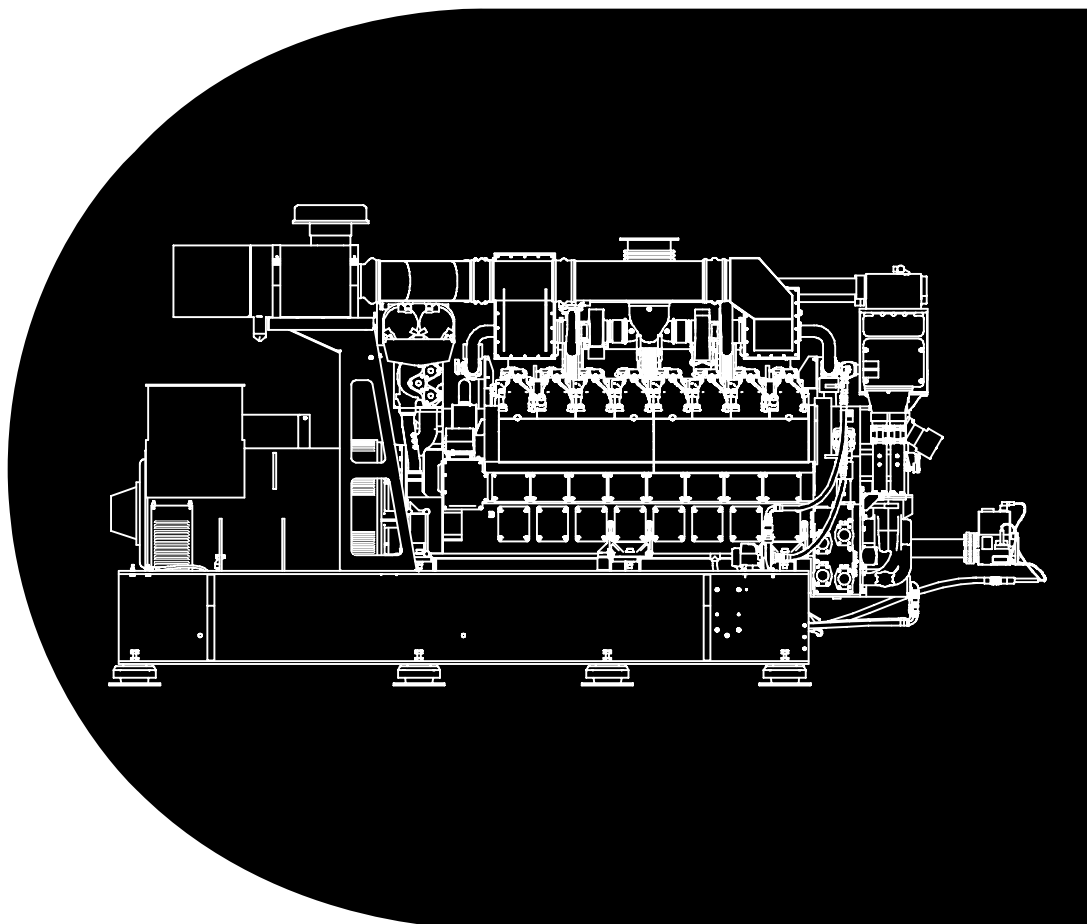


Parts Catalog

GenSet Model

GQMA (Spec C)	GQNC (Spec B)
GQMB (Spec C)	GQPB (Spec C)
GQNA (Spec C)	GQPC (Spec A)
GQNB (Spec C)	

with PowerCommand[®] Supervisor
PCS3100



MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Cummins Power Generation nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

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



Service and repair of Cummins Power Generation equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, 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!

PSP-1

Introduction

This catalog applies to Cummins Power Generation Generator Models GQMA, GQMB, GQNA, GQNB, GQNC, GQPB and GQPC as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine end (front) of the set unless noted in the description column.

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

Replacement Engine

Cummins Power Generation Generator Model	Cummins Engine Model
GQMA	QSV81G
GQMB	QSV81G
GQNA	QSV91G
GQNB	QSV91G
GQNC	QSV91G Phase 2
GQPB	QSV91G
GQPC	QSV91G Phase 2

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
1370GQMA/*	1,370,000	#	50	6 or 12	3	24VDC
1570GQMB/*	1,570,000	#	50	6 or 12	3	24VDC
1250GQNA/*	1,250,000	#	60	6 or 12	3	24VDC
1540GQNA/*	1,540,000	#	50	6 or 12	3	24VDC
1750GQNB/*	1,750,000	#	50	6 or 12	3	24VDC
2000GQNC/*	2,000,000	#	50	6 or 12	3	24VDC
1750GQPB/*	1,750,000	#	60	6 or 12	3	24VDC
2000GQPC/*	2,000,000	#	60	6 or 12	3	24VDC

* - The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from the standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

- Broad range reconnectible

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Abbreviations

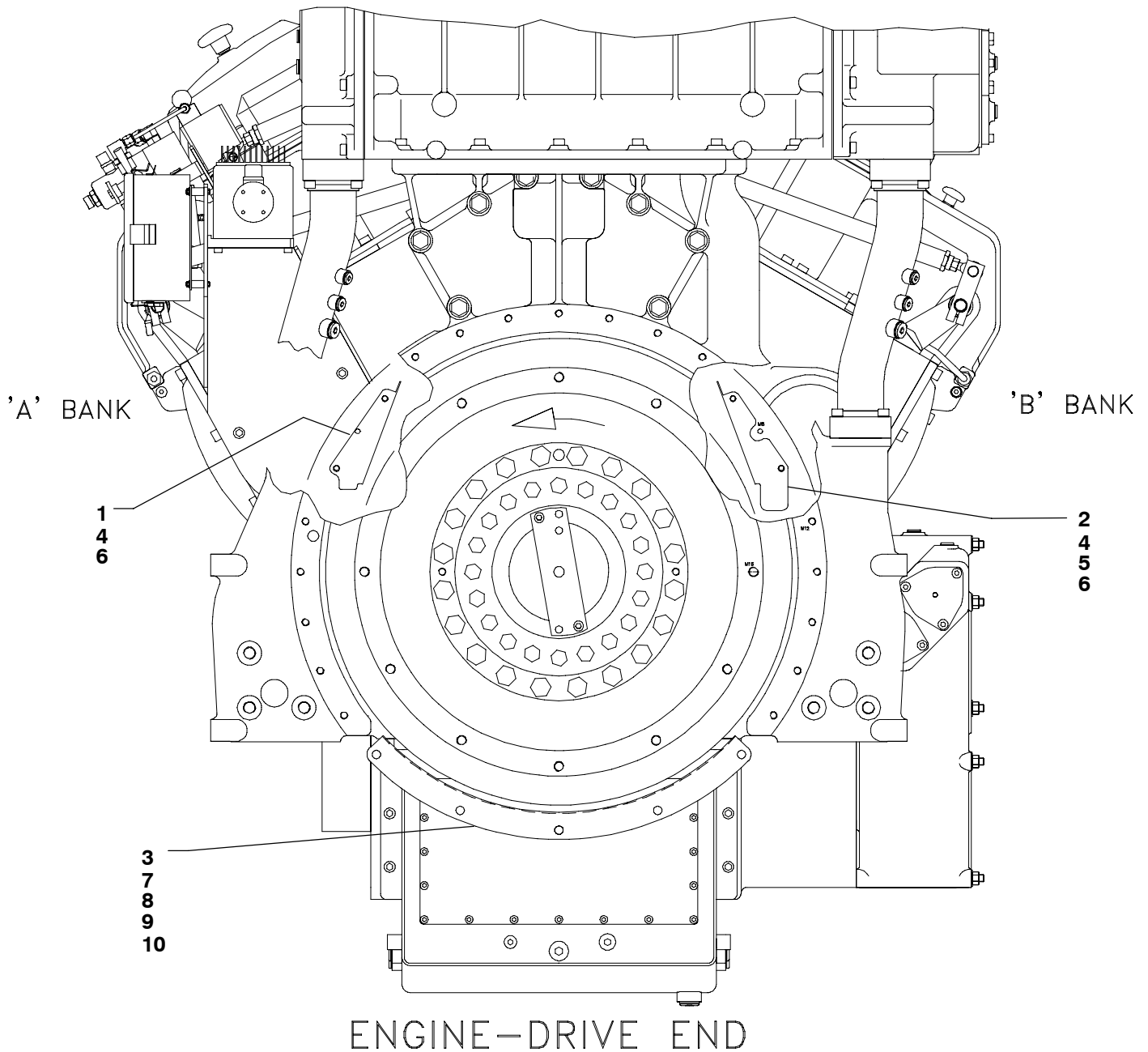
Some of the following abbreviations may be used throughout this Parts Catalog:

AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
DC	Direct Current	oz.	Ounce
Deg	Degree	PC	Printed Circuit
EFC	Electronic Fuel Control	Ph	Phase
EIT	External/Internal Tooth	PMG	Permanent Magnet Generator
EPROM	Erasable Programmable Read Only Memory	PT/CT	Potential Transformer/Current Transformer
ET	External Tooth	RFI	Radio Frequency Interference
GFI	Ground Fault Interrupter	RT	Right
ID	Inside Diameter	Spec	Specification
IEC	International Electrotechnical Commission	Thk	Thick
IT	Internal Tooth	UL	Underwriters Laboratories Inc.
kW	Kilowatt	UNC	Union National Coarse
LPG	Liquid Petroleum Gas	UNF	Union National Fine
LT	Left	VAC	Volts Alternating Current
M(meter number)	Meter	VDC	Volts Direct Current
		W/(ET, IT, EIT)	With

Paint and Thread Sealant

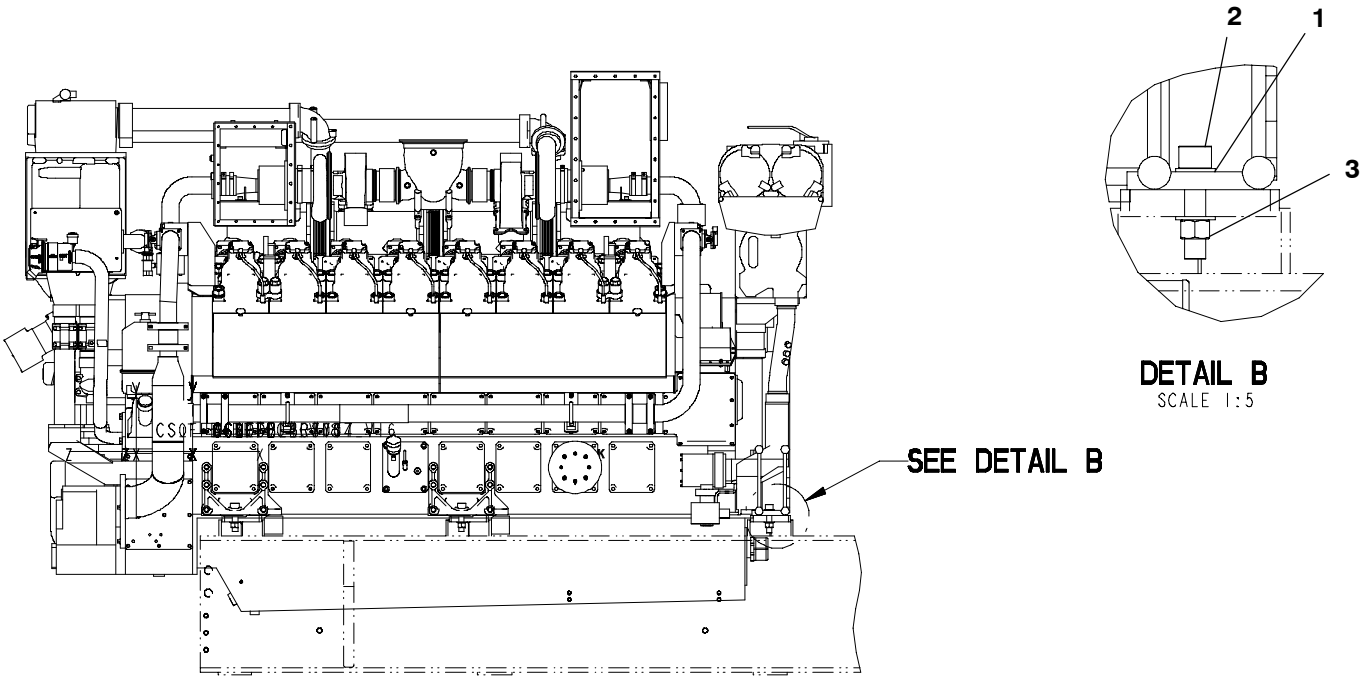
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)	518-0601	–		Sealant, Thread (6 ml Tube)
	525-0305	–	12 oz. Pressurized Spray Can	525-0749	–		Paint, Sandstone
	525-0306	–	Quart Can				
	525-0304	–	Gallon Can				

**Flywheel Guard
GQMA, GQMB, GQNA, GQNB, GQPB**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	190-0791-02	1	Guard, Coupling	6	850-0114-54	4	Washer, Lock – Spring (M8)
2	190-0790-02	1	Guard, Coupling	7	800-3017-57	5	Screw, Cap – Hex Head (M12 x 45)
3	190-0839-02	1	Guard, Coupling	8	862-0026-57	5	Nut, Hex (M12)
4	725-1050	4	Screw, Cap – Socket Head (M8 x 20)	9	526-0399-64	5	Washer, Flat (M12)
5	526-0399-60	2	Washer, Flat (M8)	10	850-0114-56	5	Washer, Lock – Spring (M12)

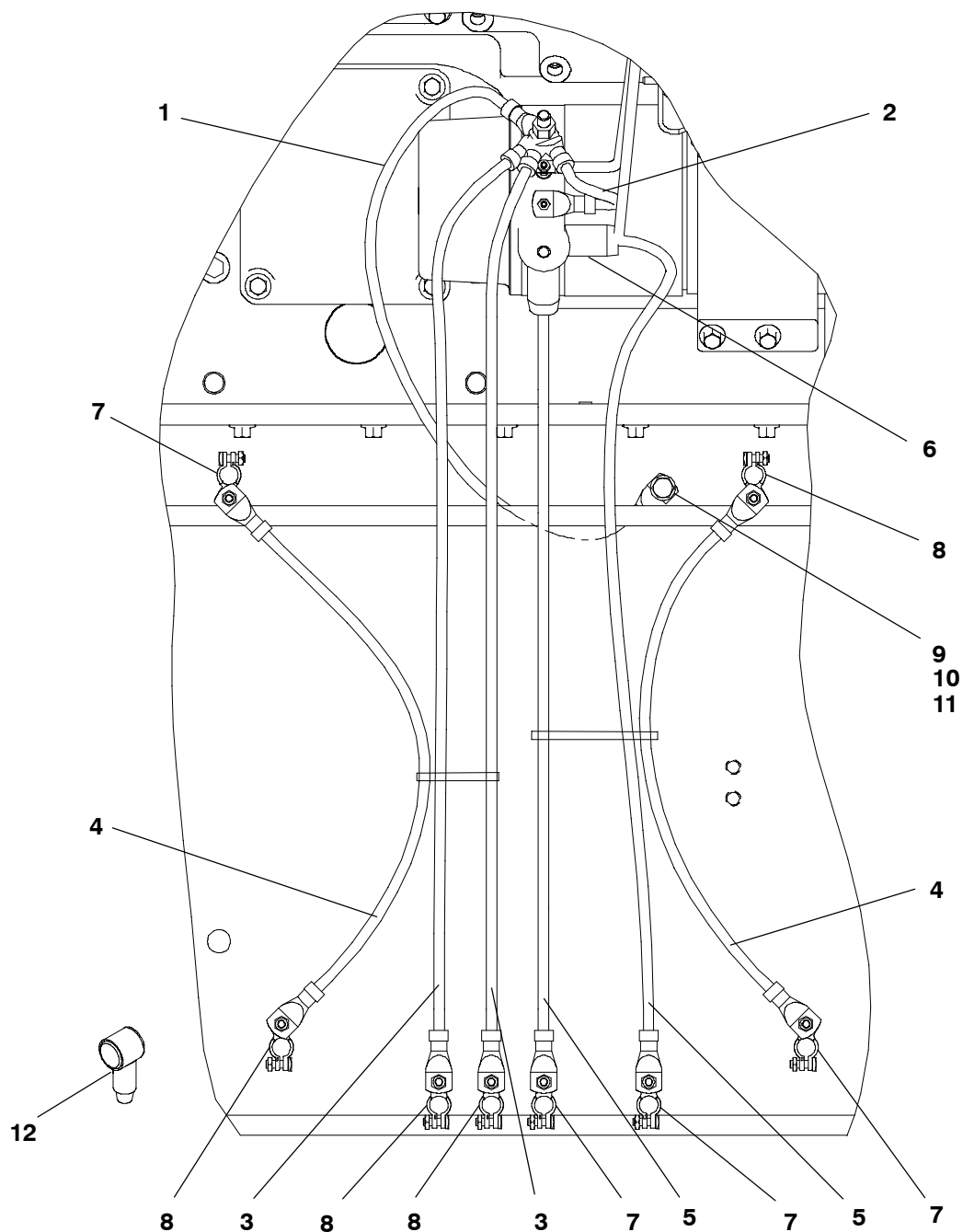
Engine Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-0399-72	12	Washer, Flat - Steel (M24)
2	725-1219	6	Screw, Cap - Socket Head (M24 x 100)

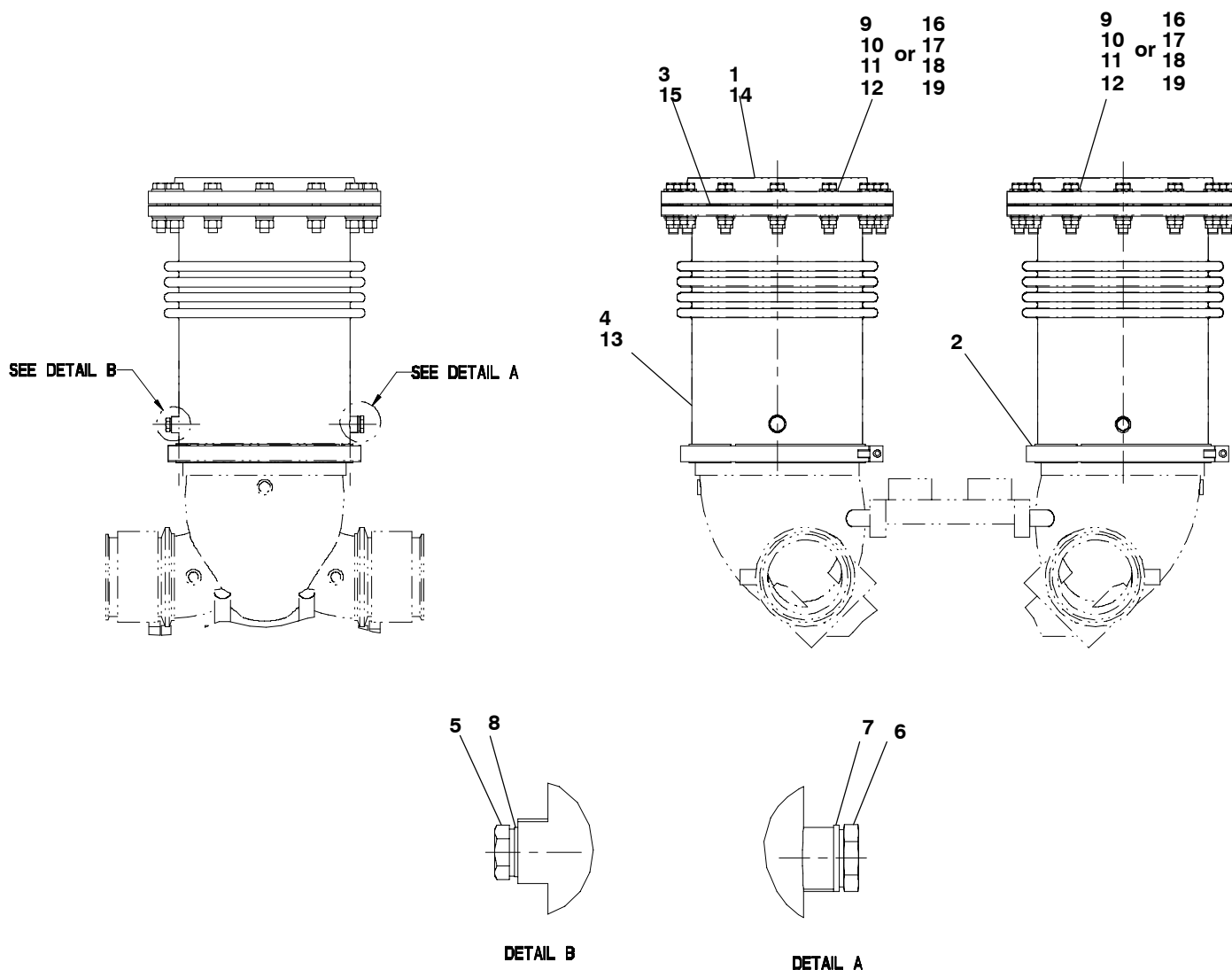
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	860-2024-01	6	Nut, Hex (M24 x 3)

Starter Cables



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	226-4861	1	Cable, Starter - Negative	7	416-1203	4	Terminal, Battery (+VE)
2	226-4862	1	Cable, Starter - Negative	8	416-1204	4	Terminal, Battery (-VE)
3	226-4946	2	Cable, Battery	9	526-0399-64	1	Washer, Flat (M12)
4	226-4947	2	Cable, Jumper	10	800-3017-53	1	Screw, Hex Head (M12)
5	226-4948	2	Cable, Battery	11	850-0114-56	1	Washer, Lock (M12)
6	416-1142	1	Battery, Boot - Double Outlet	12	416-1141	8	Battery, Boot - Single Outlet

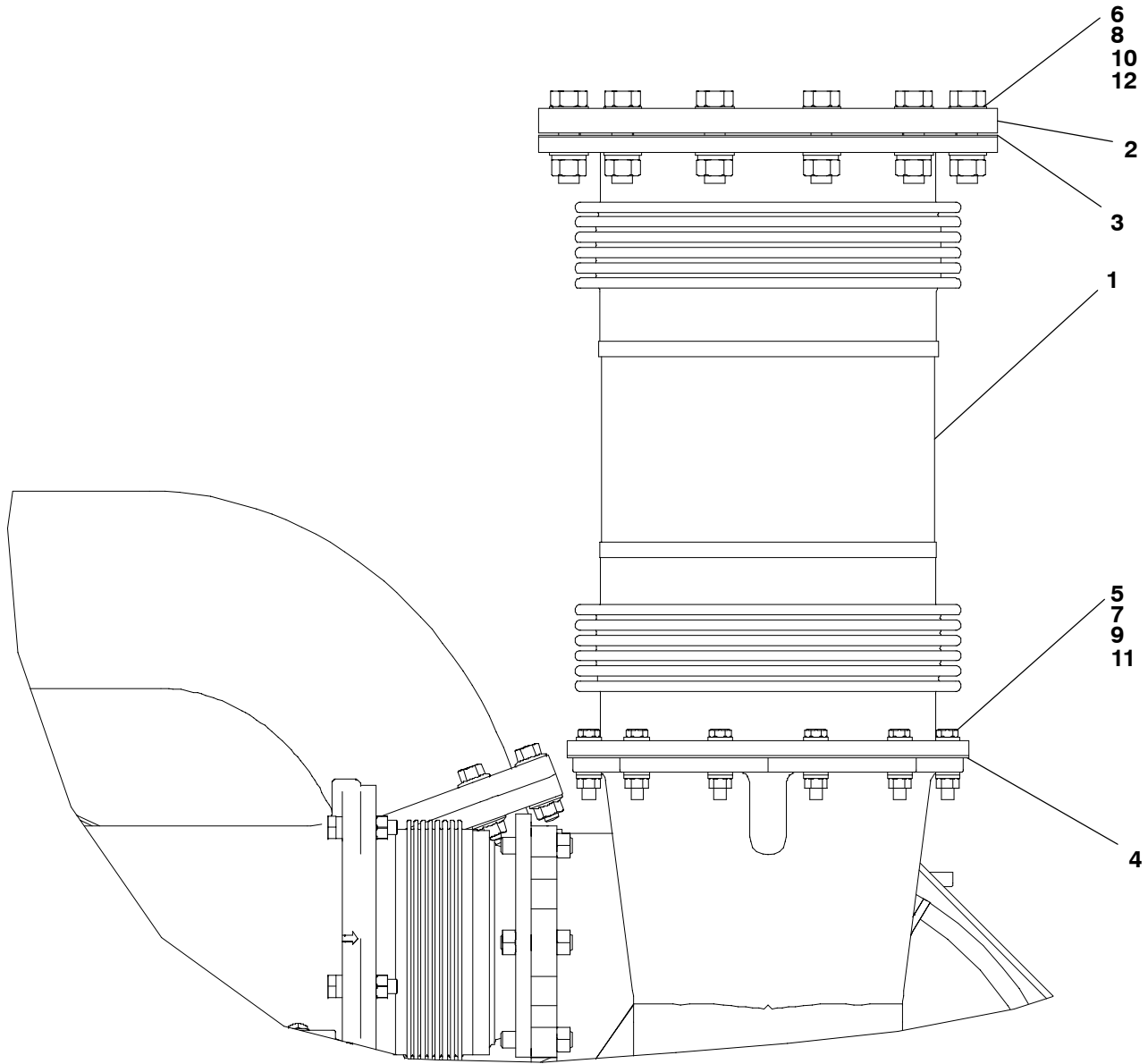
Exhaust Kit **GQMA, GQMB, GQNA, GQNB, GQPB**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3680	2	Flange, Exhaust – BS Flanges
2	155-3681	2	Clamp, Exhaust
3	155-3704	2	Gasket, Exhaust – BS Flanges
4	155-4588-02	2	Adapter, Exhaust – BS Flanges
5	505-2203	2	Plug, Pipe (M14 x 1.5 x 9)
6	505-2204	3	Plug, Pipe (M18 x 1.5 x 9)
7	509-0394	2	Washer, Sealing – Copper (M18)
8	509-0395	2	Washer, Sealing – Copper (M14)
9	526-0399-66	48	Washer, Flat (M16) – BS Flanges
10	800-3017-78	24	Screw, Hex Head (M16 x 2.0 x 70) – BS Flanges
11	850-0114-57	24	Washer, Lock – Spring (M16) – BS Flanges

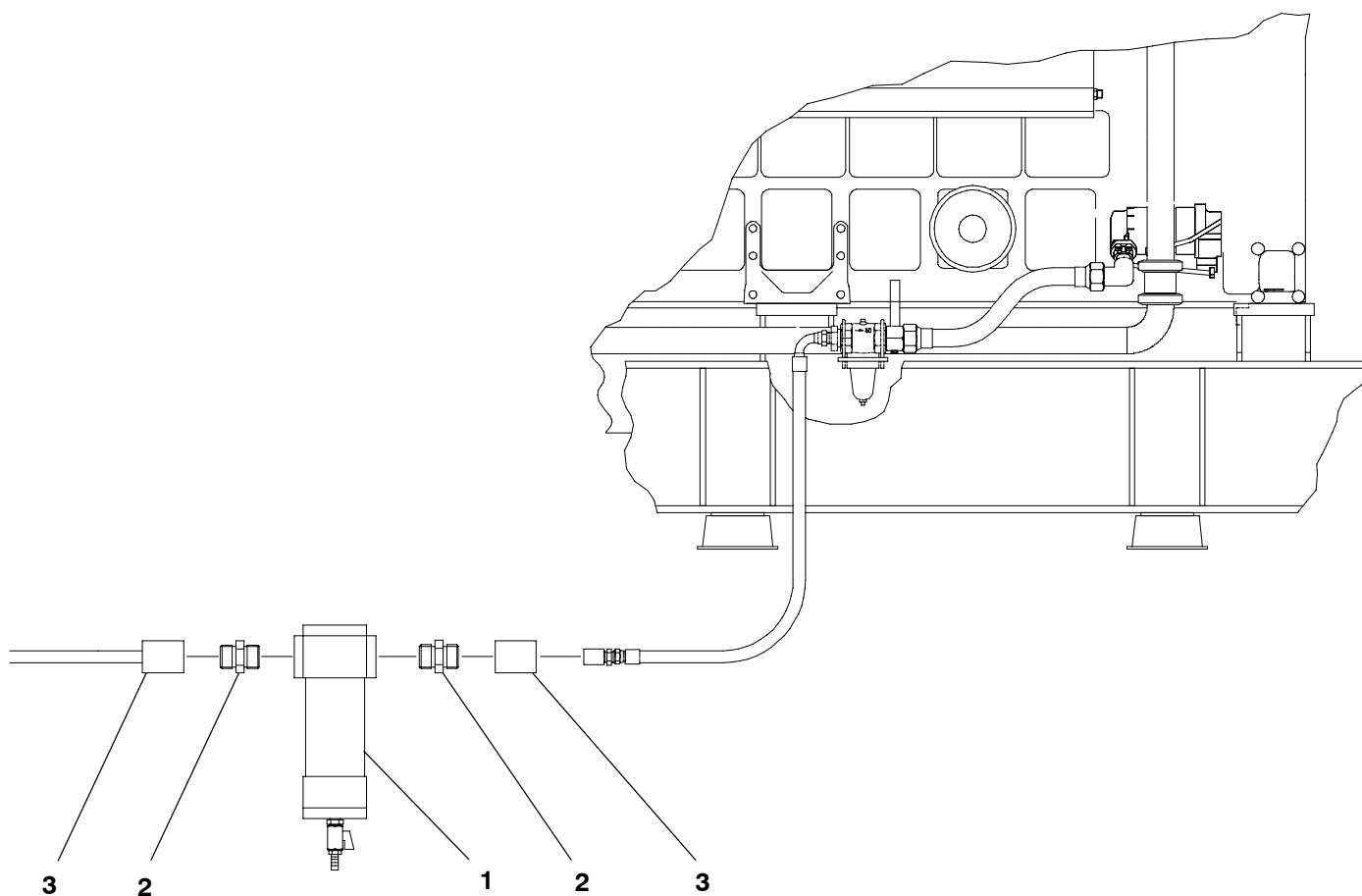
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	862-0026-58	24	Nut, Hex (M16) – BS Flanges
13	155-4588-01	2	Adapter, Exhaust – ANSI Flanges
14	155-4595	2	Flange, Exhaust – ANSI Flanges
15	155-3437	2	Gasket, Exhaust – ANSI Flanges
16	862-0026-59	24	Nut, Hex (M20) – ANSI Flanges
17	800-3017-93	24	Screw, Hex Head (M20 x 2.5 x 70) – ANSI Flanges
18	850-0114-59	24	Washer, Lock (M20) – ANSI Flanges
19	526-0399-76	48	Washer, Flat (M20) – ANSI Flanges

Exhaust Kit GQNC, GQPC



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4445	1	BS Flanges	5	526-0399-64	24	Washer, Flat (M12)
	155-4331	1	ANSI Flange	6	526-0399-70	24	Washer, Flat (M20)
2	155-4524	1	BS Flange	7	800-3017-60	12	Screw, Hex Head (M12 x 1.75 x 60)
	155-4525	1	ANSI Flange	8	800-3017-94	12	Screw, Hex Head (M20 x 2.5 x 75)
3	155-4526	1	BS Flange	9	850-0114-56	12	Washer, Lock (M12)
	155-4527	1	ANSI Flange	10	850-0114-58	12	Washer, Lock (M20)
4	155-4528	1	Gasket, Exhaust	11	862-0026-57	12	Nut, Hex (M12)
				12	862-0026-59	12	Nut, Hex (M20)

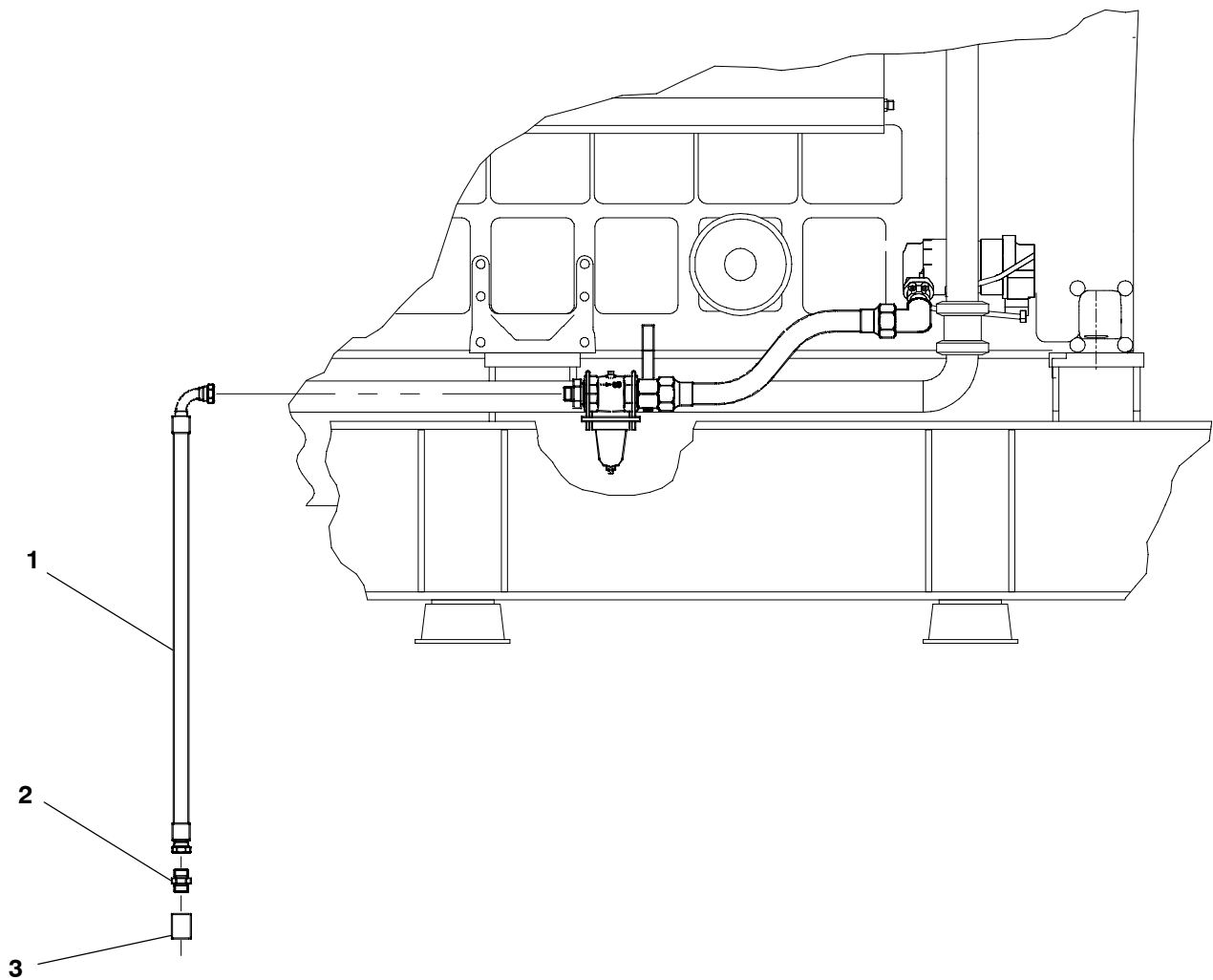
Air Start Filter **GQMA, GQMB, GQNC, GQPC**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3454	1	Cleaner, Air Start
2	505-2085	2	Adapter, Pipe (1" x 1")

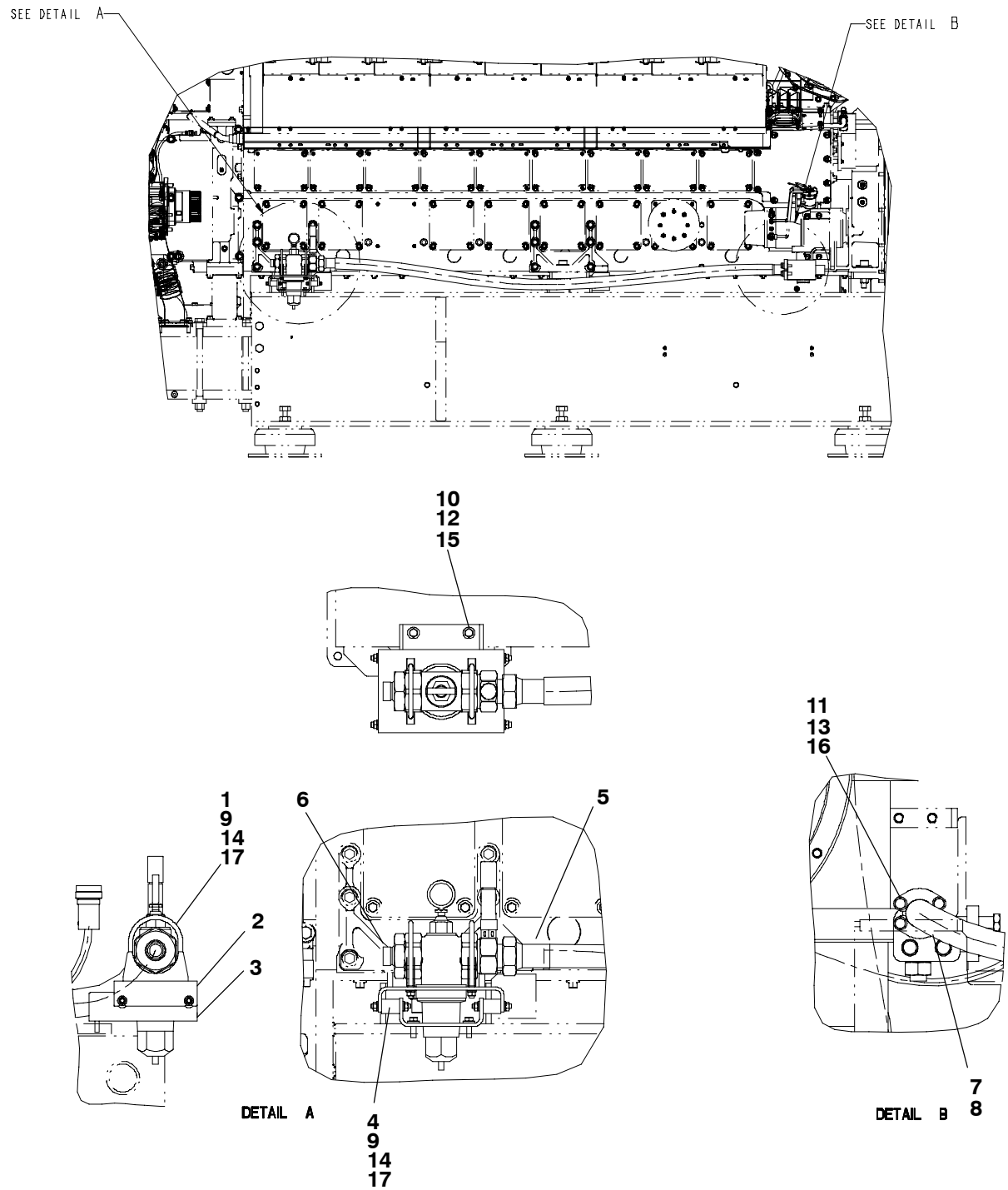
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	502-1442	2	Adapter, Hose (1")

Air Starter Connections



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0769	1	Hose Assembly	3	502-1442	1	Adapter, Hose
2	505-2085	1	Adapter, Pipe				

