6	1
2	0332-1389	Tie, Cable	15

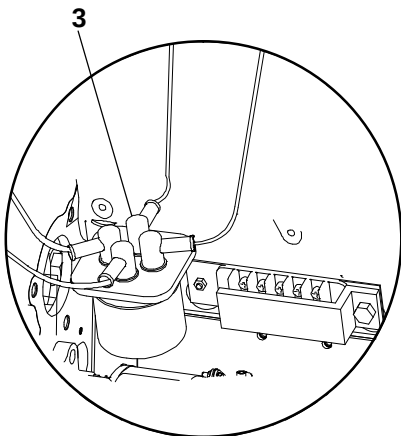
Engine Harness



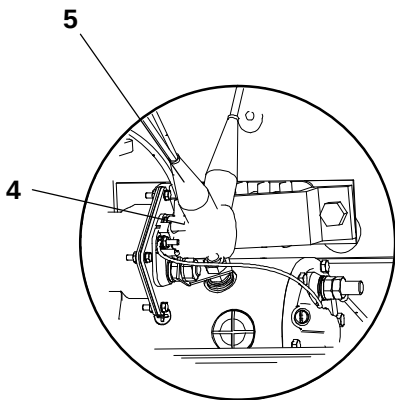
Detail A



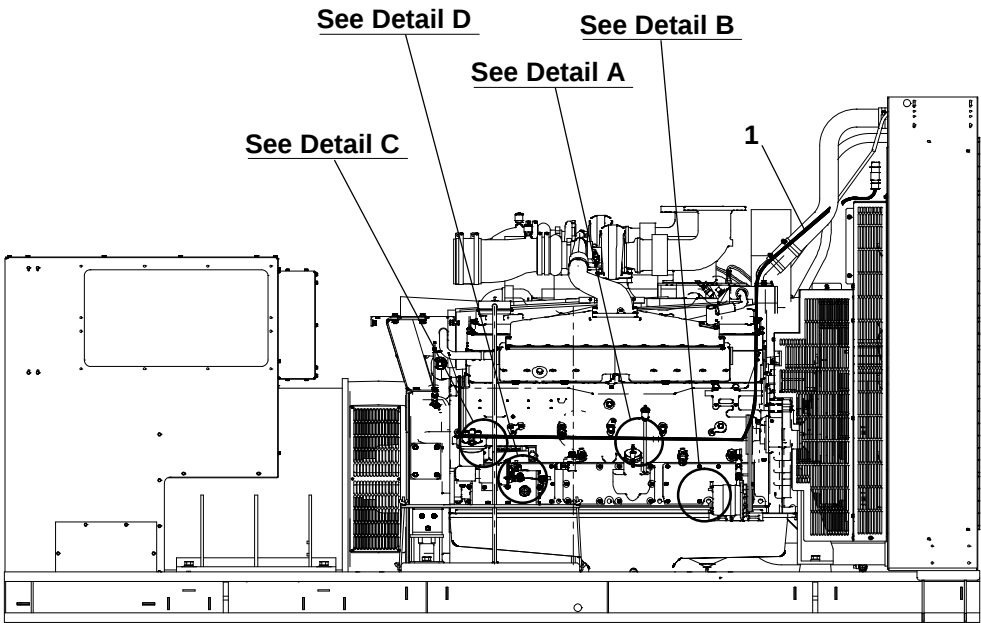
Detail B



Detail C



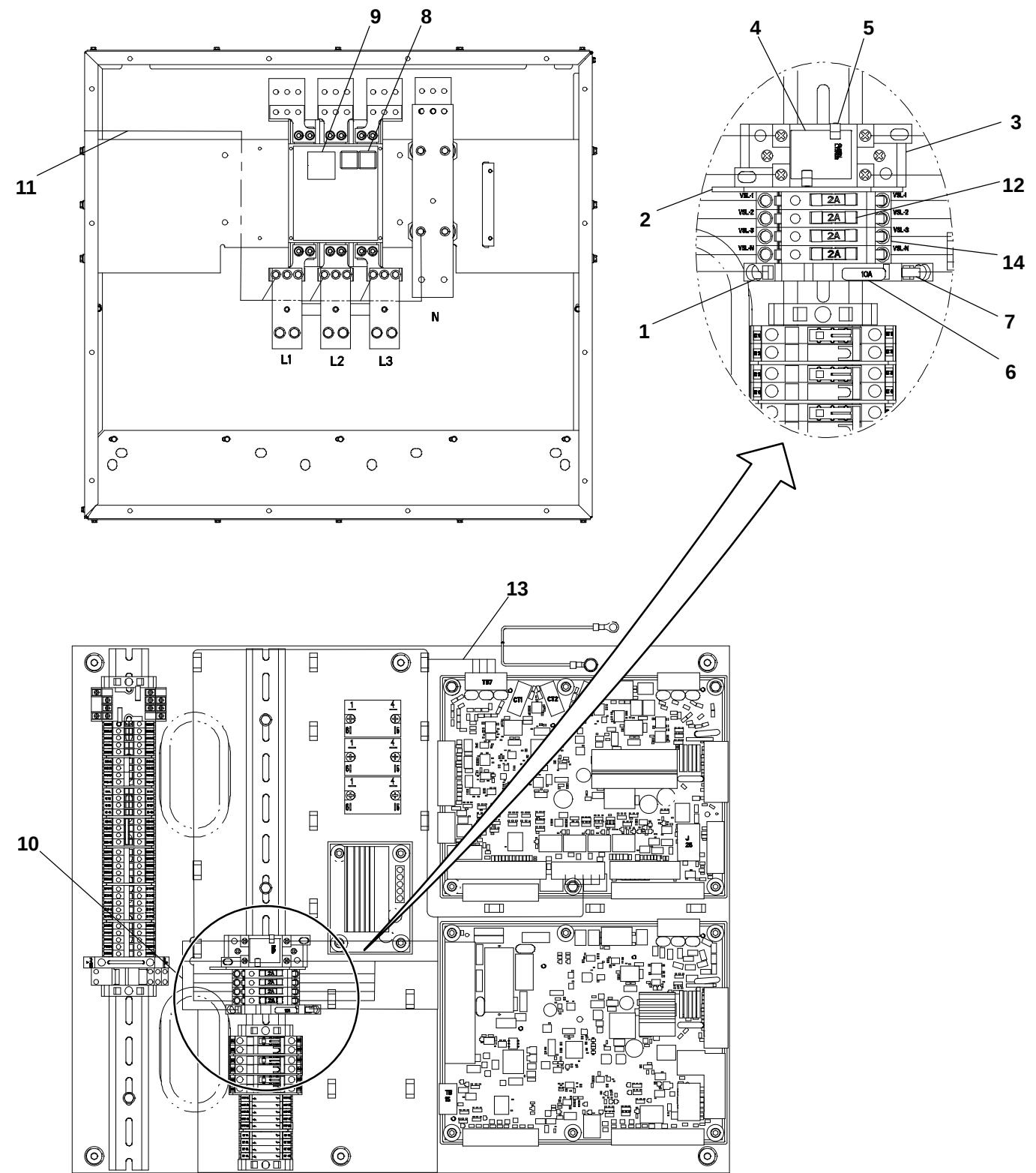
Detail D



Engine Harness

Item	Part No.	Description	Qty
1		Harness, Engine	
	A041X402	HC6	1
	A041X404	HC5	1
2	0518-0548-43	Clamp	1
3	0416-1021-03	Boot	4
4	0332-3984	Boot, Insulation	4
5	0416-1142	Clamp, Battery	1
	0332-1389	Tie, Cable	A/R
	0332-1554	Clamp, Loop	1
	0526-0399-57	Washer, Flat	1
	0725-1008	Screw	1
	A053G978	Clamp	2