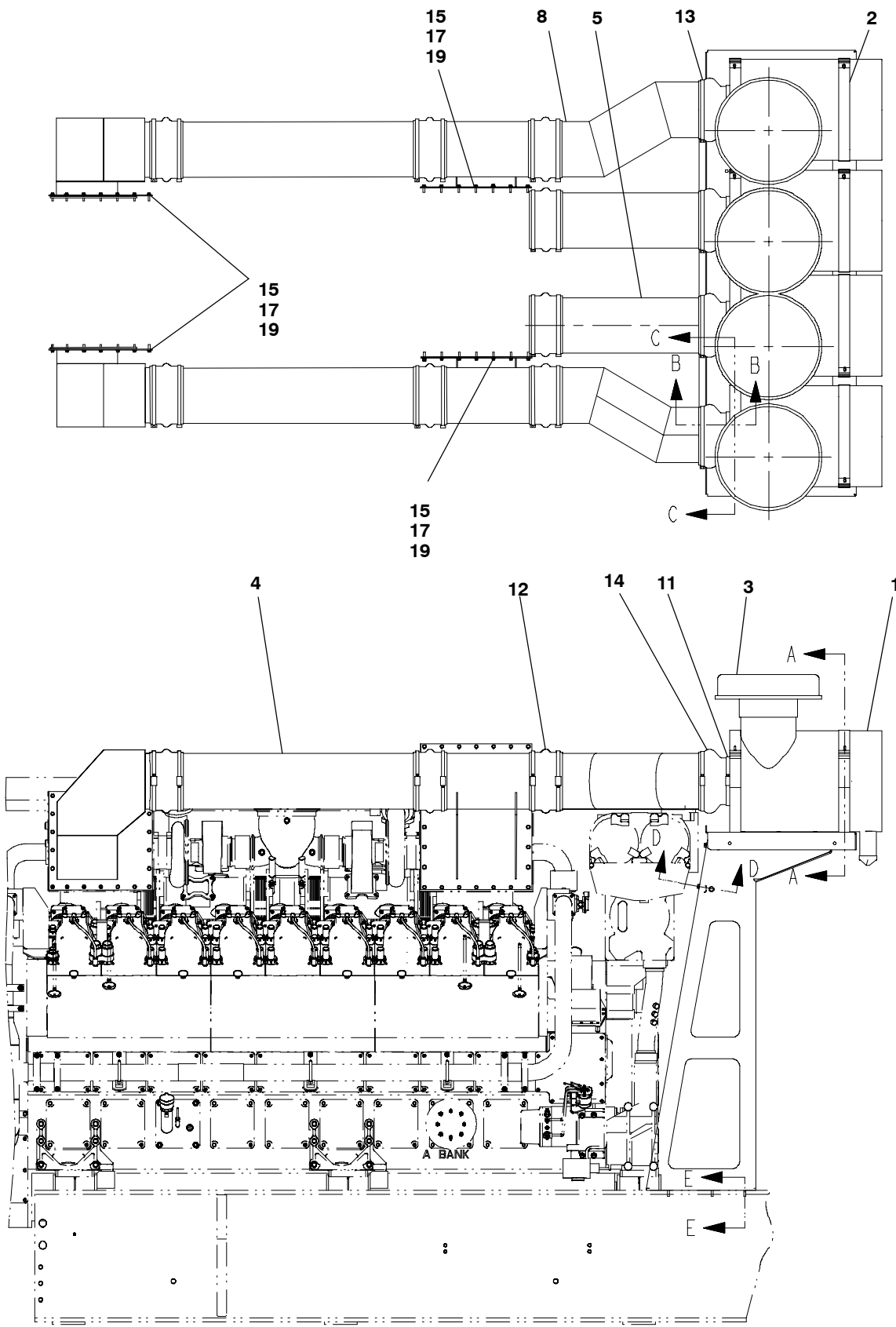
Starter



Starter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-1004	2	Bracket, Regulator	11	526-0399-64	4	Washer, Flat – Steel (M12)
2	305-1030	1	Bracket, Regulator (Outside)	12	800-3017-38	2	Screw, Hex Head (M10 x 1.5 x 30)
3	305-1031	1	Bracket, Regulator (Inside)	13	800-3017-56	4	Screw, Hex Head (M12 x 1.75 x 40)
4	402-0911	4	Isolator, Vibration	14	850-0114-54	12	Washer, Lock – Steel (M8)
5	501-0940	1	Hose	15	850-0114-55	2	Washer, Lock – Steel (M10)
6	505-2041	1	Adapter, Pipe	16	850-0114-56	4	Washer, Lock – Steel (M12)
7	505-2337	1	Flange, Pipe	17	862-0026-55	12	Nut, Hex (M8)
8	509-0448	1	Seal, O-Ring				
9	526-0399-60	12	Washer, Flat – Steel (M8)				
10	526-0399-62	2	Washer, Flat – Steel (M10)				

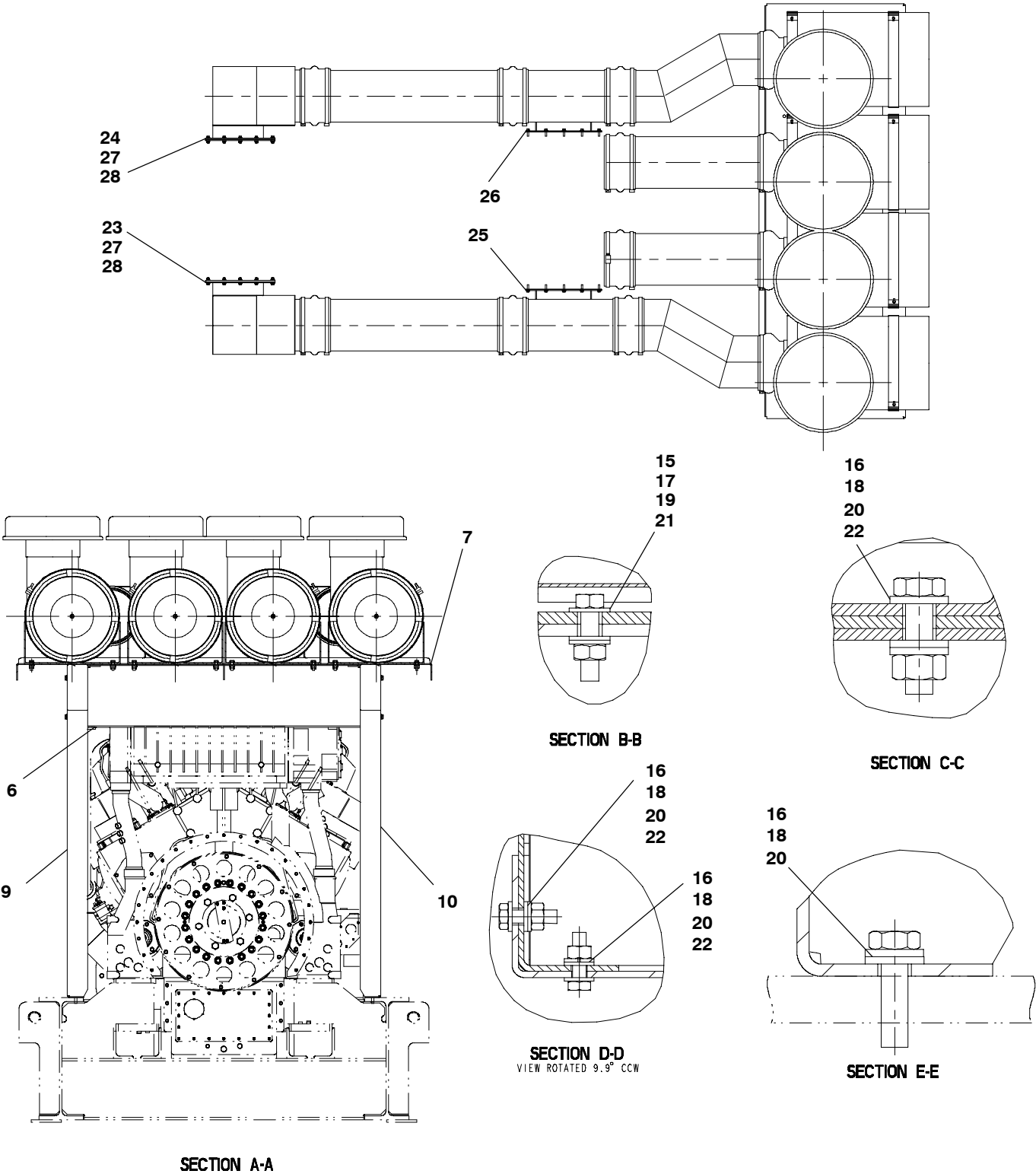
Air Cleaner **GQMA, GQMB** **(Illustration #1)**



Air Cleaner GQMA, GQMB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3230	4	Cleaner, Air	13	503-2479	20	Clamp, Hose (250mm-280mm)
			Service Parts –	14	503-2541	4	Hose, Air (10" x 8")
			Primary Element	15	526-0399-60	128	Washer, Flat (M8)
			Nelson 70781N	16	526-0399-64	54	Washer, Flat (M12)
			Fleetguard AF25544	17	800-3017-21	86	Screw, Hex Head (M8 x 1.25 x 30)
			Safety Element	18	800-3017-56	30	Screw, Hex Head (M12 x 1.75 x 40)
			Nelson 70782N	19	850-0114-54	128	Washer, Lock (M8)
			Fleetguard AF25545	20	850-0114-56	30	Washer, Lock (M12)
2	140-3357	8	Band, Air Cleaner	21	862-0026-55	42	Nut, Hex (M8)
3	140-3370	4	Cap, Rain	22	862-0026-57	24	Nut, Hex (M12)
4	140-3629-34	2	Tube, Air Cleaner	23	140-3971-02	1	Adapter, Air Cleaner
5	140-3629-38	2	Tube, Air Cleaner	24	140-3972-02	1	Adapter, Air Cleaner
6	140-3728-02	1	Base, Air Cleaner (Cross Beam)	25	140-3973-02	1	Bracket, Air Cleaner
7	140-3735-02	1	Base, Air Cleaner (Tray)	26	140-3974-02	1	Bracket, Air Cleaner
8	140-3763-02	2	Adapter, Air Cleaner	27	140-4003-02	4	Spacer, Air Cleaner
9	140-3995-02	1	Bracket, Air Cleaner	28	140-4005-02	2	Spacer, Air Cleaner
10	140-3996-02	1	Bracket, Air Cleaner				
11	503-1870-15	4	Clamp, Hose				
12	503-2478	8	Hose, Intake (10" x 10")				

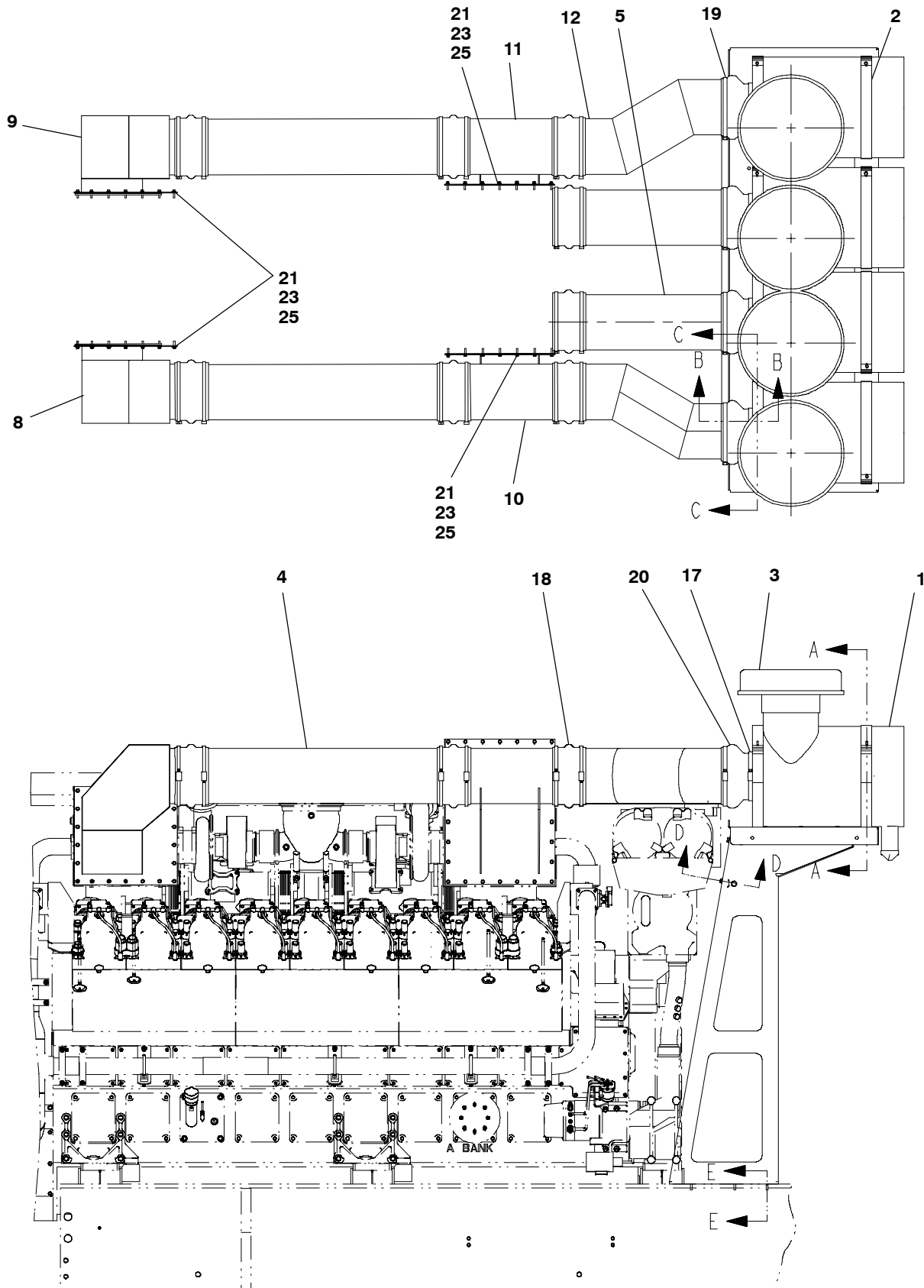
Air Cleaner GQMA, GQMB (Illustration #2)



Air Cleaner GQMA, GQMB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3230	4	Cleaner, Air	13	503-2479	20	Clamp, Hose (250mm-280mm)
			Service Parts –	14	503-2541	4	Hose, Air (10" x 8")
			Primary Element	15	526-0399-60	128	Washer, Flat (M8)
			Nelson 70781N	16	526-0399-64	54	Washer, Flat (M12)
			Fleetguard AF25544	17	800-3017-21	86	Screw, Hex Head (M8 x 1.25 x 30)
			Safety Element	18	800-3017-56	30	Screw, Hex Head (M12 x 1.75 x 40)
			Nelson 70782N	19	850-0114-54	128	Washer, Lock (M8)
			Fleetguard AF25545	20	850-0114-56	30	Washer, Lock (M12)
2	140-3357	8	Band, Air Cleaner	21	862-0026-55	42	Nut, Hex (M8)
3	140-3370	4	Cap, Rain	22	862-0026-57	24	Nut, Hex (M12)
4	140-3629-34	2	Tube, Air Cleaner	23	140-3971-02	1	Adapter, Air Cleaner
5	140-3629-38	2	Tube, Air Cleaner	24	140-3972-02	1	Adapter, Air Cleaner
6	140-3728-02	1	Base, Air Cleaner (Cross Beam)	25	140-3973-02	1	Bracket, Air Cleaner
7	140-3735-02	1	Base, Air Cleaner (Tray)	26	140-3974-02	1	Bracket, Air Cleaner
8	140-3763-02	2	Adapter, Air Cleaner	27	140-4003-02	4	Spacer, Air Cleaner
9	140-3995-02	1	Bracket, Air Cleaner	28	140-4005-02	2	Spacer, Air Cleaner
10	140-3996-02	1	Bracket, Air Cleaner				
11	503-1870-15	4	Clamp, Hose				
12	503-2478	8	Hose, Intake (10" x 10")				

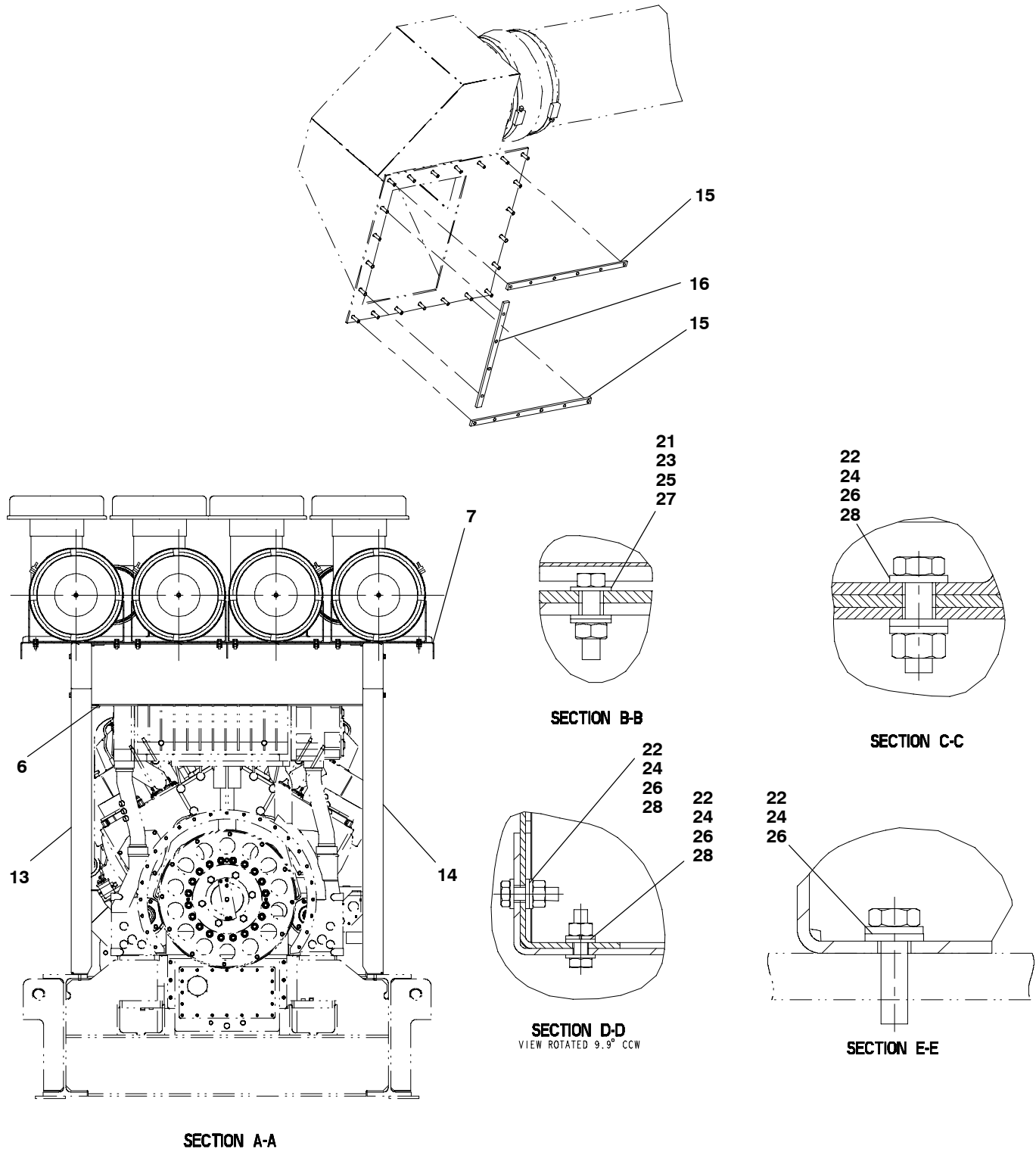
Air Cleaner GQNA, GQNB, GQPB (Illustration #1)



Air Cleaner GQNA, GQNB, GQPB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3230	4	Cleaner, Air	12	140-3763-02	2	Adapter, Air Cleaner
			Service Parts –	13	140-3995-02	1	Bracket, Air Cleaner
			Primary Element	14	140-3996-02	1	Bracket, Air Cleaner
			Nelson 70781N	15	140-4001-02	4	Spacer, Air Cleaner
			Fleetguard AF25544	16	140-4002-02	2	Spacer, Air Cleaner
			Safety Element	17	503-1870-15	4	Clamp, Hose
			Nelson 70782N	18	503-2478	8	Hose, Intake (10" x 10")
			Fleetguard AF25545	19	503-2479	20	Clamp, Hose (250mm–280mm)
2	140-3357	8	Band, Air Cleaner	20	503-2541	4	Hose, Air (10" x 8")
3	140-3370	4	Cap, Rain	21	526-0399-60	128	Washer, Flat (M8)
4	140-3629-34	2	Tube, Air Cleaner	22	526-0399-64	54	Washer, Flat (M12)
5	140-3629-38	2	Tube, Air Cleaner	23	800-3017-21	102	Screw, Hex Head (M8 x 1.25 x 30)
6	140-3728-02	1	Base, Air Cleaner (Cross Beam)	24	800-3017-56	30	Screw, Hex Head (M12 x 1.75 x 40)
7	140-3735-02	1	Base, Air Cleaner (Tray)	25	850-0114-54	102	Washer, Lock (M8)
8	140-3759-02	1	Adapter, Air Cleaner	26	850-0114-56	30	Washer, Lock (M12)
9	140-3760-02	1	Adapter, Air Cleaner	27	862-0026-55	6	Nut, Hex (M8)
10	140-3761-02	1	Bracket, Air Cleaner Tube	28	862-0026-57	24	Nut, Hex (M12)
11	140-3762-02	1	Bracket, Air Cleaner Tube				

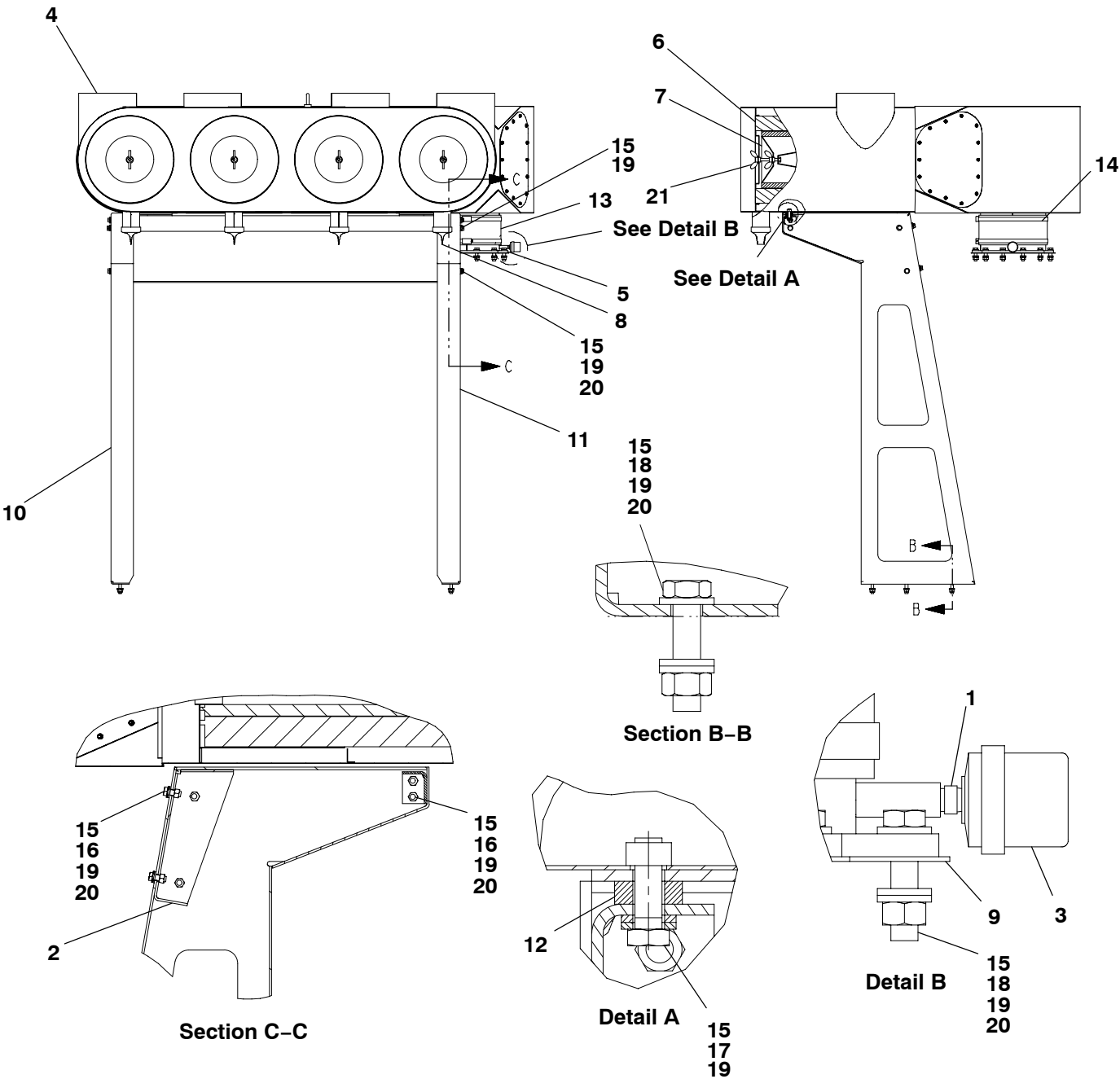
Air Cleaner GQNA, GQNB, GQPB (Illustration #2)



Air Cleaner GQNA, GQNB, GQPB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3230	4	Cleaner, Air	12	140-3763-02	2	Adapter, Air Cleaner
			Service Parts –	13	140-3995-02	1	Bracket, Air Cleaner
			Primary Element	14	140-3996-02	1	Bracket, Air Cleaner
			Nelson 70781N	15	140-4001-02	4	Spacer, Air Cleaner
			Fleetguard AF25544	16	140-4002-02	2	Spacer, Air Cleaner
			Safety Element	17	503-1870-15	4	Clamp, Hose
			Nelson 70782N	18	503-2478	8	Hose, Intake (10" x 10")
			Fleetguard AF25545	19	503-2479	20	Clamp, Hose (250mm-280mm)
2	140-3357	8	Band, Air Cleaner	20	503-2541	4	Hose, Air (10" x 8")
3	140-3370	4	Cap, Rain	21	526-0399-60	128	Washer, Flat (M8)
4	140-3629-34	2	Tube, Air Cleaner	22	526-0399-64	54	Washer, Flat (M12)
5	140-3629-38	2	Tube, Air Cleaner	23	800-3017-21	102	Screw, Hex Head (M8 x 1.25 x 30)
6	140-3728-02	1	Base, Air Cleaner (Cross Beam)	24	800-3017-56	30	Screw, Hex Head (M12 x 1.75 x 40)
7	140-3735-02	1	Base, Air Cleaner (Tray)	25	850-0114-54	102	Washer, Lock (M8)
8	140-3759-02	1	Adapter, Air Cleaner	26	850-0114-56	30	Washer, Lock (M12)
9	140-3760-02	1	Adapter, Air Cleaner	27	862-0026-55	6	Nut, Hex (M8)
10	140-3761-02	1	Bracket, Air Cleaner Tube	28	862-0026-57	24	Nut, Hex (M12)
11	140-3762-02	1	Bracket, Air Cleaner Tube				

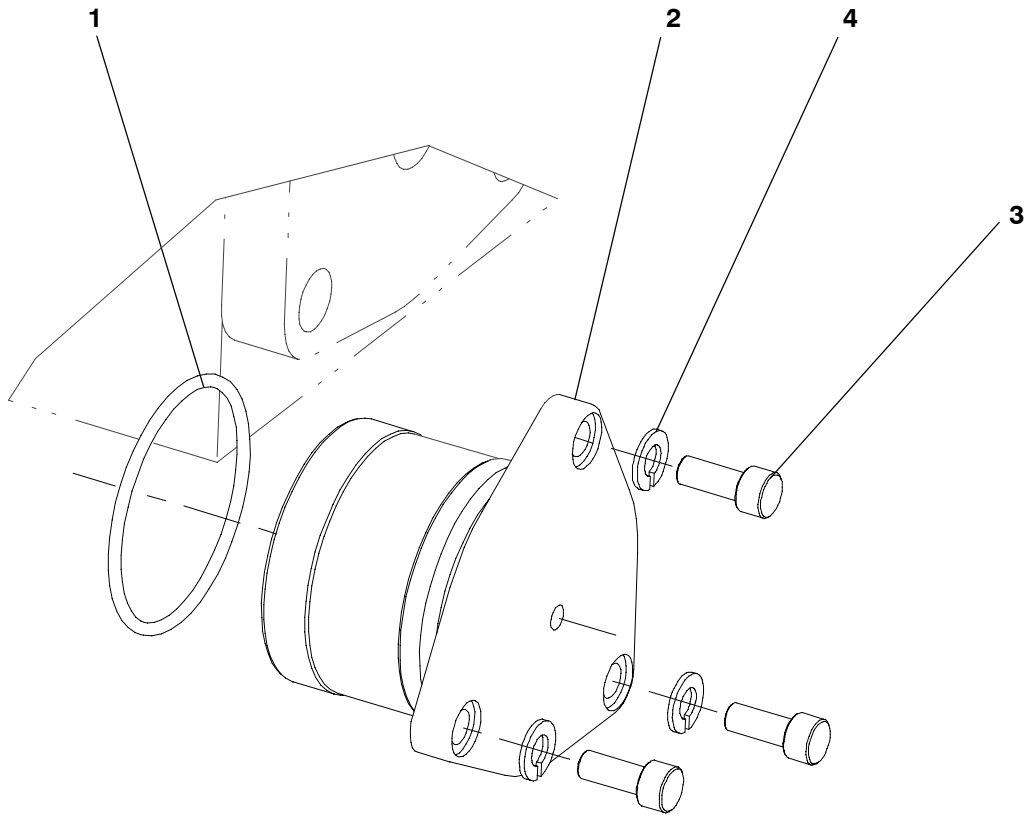
Air Cleaner GQNC, GQPC



Air Cleaner GQNC, GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1260	1	Fitting, Safety Filter	13	503-2557	1	Hose, Air
2	140-3728-02	1	Base, Air Cleaner – Cross Beam	14	503-2589	2	Clamp, Hose
3	140-3764	1	Indicator, Service	15	526-0399-64	54	Washer, Flat – Steel (M12)
4	140-3776	1	Housing, Air Cleaner	16	800-3017-54	15	Screw, Hex Head (M12 x 1.75 x 30)
5	140-3777-02	1	Adapter, Air Cleaner	17	800-3017-56	3	Screw, Hex Head (M12 x 1.75 x 40)
6	140-3813	4	Element, Air Cleaner – Primary	18	800-3017-58	18	Screw, Hex Head (M12 x 1.75 x 50)
7	140-3814	4	Element, Air Cleaner – Safety	19	850-0114-56	36	Washer, Lock – Steel (M12)
8	140-3815	4	Cleaner, Air – Dust Ejector	20	862-0026-57	30	Nut, Hex (M12)
9	140-3890	1	Gasket, Air Cleaner	21	865-0033	8	Nut, Wing (M12)
10	140-3995-02	1	Bracket, Air Cleaner				
11	140-3996-02	1	Bracket, Air Cleaner				
12	140-3984-02	1	Bracket, Air Cleaner				

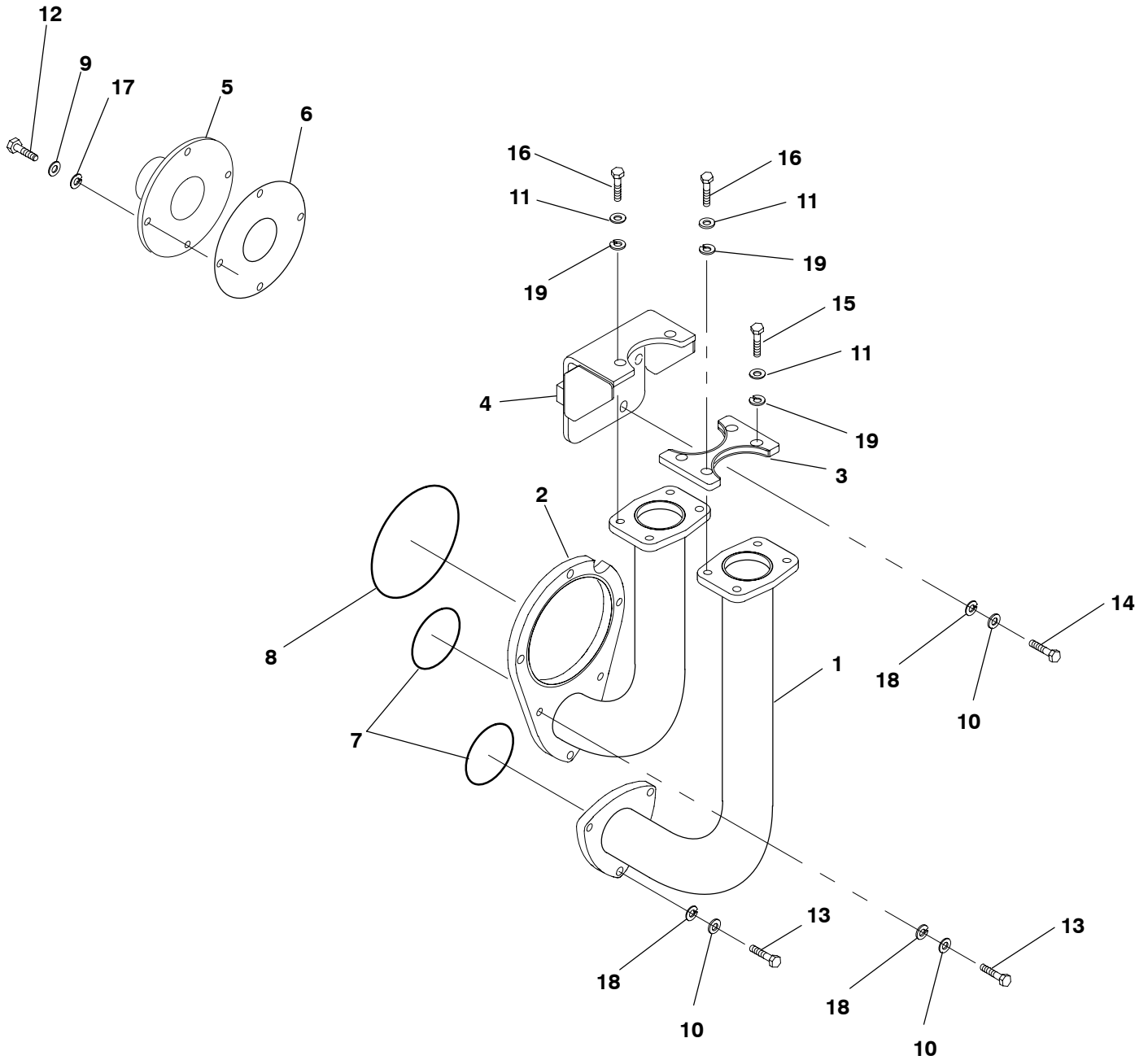
Thermostat (Dummy) GQMA, GQMB



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	509-0437	4	Seal, 'O'-Ring
2	517-0379	4	Plug, Cap

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	725-1051	12	Screw, Socket Head (M8 x 25)
4	850-0114-54	12	Washer, Lock (M8)

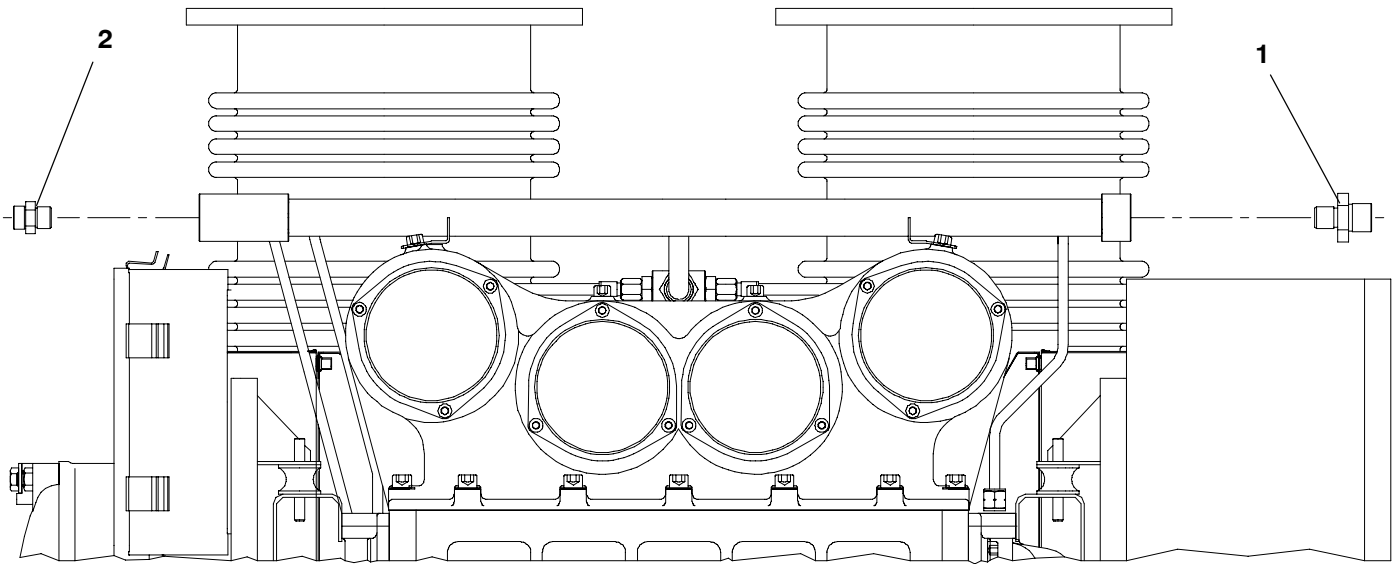
Engine Circulating Pump GQMA, GQMB



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6416	1	Tube, Water
2	130-6417	1	Tube, Water
3	132-0455	1	Bracket, Water Pump
4	132-0456	1	Bracket, Water Pump
5	132-0457	1	Cover, Water Pump
6	132-0458	1	Gasket, Water Pump
7	509-0433	2	Seal, 'O'-Ring
8	509-0434	1	Seal, 'O'-Ring
9	526-0399-60	4	Washer, Flat (M8)
10	526-0399-64	11	Washer, Flat (M12)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	526-0399-66	8	Washer, Flat (M16)
12	800-3017-19	4	Screw, Hex Head (M8 x 20)
13	800-3017-55	8	Screw, Hex Head (M12)
14	800-3017-56	3	Screw, Hex Head (M12)
15	800-3017-71	2	Screw, Hex Head (M16 x 30)
16	800-3017-73	6	Screw, Hex Head (M16 x 45)
17	850-0114-54	4	Washer, Lock (M8)
18	850-0114-56	11	Washer, Lock (M12)
19	850-0114-57	8	Washer, Lock (M16)

**Cooling System Vents
GQMA, GQMB**

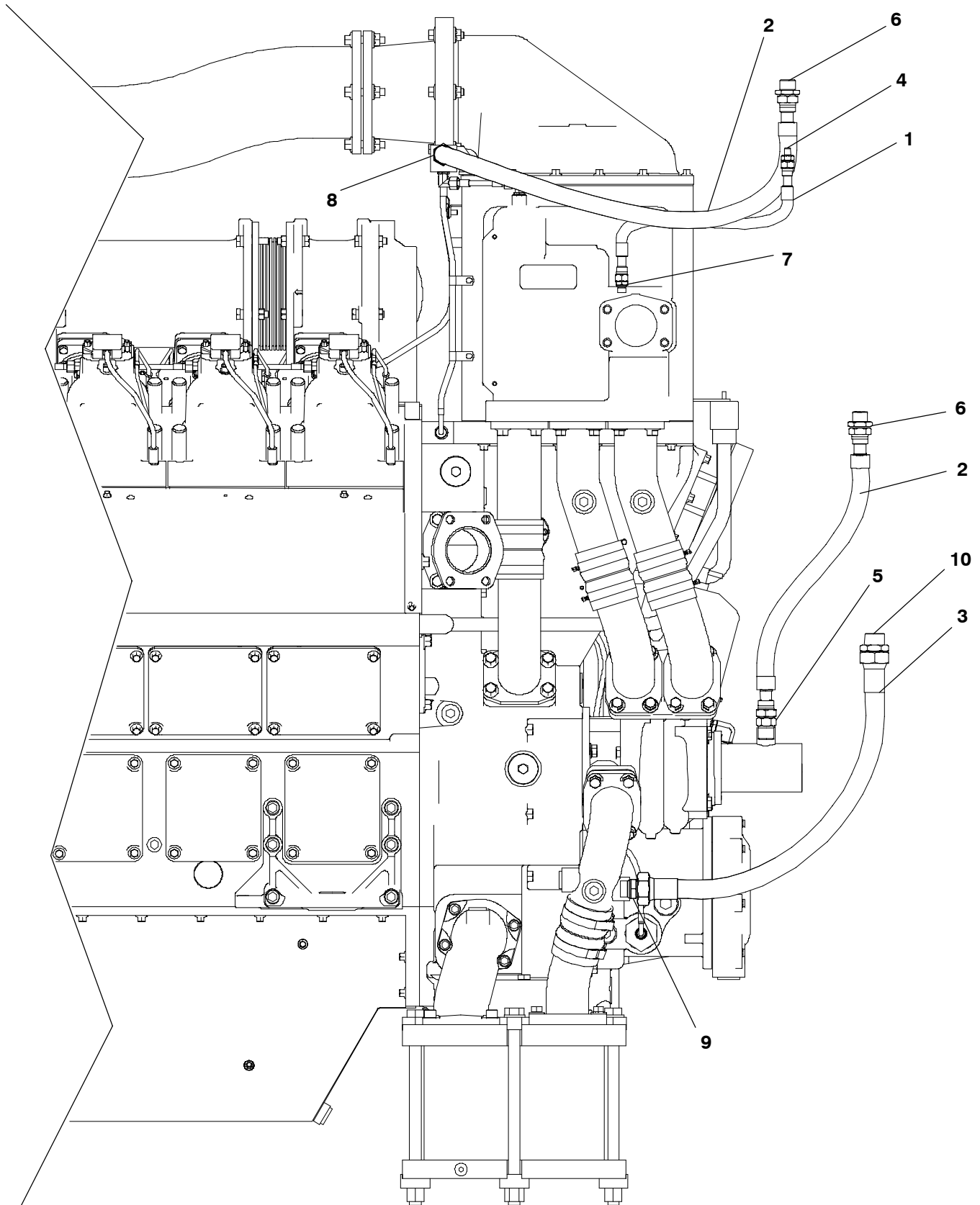


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-2072	1	Adapter, Pipe

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	505-2073	1	Adapter, Pipe

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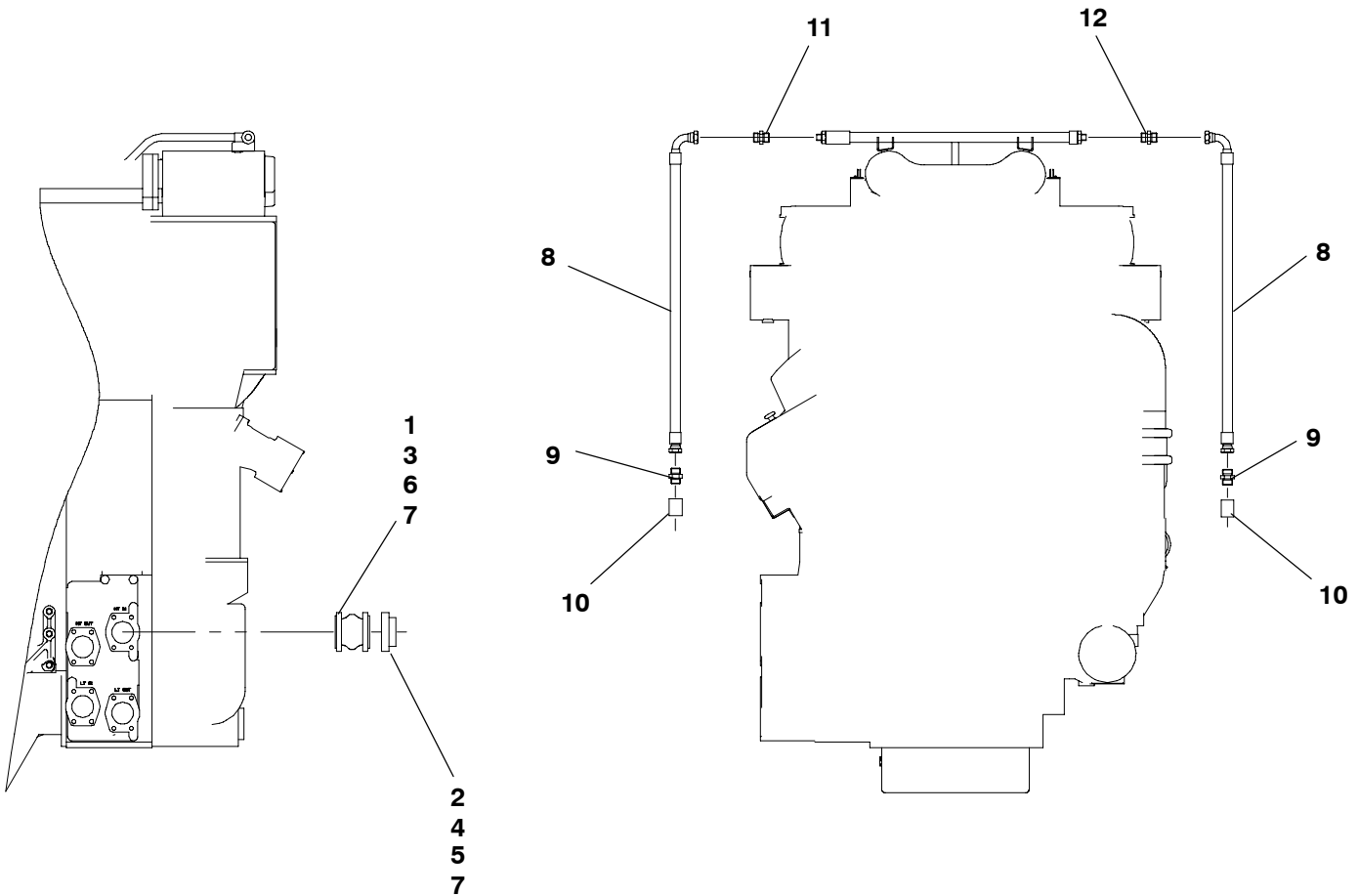
Cooling System GQNC, GQPC



Cooling System GQNC, GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0934	1	Hose Assembly	6	505-2181	2	Adapter, Pipe
2	501-0935	2	Hose Assembly	7	505-2314	1	Adapter, Pipe
3	501-0936	1	Hose Assembly	8	505-2315	1	Adapter, Pipe
4	505-2052	1	Adapter, Pipe	9	505-2316	1	Adapter, Pipe
5	505-2068	1	Adapter, Pipe	10	505-2331	1	Adapter, Pipe

Radiator Connections **GQMA, GQMB, GQNA, GQNB, GQPB**

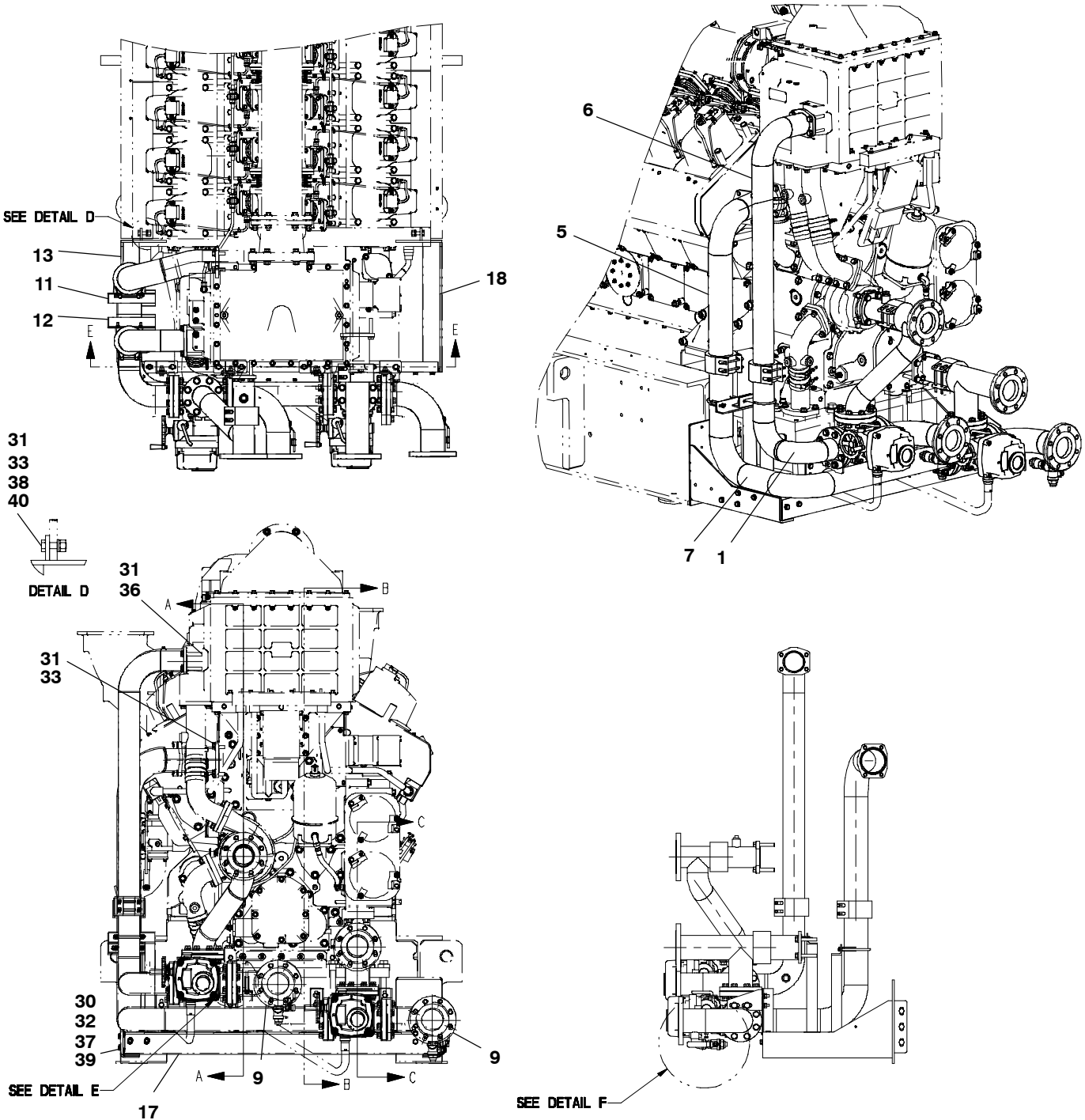


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1435	4	Coupling, Hose
2	505-2063	4	Flange, Pipe
3	725-1159	16	Screw, Socket – Cap Head (M16 x 50)
4	725-1163	16	Screw, Socket – Cap Head (M16 x 70)
5	862-0026-58	16	Nut, Hex (M16)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	526-0399-66	16	Washer, Flat (M16)
7	850-0114-57	32	Washer, Lock – Spring (M16)
8	501-0768	2	Hose Assembly
9	502-1441	2	Adapter, Hose
10	502-1440	2	Adapter, Hose
11	505-2073	1	Adapter, Pipe (M22)
12	505-2072	1	Adapter, Pipe (M27)

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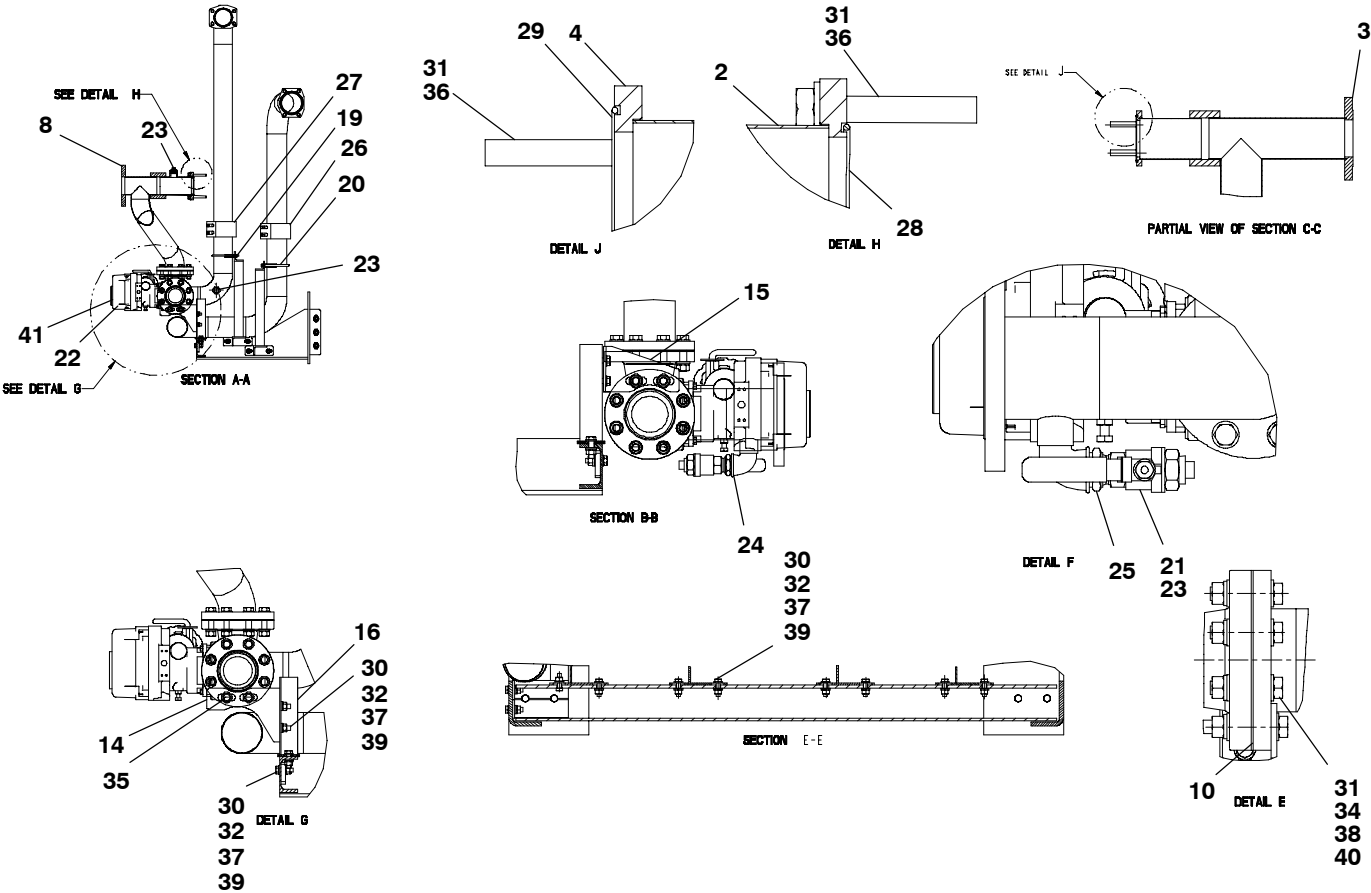
Cooling System ANSI Flanges GQPC (Illustration #1)



Cooling System ANSI Flanges GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6335-02	1	Tube, Water – LT Outlet	24	505-2061	2	Adapter, Pipe
2	130-6336-02	1	Tube, Water – LT Inlet	25	505-2079	2	Adapter, Pipe
3	130-6337-04	1	Tube, Water	26	505-2264	2	Coupling, Pipe (4")
4	130-6338-02	1	Tube, Water – HT Inlet	27	505-2265	2	Coupling, Pipe (3.5")
5	130-6339-02	1	Tube, Water – HT Outlet	28	509-0435	2	Seal, O-Ring
6	130-6340-02	1	Tube, Water – LT Outlet	29	509-0436	2	Seal, O-Ring
7	130-6341-02	1	Tube, Water – HT Outlet	30	526-0399-64	47	Washer, Flat – Steel (M12)
8	130-6342-04	1	Tube, Water	31	526-0399-66	118	Washer, Flat – Steel (M16)
9	130-6369-04	2	Tube, Water	32	800-3017-56	24	Screw, Hex Head (M12 x 1.75 x 40)
10	130-6405	6	Gasket, Radiator	33	800-3017-74	10	Screw, Hex Head (M16 x 2.0 x 50)
11	130-6445-02	1	Bracket, Tube – Support	34	800-3017-78	40	Screw, Hex Head (M16 x 2.0 x 70)
12	130-6446-02	1	Bracket, Tube – Support	35	800-3017-81	8	Screw, Hex Head (M16 x 2.0 x 85)
13	130-6949-02	1	Bracket, Tube – Support	36	800-3017-82	12	Screw, Hex Head (M16 x 2.0 x 90)
14	130-7049-02	2	Bracket, Tube – Support	37	850-0114-56	24	Washer, Lock – Steel (M12)
15	130-7050-02	2	Bracket, Tube – Support	38	850-0114-57	54	Washer, Lock – Steel (M16)
16	130-7051-02	4	Bracket, Tube – Support	39	862-0026-57	24	Nut, Hex (M12)
17	130-7071-02	1	Bracket, Tube – Support	40	862-0026-58	54	Nut, Hex (M16)
18	130-6950-02	1	Bracket, Tube – Support	41	504-0286	2	Valve, Ball – 3-Way (110V)
19	155-4429	1	Clamp, Exhaust (102 OD)				
20	155-4430	1	Clamp, Exhaust (115 OD)				
21	504-0227	2	Valve, Ball – Lockable				
22	504-0273	2	Valve, Ball – 3-Way (220/240V)				
23	505-1597	4	Plug, Pipe				

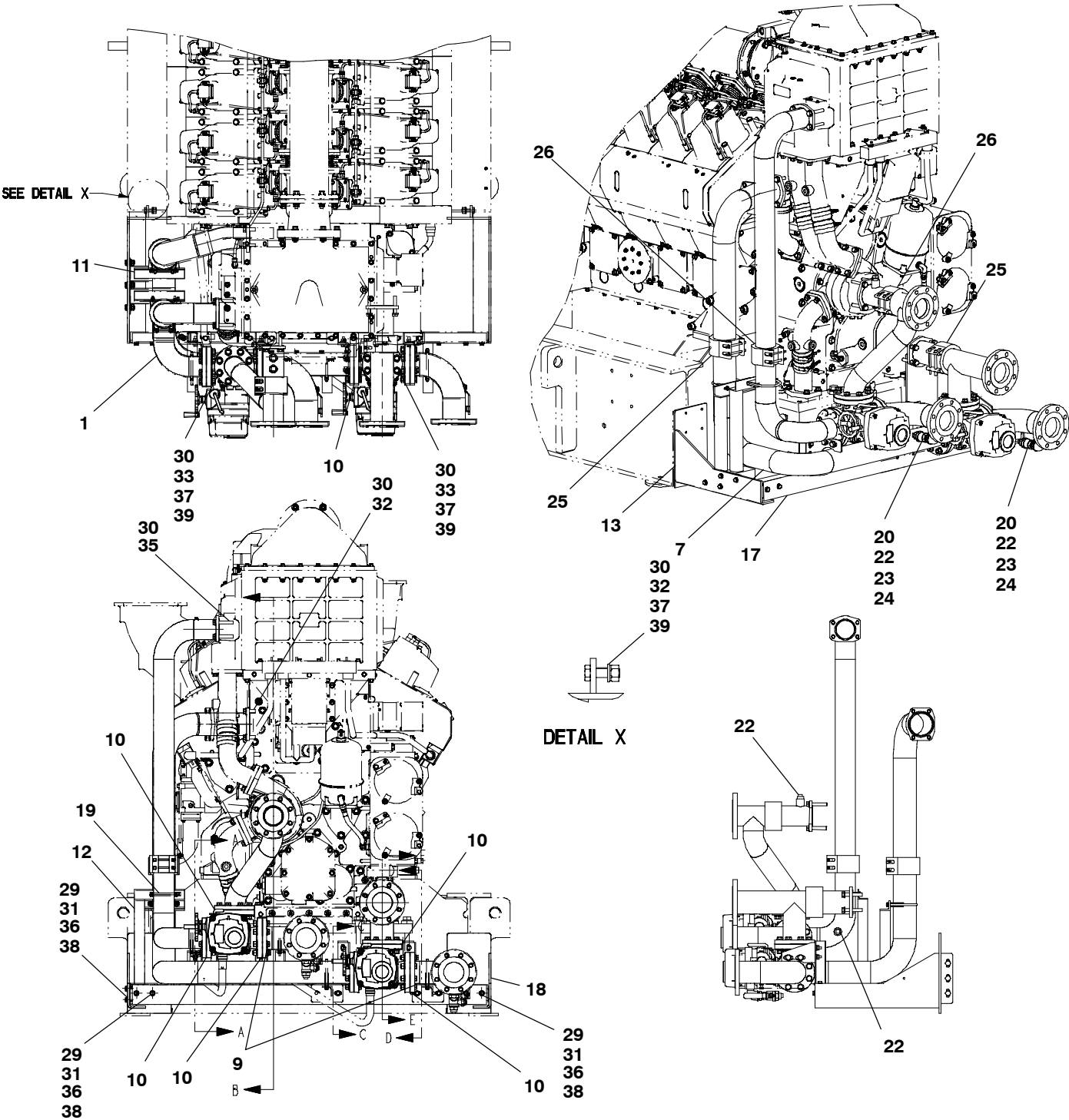
Cooling System ANSI Flanges GQPC (Illustration #2)



Cooling System ANSI Flanges GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6335-02	1	Tube, Water – LT Outlet	24	505-2061	2	Adapter, Pipe
2	130-6336-02	1	Tube, Water – LT Inlet	25	505-2079	2	Adapter, Pipe
3	130-6337-04	1	Tube, Water	26	505-2264	2	Coupling, Pipe (4")
4	130-6338-02	1	Tube, Water – HT Inlet	27	505-2265	2	Coupling, Pipe (3.5")
5	130-6339-02	1	Tube, Water – HT Outlet	28	509-0435	2	Seal, O-Ring
6	130-6340-02	1	Tube, Water – LT Outlet	29	509-0436	2	Seal, O-Ring
7	130-6341-02	1	Tube, Water – HT Outlet	30	526-0399-64	47	Washer, Flat – Steel (M12)
8	130-6342-04	1	Tube, Water	31	526-0399-66	118	Washer, Flat – Steel (M16)
9	130-6369-04	2	Tube, Water	32	800-3017-56	24	Screw, Hex Head (M12 x 1.75 x 40)
10	130-6405	6	Gasket, Radiator	33	800-3017-74	10	Screw, Hex Head (M16 x 2.0 x 50)
11	130-6445-02	1	Bracket, Tube – Support	34	800-3017-78	40	Screw, Hex Head (M16 x 2.0 x 70)
12	130-6446-02	1	Bracket, Tube – Support	35	800-3017-81	8	Screw, Hex Head (M16 x 2.0 x 85)
13	130-6949-02	1	Bracket, Tube – Support	36	800-3017-82	12	Screw, Hex Head (M16 x 2.0 x 90)
14	130-7049-02	2	Bracket, Tube – Support	37	850-0114-56	24	Washer, Lock – Steel (M12)
15	130-7050-02	2	Bracket, Tube – Support	38	850-0114-57	54	Washer, Lock – Steel (M16)
16	130-7051-02	4	Bracket, Tube – Support	39	862-0026-57	24	Nut, Hex (M12)
17	130-7071-02	1	Bracket, Tube – Support	40	862-0026-58	54	Nut, Hex (M16)
18	130-6950-02	1	Bracket, Tube – Support	41	504-0286	2	Valve, Ball – 3-Way (110V)
19	155-4429	1	Clamp, Exhaust (102 OD)				
20	155-4430	1	Clamp, Exhaust (115 OD)				
21	504-0227	2	Valve, Ball – Lockable				
22	504-0273	2	Valve, Ball – 3-Way (220/240V)				
23	505-1597	4	Plug, Pipe				

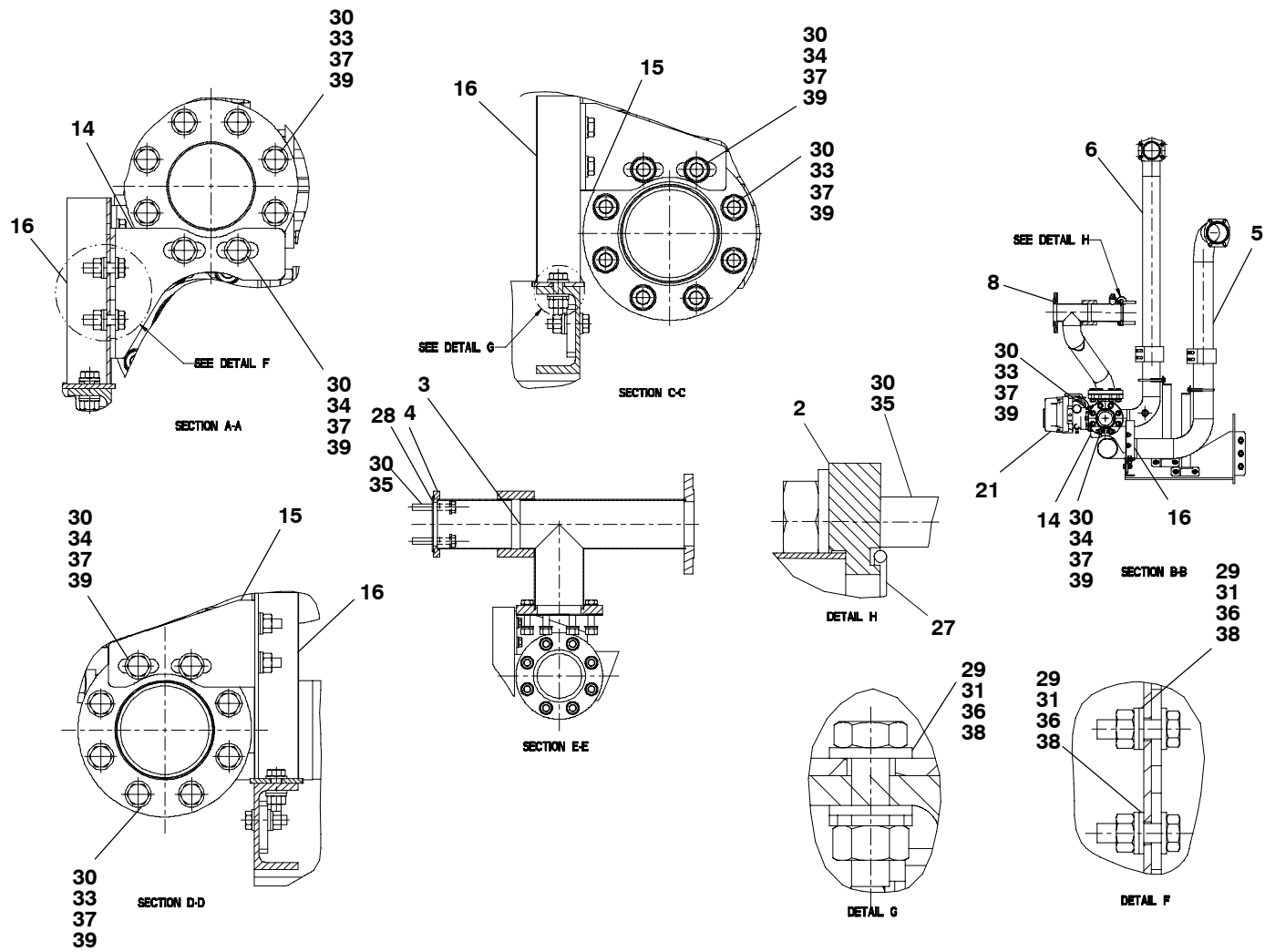
Cooling System ANSI Flanges GQNC (Illustration #1)



Cooling System ANSI Flanges GQNC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6335-02	1	Tube, Water – LT Outlet	23	505-2061	2	Adapter, Pipe
2	130-6336-02	1	Tube, Water – LT Inlet	24	505-2079	2	Adapter, Pipe
3	130-6337-04	1	Tube, Water	25	505-2264	2	Coupling, Pipe (4")
4	130-6338-02	1	Tube, Water – HT Inlet	26	505-2265	2	Coupling, Pipe (3.5")
5	130-6339-02	1	Tube, Water – HT Outlet	27	509-0435	2	Seal, O-Ring
6	130-6340-02	1	Tube, Water – LT Outlet	28	509-0436	2	Seal, O-Ring
7	130-6341-02	1	Tube, Water – HT Outlet	29	526-0399-64	48	Washer, Flat – Steel (M12)
8	130-6342-04	1	Tube, Water	30	526-0399-66	118	Washer, Flat – Steel (M16)
9	130-6369-04	2	Tube, Water	31	800-3017-56	24	Screw, Hex Head (M12 x 1.75 x 40)
10	130-6405	6	Gasket, Radiator	32	800-3017-74	10	Screw, Hex Head (M16 x 2.0 x 50)
11	130-6424-02	1	Bracket, Tube – Support	33	800-3017-78	40	Screw, Hex Head (M16 x 2.0 x 70)
12	130-6425-02	1	Bracket, Tube – Support	34	800-3017-80	8	Screw, Hex Head (M16 x 2.0 x 80)
13	130-6949-02	1	Bracket, Tube – Support RH	35	800-3017-82	12	Screw, Hex Head (M16 x 2.0 x 90)
14	130-7049-02	2	Bracket, Tube – Support	36	850-0114-56	24	Washer, Lock – Steel (M12)
15	130-7050-02	2	Bracket, Tube – Support	37	850-0114-57	54	Washer, Lock – Steel (M16)
16	130-7051-02	4	Bracket, Tube – Support	38	862-0026-57	24	Nut, Hex (M12)
17	130-7063-02	1	Bracket, Tube – Support	39	862-0026-58	54	Nut, Hex (M16)
18	130-6950-02	1	Bracket, Tube – Support				
19	155-4430	2	Clamp, Exhaust (115 OD)				
20	504-0227	2	Valve, Ball – Lockable				
21	504-0273	2	Valve, Ball – 3-Way (220/240V)				
22	505-1597	4	Plug, Pipe				

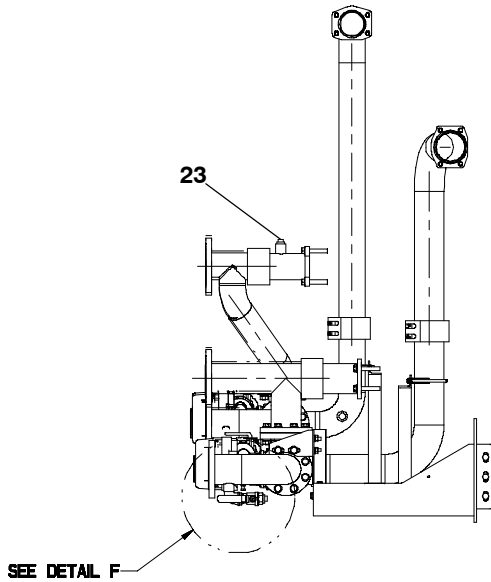
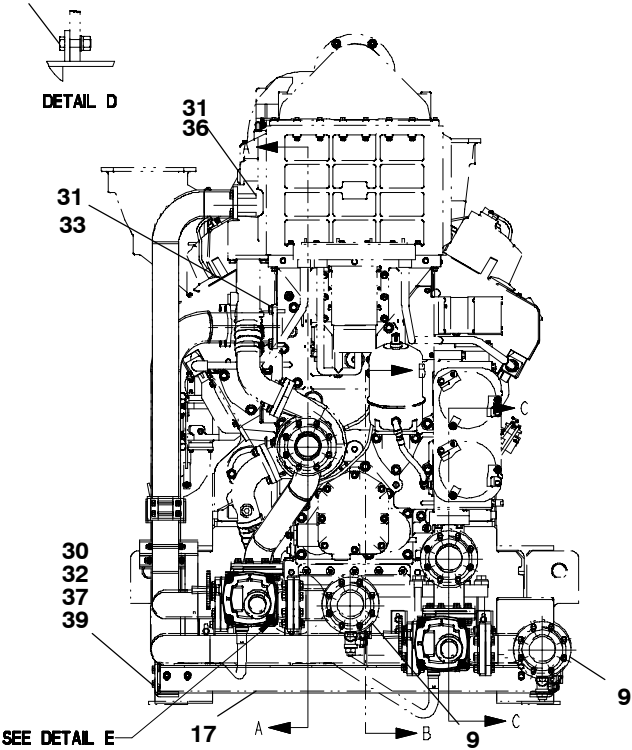
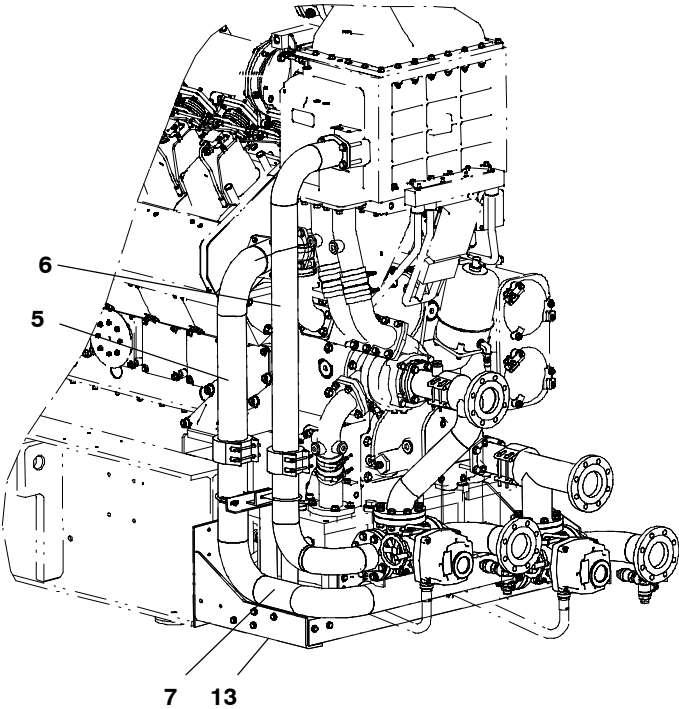
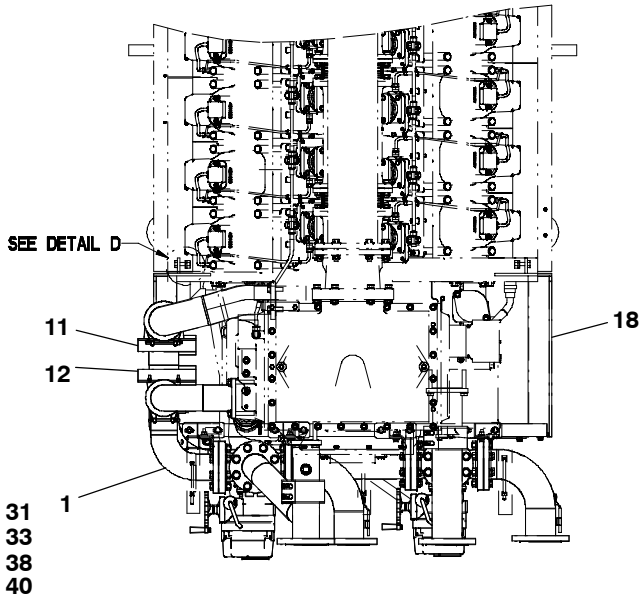
Cooling System ANSI Flanges GQNC (Illustration #2)



Cooling System ANSI Flanges GQNC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6335-02	1	Tube, Water – LT Outlet	23	505-2061	2	Adapter, Pipe
2	130-6336-02	1	Tube, Water – LT Inlet	24	505-2079	2	Adapter, Pipe
3	130-6337-04	1	Tube, Water	25	505-2264	2	Coupling, Pipe (4")
4	130-6338-02	1	Tube, Water – HT Inlet	26	505-2265	2	Coupling, Pipe (3.5")
5	130-6339-02	1	Tube, Water – HT Outlet	27	509-0435	2	Seal, O-Ring
6	130-6340-02	1	Tube, Water – LT Outlet	28	509-0436	2	Seal, O-Ring
7	130-6341-02	1	Tube, Water – HT Outlet	29	526-0399-64	48	Washer, Flat – Steel (M12)
8	130-6342-04	1	Tube, Water	30	526-0399-66	118	Washer, Flat – Steel (M16)
9	130-6369-04	2	Tube, Water	31	800-3017-56	24	Screw, Hex Head (M12 x 1.75 x 40)
10	130-6405	6	Gasket, Radiator	32	800-3017-74	10	Screw, Hex Head (M16 x 2.0 x 50)
11	130-6424-02	1	Bracket, Tube – Support	33	800-3017-78	40	Screw, Hex Head (M16 x 2.0 x 70)
12	130-6425-02	1	Bracket, Tube – Support	34	800-3017-80	8	Screw, Hex Head (M16 x 2.0 x 80)
13	130-6949-02	1	Bracket, Tube – Support RH	35	800-3017-82	12	Screw, Hex Head (M16 x 2.0 x 90)
14	130-7049-02	2	Bracket, Tube – Support	36	850-0114-56	24	Washer, Lock – Steel (M12)
15	130-7050-02	2	Bracket, Tube – Support	37	850-0114-57	54	Washer, Lock – Steel (M16)
16	130-7051-02	4	Bracket, Tube – Support	38	862-0026-57	24	Nut, Hex (M12)
17	130-7063-02	1	Bracket, Tube – Support	39	862-0026-58	54	Nut, Hex (M16)
18	130-6950-02	1	Bracket, Tube – Support				
19	155-4430	2	Clamp, Exhaust (115 OD)				
20	504-0227	2	Valve, Ball – Lockable				
21	504-0273	2	Valve, Ball – 3-Way (220/240V)				
22	505-1597	4	Plug, Pipe				

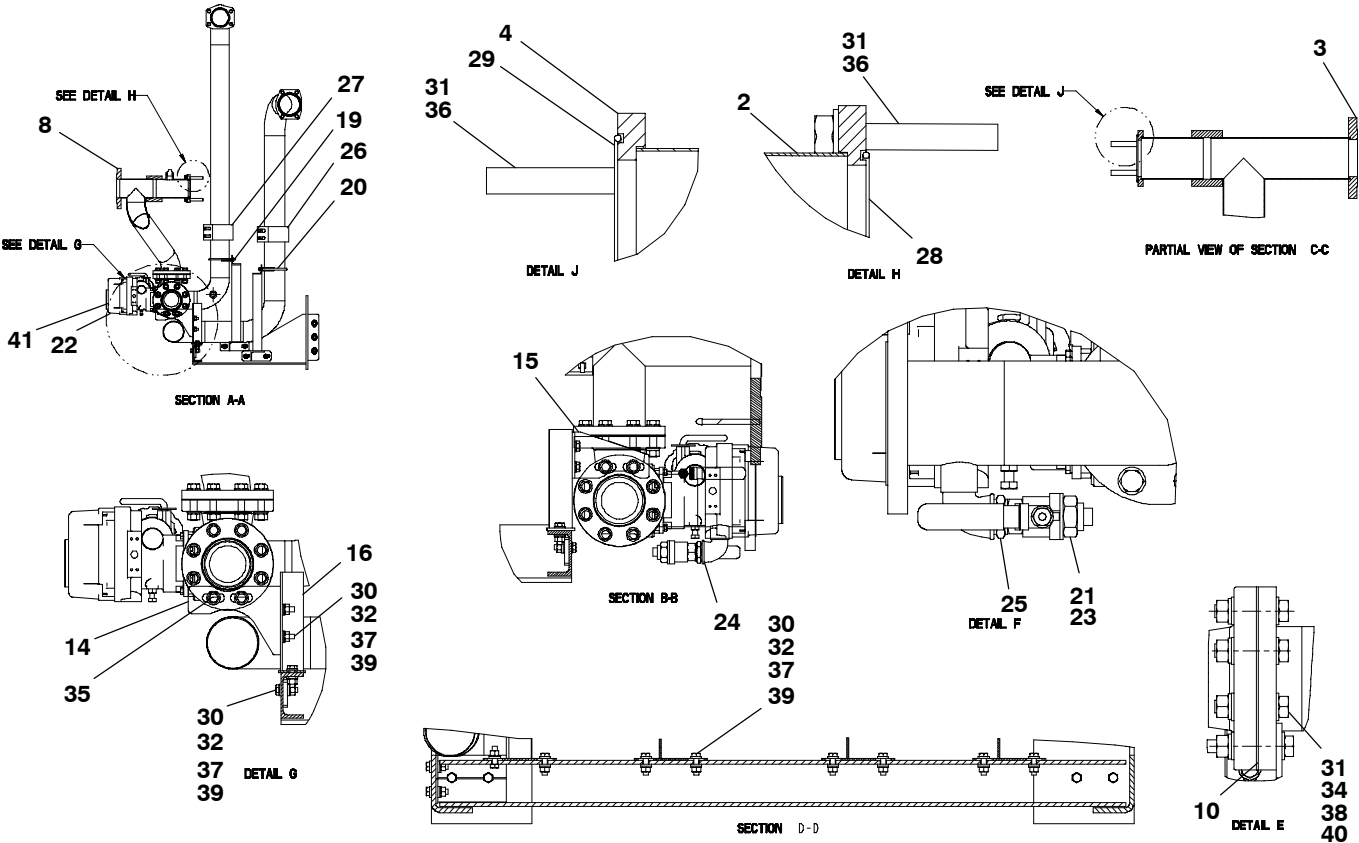
Cooling System BS Flanges GQPC (Illustration #1)