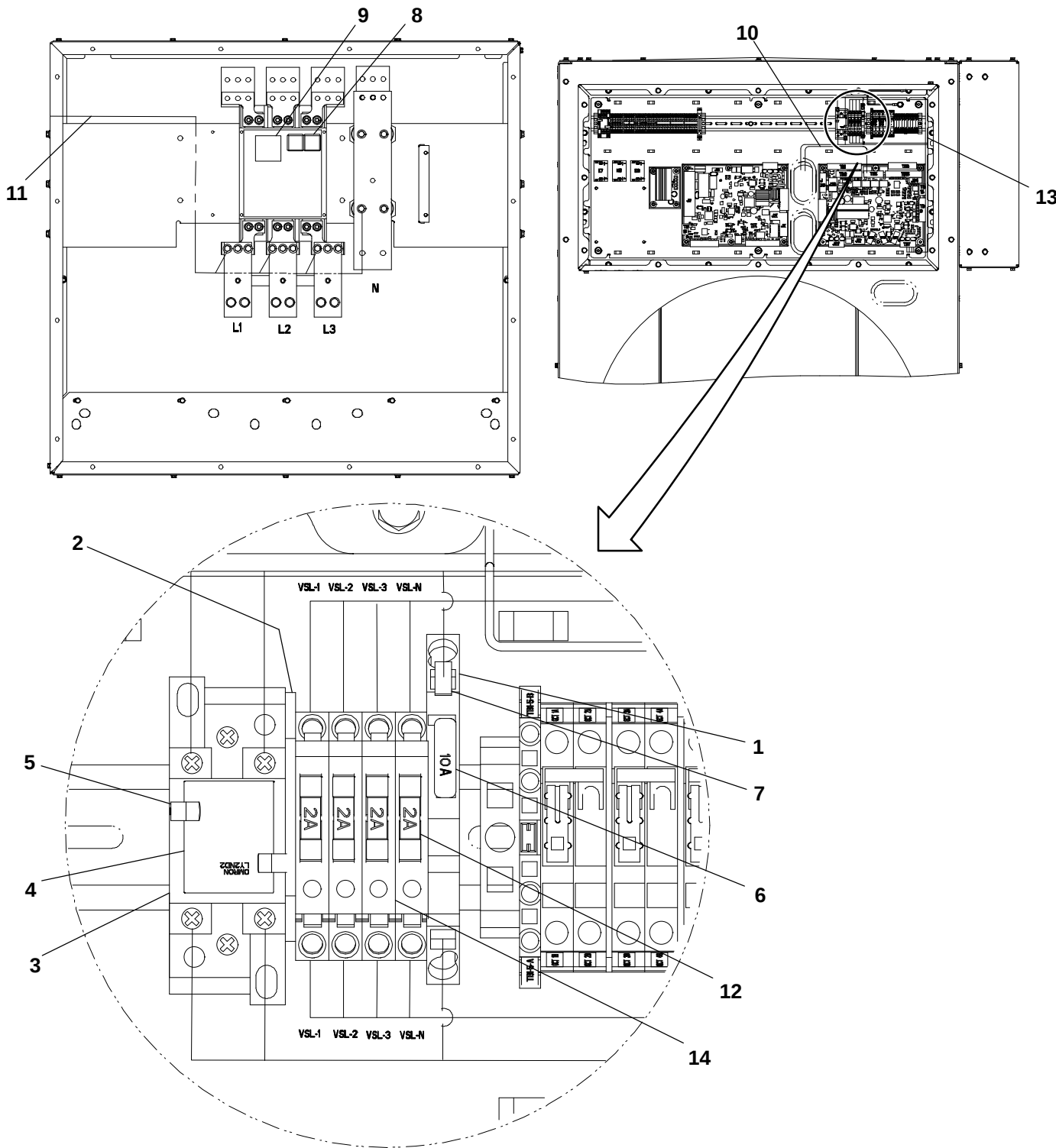
Circuit Breaker Harness – HC5



Circuit Breaker Harness – HC5

Item	Part No.	Description	Qty
1	0332–3936	Rail, Terminal Block	1
2	A051P528	Terminal	1
3	0307–3043	Base, Relay	1
4	0307–3109	Relay, Control	1
5	0249–0819	Clip, Relay	2
6	0321–0307–05	Fuse, Fast	1
7	0332–3939–17	Strip, Marker	5
8	0320–1981–01	Switch, SPDT	2
9	0320–2100	Trip, Under Voltage	1
10	A050W920	Harness, Circuit Breaker	1
11	A051M845	Harness, Wiring	1
12	A051P530	Fuse, Quick Blow	4
13		Harness, Alternating Current	
	A051M641	Up to Spec C	1
	A057M233	Begin Spec D	1
14	A051P519	Terminal	4