Cooling System BS Flanges GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6335-02	1	Tube, Water – LT Outlet	24	505-2061	2	Adapter, Pipe
2	130-6336-02	1	Tube, Water – LT Inlet	25	505-2079	2	Adapter, Pipe
3	130-6337-02	1	Tube, Water	26	505-2264	2	Coupling, Pipe (4")
4	130-6338-02	1	Tube, Water – HT Inlet	27	505-2265	2	Coupling, Pipe (3.5")
5	130-6339-02	1	Tube, Water – HT Outlet	28	509-0435	2	Seal, O-Ring
6	130-6340-02	1	Tube, Water – LT Outlet	29	509-0436	2	Seal, O-Ring
7	130-6341-02	1	Tube, Water – HT Outlet	30	526-0399-64	47	Washer, Flat – Steel (M12)
8	130-6342-02	1	Tube, Water	31	526-0399-66	118	Washer, Flat – Steel (M16)
9	130-6369-02	2	Tube, Water	32	800-3017-56	24	Screw, Hex Head (M12 x 1.75 x 40)
10	130-6405	6	Gasket, Radiator	33	800-3017-74	10	Screw, Hex Head (M16 x 2.0 x 50)
11	130-6445-02	1	Bracket, Tube – Support	34	800-3017-78	40	Screw, Hex Head (M16 x 2.0 x 70)
12	130-6446-02	1	Bracket, Tube – Support	35	800-3017-81	8	Screw, Hex Head (M16 x 2.0 x 85)
13	130-6949-02	1	Bracket, Tube – Support	36	800-3017-82	12	Screw, Hex Head (M16 x 2.0 x 90)
14	130-7049-02	2	Bracket, Tube – Support	37	850-0114-56	24	Washer, Lock – Steel (M12)
15	130-7050-02	2	Bracket, Tube – Support	38	850-0114-57	54	Washer, Lock – Steel (M16)
16	130-7051-02	4	Bracket, Tube – Support	39	862-0026-57	24	Nut, Hex (M12)
17	130-7071-02	1	Bracket, Tube – Support	40	862-0026-58	54	Nut, Hex (M16)
18	130-6950-02	1	Bracket, Tube – Support	41	504-0286	2	Valve, Ball – 3-Way (110V)
19	155-4429	1	Clamp, Exhaust (102 OD)				
20	155-4430	1	Clamp, Exhaust (115 OD)				
21	504-0227	2	Valve, Ball – Lockable				
22	504-0273	2	Valve, Ball – 3-Way (220/240V)				
23	505-1597	3	Plug, Pipe				

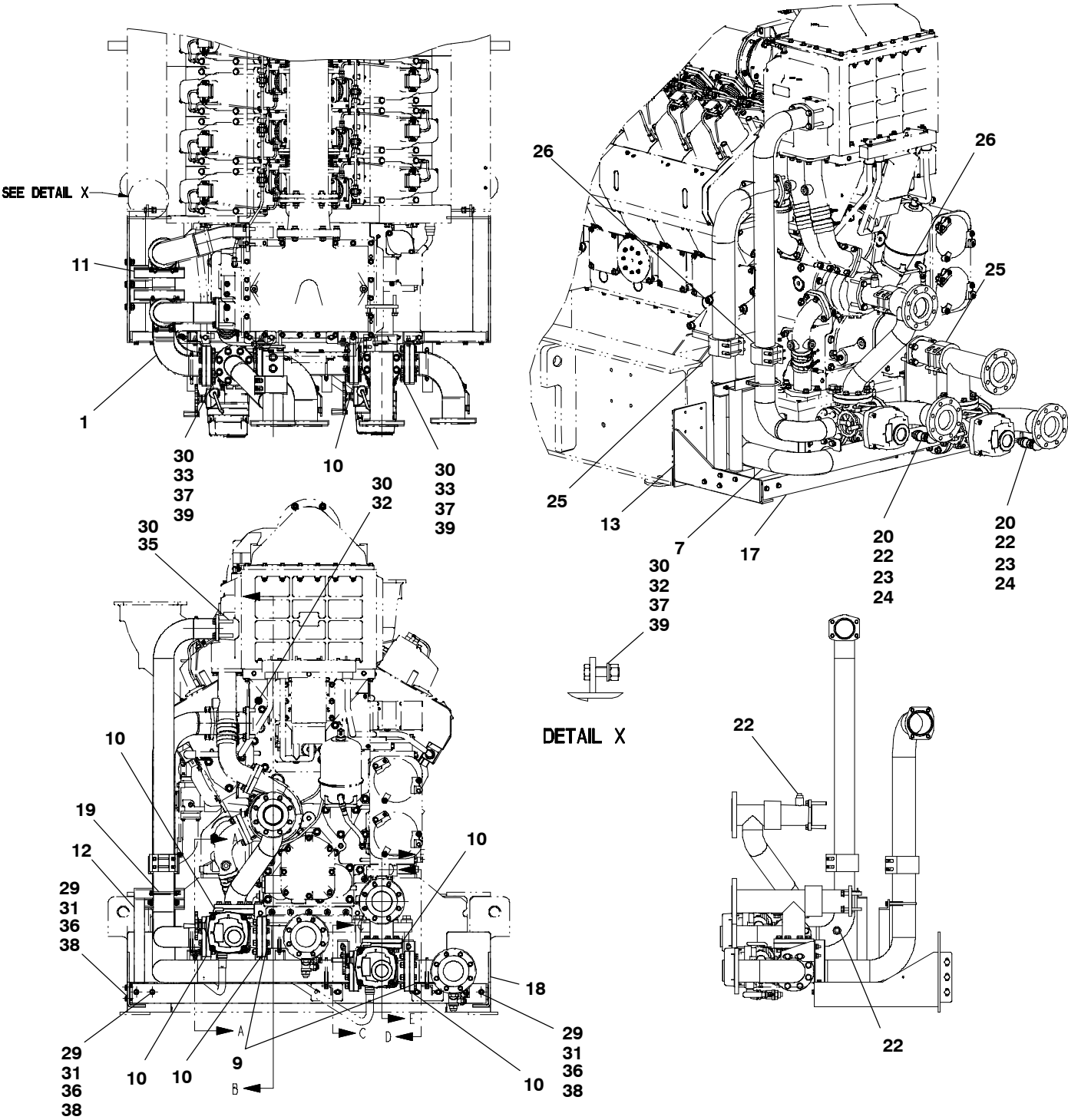
Cooling System BS Flanges GQPC (Illustration #2)



Cooling System BS Flanges GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6335-02	1	Tube, Water – LT Outlet	24	505-2061	2	Adapter, Pipe
2	130-6336-02	1	Tube, Water – LT Inlet	25	505-2079	2	Adapter, Pipe
3	130-6337-02	1	Tube, Water	26	505-2264	2	Coupling, Pipe (4")
4	130-6338-02	1	Tube, Water – HT Inlet	27	505-2265	2	Coupling, Pipe (3.5")
5	130-6339-02	1	Tube, Water – HT Outlet	28	509-0435	2	Seal, O-Ring
6	130-6340-02	1	Tube, Water – LT Outlet	29	509-0436	2	Seal, O-Ring
7	130-6341-02	1	Tube, Water – HT Outlet	30	526-0399-64	47	Washer, Flat – Steel (M12)
8	130-6342-02	1	Tube, Water	31	526-0399-66	118	Washer, Flat – Steel (M16)
9	130-6369-02	2	Tube, Water	32	800-3017-56	24	Screw, Hex Head (M12 x 1.75 x 40)
10	130-6405	6	Gasket, Radiator	33	800-3017-74	10	Screw, Hex Head (M16 x 2.0 x 50)
11	130-6445-02	1	Bracket, Tube – Support	34	800-3017-78	40	Screw, Hex Head (M16 x 2.0 x 70)
12	130-6446-02	1	Bracket, Tube – Support	35	800-3017-81	8	Screw, Hex Head (M16 x 2.0 x 85)
13	130-6949-02	1	Bracket, Tube – Support	36	800-3017-82	12	Screw, Hex Head (M16 x 2.0 x 90)
14	130-7049-02	2	Bracket, Tube – Support	37	850-0114-56	24	Washer, Lock – Steel (M12)
15	130-7050-02	2	Bracket, Tube – Support	38	850-0114-57	54	Washer, Lock – Steel (M16)
16	130-7051-02	4	Bracket, Tube – Support	39	862-0026-57	24	Nut, Hex (M12)
17	130-7071-02	1	Bracket, Tube – Support	40	862-0026-58	54	Nut, Hex (M16)
18	130-6950-02	1	Bracket, Tube – Support	41	504-0286	2	Valve, Ball – 3-Way (110V)
19	155-4429	1	Clamp, Exhaust (102 OD)				
20	155-4430	1	Clamp, Exhaust (115 OD)				
21	504-0227	2	Valve, Ball – Lockable				
22	504-0273	2	Valve, Ball – 3-Way (220/240V)				
23	505-1597	3	Plug, Pipe				

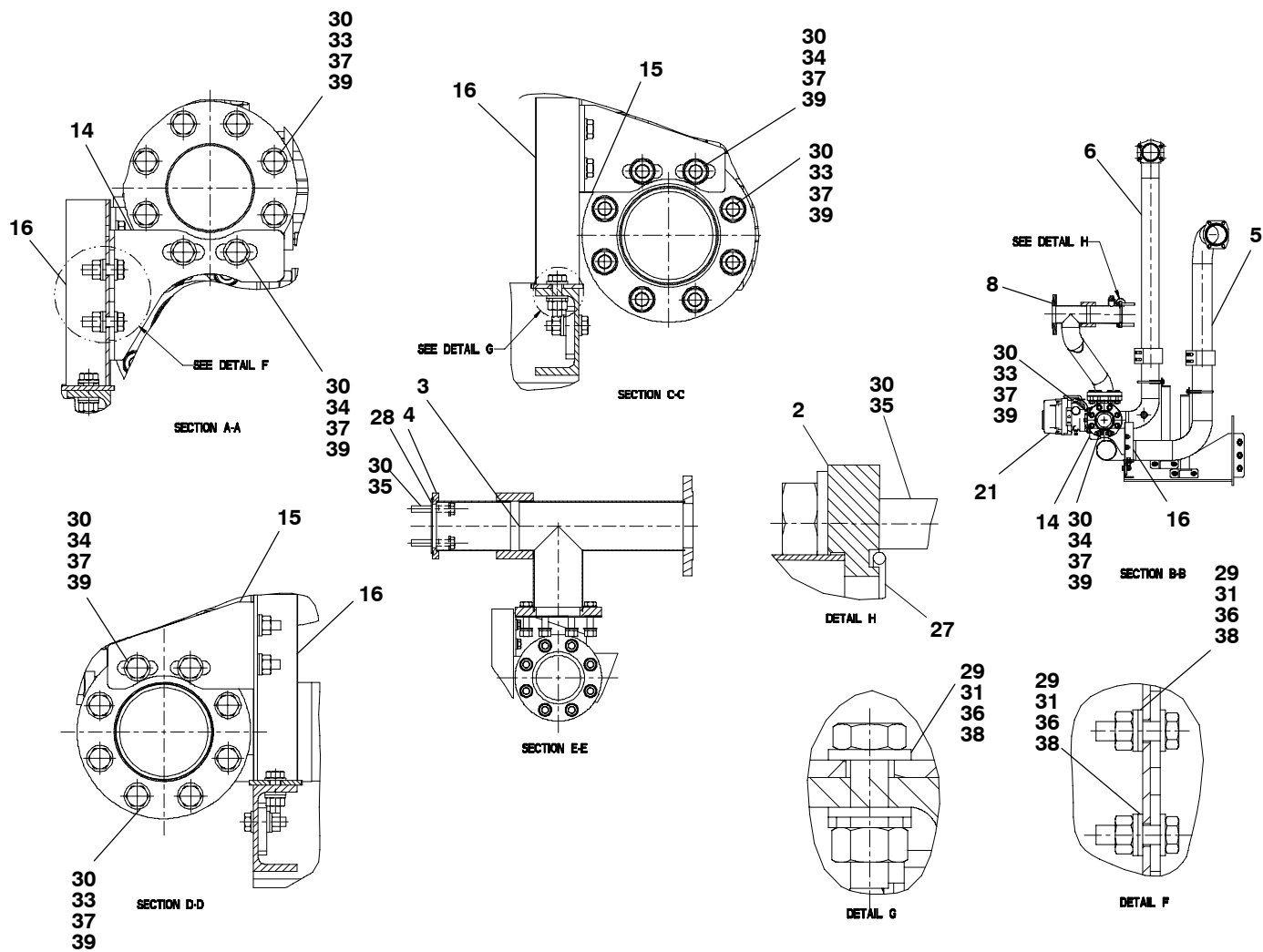
Cooling System BS Flanges GQNC (Illustration #1)



Cooling System BS Flanges GQNC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6335-02	1	Tube, Water – LT Outlet	23	505-2061	2	Adapter, Pipe
2	130-6336-02	1	Tube, Water – LT Inlet	24	505-2079	2	Adapter, Pipe
3	130-6337-02	1	Tube, Water	25	505-2264	2	Coupling, Pipe (4")
4	130-6338-02	1	Tube, Water – HT Inlet	26	505-2265	2	Coupling, Pipe (3.5")
5	130-6339-02	1	Tube, Water – HT Outlet	27	509-0435	2	Seal, O-Ring
6	130-6340-02	1	Tube, Water – LT Outlet	28	509-0436	2	Seal, O-Ring
7	130-6341-02	1	Tube, Water – HT Outlet	29	526-0399-64	48	Washer, Flat – Steel (M12)
8	130-6342-02	1	Tube, Water	30	526-0399-66	118	Washer, Flat – Steel (M16)
9	130-6369-02	2	Tube, Water	31	800-3017-56	24	Screw, Hex Head (M12 x 1.75 x 40)
10	130-6405	6	Gasket, Radiator	32	800-3017-74	10	Screw, Hex Head (M16 x 2.0 x 50)
11	130-6424-02	1	Bracket, Tube – Support	33	800-3017-78	40	Screw, Hex Head (M16 x 2.0 x 70)
12	130-6425-02	1	Bracket, Tube – Support	34	800-3017-81	8	Screw, Hex Head (M16 x 2.0 x 85)
13	130-6949-02	1	Bracket, Tube – Support RH	35	800-3017-82	12	Screw, Hex Head (M16 x 2.0 x 90)
14	130-7049-02	2	Bracket, Tube – Support	36	850-0114-56	24	Washer, Lock – Steel (M12)
15	130-7050-02	2	Bracket, Tube – Support	37	850-0114-57	54	Washer, Lock – Steel (M16)
16	130-7051-02	4	Bracket, Tube – Support	38	862-0026-57	24	Nut, Hex (M12)
17	130-7063-02	1	Bracket, Tube – Support	39	862-0026-58	54	Nut, Hex (M16)
18	130-6950-02	1	Bracket, Tube – Support				
19	155-4430	2	Clamp, Exhaust (115 OD)				
20	504-0227	2	Valve, Ball – Lockable				
21	504-0273	2	Valve, Ball – 3-Way (220/240V)				
22	505-1597	4	Plug, Pipe				

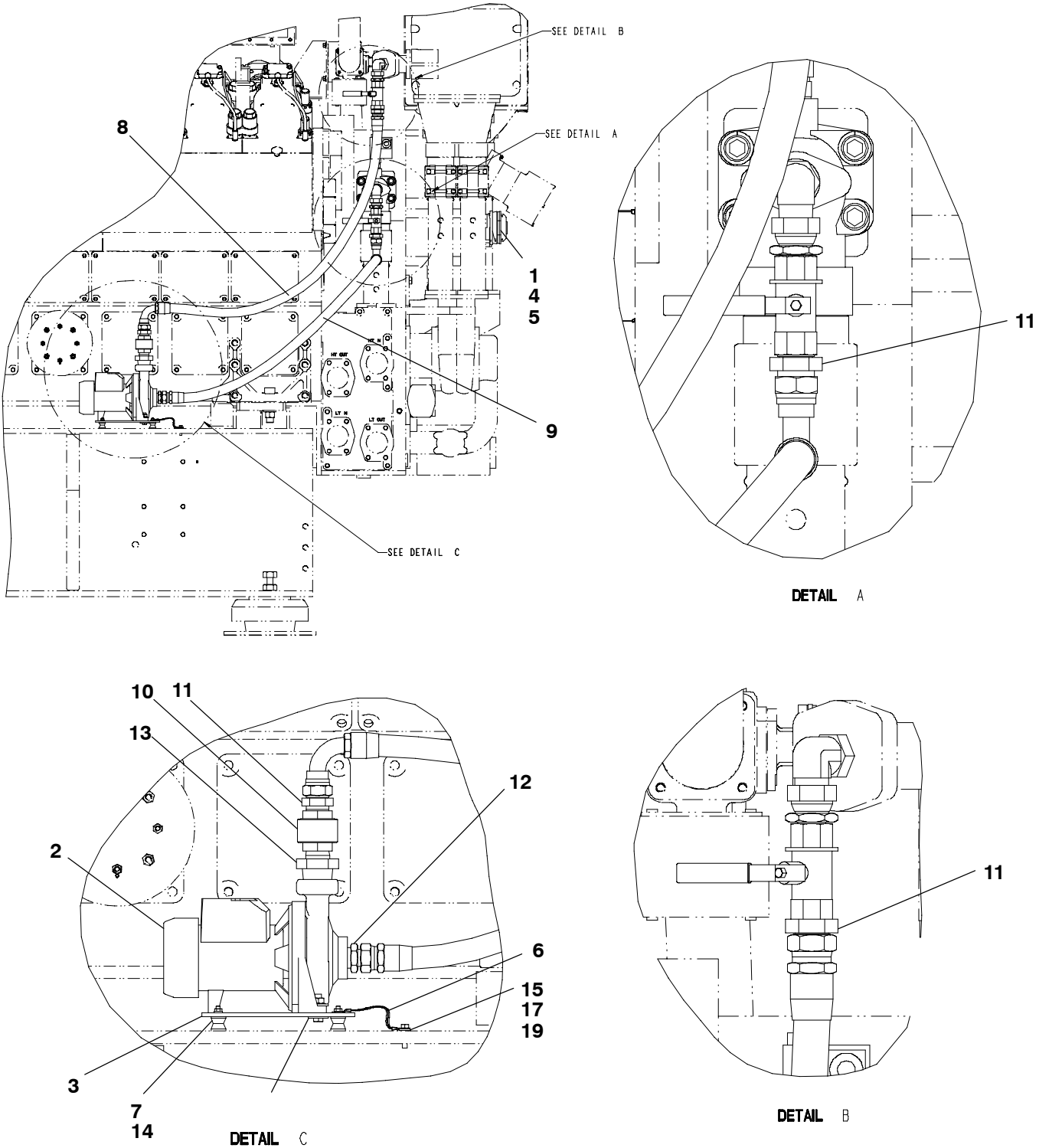
Cooling System BS Flanges GQNC (Illustration #2)



Cooling System BS Flanges GQNC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6335-02	1	Tube, Water – LT Outlet	23	505-2061	2	Adapter, Pipe
2	130-6336-02	1	Tube, Water – LT Inlet	24	505-2079	2	Adapter, Pipe
3	130-6337-02	1	Tube, Water	25	505-2264	2	Coupling, Pipe (4")
4	130-6338-02	1	Tube, Water – HT Inlet	26	505-2265	2	Coupling, Pipe (3.5")
5	130-6339-02	1	Tube, Water – HT Outlet	27	509-0435	2	Seal, O-Ring
6	130-6340-02	1	Tube, Water – LT Outlet	28	509-0436	2	Seal, O-Ring
7	130-6341-02	1	Tube, Water – HT Outlet	29	526-0399-64	48	Washer, Flat – Steel (M12)
8	130-6342-02	1	Tube, Water	30	526-0399-66	118	Washer, Flat – Steel (M16)
9	130-6369-02	2	Tube, Water	31	800-3017-56	24	Screw, Hex Head (M12 x 1.75 x 40)
10	130-6405	6	Gasket, Radiator	32	800-3017-74	10	Screw, Hex Head (M16 x 2.0 x 50)
11	130-6424-02	1	Bracket, Tube – Support	33	800-3017-78	40	Screw, Hex Head (M16 x 2.0 x 70)
12	130-6425-02	1	Bracket, Tube – Support	34	800-3017-81	8	Screw, Hex Head (M16 x 2.0 x 85)
13	130-6949-02	1	Bracket, Tube – Support RH	35	800-3017-82	12	Screw, Hex Head (M16 x 2.0 x 90)
14	130-7049-02	2	Bracket, Tube – Support	36	850-0114-56	24	Washer, Lock – Steel (M12)
15	130-7050-02	2	Bracket, Tube – Support	37	850-0114-57	54	Washer, Lock – Steel (M16)
16	130-7051-02	4	Bracket, Tube – Support	38	862-0026-57	24	Nut, Hex (M12)
17	130-7063-02	1	Bracket, Tube – Support	39	862-0026-58	54	Nut, Hex (M16)
18	130-6950-02	1	Bracket, Tube – Support				
19	155-4430	2	Clamp, Exhaust (115 OD)				
20	504-0227	2	Valve, Ball – Lockable				
21	504-0273	2	Valve, Ball – 3-Way (220/240V)				
22	505-1597	4	Plug, Pipe				

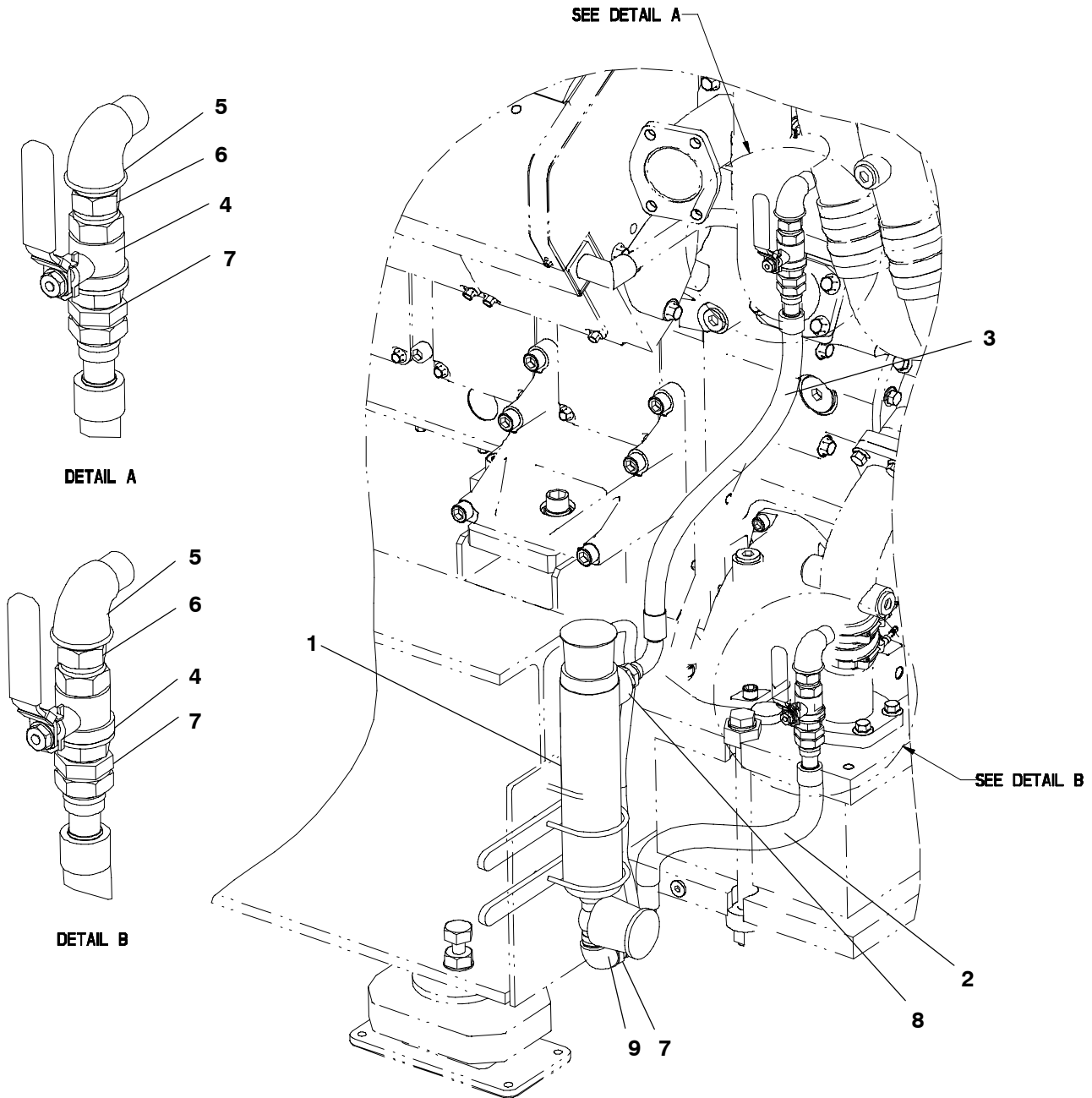
Water Heater **GQMA, GQMB, GQNA, GQNB, GQPB**



Water Heater
GQMA, GQMB, GQNA, GQNB, GQPB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5648	2	Adapter, Water Heater – 480V	12	505-2225-02	1	Adapter, Pipe
2			Pump, Water	13	505-2253-02	1	Adapter, Pipe
	132-0423	1	380-440V	14	526-0399-58	4	Washer, Flat (M6)
	132-0425	1	480V	15	526-0399-60	1	Washer, Flat (M8)
3	132-0424-02	1	Bracket, Water Pump	16	526-0399-63	4	Washer, Flat (M10)
4	249-0859	2	Heater, Coolant – 480V	17	800-3017-21	1	Screw, Hex Head (M8 x 1.25 x 30)
5	331-0624	2	Adapter, Conduit – 480V	18	800-3017-39	2	Screw, Hex Head (M10 x 1.5 x 35)
6	337-3582-06	1	Strap, Ground	19	850-0114-54	1	Washer, Lock – Spring (M8)
7	403-4911	4	Pad, Mounting	20	850-0114-55	2	Washer, Lock – Spring (M10)
8	501-0766	1	Hose Assembly	21	826-0026-56	2	Nut, Hex (M10)
9	501-0767	1	Hose Assembly				
10	504-0261	1	Valve, Check				
11	505-2085	3	Adapter, Pipe				

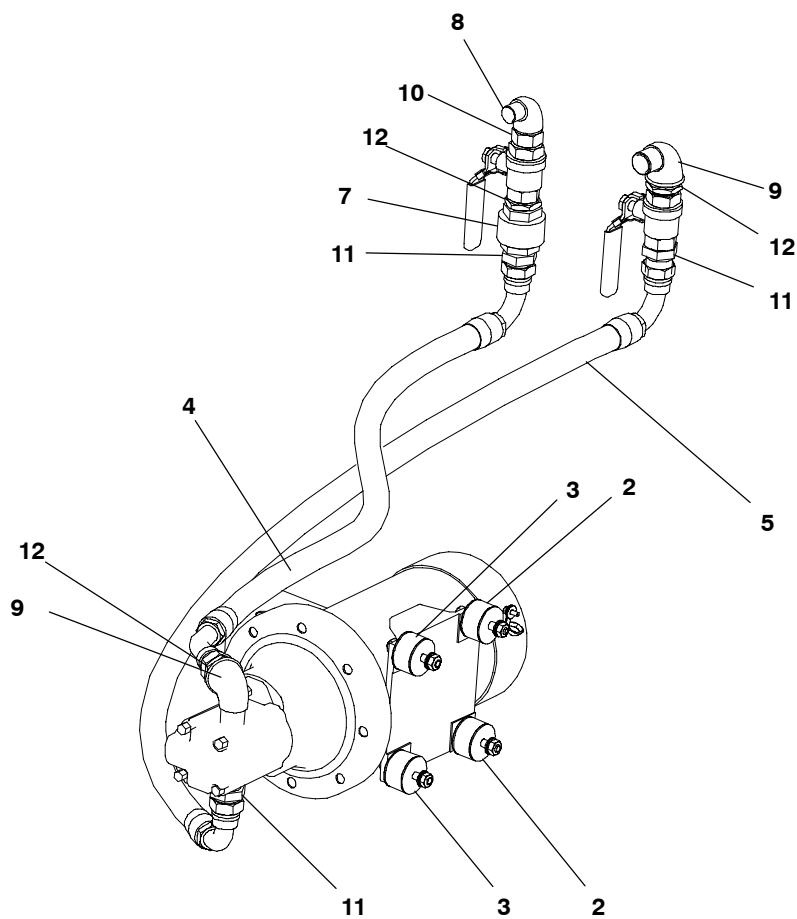
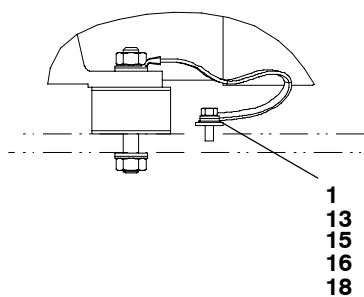
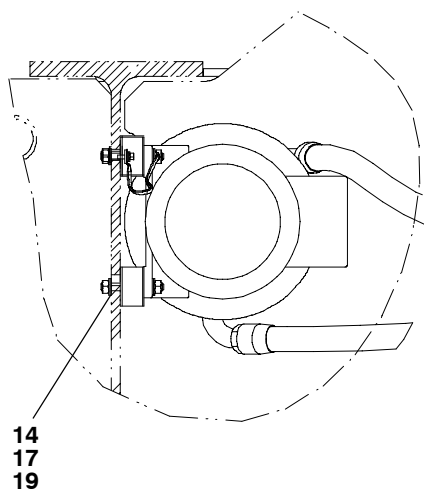
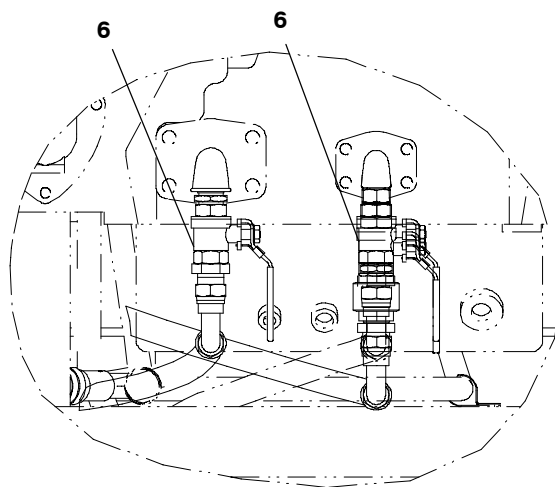
Water Heater GQNC, GQPC



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0728	1	Heater, Water	6	505-2068	2	Adapter, Pipe
2	501-0760	1	Hose	7	505-2085	3	Adapter, Pipe
3	501-0914	1	Hose	8	505-2181	1	Adapter, Pipe
4	504-0227	2	Valve, Ball	9	505-2303	1	Elbow, Pipe (1") - 90°
5	505-2061	2	Adapter, Pipe				

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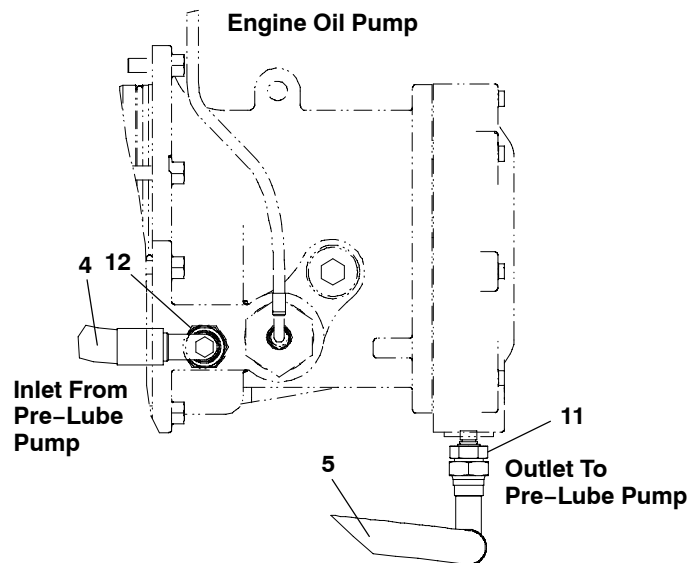
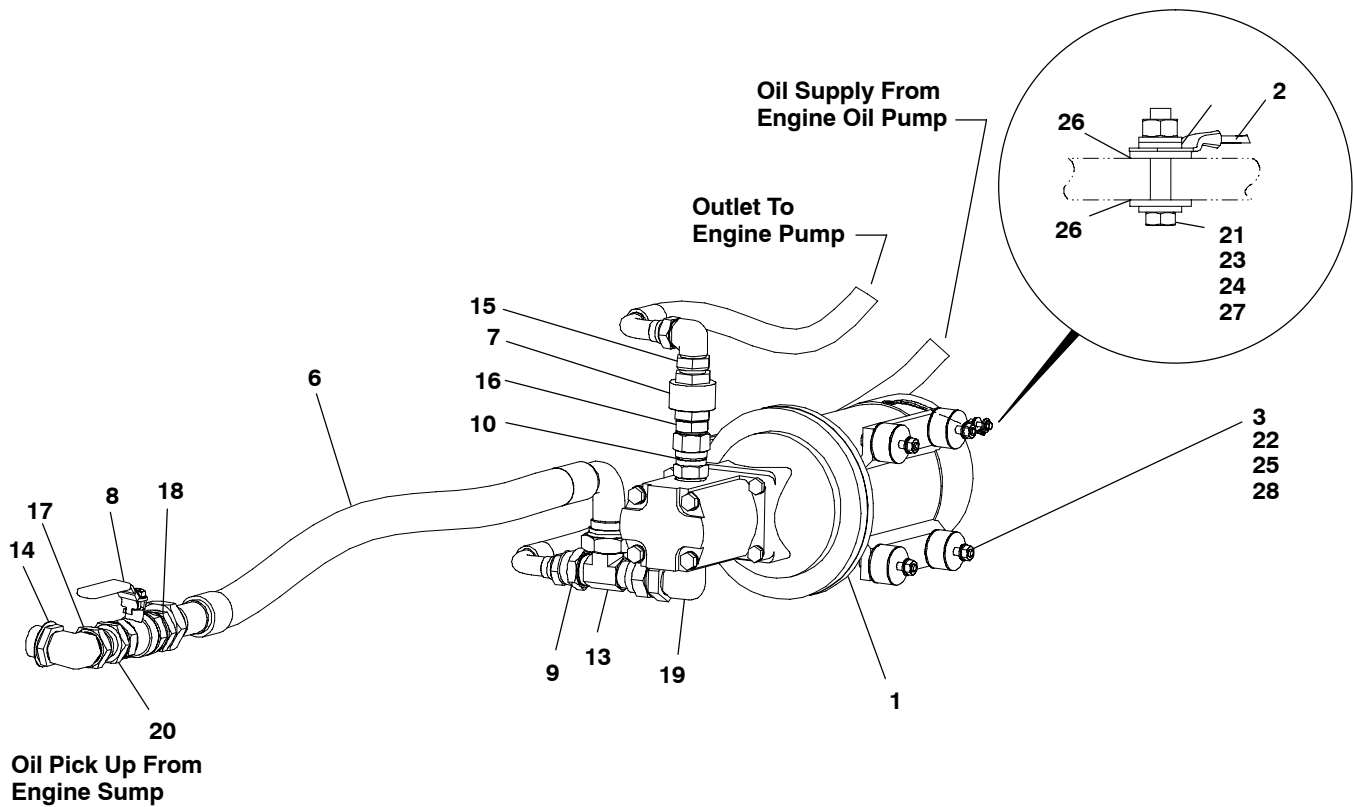
Oil System Oil Priming GQMA, GQMB, GQNA, GQNB, GQPB



**Oil System
Oil Priming
GQMA, GQMB, GQNA, GQNB, GQPB**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-3582-06	1	Strap, Ground	11	505-2085	3	Adapter, Pipe (1" x 1")
2	403-4909	2	Pad, Mounting	12	505-2103	3	Nipple, Pipe
3	403-4910	2	Pad, Mounting	13	526-0399-58	2	Washer, Flat (M6)
4	501-0937	1	Hose	14	526-0399-62	8	Washer, Flat (M10)
5	501-0938	1	Hose	15	800-3017-03	2	Screw, Hex Head (M6 x 1.0 x 16)
6	504-0227	2	Valve, Ball	16	850-0114-53	2	Washer, Lock (M6)
7	504-0261	1	Valve, Check	17	850-0114-55	8	Washer, Lock (M10)
8	505-1574	1	Elbow, Pipe (3/4") - 90°	18	856-0023	1	Washer, Lock - W/EIT
9	505-2061	2	Elbow, Pipe (1") - 90°	19	862-0026-56	8	Nut, Hex (M10)
10	505-2077	1	Adapter, Pipe (1" x 3/4")				

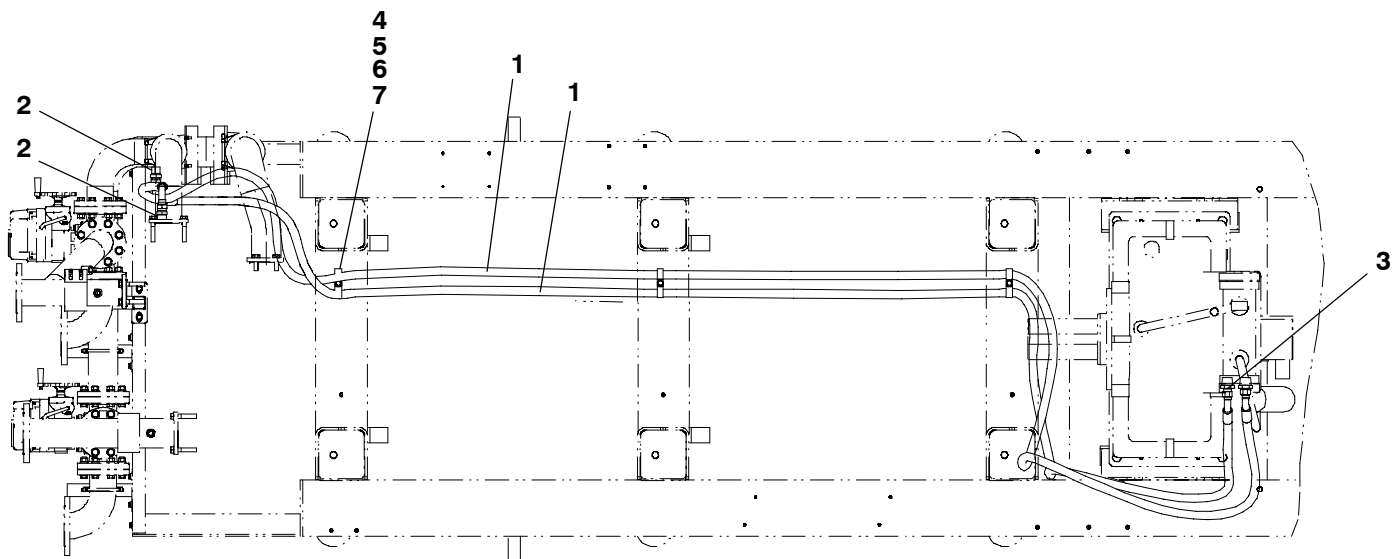
Oil System Oil Priming GQNC, GQPC



**Oil System
Oil Priming
GQNC, GQPC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	120-1357	1	Pump, Oil (Includes the Next Four Indented Items)	13	505-2284	1	Tee, Pipe
	120-1371	1	Pump, Oil (Gear Pump)	14	505-2286	1	Elbow, Pipe
	120-1372	1	Pump, Oil (Bell Housing)	15	505-2287	1	Elbow, Pipe
	120-1373	1	Pump, Oil (Coupling Set)	16	505-2288	1	Adapter, Pipe
	120-1374	1	Pump, Oil (Electric Motor)	17	505-2305	1	Adapter, Pipe
2	337-3582-02	1	Strap, Ground	18	505-2306	1	Adapter, Pipe
3	403-4909	4	Pad, Mounting	19	505-2320	1	Elbow, Pipe
4	501-0894	1	Hose	20	509-0438	2	Seal, Oil
5	501-0896	1	Hose	21	526-0399-58	2	Washer, Flat (M6)
6	501-0902	1	Hose	22	526-0399-62	8	Washer, Flat (M10)
7	504-0261	1	Valve, Check	23	800-3017-06	1	Screw, Hex Head (M6 x 1.0 x 30)
8	504-0285	1	Valve, Ball (1-1/4")	24	850-0114-53	1	Washer, Lock (M6)
9	505-2280	1	Adapter, Pipe	25	850-0114-55	4	Washer, Lock (M10)
10	505-2281	1	Adapter, Pipe	26	856-0023	2	Washer, Lock - W/EIT
11	505-2282	1	Adapter, Pipe	27	862-0026-54	1	Nut, Hex (M6)
12	505-2283	1	Adapter, Pipe	28	862-0026-56	1	Nut, Hex (M10)

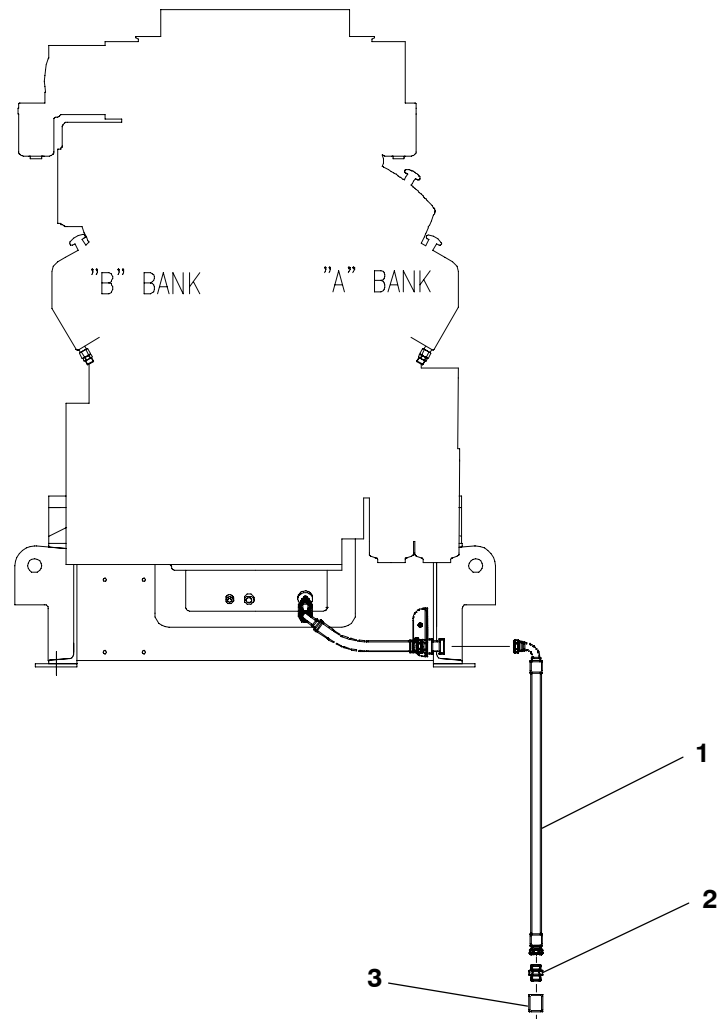
Oil Cooler GQPC



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0903	2	Hose Assembly
2	505-2085	2	Adapter, Pipe
3	505-2145	2	Adapter, Pipe
4	518-0548-43	6	Clamp, Hose

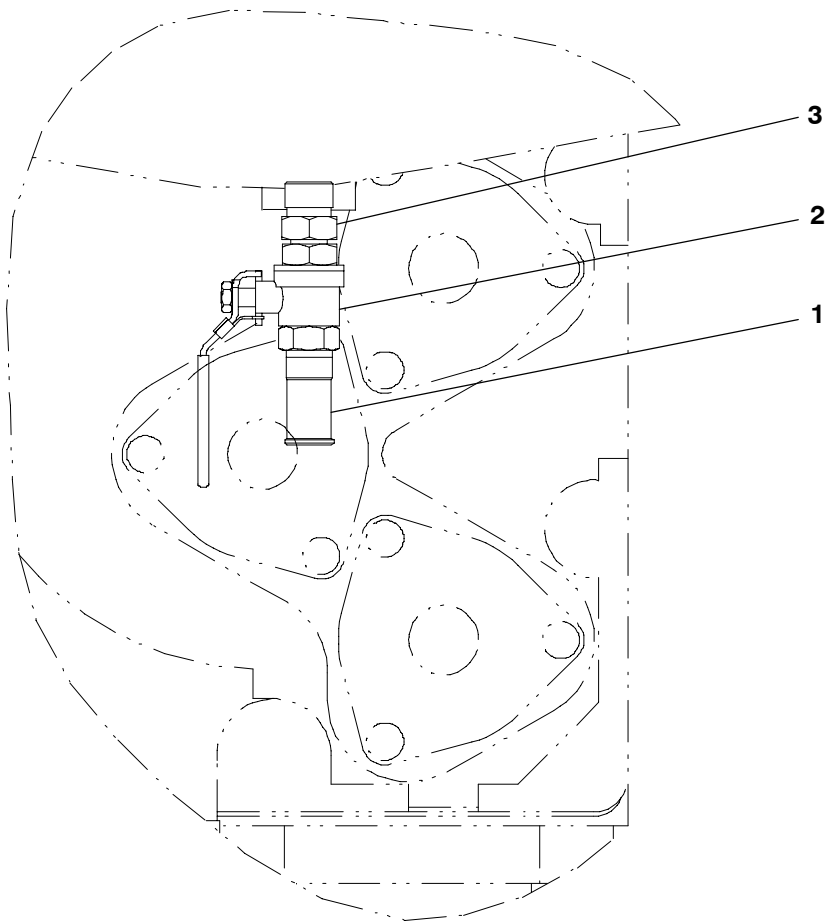
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	526-0399-64	3	Washer, Flat (M12)
6	800-3017-54	3	Screw, Hex Head (M12 x 1.75 x 30)
7	850-0114-56	3	Washer, Lock (M12)

Oil Drain Connections



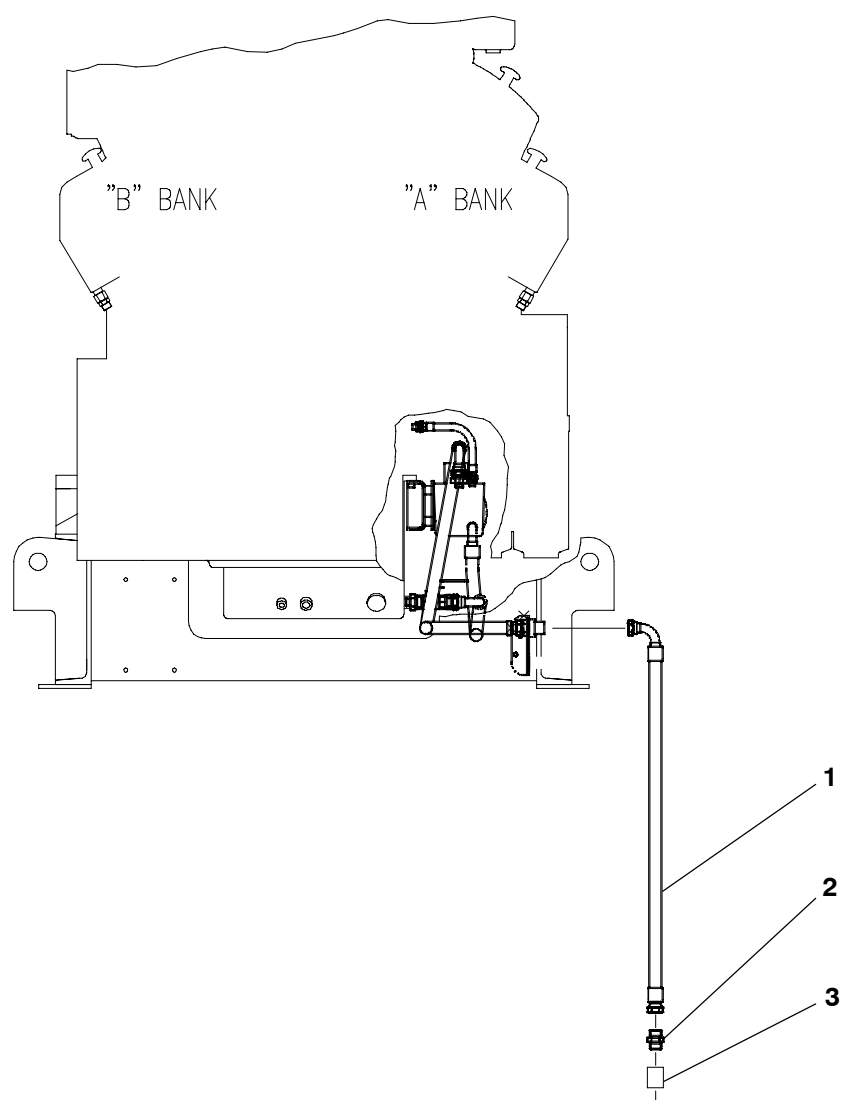
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0769	1	Hose Assembly	3	502-1442	1	Adapter, Hose
2	505-2085	1	Adapter, Pipe				

Oil Drain
GQMA, GQMB, GQNA, GQNB, GQPB



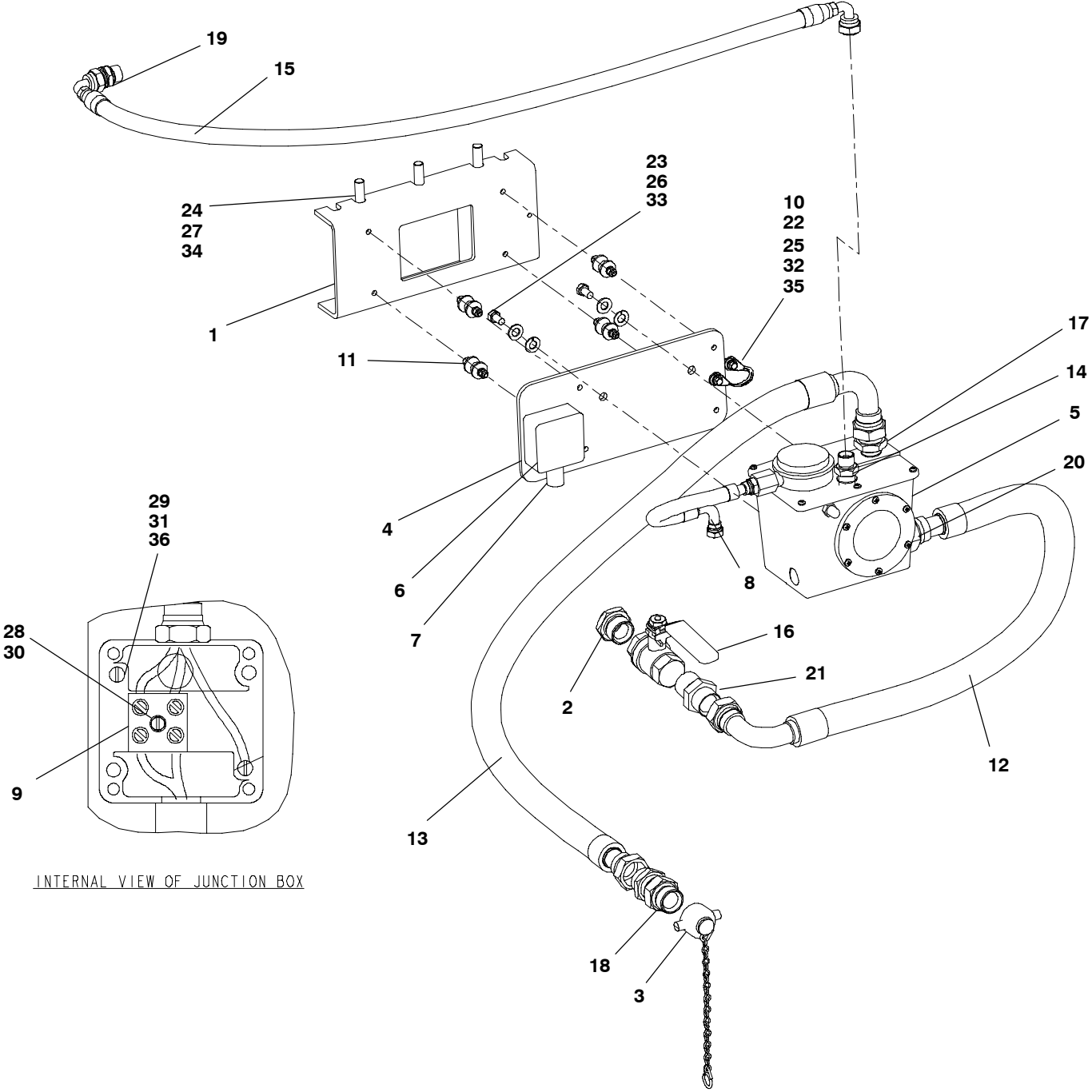
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1475	1	Adapter, Hose (1/2")	3	505-2074	1	Adapter, Pipe
2	504-0247	1	Valve, Ball (1/2")				

Oil Fill Connections



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0769	1	Hose Assembly	3	502-1442	1	Adapter, Hose
2	505-2085	1	Adapter, Pipe				

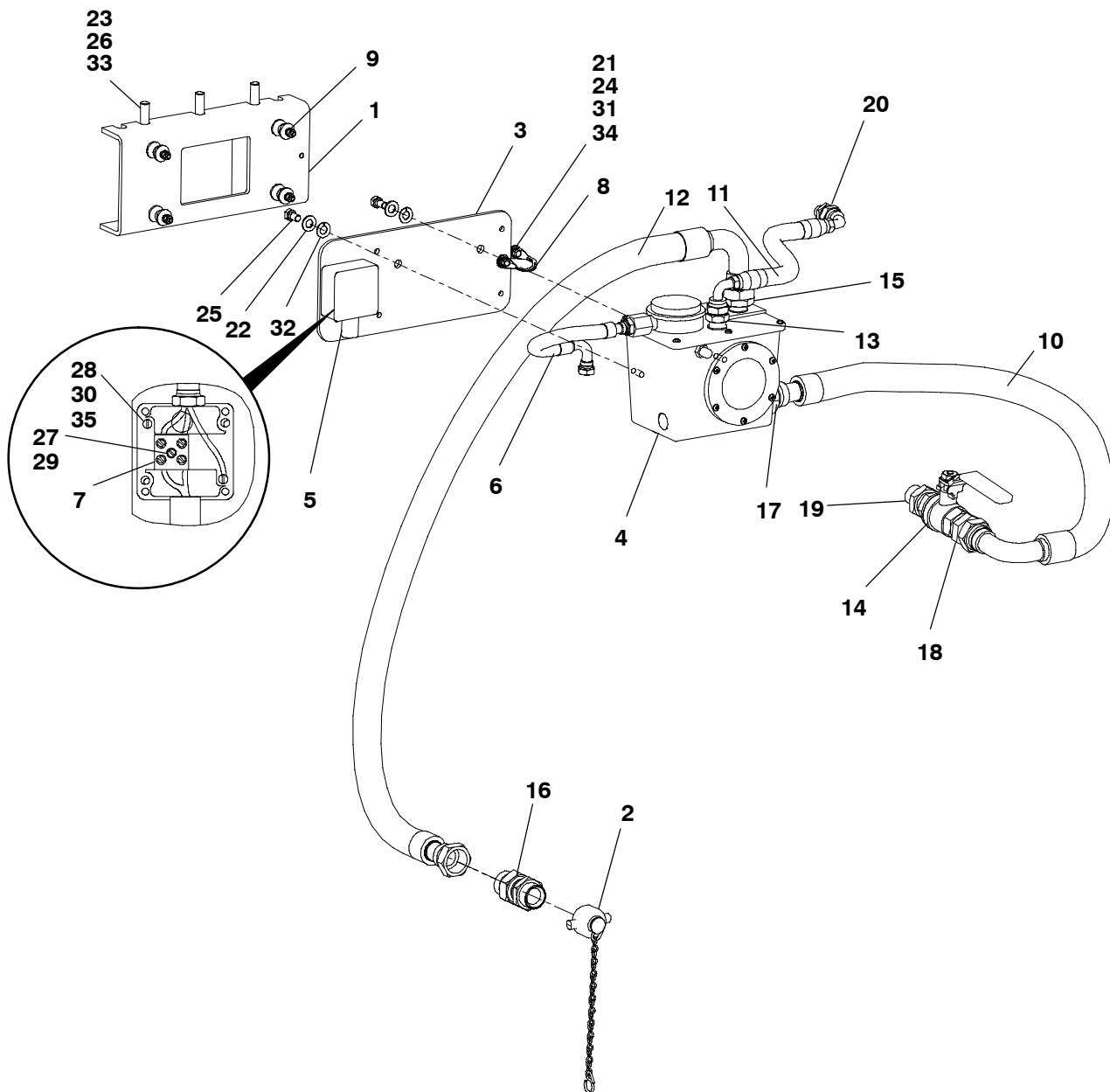
Oil System Oil Make-Up GQMA, GQMB, GQNA, GQNB, GQPB



**Oil System
Oil Make-Up
GQMA, GQMB, GQNA, GQNB, GQPB**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	120-1359-02	1	Bracket, Oil Line	21	505-2085	1	Adapter, Pipe (1" x 1")
2	123-2197	1	Adapter, Oil Fill	22	526-0399-58	2	Washer, Flat (M6) (Not Shown)
3	123-2198	1	Cap, Oil Drain Connection	23	526-0399-62	2	Washer, Flat (M10)
4	305-1029-02	1	Bracket, Regulator	24	526-0399-64	3	Washer, Flat (M12)
5	309-0679	1	Switch, Level	25	800-3017-03	2	Screw, Hex Head (M6 x 1.0 x 16)
6	330-0159	1	Box, Junction	26	800-3017-35	2	Screw, Hex Head (M10 x 1.5 x 16)
7	331-0614	1	Adapter, Conduit	27	802-2535-05	3	Screw, Cap – Socket Head (M12 x 40)
8	331-0617	1	Conduit	28	815-1540-08	1	Screw, Slotted Head (M3 x 20)
9	332-3023	1	Block, Terminal	29	815-1540-21	2	Screw, Slotted Head (M4 x 20)
10	337-3582-06	1	Strap, Ground	30	850-0114-50	1	Washer, Lock – Spring (M3)
11	403-4911	4	Pad, Mounting	31	850-0114-51	2	Washer, Lock – Spring (M4)
12	501-0760	1	Hose	32	850-0114-53	2	Washer, Lock – Spring (M6)
13	501-0952	1	Hose	33	850-0114-55	2	Washer, Lock – Spring (M10)
14	502-1441	1	Adapter, Pipe (1/2" x 1/2")	34	850-0114-56	3	Washer, Lock – Spring (M12)
15	503-2413	1	Hose	35	856-0023	2	Washer, Lock – W/EIT
16	504-0227	1	Valve, Ball	36	862-0026-52	2	Nut, Hex (M4 x 0.7)
17	505-2048	1	Adapter, Pipe (1/2" x 1")				
18	505-2070	1	Adapter, Pipe (1")				
19	505-2071	1	Adapter, Pipe (1/2" x 1/2")				
20	505-2083	1	Adapter, Pipe (3/4" x 1")				

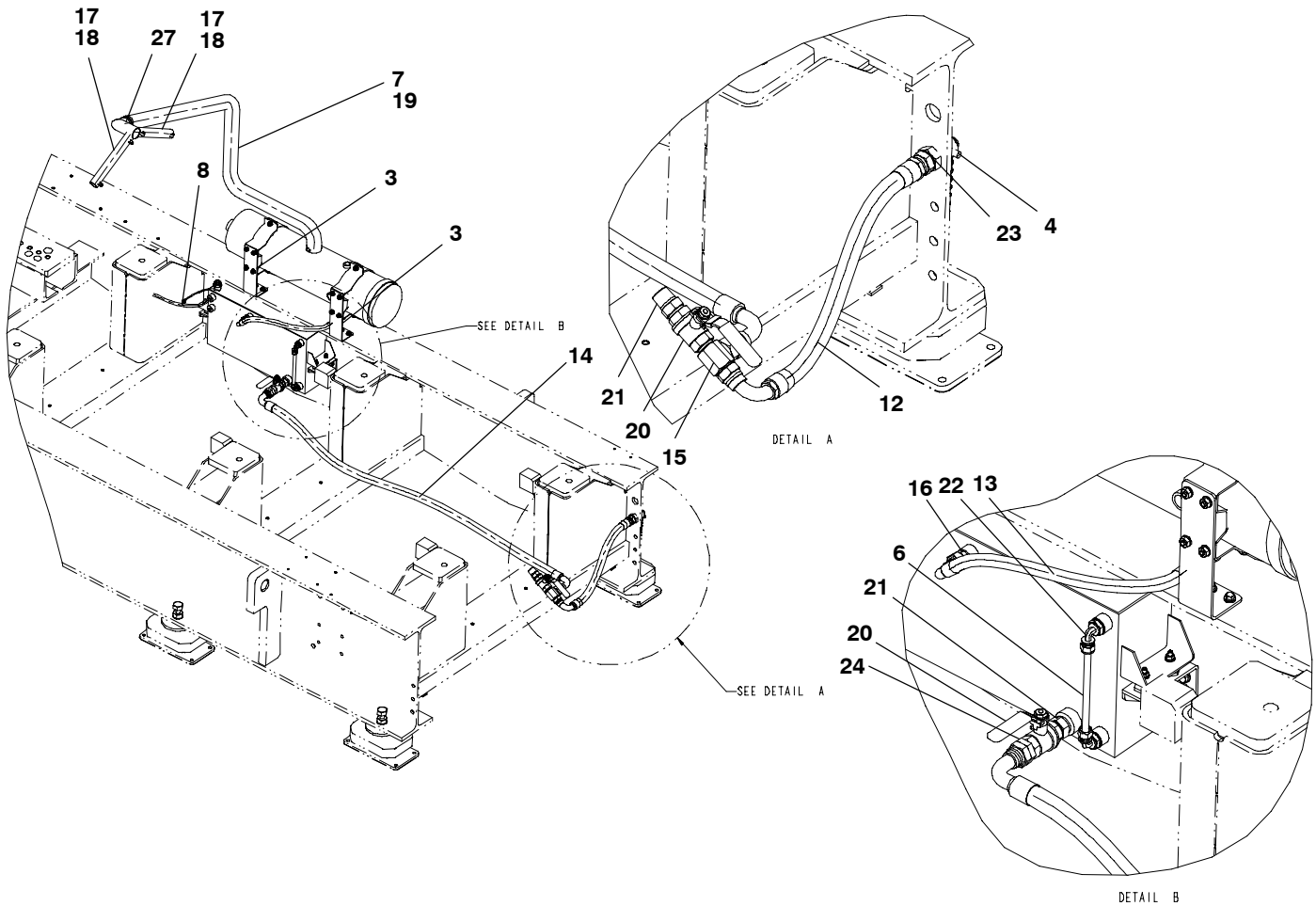
Oil System Oil Make-Up GQNC, GQPC



**Oil System
Oil Make-Up
GQNC, GQPC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	120-1359-02	1	Bracket, Oil Line	20	505-2307	1	Adapter, Pipe
2	123-2198	1	Cap, Oil Drain Connection	21	526-0399-58	2	Washer, Flat (M6) (Not Shown)
3	305-1029-02	1	Bracket, Regulator	22	526-0399-62	2	Washer, Flat (M10)
4	309-0679	1	Switch, Level	23	526-0399-64	3	Washer, Flat (M12)
5	331-0614	1	Adapter, Conduit	24	800-3017-03	2	Screw, Hex Head (M6 x 1.0 x 16)
6	331-0617	1	Conduit	25	800-3017-35	2	Screw, Hex Head (M10 x 1.5 x 16)
7	332-3023	1	Block, Terminal	26	802-2535-05	3	Screw, Cap – Socket Head (M12 x 40)
8	337-3582-06	1	Strap, Ground	27	815-1540-08	1	Screw, Slotted Head (M3 x 20)
9	403-4911	4	Pad, Mounting	28	815-1540-21	2	Screw, Slotted Head (M4 x 20)
10	501-0760	1	Hose	29	850-0114-50	1	Washer, Lock – Spring (M3)
11	501-0773	1	Hose	30	850-0114-51	2	Washer, Lock – Spring (M4)
12	501-0917	1	Hose	31	850-0114-53	2	Washer, Lock – Spring (M6)
13	502-1441	1	Adapter, Pipe (1/2" x 1/2")	32	850-0114-55	2	Washer, Lock – Spring (M10)
14	504-0227	1	Valve, Ball	33	850-0114-56	3	Washer, Lock – Spring (M12)
15	505-2048	1	Adapter, Pipe (1/2" x 1")	34	856-0023	2	Washer, Lock – W/EIT
16	505-2070	1	Adapter, Pipe (1")	35	862-0026-52	2	Nut, Hex (M4 x 0.7)
17	505-2083	1	Adapter, Pipe (3/4" x 1")				
18	505-2085	1	Adapter, Pipe (1" x 1")				
19	505-2167-02	1	Adapter, Pipe (1" x 1")				

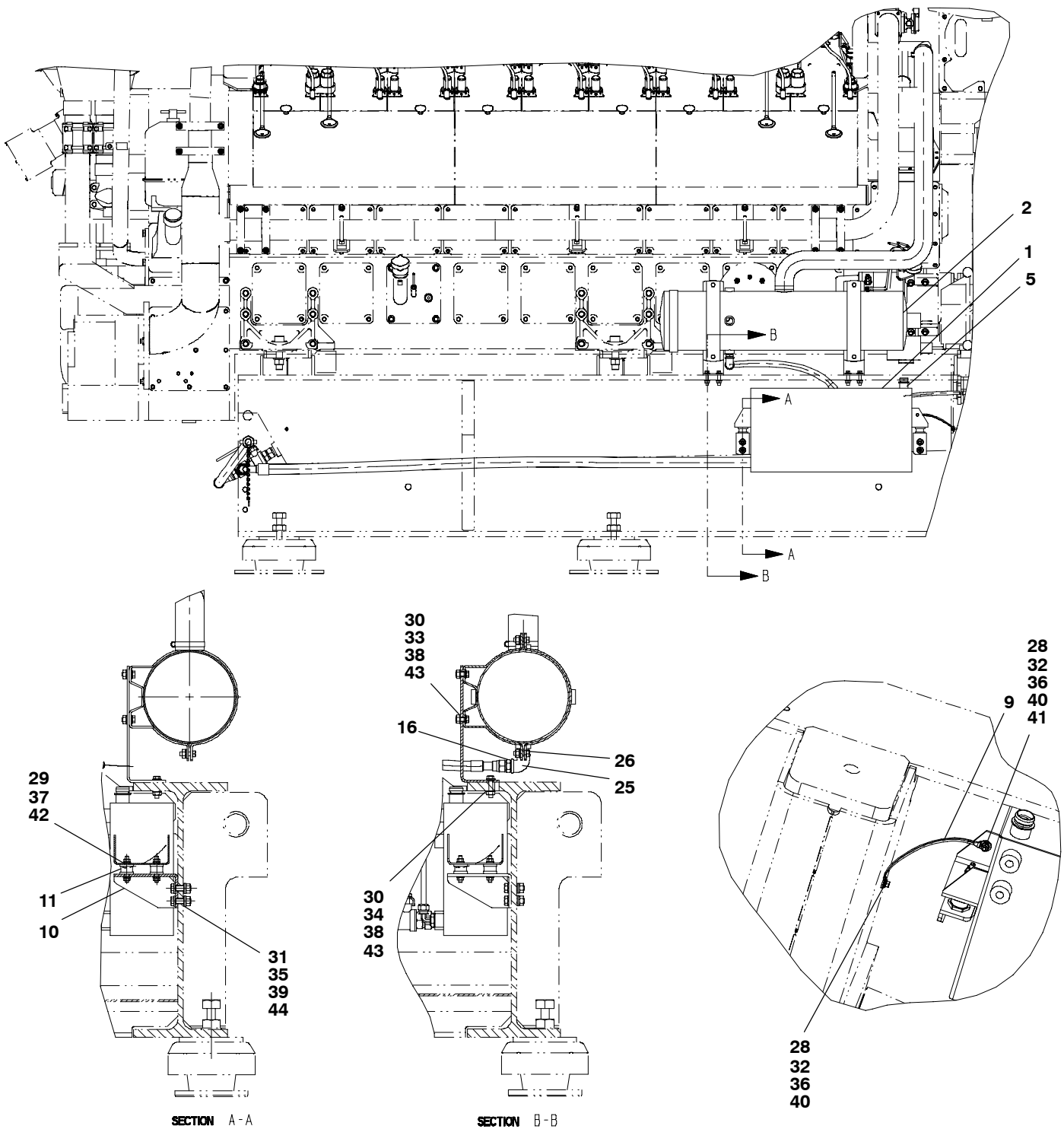
**Oil System
Dirty Oil
GQMA, GQNA, GQNB
(Illustration #1)**



**Oil System
Dirty Oil
GQMA, GQNA, GQNB**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1507-02	1	Tank, Oil Dirty Oil	25	505-2141	1	Elbow – 90°
2	122-0862-01	1	Filter, Oil	26	505-2317	1	Adapter, Pipe
3	122-0898-02	2	Spacer, Oil Filter	27	505-2347-02	1	Tee, Pipe
4	123-2198	1	Cap, Oil Drain Connection	28	526-0399-58	2	Washer, Flat (M6)
5	123-2204	1	Adapter, Breather	29	526-0399-60	8	Washer, Flat (M8)
6	123-2205	1	Tube, Oil Indicator	30	526-0399-62	24	Washer, Flat (M10)
7	123-2318	1	Tube, Breather	31	526-0399-64	8	Washer, Flat (M12)
8	193-0566	1	Sensor, Level	32	800-3017-03	2	Screw, Hex Head (M6 x 1.0 x 16)
9	337-3582-06	1	Strap, Ground	33	800-3017-37	8	Screw, Hex Head (M10 x 1.5 x 25)
10	403-4913-02	2	Bracket, Tank	34	800-3017-41	4	Screw, Hex Head (M10 x 1.5 x 45)
11	403-4911	4	Pad, Mounting	35	800-3017-56	4	Screw, Hex Head (M12 x 1.75 x 40)
12	501-0760	1	Hose	36	850-0114-53	2	Washer, Lock – Spring (M6)
13	501-0941	1	Hose	37	850-0114-54	8	Washer, Lock – Spring (M8)
14	501-0942	1	Hose	38	850-0114-55	12	Washer, Lock – Spring (M10)
15	502-1433	1	Tee, Hose	39	850-0114-56	4	Washer, Lock – Spring (M12)
16	502-1441	2	Adapter, Hose	40	856-0023	2	Washer, Lock – W/EIT
17	503-2359	2	Hose, Radiator	41	862-0026-54	1	Nut, Hex (M6)
18	503-2372	4	Clamp, Hose	42	862-0026-55	8	Nut, Hex (M8)
19	503-2373	2	Clamp, Hose	43	862-0026-56	12	Nut, Hex (M10)
20	504-0227	2	Valve, Ball	44	862-0026-57	4	Nut, Hex (M12)
21	505-2068	2	Adapter, Pipe				
22	505-2069	2	Elbow, Pipe				
23	505-2070	1	Adapter, Pipe (1")				
24	505-2085	1	Adapter, Pipe (1" x 1")				

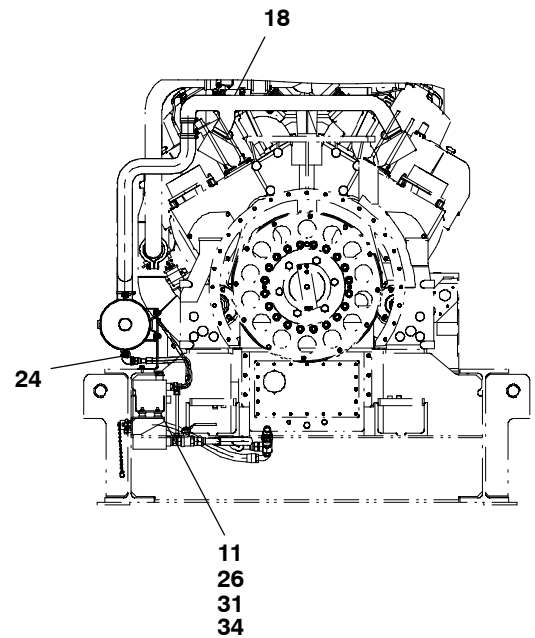
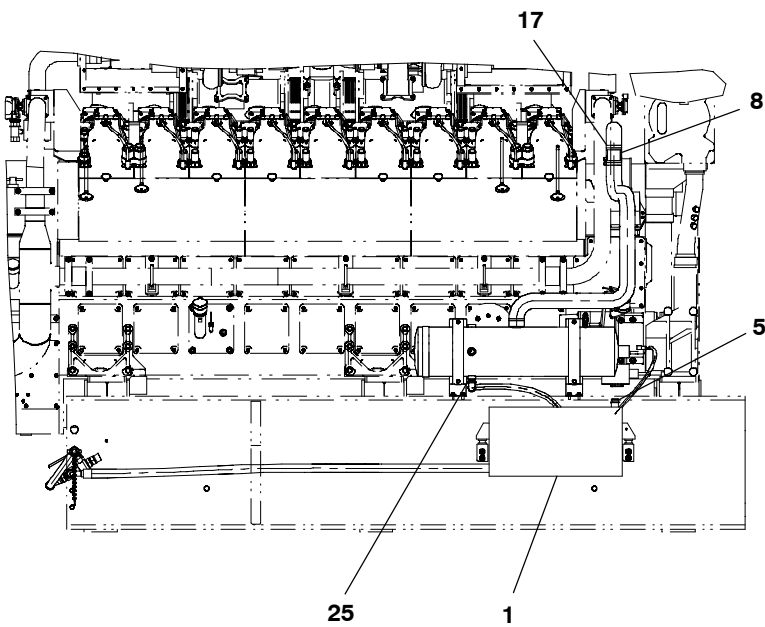
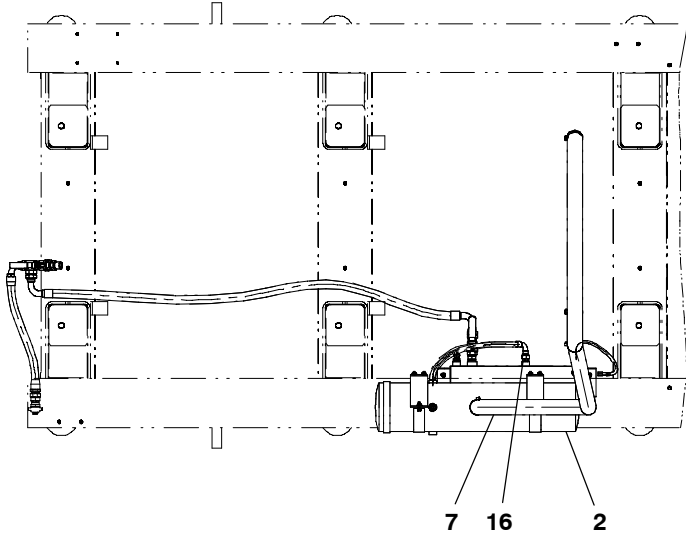
**Oil System
Dirty Oil
GQMA, GQNA, GQNB
(Illustration #2)**



**Oil System
Dirty Oil
GQMA, GQNA, GQNB**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1507-02	1	Tank, Oil – Dirty Oil	25	505-2141	1	Elbow – 90°
2	122-0862-01	1	Filter, Oil	26	505-2317	1	Adapter, Pipe
3	122-0899-02	2	Bracket, Oil Filter	27	505-2347-02	1	Tee, Pipe
4	123-2198	1	Cap, Oil Fill	28	526-0399-58	2	Washer, Flat – Steel (M6)
5	123-2204	1	Adapter, Breather	29	526-0399-60	8	Washer, Flat – Steel (M8)
6	123-2205	1	Tube, Oil Indicator	30	526-0399-62	24	Washer, Flat – Steel (M10)
7	123-2318	1	Tube, Breather	31	526-0399-64	8	Washer, Flat – Steel (M12)
8	193-0566	1	Sensor, Level	32	800-3017-03	2	Screw, Hex Head (M6 x 1.0 x 16)
9	337-3582-02	1	Strap, Ground	33	800-3017-37	8	Screw, Hex Head (M10 x 1.5 x 25)
10	403-4913-02	2	Bracket, Tank	34	800-3017-41	4	Screw, Hex Head (M10 x 1.5 x 45)
11	403-4916	4	Pad, Mounting	35	800-3017-56	4	Screw, Hex Head (M12 x 1.75 x 40)
12	501-0760	1	Hose	36	850-0114-53	2	Washer, Lock – Steel (M6)
13	501-0941	1	Hose	37	850-0114-54	8	Washer, Lock – Steel (M8)
14	501-0942	1	Hose	38	850-0114-55	12	Washer, Lock – Steel (M10)
15	502-1433	1	Tee, Hose	39	850-0114-56	4	Washer, Lock – Steel (M12)
16	502-1441	2	Adapter, Hose	40	856-0023	2	Washer, Lock – W/EIT
17	503-2359	2	Hose, Radiator	41	862-0026-54	1	Nut, Hex (M6)
18	503-2372	4	Clamp, Hose	42	862-0026-55	8	Nut, Hex (M8)
19	503-2373	2	Clamp, Hose	43	862-0026-56	12	Nut, Hex (M10)
20	504-0227	2	Valve, Ball	44	862-0026-57	4	Nut, Hex (M12)
21	505-2068	2	Adapter, Pipe				
22	505-2069	2	Elbow, Pipe				
23	505-2070	1	Adapter, Pipe				
24	505-2085	1	Adapter, Pipe				