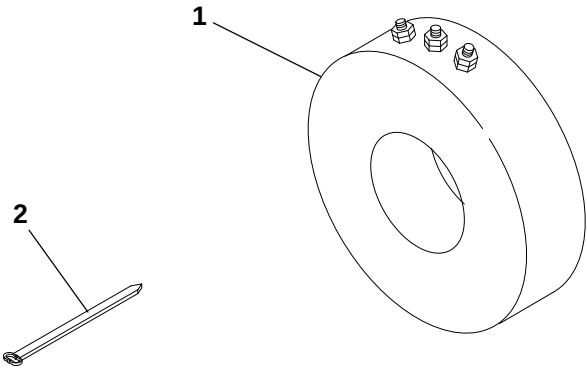
Circuit Breaker Harness – HC6



Circuit Breaker Harness – HC6

Item	Part No.	Description	Qty
1	0332–3936	Rail, Terminal Block	1
2	A051P528	Terminal	1
3	0307–3043	Base, Relay	1
4	0307–3109	Relay, Control	1
5	0249–0819	Clip, Relay	2
6	0321–0307–05	Fuse, Fast	1
7	0332–3939–17	Strip, Marker	5
8	0320–1981–01	Switch, SPDT	2
9	0320–2100	Trip, Under Voltage	1
10	A050W920	Harness, Circuit Breaker	1
11	A051M845	Harness, Wiring	1
12	A051P530	Fuse, Quick Blow	4
13	A051M641	Harness, Alternating Current	1
14	A051P519	Terminal	4