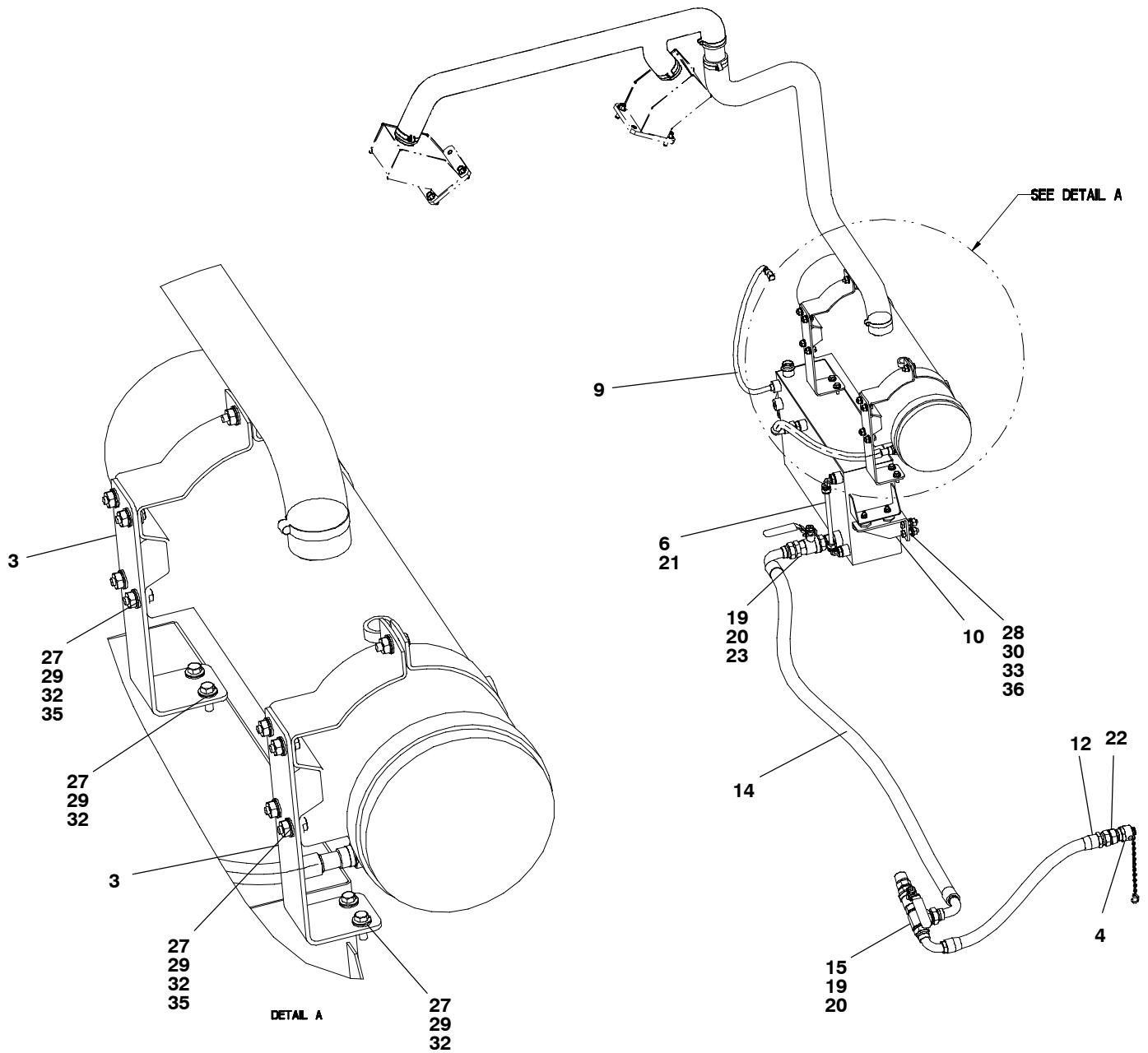
**Oil System
Dirty Oil
GQMB, GQNA, GQNB
(Illustration #1)**



**Oil System
Dirty Oil
GQMB, GQNA, GQNB**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1507-02	1	Tank, Oil Dirty Oil	20	505-2068	2	Adapter, Pipe
2	122-0862-01	1	Filter, Oil	21	505-2069	2	Elbow, Pipe
3	122-0899-02	2	Bracket, Oil Filter	22	505-2070	1	Adapter, Pipe (1")
4	123-2198	1	Cap, Oil Drain Connection	23	505-2085	1	Adapter, Pipe (1" x 1")
5	123-2204	1	Adapter, Breather	24	505-2141	1	Elbow - 90°
6	123-2205	1	Tube, Oil Indicator	25	505-2317	1	Adapter, Pipe
7	123-2314	1	Tube, Breather	26	526-0399-60	8	Washer, Flat (M8)
8	123-2315-02	1	Tube, Breather	27	526-0399-62	20	Washer, Flat (M10)
9	193-0566	1	Sensor, Level	28	526-0399-64	4	Washer, Flat (M12)
10	403-4913-02	2	Bracket, Tank	29	800-3017-37	12	Screw, Hex Head (M10 x 1.5 x 25)
11	403-4916	4	Pad, Mounting	30	800-3017-56	4	Screw, Hex Head (M12 x 1.75 x 40)
12	501-0760	1	Hose	31	850-0114-54	8	Washer, Lock - Spring (M8)
13	501-0941	1	Hose	32	850-0114-55	12	Washer, Lock - Spring (M10)
14	501-0942	1	Hose	33	850-0114-56	4	Washer, Lock - Spring (M12)
15	502-1433	1	Tee, Hose	34	862-0026-55	8	Nut, Hex (M8)
16	502-1441	2	Adapter, Hose	35	862-0026-56	8	Nut, Hex (M10)
17	503-2373	5	Clamp, Hose	36	862-0026-57	4	Nut, Hex (M12)
18	503-2601	1	Hose, Breather				
19	504-0227	2	Valve, Ball				

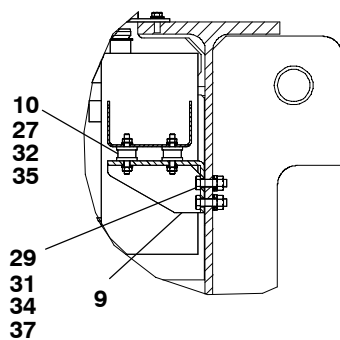
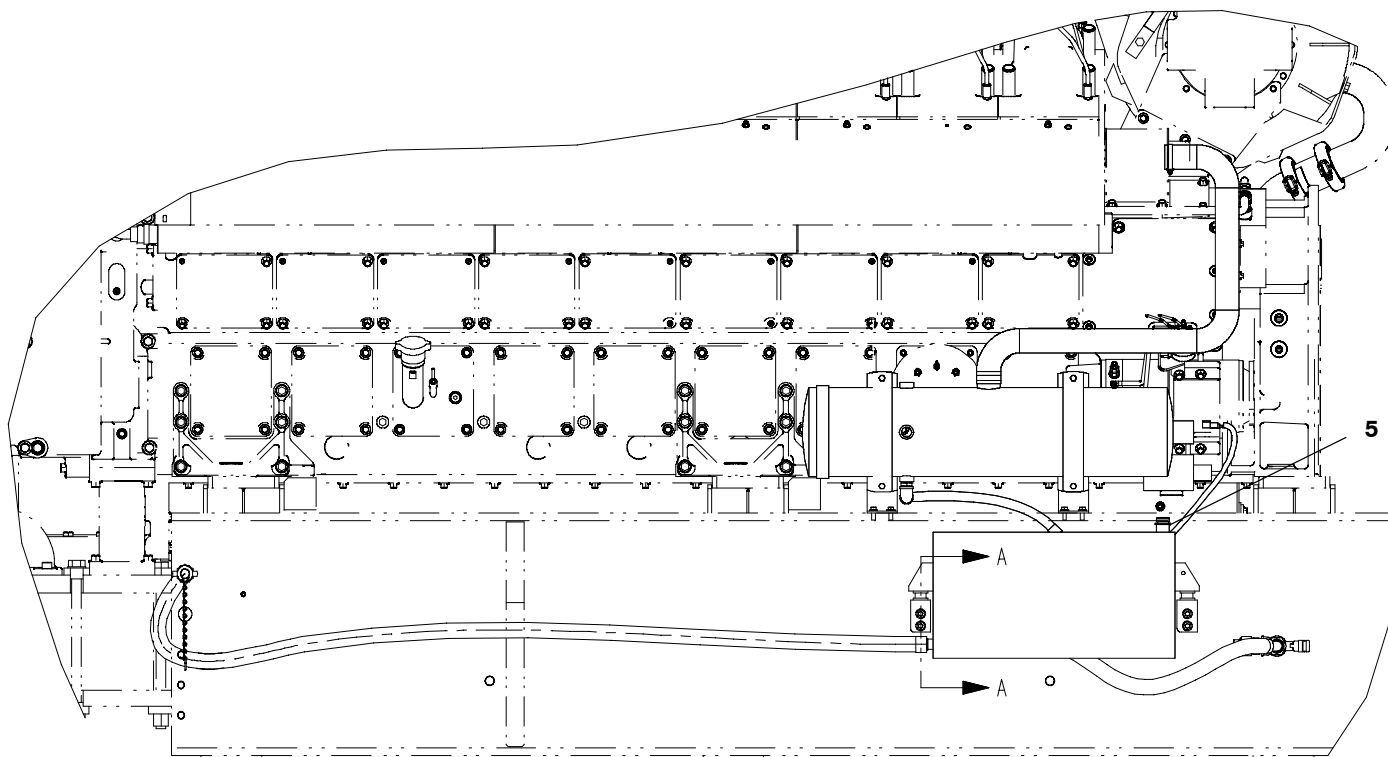
**Oil System
Dirty Oil
GQMB, GQNA, GQNB
(Illustration #2)**



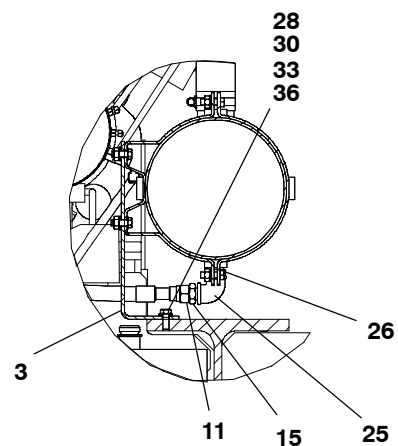
**Oil System
Dirty Oil
GQMB, GQNA, GQNB**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1507-02	1	Tank, Oil Dirty Oil	20	505-2068	2	Adapter, Pipe
2	122-0862-01	1	Filter, Oil	21	505-2069	2	Elbow, Pipe
3	122-0899-02	2	Bracket, Oil Filter	22	505-2070	1	Adapter, Pipe (1")
4	123-2198	1	Cap, Oil Drain Connection	23	505-2085	1	Adapter, Pipe (1" x 1")
5	123-2204	1	Adapter, Breather	24	505-2141	1	Elbow - 90°
6	123-2205	1	Tube, Oil Indicator	25	505-2317	1	Adapter, Pipe
7	123-2314	1	Tube, Breather	26	526-0399-60	8	Washer, Flat (M8)
8	123-2315-02	1	Tube, Breather	27	526-0399-62	20	Washer, Flat (M10)
9	193-0566	1	Sensor, Level	28	526-0399-64	4	Washer, Flat (M12)
10	403-4913-02	2	Bracket, Tank	29	800-3017-37	12	Screw, Hex Head (M10 x 1.5 x 25)
11	403-4916	4	Pad, Mounting	30	800-3017-56	4	Screw, Hex Head (M12 x 1.75 x 40)
12	501-0760	1	Hose	31	850-0114-54	8	Washer, Lock - Spring (M8)
13	501-0941	1	Hose	32	850-0114-55	12	Washer, Lock - Spring (M10)
14	501-0942	1	Hose	33	850-0114-56	4	Washer, Lock - Spring (M12)
15	502-1433	1	Tee, Hose	34	862-0026-55	8	Nut, Hex (M8)
16	502-1441	2	Adapter, Hose	35	862-0026-56	8	Nut, Hex (M10)
17	503-2373	5	Clamp, Hose	36	862-0026-57	4	Nut, Hex (M12)
18	503-2601	1	Hose, Breather				
19	504-0227	2	Valve, Ball				

**Oil System
Dirty Oil
(Illustration #1)
GQNC, GQPC**



SECTION A-A

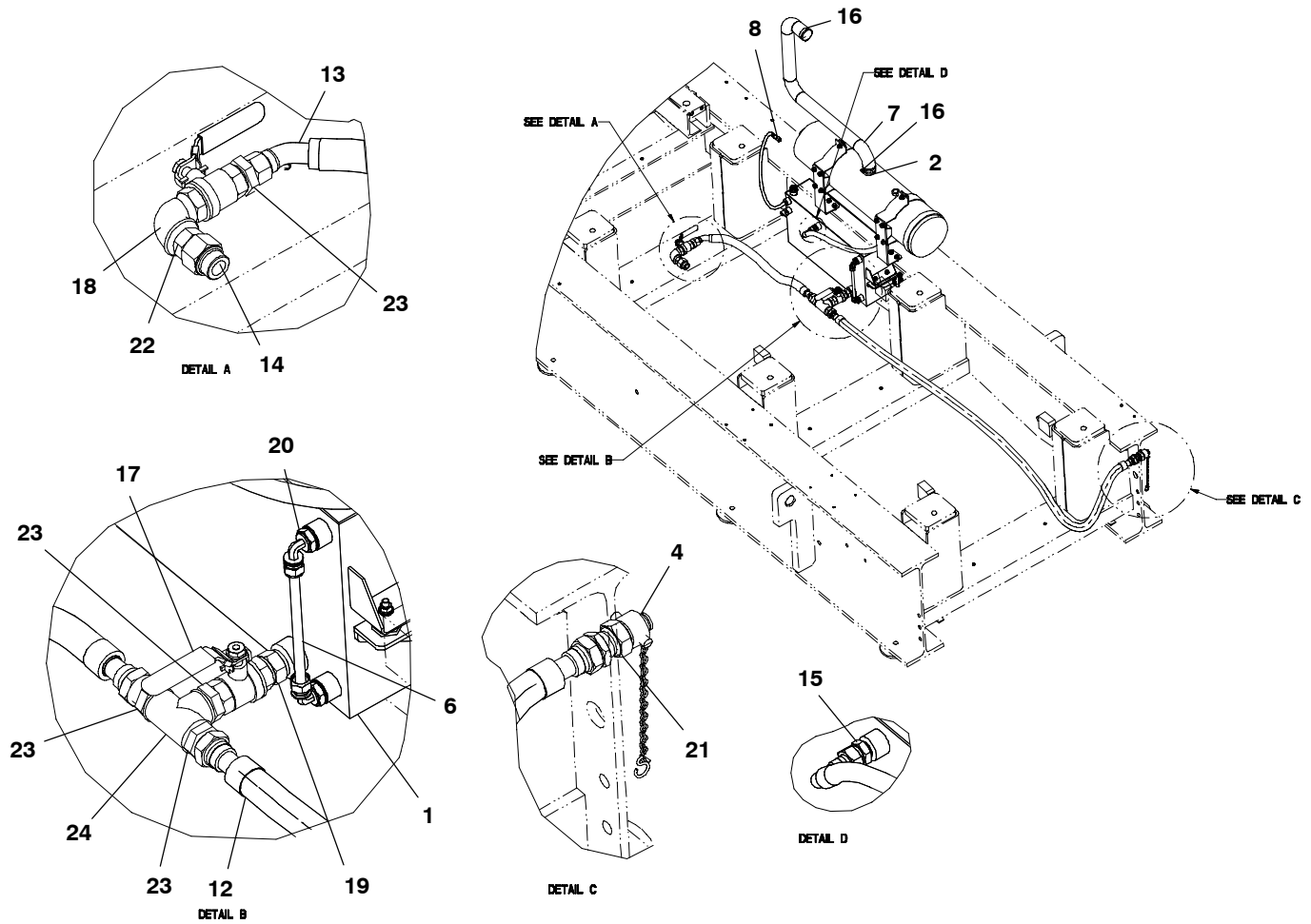


SECTION B-B

**Oil System
Dirty Oil
GQNC, GQPC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1507-02	1	Tank, Oil Dirty Oil	20	505-2069	2	Elbow, Pipe
2	122-0862-01	1	Filter, Oil	21	505-2070	1	Adapter, Pipe (1")
3	122-0899-02	2	Bracket, Oil Filter	22	505-2077	1	Adapter, Pipe
4	123-2198	1	Cap, Oil Drain Connection	23	505-2085	4	Adapter, Pipe
5	123-2204	1	Adapter, Breather	24	505-2097	1	Tee, Pipe
6	123-2205	1	Tube, Oil Indicator	25	505-2141	1	Elbow - 90°
7			Tube, Breather	26	505-2317	1	Adapter, Pipe
	123-2305	1	GQPC	27	526-0399-60	8	Washer, Flat (M8)
	123-2267	1	GQNC	28	526-0399-62	20	Washer, Flat (M10)
8	193-0566	1	Sensor, Level	29	526-0399-64	4	Washer, Flat (M12)
9	403-4913-02	2	Bracket, Tank	30	800-3017-37	12	Screw, Hex Head (M10 x 1.5 x 25)
10	403-4916	4	Pad, Mounting	31	800-3017-56	4	Screw, Hex Head (M12 x 1.75 x 40)
11	501-0823	1	Hose	32	850-0114-54	8	Washer, Lock - Spring (M8)
12	501-0899	1	Hose	33	850-0114-55	12	Washer, Lock - Spring (M10)
13	501-0900	1	Hose	34	850-0114-56	4	Washer, Lock - Spring (M12)
14	502-1326	1	Adapter, Pipe	35	862-0026-55	8	Nut, Hex (M8)
15	502-1441	2	Adapter, Hose	36	862-0026-56	8	Nut, Hex (M10)
16	503-2373	2	Clamp, Hose	37	862-0026-57	4	Nut, Hex (M12)
17	504-0227	2	Valve, Ball				
18	503-2061	1	Adapter, Pipe				
19	505-2068	1	Adapter, Pipe				

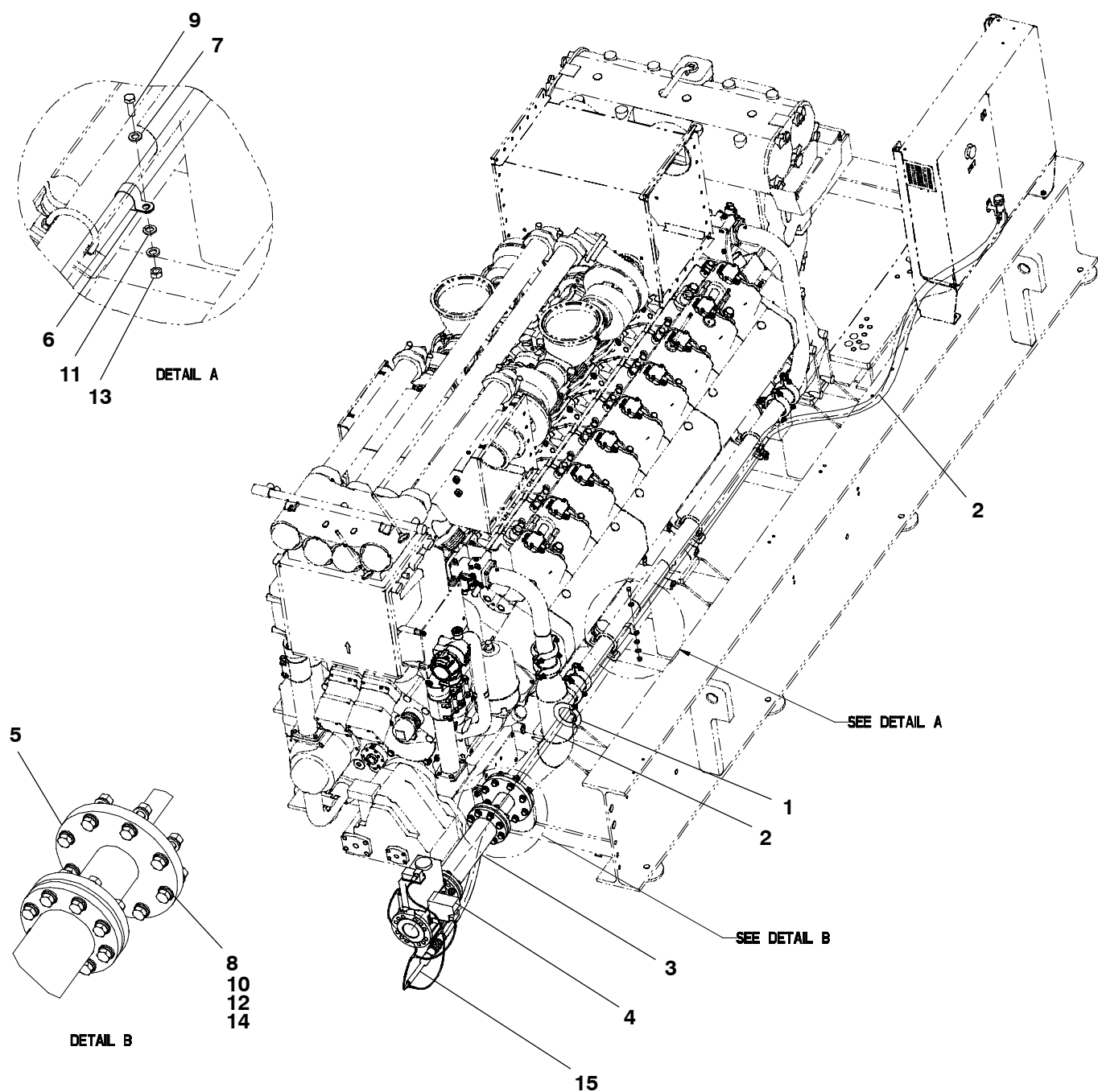
**Oil System
Dirty Oil
(Illustration #2)
GQNC, GQPC**



**Oil System
Dirty Oil
GQNC, GQPC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1507-02	1	Tank, Oil Dirty Oil	20	505-2069	2	Elbow, Pipe
2	122-0862-01	1	Filter, Oil	21	505-2070	1	Adapter, Pipe (1")
3	122-0899-02	2	Bracket, Oil Filter	22	505-2077	1	Adapter, Pipe
4	123-2198	1	Cap, Oil Drain Connection	23	505-2085	4	Adapter, Pipe
5	123-2204	1	Adapter, Breather	24	505-2097	1	Tee, Pipe
6	123-2205	1	Tube, Oil Indicator	25	505-2141	1	Elbow - 90°
7			Tube, Breather	26	505-2317	1	Adapter, Pipe
	123-2305	1	GQPC	27	526-0399-60	8	Washer, Flat (M8)
	123-2267	1	GQNC	28	526-0399-62	20	Washer, Flat (M10)
8	193-0566	1	Sensor, Level	29	526-0399-64	4	Washer, Flat (M12)
9	403-4913-02	2	Bracket, Tank	30	800-3017-37	12	Screw, Hex Head (M10 x 1.5 x 25)
10	403-4916	4	Pad, Mounting	31	800-3017-56	4	Screw, Hex Head (M12 x 1.75 x 40)
11	501-0823	1	Hose	32	850-0114-54	8	Washer, Lock - Spring (M8)
12	501-0899	1	Hose	33	850-0114-55	12	Washer, Lock - Spring (M10)
13	501-0900	1	Hose	34	850-0114-56	4	Washer, Lock - Spring (M12)
14	502-1326	1	Adapter, Pipe	35	862-0026-55	8	Nut, Hex (M8)
15	502-1441	2	Adapter, Hose	36	862-0026-56	8	Nut, Hex (M10)
16	503-2373	2	Clamp, Hose	37	862-0026-57	4	Nut, Hex (M12)
17	504-0227	2	Valve, Ball				
18	503-2061	1	Adapter, Pipe				
19	505-2068	1	Adapter, Pipe				

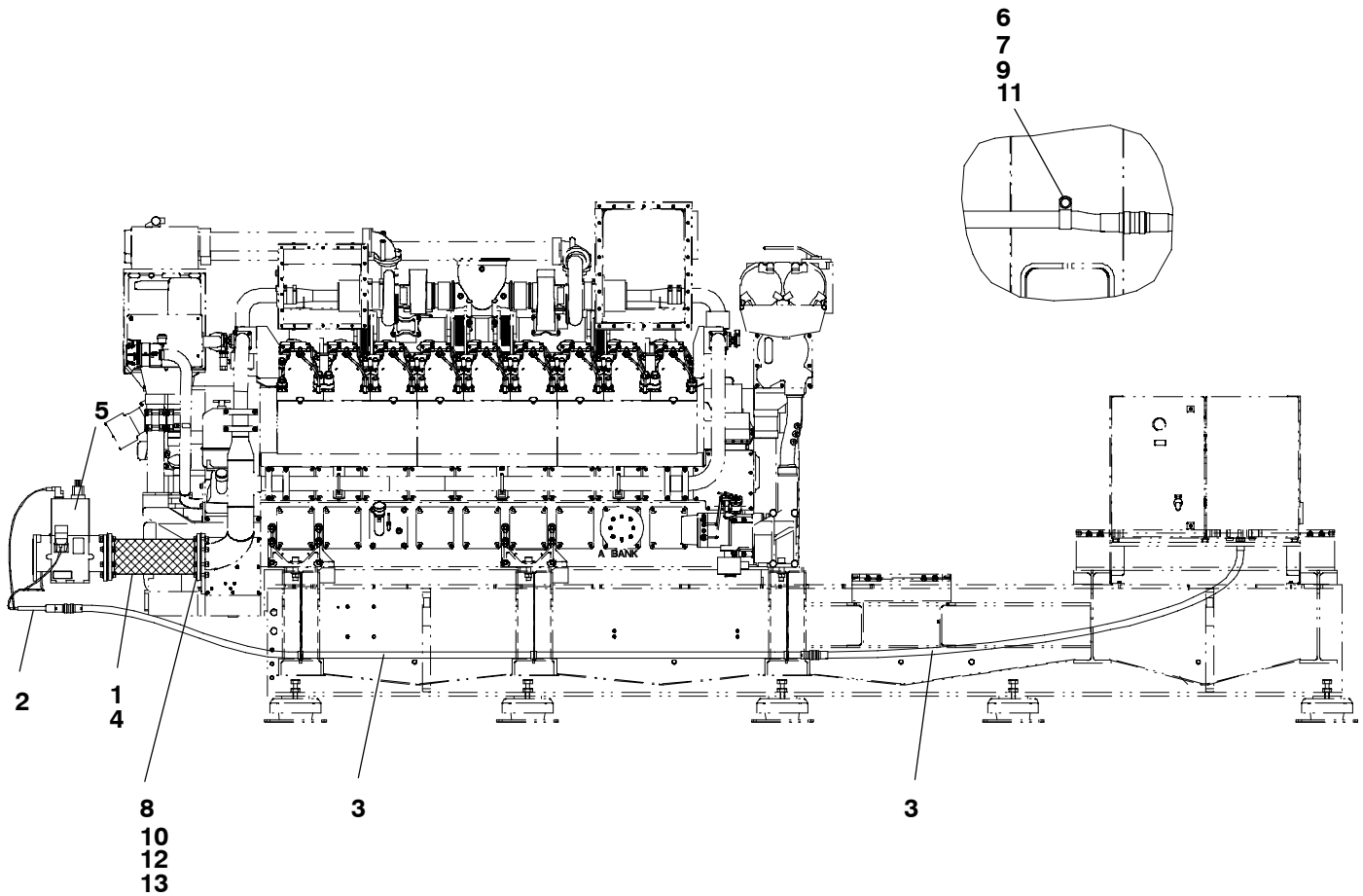
Gas Valve
3"
GQMA, GQMB, GQNA, GQNB, GQPB



**Gas Valve
3"
GQMA, GQMB, GQNA, GQNB, GQPB**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4109	3	Gasket, Flange	8	526-0399-66	48	Washer, Flat (M16)
2	338-4432	2	Harness, Extension	9	800-3017-55	3	Screw, Hex Head (M12 x 1.75 x 35)
3	501-0838	1	Line, Fuel	10	800-3017-78	24	Screw, Hex Head (M16 x 2.00 x 70)
4	504-0262	1	Valve, Solenoid (Includes VPS Module and VPS Filter Kit)	11	850-0114-56	3	Washer, Lock (M12)
	504-0299	1	Module, VPS	12	850-0114-57	48	Washer, Lock (M16)
	504-0305	1	Kit, VPS Filter	13	862-0026-57	3	Nut, Hex (M12)
5	505-2325	1	Adapter, Pipe	14	862-0026-58	24	Nut, Hex (M16)
6	518-0548-43	3	Clamp, Hose	15	338-4431	1	Harness, Valve
7	526-0399-64	6	Washer, Flat (M12)				

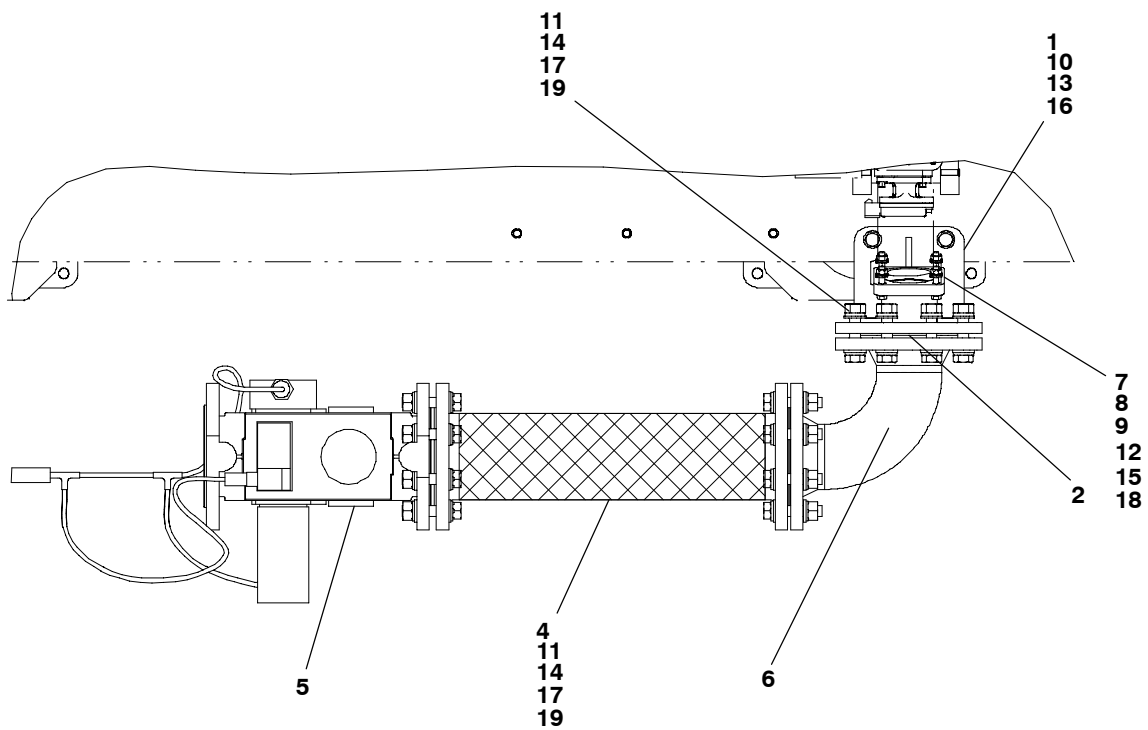
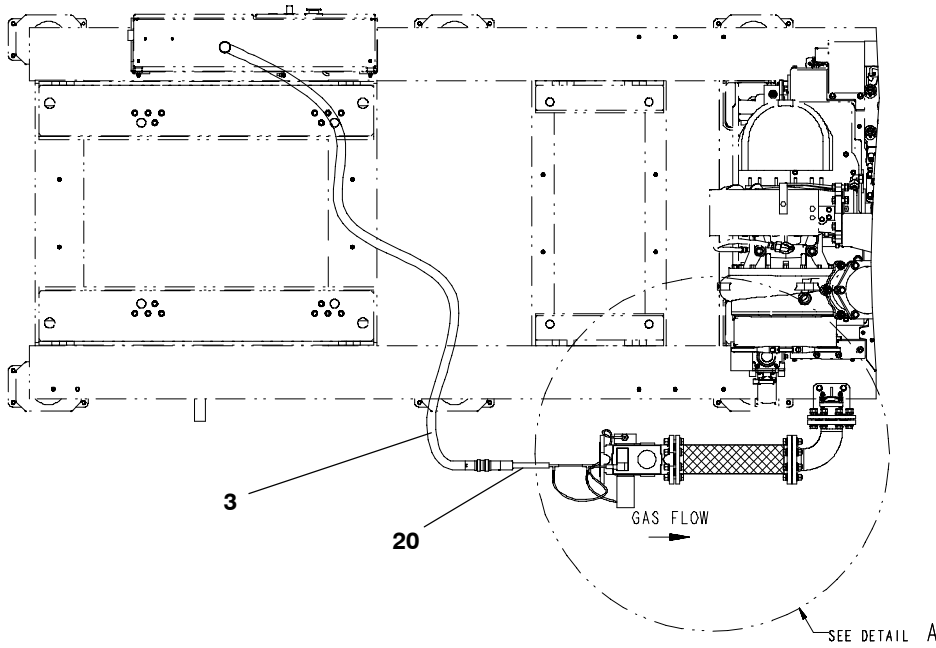
Gas Valve
5"
GQMB, GQNB, GQPB



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6164	2	Gasket, Radiator (5")	9	800-3017-55	3	Screw, Hex Head (M12 x 1.75 x 35)
2	338-4431	1	Harness, Valve	10	800-3017-78	16	Screw, Hex Head (M16 x 2.00 x 70)
3	338-4432	2	Harness, Extension	11	850-0114-56	3	Washer, Lock (M12)
4	501-0949	1	Line, Fuel	12	850-0114-57	32	Washer, Lock (M16)
5	504-0293	1	Valve, Solenoid	13	862-0026-58	16	Nut, Hex (M16)
6	518-0548-43	3	Clamp, Hose				
7	526-0399-64	3	Washer, Flat (M12)				
8	526-0399-66	3	Washer, Flat (M16)				

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Gas Valve GQNC, GQPC

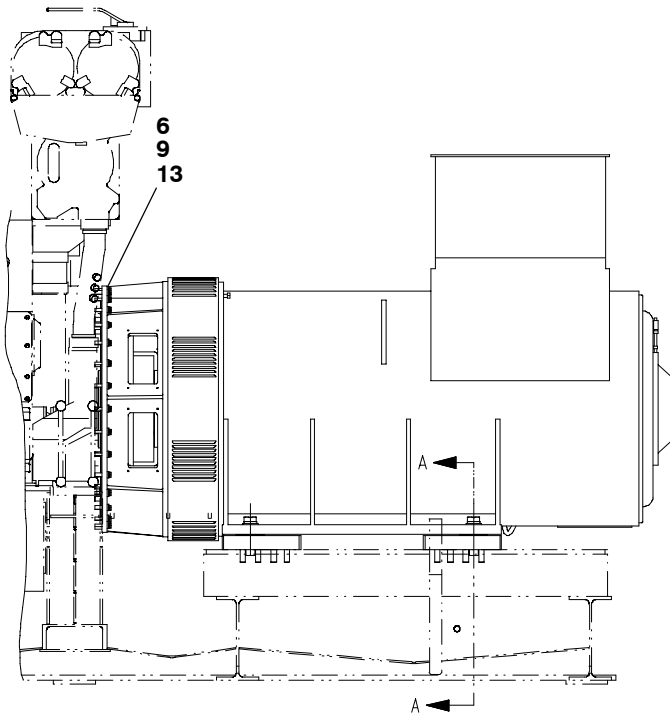


DETAIL A

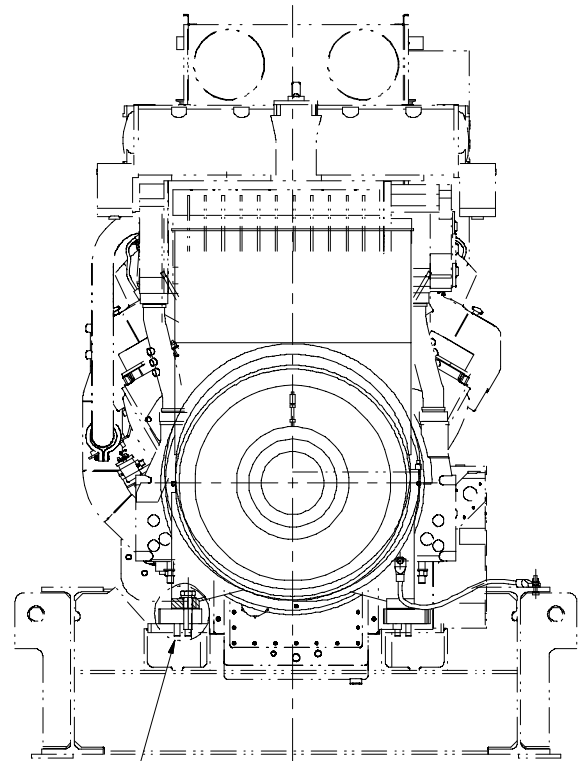
Gas Valve GQNC, GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1319-02	1	Bracket, Fuel System	11	526-0399-66	48	Washer, Flat (M16)
2	155-4109	3	Gasket, Flange	12	800-3017-23	4	Screw, Hex Head (M8 x 1.25 x 40)
3	338-4432	2	Harness, Extension	13	800-3017-55	2	Screw, Hex Head (M12 x 1.75 x 35)
4	501-0838	1	Line, Fuel	14	800-3017-78	24	Screw, Hex Head (M16 x 2.00 x 70)
5	504-0262	1	Valve, Solenoid (Includes VPS Module and VPS Filter Kit)	15	850-0114-54	4	Washer, Lock (M8)
	504-0299	1	Module, VPS	16	850-0114-56	2	Washer, Lock (M12)
	504-0305	1	Kit, VPS Filter	17	850-0114-57	48	Washer, Lock (M16)
6	504-2174	1	Elbow, Pipe - Gas Connector	18	862-0026-55	4	Nut, Hex (M8)
7	505-2308-02	1	Adapter, Pipe	19	862-0026-58	24	Nut, Hex (M16)
8	509-0439	1	Seal, O-Ring	20	338-4431	1	Harness, Valve
9	526-0399-60	8	Washer, Flat (M8)				
10	526-0399-64	2	Washer, Flat (M12)				

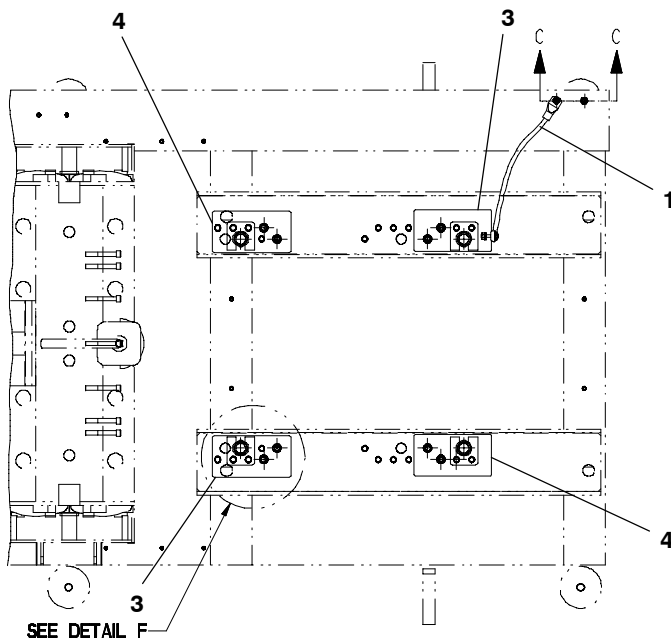
Generator Fasteners P7 GQMA, GQMB



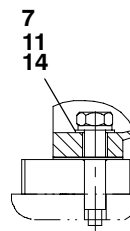
SIDE VIEW



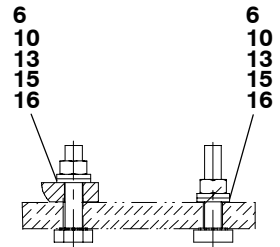
SEE DETAIL E ALTERNATOR END
SECTION A-A



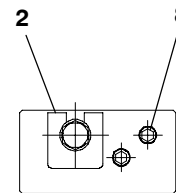
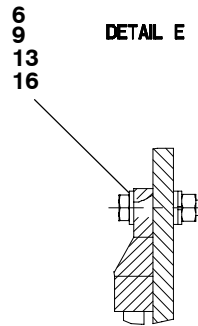
PLAN VIEW



DETAIL E



SECTION C-C

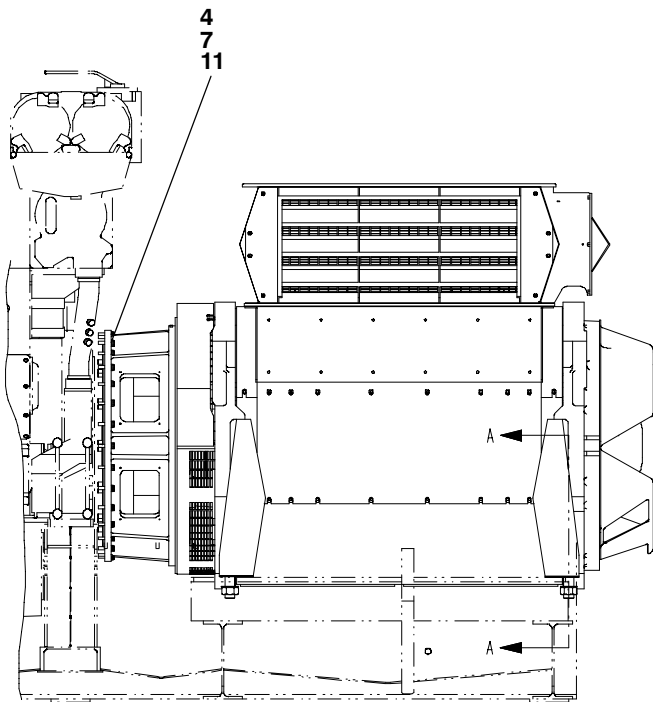


DETAIL F

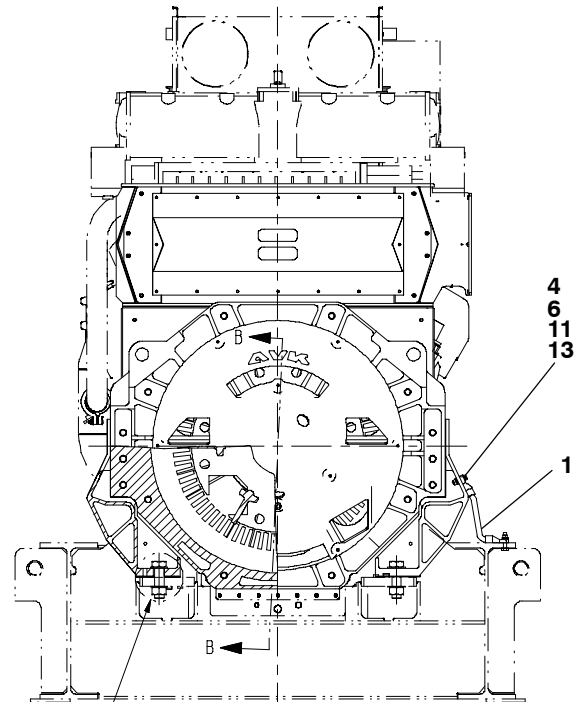
Generator Fasteners
P7
GQMA, GQMB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	226-4921-01	1	Lead – Earth Strap	8	725-1190	16	Screw, Cap – Socket Head (M20 x 70)
2			Shim, Generator	9	800-3017-58	33	Screw, Hex Head (M12 x 1.75 x 50)
	232-4164-01 A/R		0.1 mm Thick	10	800-6288-12	2	Screw, Hex Head (M12 x 1.75 x 60)
	232-4164-02 A/R		0.2 mm Thick	11	800-6309	4	Screw, Hex Head (M30 x 3.5 x 120)
	232-4164-03 A/R		0.5 mm Thick	12	802-2545-06	12	Screw, Socket Head (M16 x 110) (Not Shown)
	232-4164-04 A/R		1.0 mm Thick	13	850-0114-56	35	Washer, Lock (M12)
	232-4164-05 A/R		2.0 mm Thick	14	850-2026	4	Washer, Lock (M30)
3	403-6035-02	2	Mount, Generator	15	853-0040-57	2	Washer, Lock – W/ET (M12)
4	403-6036-02	2	Mount, Generator	16	862-0026-57	3	Nut, Hex (M12)
5			Coupling, Flex (Not Shown)				
	512-0352	1	P7 F/G				
	512-0351	1	P7 D/E				
6	526-0399-64	36	Washer, Flat (M12)				
7	526-2240	4	Washer, Flat (M30)				

Generator Fasteners
P80
GQMA, GQMB, GQNA, GQNB, GQNC

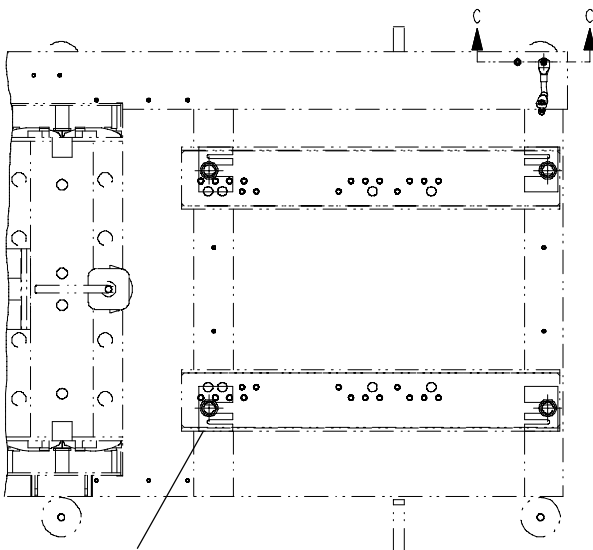


SIDE VIEW



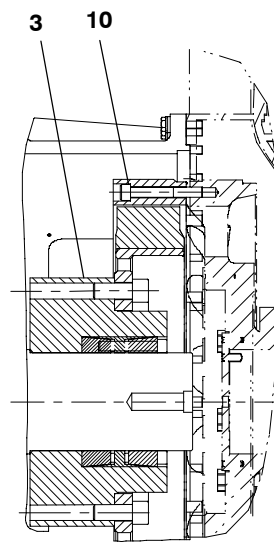
SEE DETAIL E

**ALTERNATOR END
SECTION A-A**

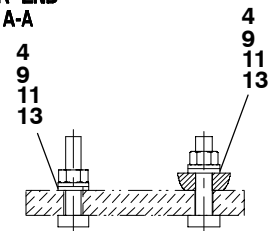


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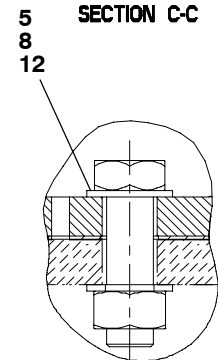
PLAN



SECTION B-B



SECTION C-C

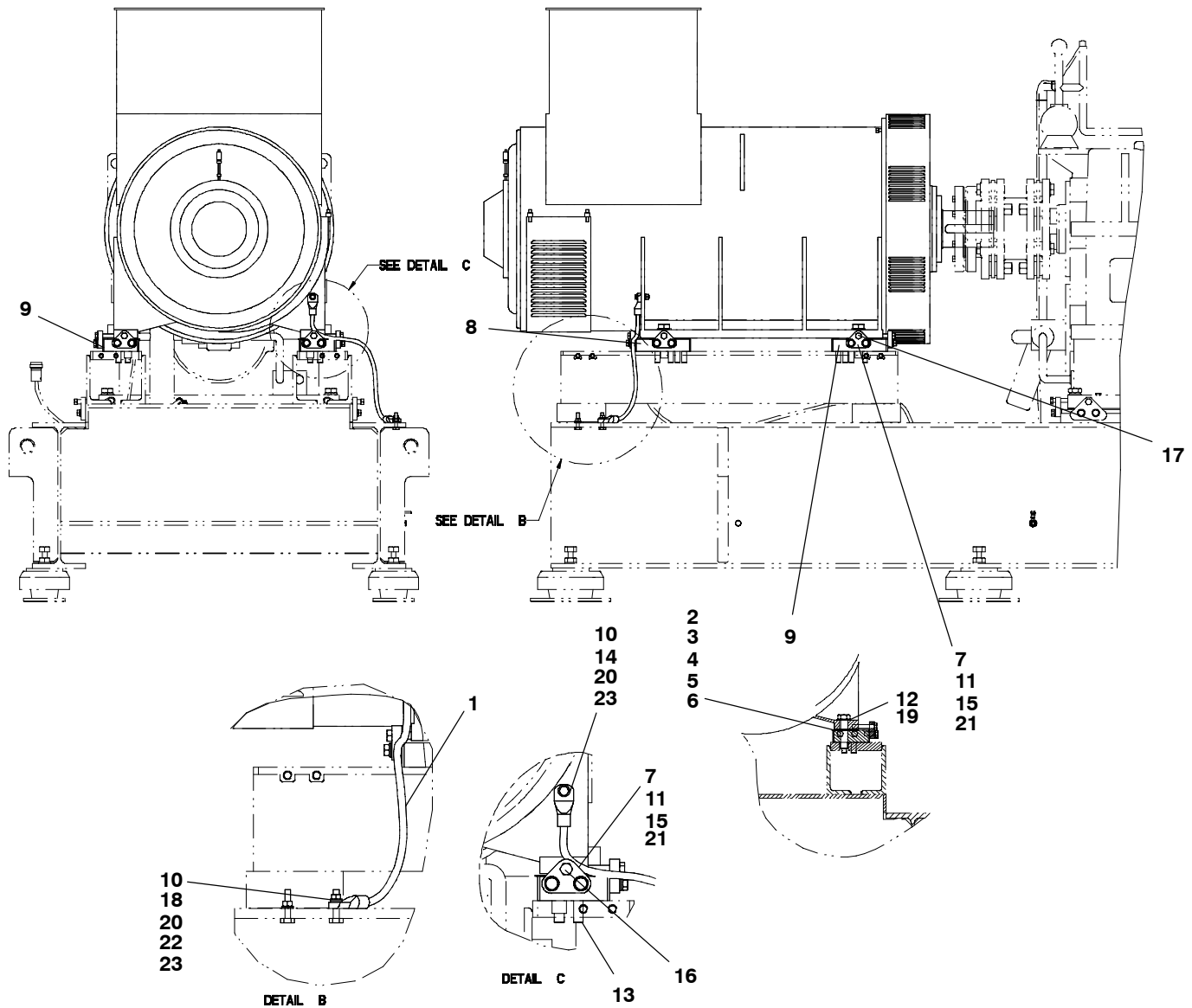


DETAIL E

Generator Fasteners
P80
GQMA, GQMB, GQNA, GQNB, GQNC

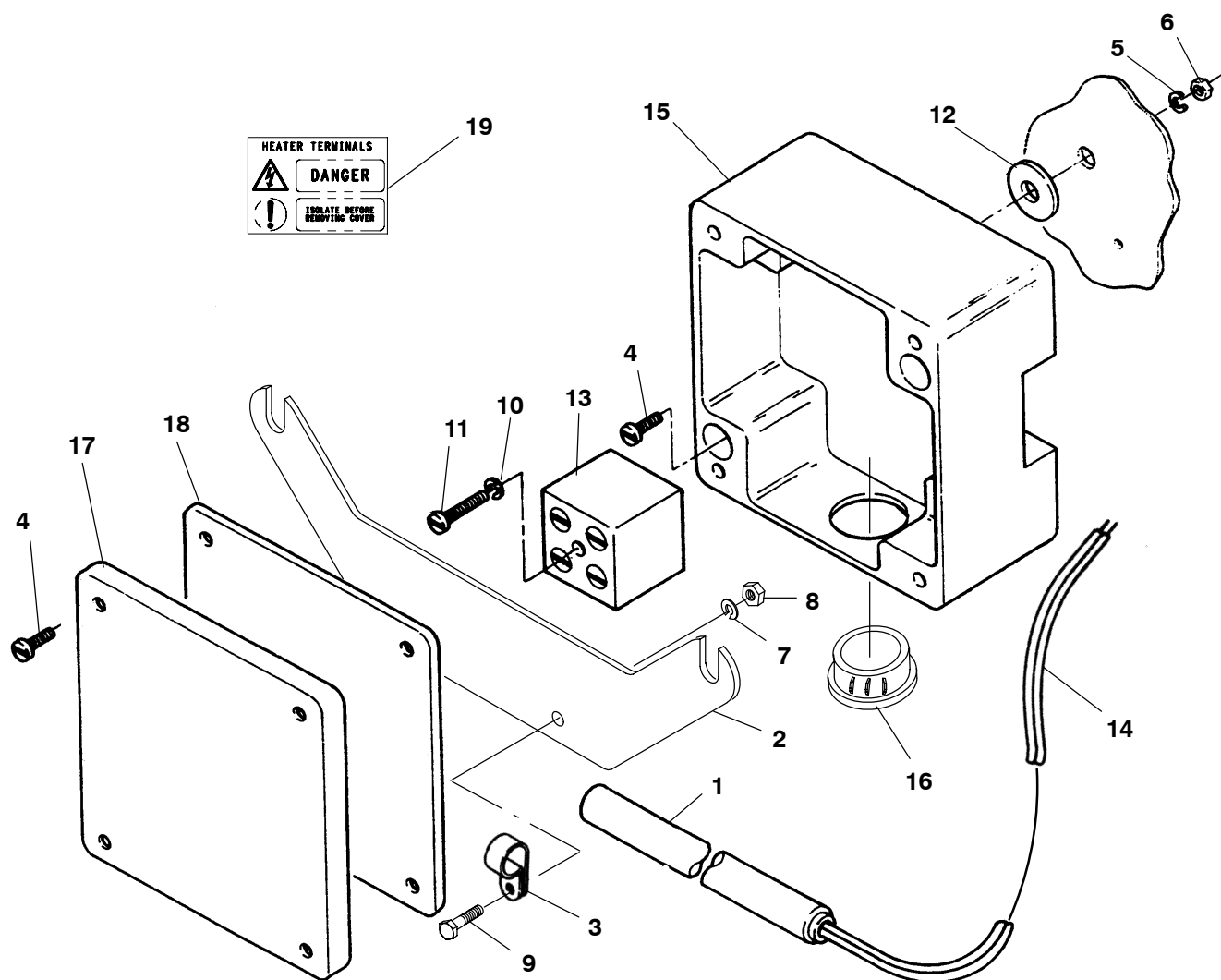
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	226-4921-01	1	Lead – Earth Strap	7	800-3017-59	32	Screw, Hex Head (M12 x 1.75 x 55)
2			Shim, Generator	8	800-6280	4	Screw, Hex Head (M36 x 4 x 120)
	232-4168-01 A/R		0.1 mm Thick	9	800-6288-12	2	Screw, Hex Head (M12 x 1.75 x 60)
	232-4168-02 A/R		0.2 mm Thick	10	802-2545-06	12	Screw, Socket Head (M16 x 110)
	232-4168-03 A/R		0.5 mm Thick	11	850-0114-56	35	Washer, Lock (M12)
	232-4168-04 A/R		1.0 mm Thick	12	860-2072	4	Nut (M36 x 4)
	232-4168-05 A/R		2.0 mm Thick	13	862-0026-57	3	Nut, Hex (M12)
3	512-0353	1	Coupling, Flex				
4	526-0399-64	36	Washer, Flat (M12)				
5	526-2250	8	Washer, Flat (M36)				
6	800-3017-58	1	Screw, Hex Head (M12 x 1.75 x 50)				

Generator Fasteners P7 GQNA, GQPB, GQPC



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	226-4921-01	1	Lead	15	800-3017-74	16	Screw, Hex Head (M16 x 2.00 x 50)
2	232-4164-01 A/R		Shim	16	800-3017-76	4	Screw, Hex Head (M16 x 2.00 x 60)
3	232-4164-02 A/R		Shim	17	800-3017-82	4	Screw, Hex Head (M16 x 2.00 x 90)
4	232-4164-03 A/R		Shim	18	800-6288-12	2	Screw, Hex Head (M12 x 1.75 x 60)
5	232-4164-04 A/R		Shim	19	800-6309	4	Screw, Hex Head (M30 x 3.5 x 120)
6	232-4164-05 A/R		Shim	20	850-0114-56	3	Washer, Lock (M12)
7	403-5491	8	Pad, Mounting	21	850-0114-57	16	Washer, Lock (M16)
8	403-6037	2	Mount, Generator	22	853-0040-57	2	Washer, Lock - W/ET (M16)
9	403-6038	2	Mount, Generator	23	862-0026-57	3	Nut, Hex (M12)
10	526-0399-64	4	Washer, Flat (M12)				
11	526-0399-66	16	Washer, Flat (M16)				
12	526-2240	4	Washer, Flat (M30)				
13	725-1190	16	Screw, Cap - Socket Head (M20 x 70)				
14	800-3017-58	1	Screw, Hex Head (M12 x 1.75 x 50)				

Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0438-05	1	Cartridge, Heater (300 Watt)	10	850-2003	1	Washer, Lock - Spring (M3)
	333-0438-06	1	110/125 Volts	11	822-3047	1	Screw, Machine - Pan Head (M3 x 20mm)
2	232-3849	1	220/260 Volts	12	508-0228	1	Grommet
3	332-3024-14	2	Bracket, Mounting - Heater	13	332-3023	1	Block, Terminal
4	822-3075	6	Clamp, Loop	14	898-1254-25	1	Sleeving - Heater Leads (59")
			Screw, Machine - Slotted Pan Head (M4 x 16mm)	15	330-0142	1	Box, Terminal
5	850-2004	2	Washer, Lock - Spring (M4)	16	517-0021	1	Plug, Dot Button
6	860-2005	2	Nut, Hex (M4)	17	330-0141-03	1	Cover, Box
7	850-2005	2	Washer, Lock - Spring (M5)	18	330-0141-04	1	Gasket, Cover
8	860-2006	2	Nut, Hex (M5)	19	098-7281	1	Label, Heater Warning
9	800-2008	2	Screw, Cap - Hex Head (M5 x 16mm)				

Generator

Generator component parts cannot be ordered from Cummins Power Generation. Refer to the Newage nameplate and supply all available information. Contact your nearest Newage distributor for assistance in ordering component parts. For COMPLETE generator replacement use the 200-XXXX-XX Cummins Power Generation identification number listed below.

Cummins Power Generation Identification Number	Newage Designation
200-3200-13	P734E
200-3200-14	P734E
200-3200-19	P734E
200-3200-20	P734E
200-3200-21	P734E
200-3200-24	P734F
200-3200-25	P734F
200-3200-26	P734F
200-3200-27	P734F
200-3200-28	P734F
200-3200-29	P734F
200-3200-33	P734F
200-3200-34	P734F
200-3200-37	P734F
200-3200-38	P734F
200-3200-39	P734F
200-3200-40	P734F
200-3200-45	P736F
200-3200-46	P736F
200-3200-55	P736F
200-3200-56	P736F
200-3200-57	P734G
200-3200-58	P734G
200-3200-60	P734G
200-3200-61	P734G
200-3200-62	P734G
Continued...	

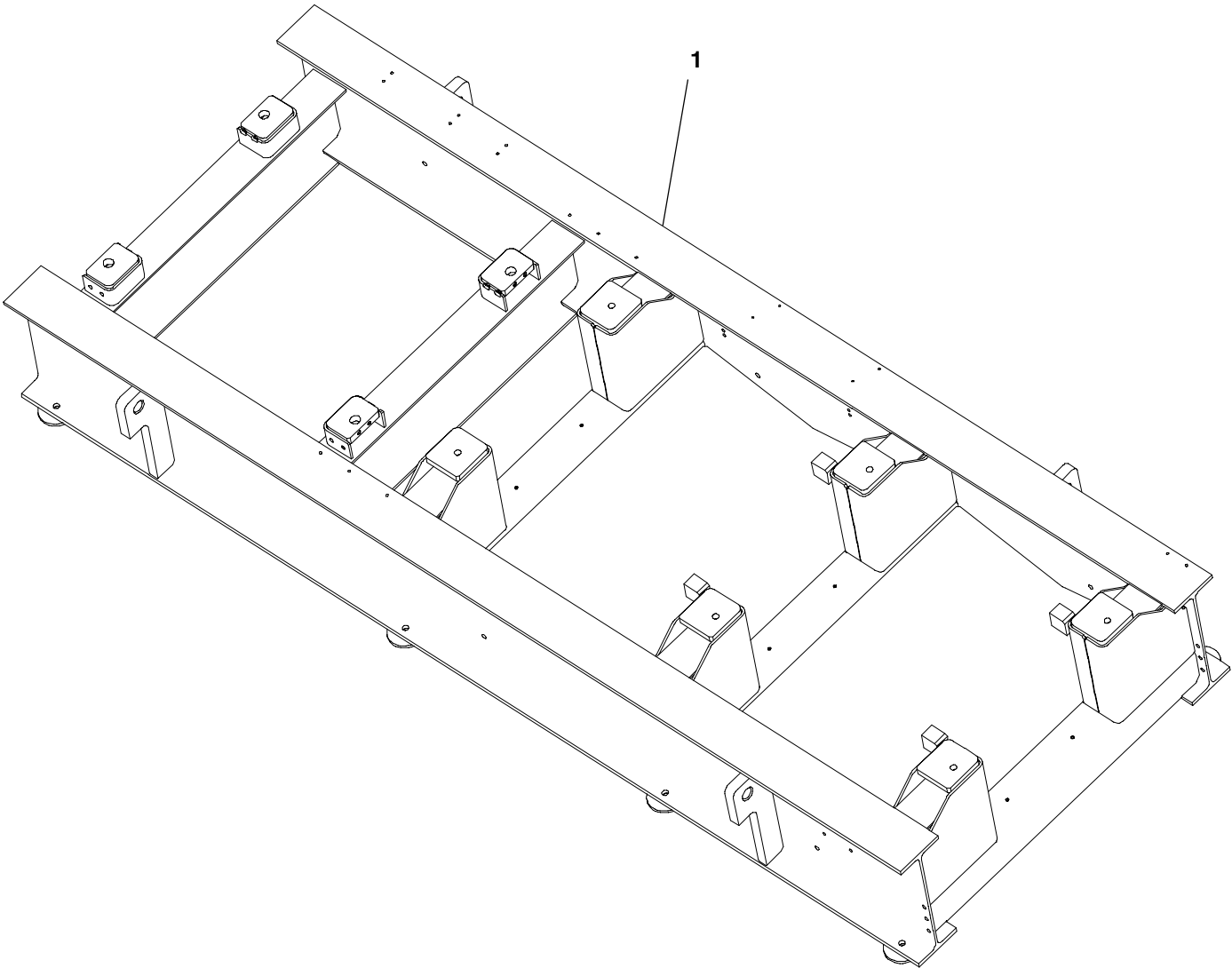
Generator

Cummins Power Generation Identification Number	Newage Designation
Continued...	
200-3200-63	P734G
200-3200-64	P734G
200-3200-65	P734G
200-3200-68	MVW1734H
200-3200-69	MVW1734H
200-3212-01	LVS1804R
200-3212-02	LVS1804R
200-3212-03	LVS1804R
200-3212-04	LVS1804R
200-3212-05	LVS1804R
200-3212-06	LVS1804R
200-3212-08	MVS1804R
200-3212-09	MVS1804R
200-3212-10	MVS1804R
200-3212-18	HVS1804R
200-3212-19	HVS1804R
200-3212-20	HVS1804R
200-3212-21	HVS1804R
200-3212-22	HVS1804R
200-3212-23	HVS1804R
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200-3212-25	HVS1804R
200-3212-26	HVS1804R
200-3212-27	HVS1804R
200-3212-28	HVS1804R
200-3212-29	HVS1804R
200-3212-30	HVS1804R
200-3212-31	LVS1804S
200-3212-32	LVS1804S
200-3212-33	LVS1804S
200-3212-35	LVS1804S
Continued...	

Generator

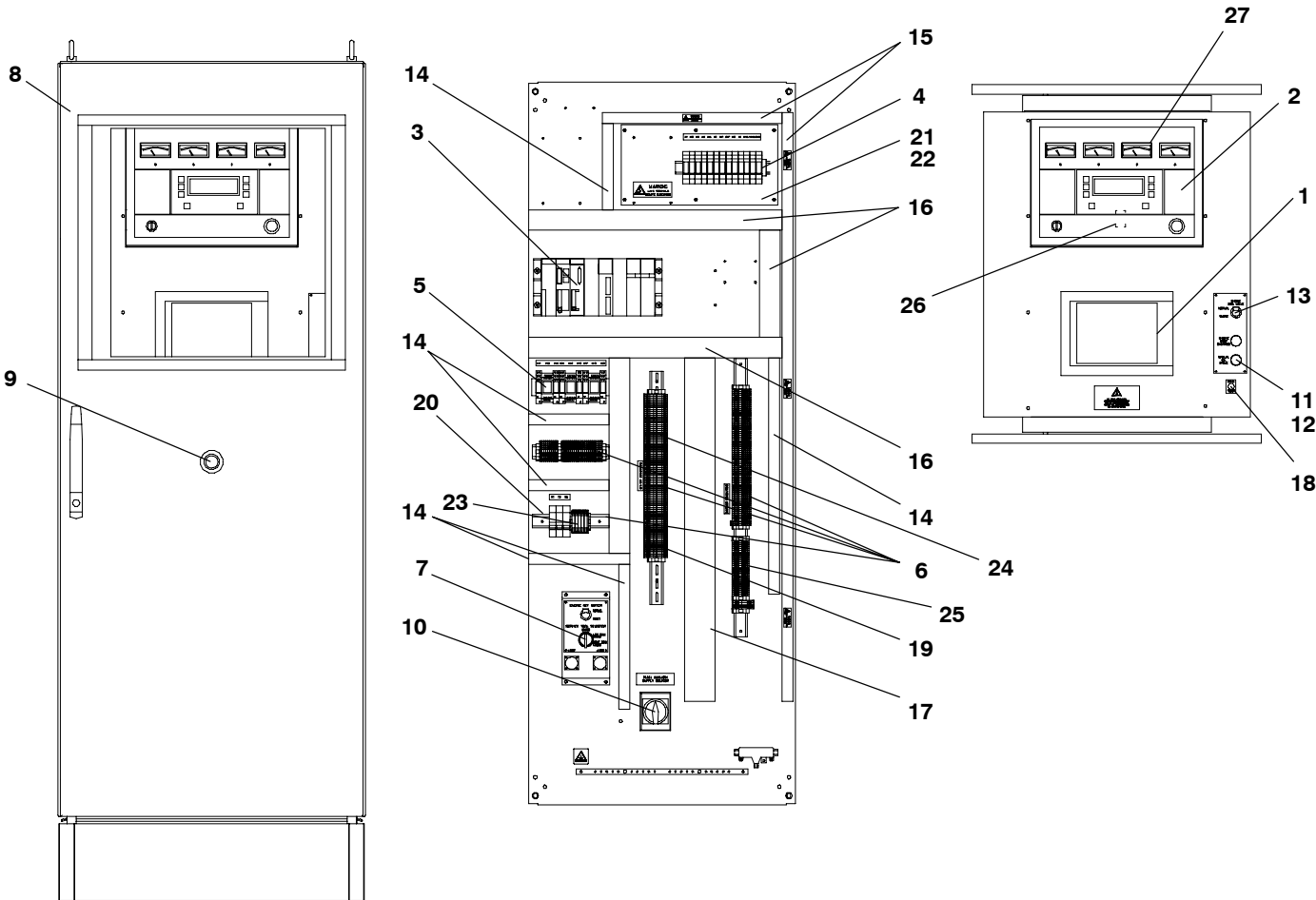
Cummins Power Generation Identification Number	Newage Designation
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200-3212-36	LVS1804S
200-3212-37	LVS1804S
200-3212-40	LVS1804S
200-3212-41	LVS1804S
200-3212-42	MVS1804S
200-3212-43	MVS1804S
200-3212-44	HVS1804S
200-3212-45	HVS1804S
200-3212-46	HVS1804S
200-3212-48	HVS1804S
200-3212-49	HVS1804S
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200-3212-55	LVS1804T
200-3212-56	LVS1804T
200-3212-57	LVS1804T
200-3212-58	LVS1804T
200-3212-59	MVS1804T
200-3212-60	HVS1804T
200-3212-61	HVS1804T
200-3212-62	HVS1804T
200-3212-63	HVS1804T
200-3212-64	HVS1804T
200-3212-65	HVS1804T
200-3212-66	LVS1804S
200-3212-67	LVS1804R

Skid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Skid				
	403-5860-02	1	GQNA (50Hz), GQNA (60Hz), GQNB (50Hz), GQNC (50Hz)				
	403-5859-02	1	GQPB (60Hz), GQPC (60Hz)				
	403-5971-02	1	GQMA, GQMB				

Genset Control Panel

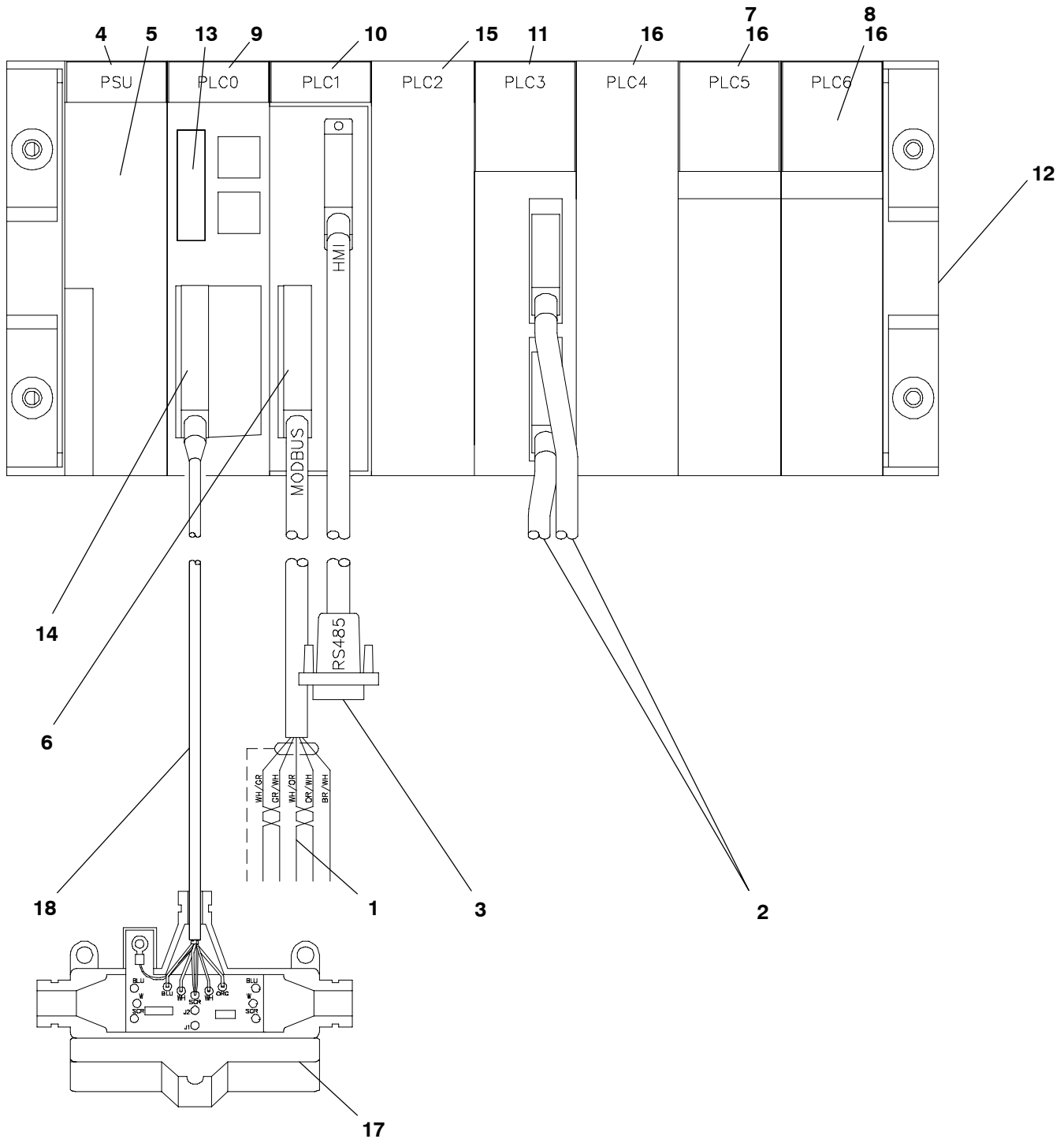


Genset Control Panel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-6053	1	* Display, Control – Touchscreen	13	308-1137	1	Switch, Toggle – 2 Position
2	300-5127-02	1	Control, PowerCommand (Includes EPROM) (See 960-0205 For Components)	14	331-0591	1	Duct, Wiring – Grey (25 x 75)
	326-5853	1	EPROM	15	331-0592	1	Duct, Wiring – Black (25 x 75)
3	300-6132	1	PLC Assembly (See Separate Page For Components)	16	331-0593	1	Duct, Wiring – Grey (50 x 75)
4	307-3019	1	GCP Relay Assembly 1 (See Separate Page For Components)	17	331-0594	1	Duct, Wiring – Grey (75 x 75)
5	307-3052	1	GCP Relay Assembly 2 (See Separate Page For Components)	18	332-3886	1	Block, Terminal – Electrostatic Bonding Terminal
6	332-4185	1	Rail, Terminal Block	19	350-1245	1	Resistor – 120Ω
7	560-2546	1	Selector Switch, Service Tool (See Separate Page For Components)	20	249-0806	3	Breaker, Circuit – Miniature, 4A, 1 Pole
8	319-6278	1	Frame, Cabinet (See Separate Page For Components)	21	319-4763	1	Cover, Box – Relays
9	098-8025	1	Label, Information – E-Stop (See 960-0205)	22	319-6403	6	Pillar, Brass
10	300-5647	1	Switch – Auxiliary Supply Isolator	23	321-0425	1	Block, Fuse
11	308-1135	2	Switch, Pushbutton – Operator	24	332-4187	1	Rail, Terminal Block
12	308-1136	2	Switch, Pushbutton – Body and N/O Contact	25	332-4186	1	Rail, Terminal Block
				26	367-0386	1	EPROM, PCS
				27			Voltmeter, AC
					302-2009-02	1	0-750V Meter Option
					302-2009-03	1	0-5kV Meter Option
					302-2009-04	1	0-15kV Meter Option

* – Must Be Programmed Prior To Installation.

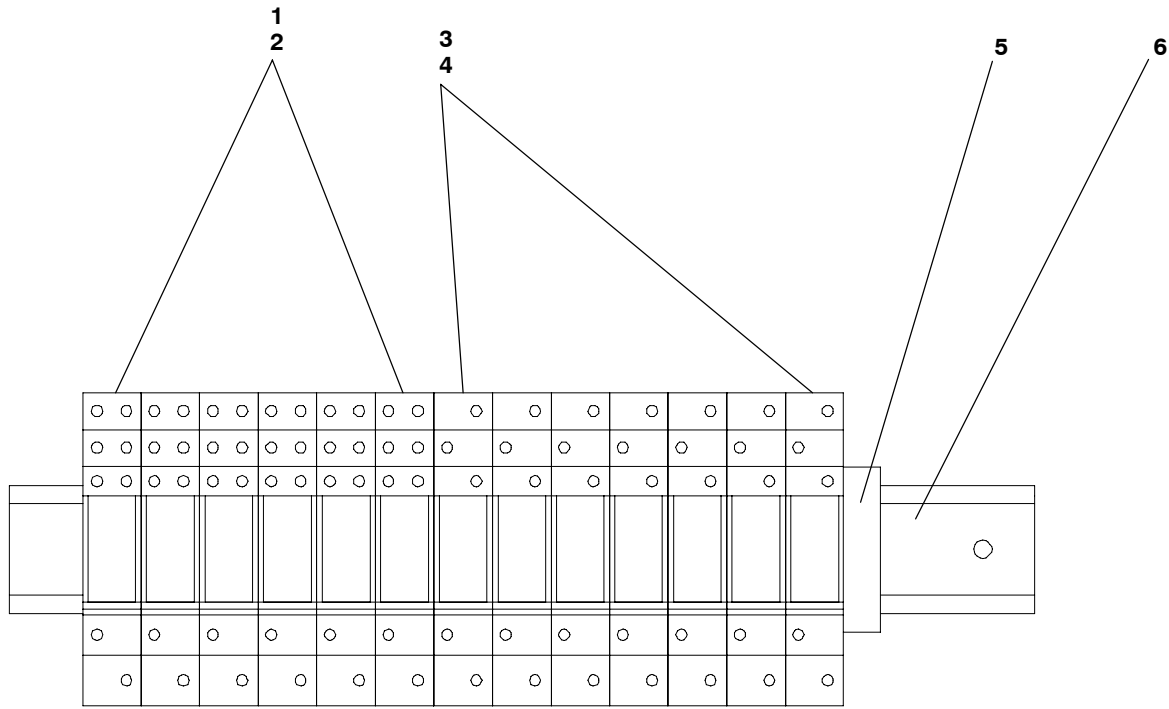
PLC Assembly



PLC Assembly

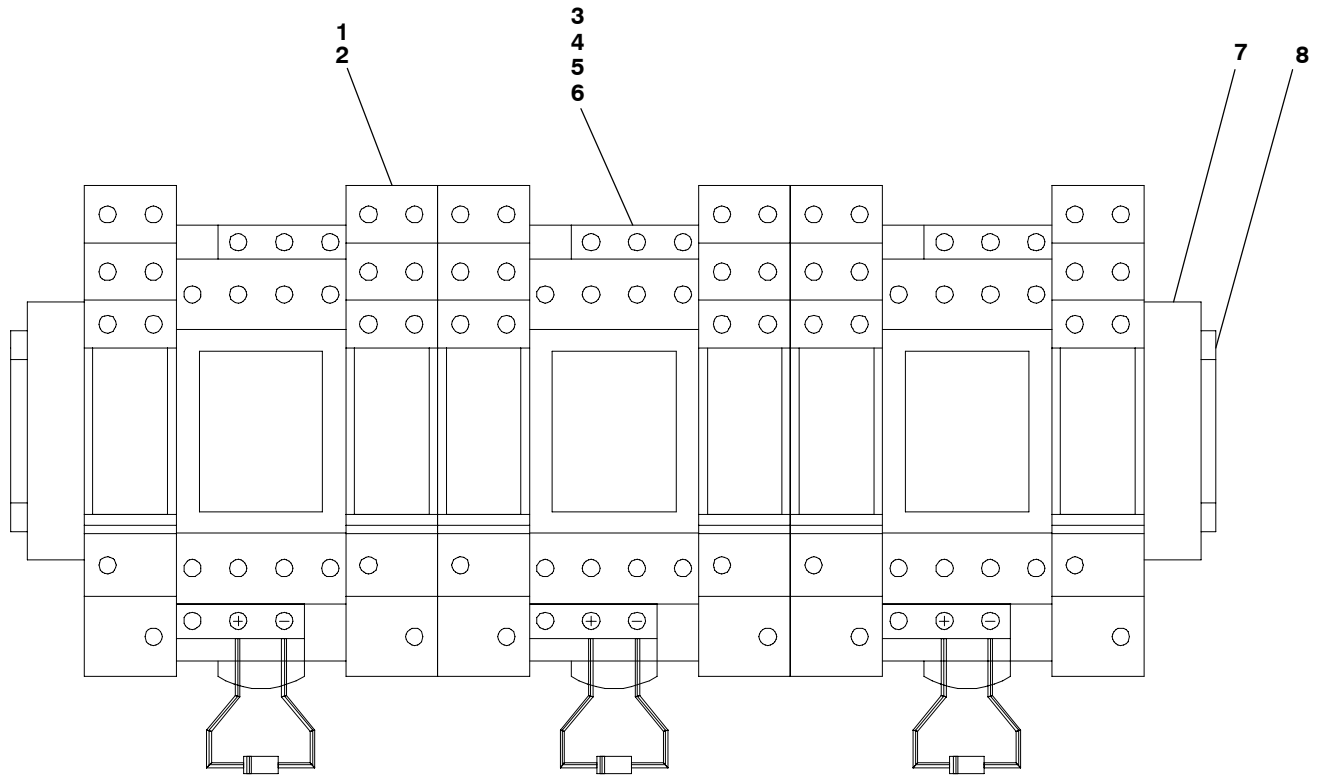
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	226-4852	1	Lead – PCMCIA Card Cable 3M	11	300-5697	1	PLC – Module, 32 Way High Density I/P
2	226-4853	2	Lead – Extension Cable 3M	12	300-5698	1	PLC – 8 Way Non-Extendable Rack
3	226-4956	1	Lead – HMI RS485 Comms Cable 3M	13	300-6024-02	1	PLC – PCMCIA 64K 16 Flash Card
4	249-0820	1	Unit, Power Supply – 30W, 24VDC	14	300-5716	1	PLC – PCMCIA Modbus Plus Comms Card
5	249-0821	1	Battery, Lithium – RAM Backup	15	319-4752	2	Cover, Printed Circuit Board – Protective Cover
6	249-0823	1	Card, PCMCIA – RS485/422	16	323-2026	2	Connector, Plug
7	249-0827	1	Card, Resistance Thermometer Input	17	326-0174	1	Tap, Cable
8	249-0828	2	Module, 16 Digital Output – 24VDC, 50A	18	335-0217	1	Cable – Modbus Drop Cable 3M
9	300-5830	1	PLC – Premium CPU 32K				
10	300-5644	2	PLC – Communication Module				