Current Transformer

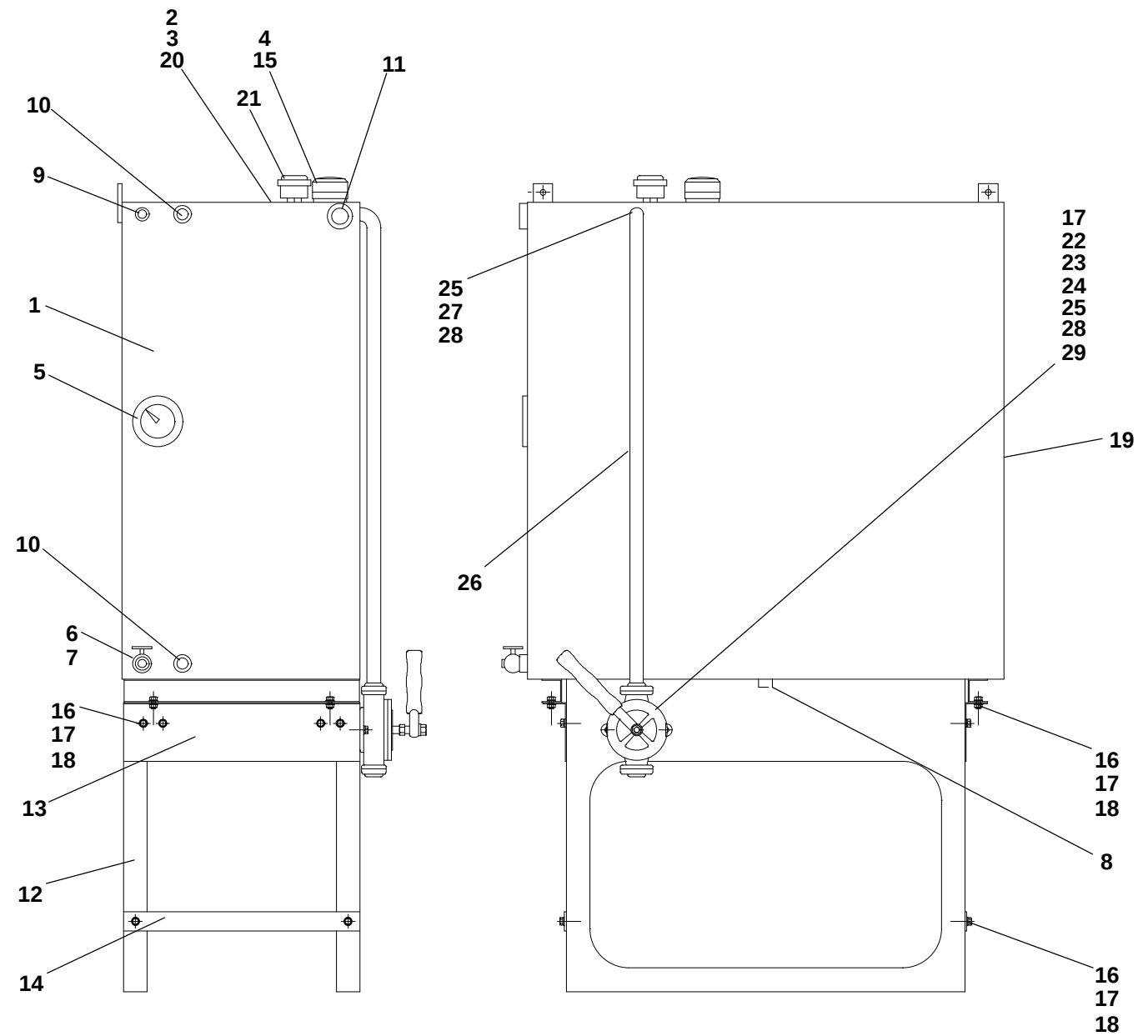


Item	Part No.	Description	Qty
1	0302-2057-34	Transformer, Current (Ratio 1893/1 or 3786/1	3
2	0332-1389	Tie, Cable	8

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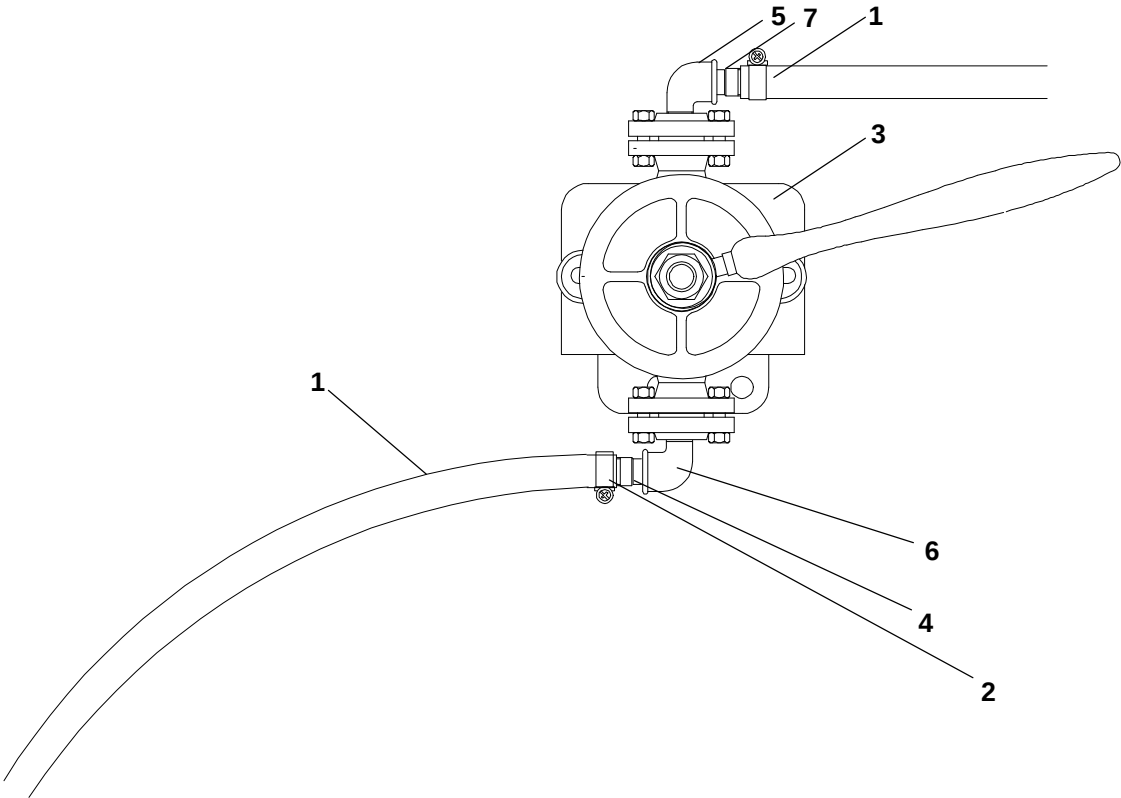
Fuel Tank – Standing



Fuel Tank – Standing

Item	Part No.	Description	Qty
1		Tank, Fuel	
	0159-1549-02	450L	1
	0159-1547-02	900L	1
	0159-1548-02	1350L	1
2	0159-1550-02	Cover, Tank	1
3	0159-1551	Gasket, Fuel Tank	1
4	0159-1552	Cap, Fill	1
5	0193-0537	Gauge, Level	1
6	0504-0230	Valve, Fuel	1
7	0505-2086	Fitting, Pipe Nipple	1
8	0505-2087	Plug, Pipe	1
9	0505-2088	Plug, Pipe	1
10	0505-1597	Plug	2
11	0505-2090	Plug, Pipe	1
12	0403-4940-02	Frame	2
13		Bracket, Tank	
	0159-1557-02	450L	2
	0159-1558-02	900L	2
	0159-1559-02	1350L	2
14		Bracket, Tank	
	0159-1554-02	450L	2
	0159-1555-02	900L	2
	0159-1556-02	1350L	2
15	0159-1560	Gasket, Fuel Tank	1
16	0800-3017-38	Screw, Hex Head	16
17	0526-0399-62	Washer, Flat	A/R
18	0870-2225-03	Nut, Lock	16
19	0159-1625	Tank, Fuel	1
20	0821-6002-03	Screw, Hex Head	10
21	0309-0692	Switch, Level (5 Position)	1
22	0862-0026-56	Nut, Hex	2
23	0800-3017-39	Screw, Hex Head	2
24	0850-0114-55	Washer, Lock	2
25	0502-1457	Adapter, Hose	2
26	0503-0249	Hose, Heater	1.2
27	0505-2081	Elbow	1
28	049118	Clip, Hose	2
29	0179-3264	Pump, Rotary Hand (See Page 178 for Components)	1

Rotary Hand Pump



Item	Part No.	Description	Qty
1	0503-2384	Tube (1" x 1/8")	3
2	0503-2385	Clip	3
3	0149-2687	Pump, Rotary Hand	1
4	0502-1457	Connection, Hose	3
5	0870-2243	Adapter, Hose (3/4")	6
6	0505-1574	Elbow – 90° (3/4")	4
7	0502-1458	Connector (3/4")	2

Silencer

Item	Part No.	Description	Qty
		Silencer, Industrial	
	38SC105	In Line	
	015324	Silencer (6")	2
	007094	Gasket	4
	38SC106	Side Entry	
	015320	Silencer (6" Bore)	2
	007094	Gasket	4
		Silencer, Industrial – Advantage	
	38SC177	In Line	
	015315	Silencer (Type BSE35)	2
	007094	Gasket	4
	38SC178	Side Entry	
	015311	Silencer (Type BSE35)	2
	007094	Gasket	4
		Silencer, Residential	
	38SC107	In Line	
	015315	Silencer (6")	2
	007094	Gasket	4
	38SC108	Side Entry	
	015311	Silencer (6")	2
	007094	Gasket	4
		Silencer, Residential – Advantage	
	38SC179	In Line	
	015315	Silencer (Type BSE35)	2
	015324	Silencer (Type ADS25/150)	2
	007094	Gasket	8
	38SC180	Side Entry	
	015311	Silencer (Type BSE35)	2
	015320	Silencer (Type ADS25/150)	2
	007094	Gasket	8

Fixing Kit – Exhaust System

Item	Part No.	Description	Qty
	A008N118	Kit, Exhaust Fixing (Includes the Following Parts)	
	700311	Bolt (M16 x 60)	32
	0862-0026-58	Nu, Hex	32
	0850-0114-57	Washer, Lock	32
	0526-2185	Washer, Flat	32
	007094	Gasket	4
	007092	Flange	2
	0155-4289	Clamp, T	2
	049150	Clamp, U Bolt	2

Exhaust Bellows

Item	Part No.	Description	Qty
1	0071579	Exhaust Bellows (5" Bore)	2
	049076	Clamp	2
	007094	Gasket	2
2	0071585	Exhaust Flex (5" Bore)	2
	049076	Clamp	2
	007094	Gasket	2

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