GCP Relay Assembly 1



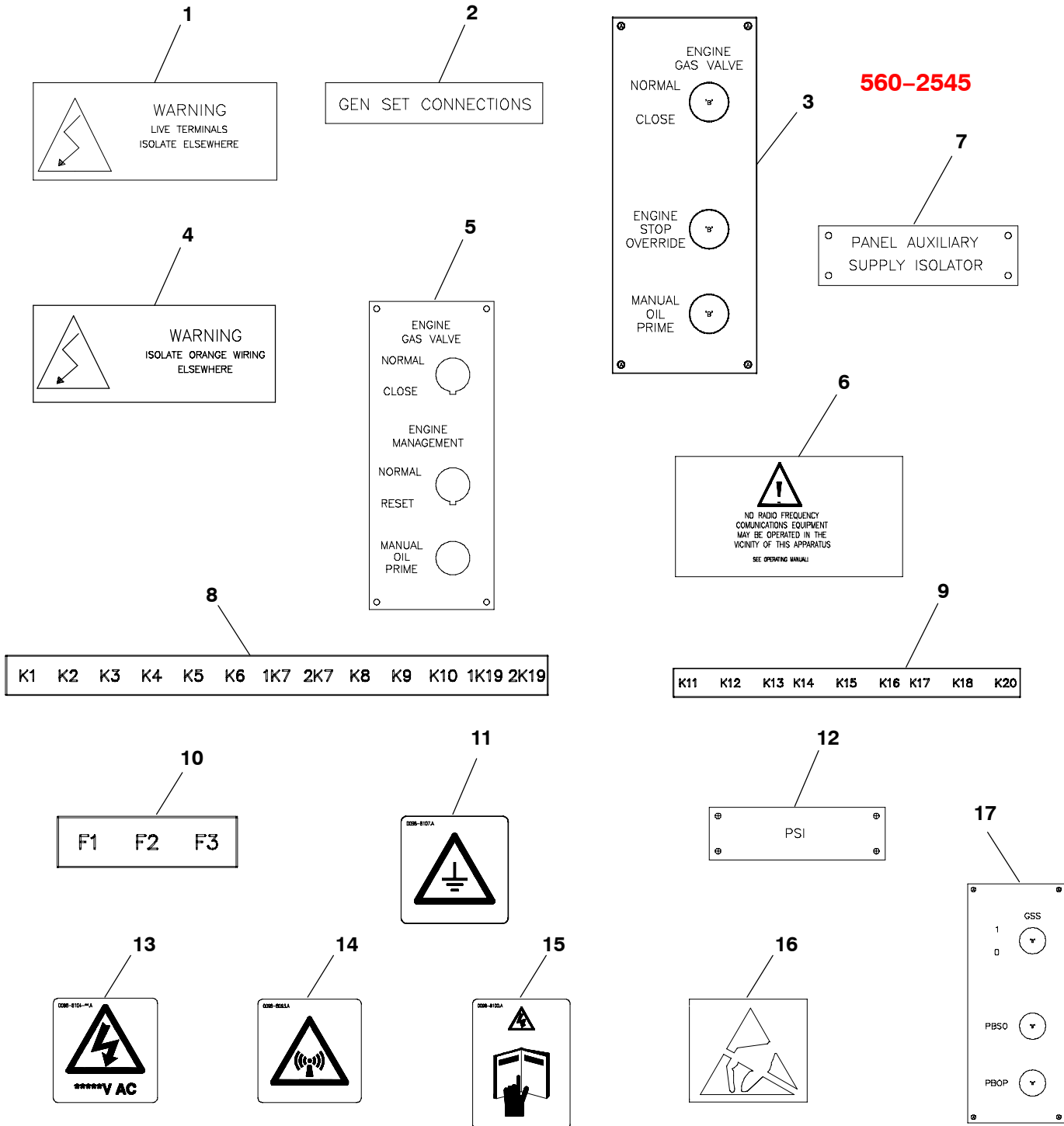
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0813	6	Relay – 2P, 24V W/Diode	4	249-0816	7	Relay – 1P Base
2	249-0814	6	Relay – 2P Base	5	332-3890	1	Block, Terminal – End Bracket
3	249-0815	7	Relay – 1P, 24V, 10A W/Diode	6	332-4085-02	1	Rail, Terminal Block – Plain

GCP Relay Assembly 2



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0813	6	Relay – 2P, 24V, 5A W/Diode	5	249-0819	3	Relay – Clip
2	249-0814	6	Relay – 2P, Base	6	305-1007	3	Rectifier Assembly
3	249-0817	3	Relay – 4P, 24V, 5A No Diode	7	332-3890	2	Block, Terminal – End Bracket
4	249-0818	3	Relay – 4P, Base	8	332-4085-02	1	Rail, Terminal Block

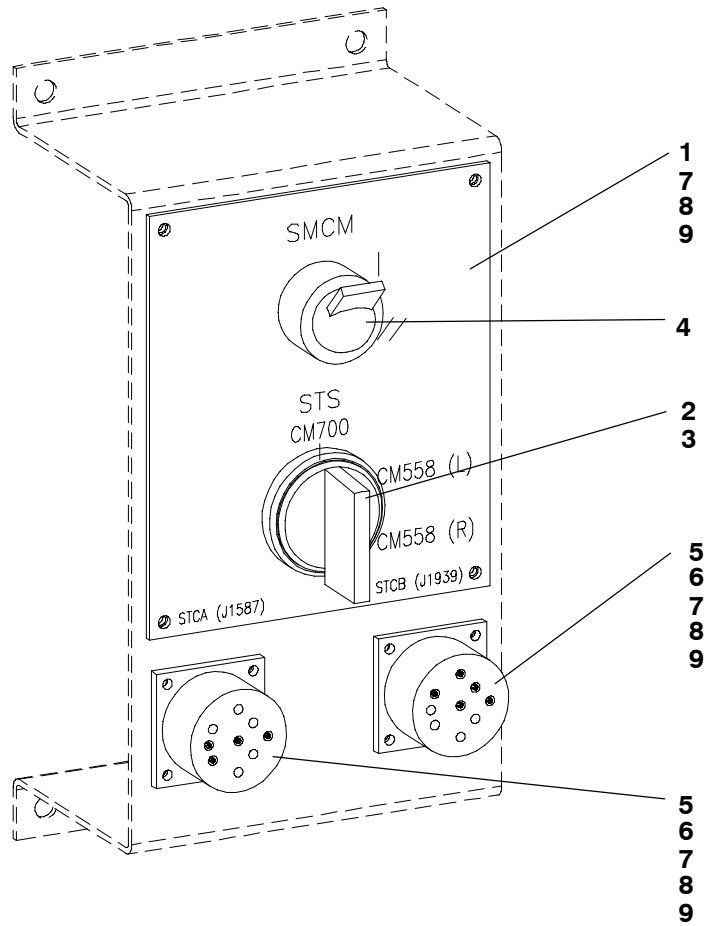
Gas Control Panel Labels



Gas Control Panel Labels

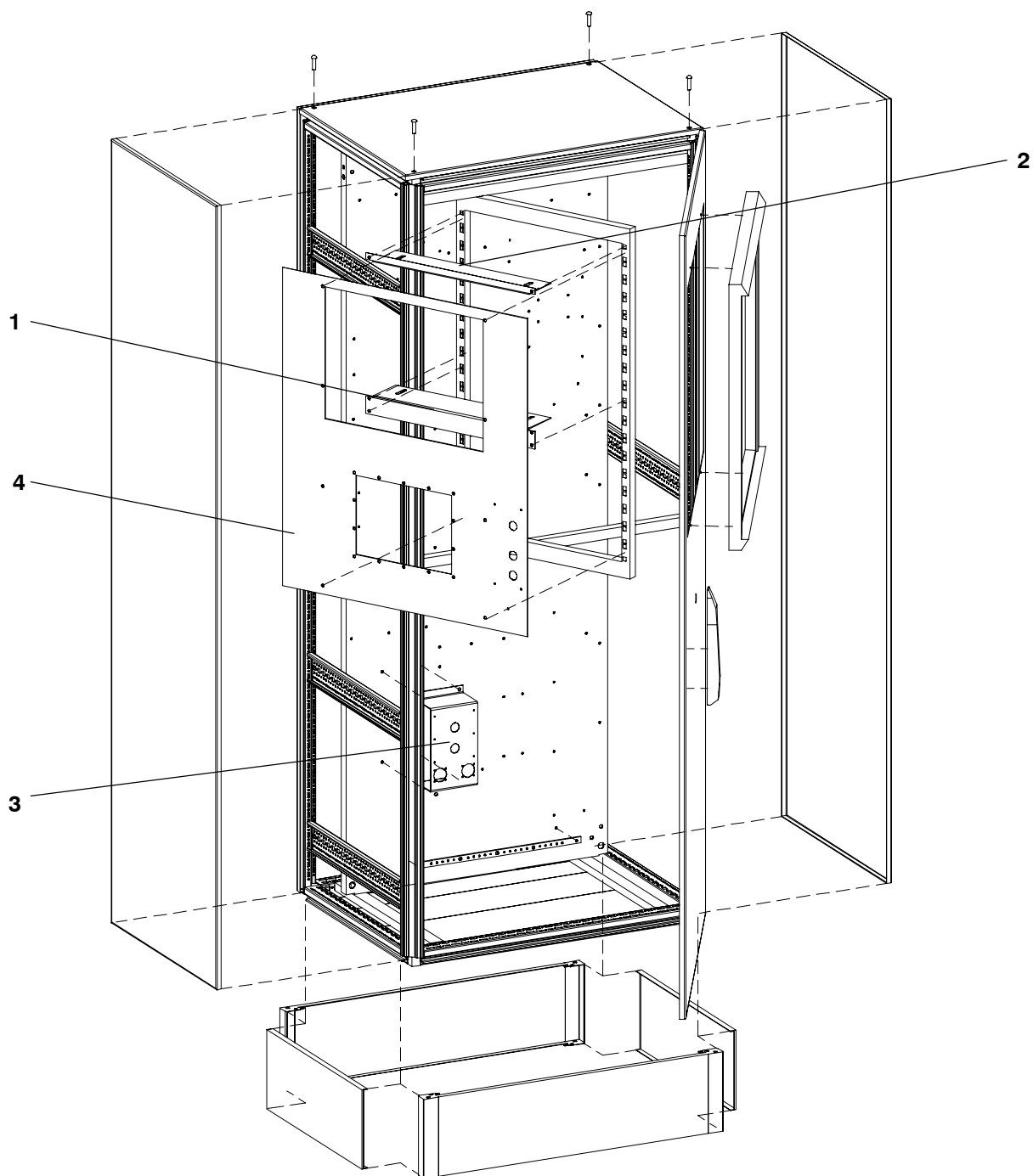
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8026	1	Label, Information – Customer Connections	9	098-8318	1	Label, Information – K11-K20
2	098-8027	1	Label, Information – Generator Connections	10	098-8317	1	Label, Information – F1-F3
3	098-8262	1	Label, Information – Engine Management	11	098-8107	1	Label, Information – Earth
4	098-8029	4	Label, Information – Isolate Orange Wiring Elsewhere	12	098-8550	1	Label, Information – PSI Drawing
5	098-8030	1	Label, Information – Panel AC Supply Isolator	13	098-8104-06	1	Label, Information – Voltage Warning
6	098-8031	1	Label, Information – RF Warning	14	098-8093	1	Label, Information – RF Warning
7	098-8032	1	Label, Information – Warning Live Terminals	15	098-8100	1	Label, Information – Service Manual Warning
8	098-8316	1	Label, Information – K1-2K19	16	098-8551	1	Label, Information – ESD Warning
				17	098-8552	1	Label, Information – Engine Gas Valve

Service Tool



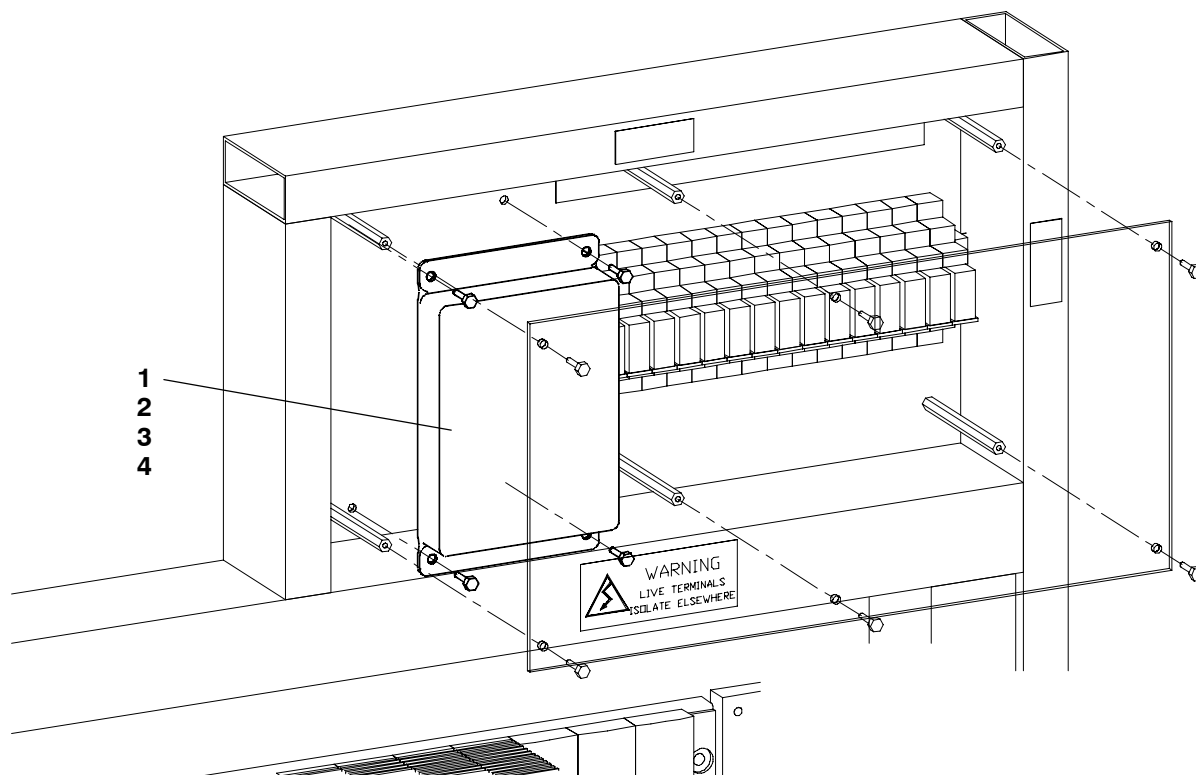
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8549	1	Label, Information	6	323-2057	2	Receptacle
2	308-1138	1	Switch, Rotary	7	800-0309-55	12	Screw, Hex Head (M2.5 x 20)
3	308-1139	1	Switch, Rocker	8	862-0026-50	12	Nut, Hex (M2.5)
4	308-1137	1	Switch, Toggle - 2 Position	9	562-0399-50	12	Washer, Flat
5	323-2028	9	Connector, Plug				

Cabinet Frame



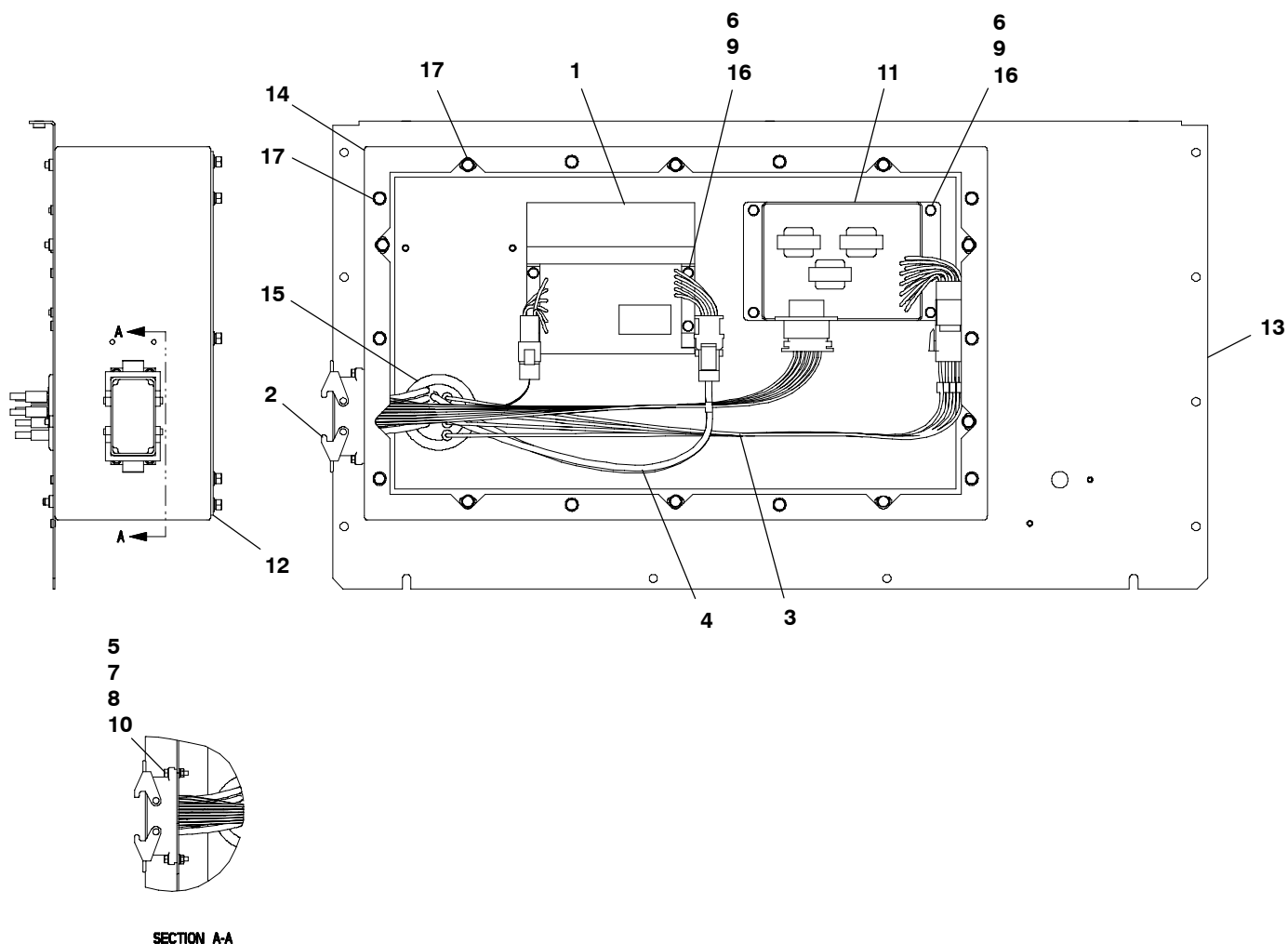
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4990-01	1	Bracket, Control Box – PCC Support	3	319-4745	1	Bracket, Control Box – Switch/Socket Mounting
2	319-4990-02	1	Bracket, Control Box – PCC Support	4	319-5990	1	Frame, Cabinet – GCP Swing Frame Facia

GCP L-L Bus



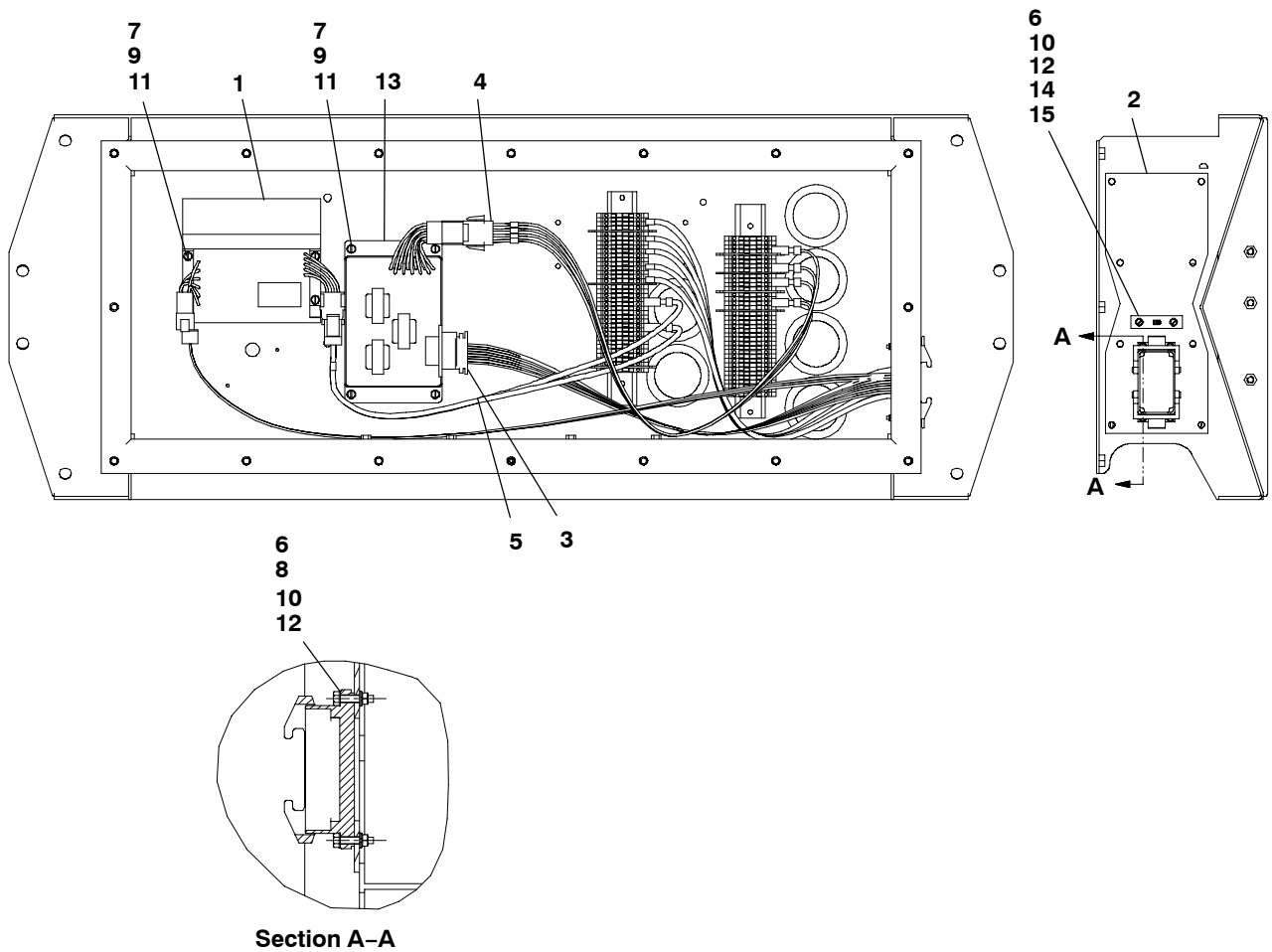
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Bus / First Start	2	800-0309-77	4	Screw, Hex Head (M4 x 20)
	300-4985-04	1	120V	3	526-0399-54	4	Washer, Flat (M4)
	300-4985-01	1	240V	4	850-0114-51	4	Washer, Lock – Spring (M4)
	300-4985-02	1	480V				
	300-4985-03	1	600V				

Control Panel



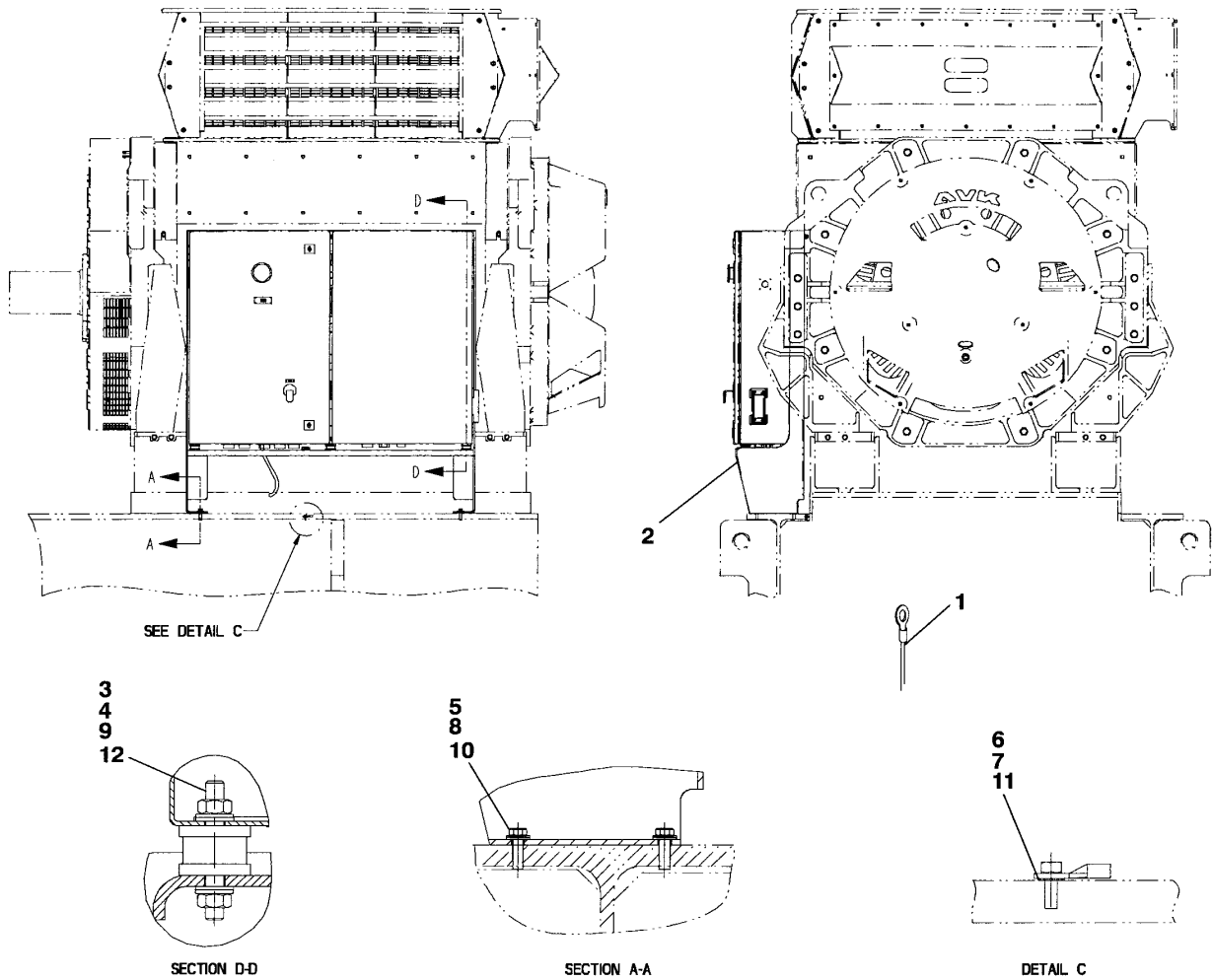
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4306	1	Regulator, Auto Volt	11			Board, Printed Circuit – PT/CT
2	338-4774	1	Harness, Alternator		300-4308-01	1	120V (MVP7)
3	338-4775	1	Harness, Alternator		300-4308-02	1	240V (380-480V)
4	338-4776	1	Harness, Alternator		300-4308-03	1	346V (600V)
5	526-0399-54	8	Washer, Flat (M4)	12	319-5374-02	1	Cover, Box – Alternator
6	526-0399-56	8	Washer, Flat (M5)	13			Panel, Control Box
7	800-0309-77	4	Screw, Cap – Hex Head (M4 x 0.8 x 20)		319-6197-02	1	P7
8	850-0114-51	4	Washer, Lock (M4)		319-6202-02	1	MVP7
9	850-0114-52	8	Washer, Lock (M5)	14	319-6218-02	1	Box, Control
10	862-0026-52	4	Nut, Hex (M4)	15	508-1119	1	Grommet
				16	800-0309-87	8	Screw, Cap – Hex Head (M5 x 0.8 x 10)
				17	821-6002-02	20	Screw, Cap – Hex Head (M6 x 1.0 x 12)

Control Panel



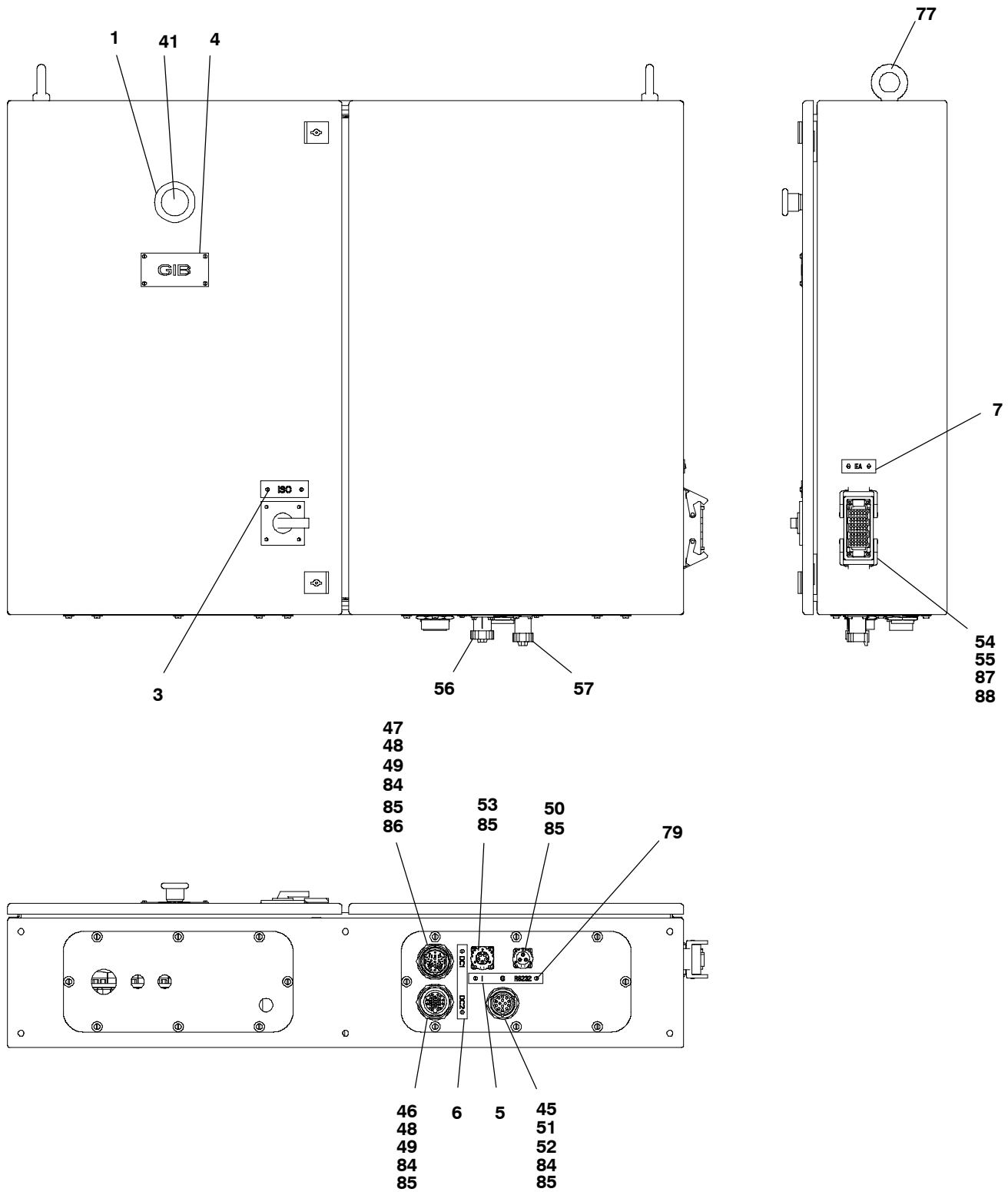
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4306	1	Regulator, Auto Volt	10	850-0114-51	6	Washer, Lock (M4)
2	319-6014-02	1	Plate, Mounting (Gland Plate)	11	850-0114-52	8	Washer, Lock (M5)
3	338-4680	1	Harness, Alternator	12	862-0026-52	6	Nut, Hex (M4)
4	338-4681	1	Harness, Alternator	13			Board, Printed Circuit - PT/CT
5	338-4682	1	Harness, Alternator		300-4308-01	1	120V (<15KV)
6	526-0399-54	12	Washer, Flat (M4)		300-4308-02	1	240V (380-480V)
7	526-0399-56	8	Washer, Flat (M5)		300-4308-03	1	346V (600V)
8	800-0309-77	4	Screw, Cap - Hex Head (M4 x 0.8 x 20)	14	338-4682	1	Harness, Alternator
9	815-1540-31	8	Screw, Slotted - Fillet Head (M5 x 8)	15	815-1540-20	2	Screw, Slotted - Fillet Head (M4 x 16)

GIB Box Fasteners



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	226-4929-02	1	Lead (Earth)	10	850-0114-55	4	Washer, Lock (M10)
2	319-6098-02	1	Bracket, Control Box	11	853-0040-54	2	Washer, Lock - W/ET (M8)
3	403-4916	8	Pad, Mounting	12	862-0026-55	16	Nut, Hex (M8)
4	526-0399-60	16	Washer, Flat (M8)				
5	526-0399-62	4	Washer, Flat (M10)				
6	800-3017-03	1	Screw, Hex Head (M6 x 1.0 x 16)				
7	800-3017-17	1	Screw, Hex Head (M8 x 1.25 x 12)				
8	800-3017-38	4	Screw, Hex Head (M10 x 1.5 x 30)				
9	850-0114-54	16	Washer, Lock (M8)				

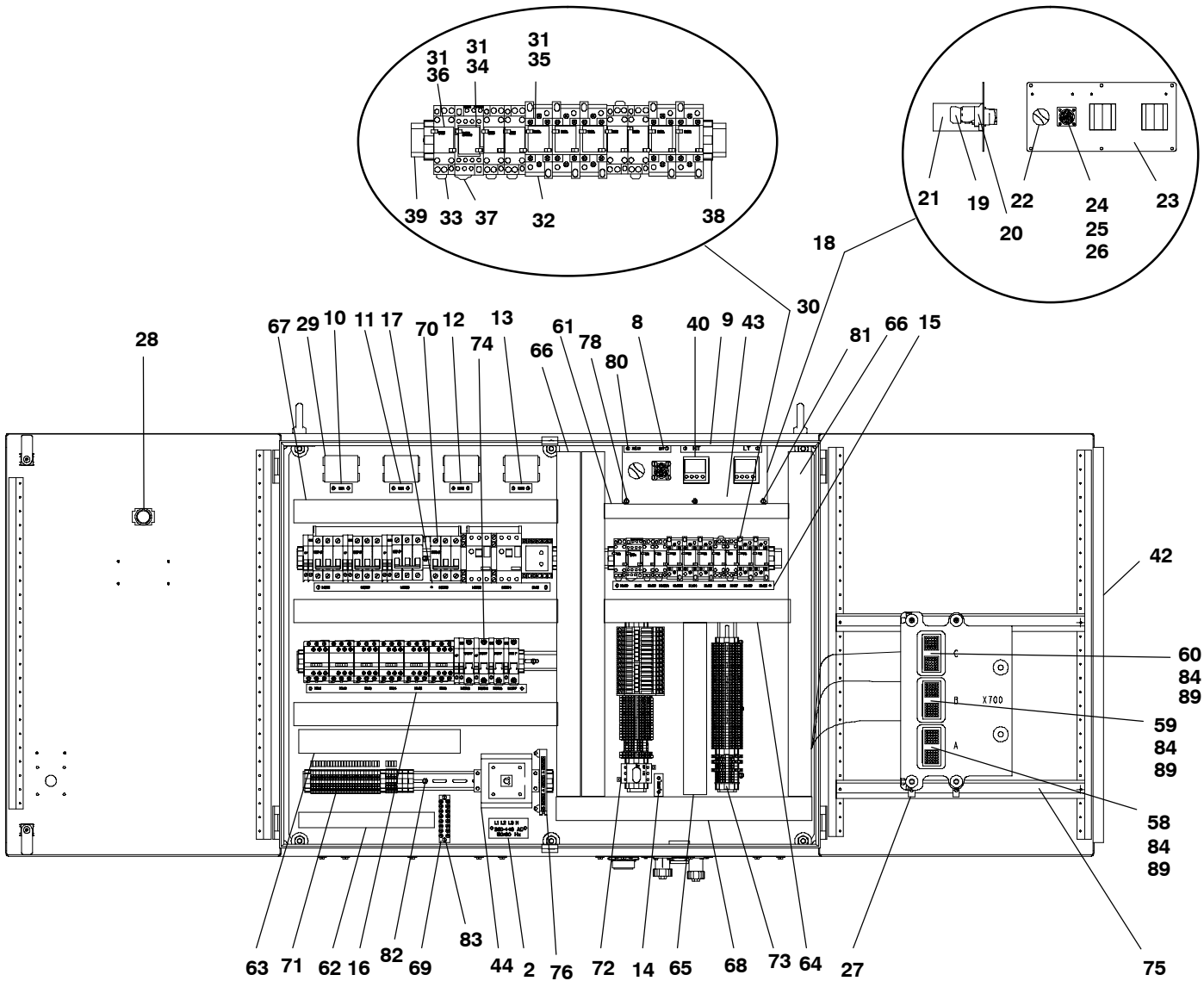
**GIB Box
380V-440V
(Illustration #1)**



GIB Box 380V-440V

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8238	1	Label, Unit ID	55	323-2403	1	Housing, Connector
2	098-8242	1	Label, Information	56	323-2420	1	Cap, Connector
3	098-8623	1	Label, Information	57	323-2421	1	Cap, Connector
4	098-8624	1	Label, Information	58	323-2022-01	1	Connector, Receptacle
5	098-8625	1	Label, Information	59	323-2022-02	1	Connector, Receptacle
6	098-8626	1	Label, Information	60	323-2022-03	1	Connector, Receptacle
7	098-8627	1	Label, Information	61	331-0634-01	1	Duct, Wiring
8	098-8628	1	Label, Information	62	331-0634-02	1	Duct, Wiring
9	098-8629	1	Label, Information	63	331-0635-02	1	Duct, Wiring
10	098-8630	1	Label, Information	64	331-0635-03	1	Duct, Wiring
11	098-8631	1	Label, Information	65	331-0635-04	1	Duct, Wiring
12	098-8632	1	Label, Information	66	331-0635-05	3	Duct, Wiring
13	098-8633	1	Label, Information	67	331-0635-06	3	Duct, Wiring
14	098-8634	1	Label, Information	68	331-0635-07	1	Duct, Wiring
15	098-8635	1	Label, Information	69	332-4224	1	Block, Terminal
16	098-8636	1	Label, Information	70	332-4226	1	Rail, Terminal Block – Assembly (See “A” on Separate Page for Components)
17	098-8637	1	Label, Information				
18	130-7205	1	Bracket, Thermostat (Includes Items 19 thru 26)	71	332-4227	1	Rail, Terminal Block – Assembly (See “B” on Separate Page for Components)
19	306-5256	2	Contact, Auxiliary				
20	306-5274	1	Contact, Auxiliary				
21	307-3120	2	Relay, Temperature				
22	308-1232	1	Switch, Rotary	72	332-4228	1	Rail, Terminal Block – Assembly (See “C” on Separate Page for Components)
23	319-6427	1	Plate, Mounting				
24	323-1591	1	Plug, Connector				
25	323-2020	4	Contact, Pin	73	332-4229	1	Rail, Terminal Block – Assembly (See “D” on Separate Page for Components)
26	323-2399	1	Connector, Receptacle				
27	306-4941	4	Bracket, Rail				
28	306-4944	1	Contact, Auxiliary	74	332-4230	1	Rail, Terminal Block – Assembly (See “E” on Separate Page for Components)
29	307-3100	4	Relay, Control – With Temp Control				
30	307-3110	1	Relay – Assembly (Includes Items 31 thru 39)				
31	249-0819	22	Clip, Relay				
32	307-3043	5	Base, Relay	75	332-4029-02	2	Rail, Terminal Block
33	307-3099	5	Base, Relay	76	337-3829	1	Bar, Neutral
34	307-3108	1	Relay	77	403-6469	2	Eye, Lifting
35	307-3109	5	Relay, Control	78	526-0399-54	76	Washer, Flat (M4)
36	307-3118	5	Relay, Control	79	815-1540-03	12	Screw, Slotted – Cheese Head (M3 x 4)
37	307-3119	1	Base, Relay				
38	332-4021	2	Block, Terminal – End Stop	80	815-1540-06	29	Screw, Slotted – Cheese Head (M3 x 12)
39	332-4218-03	1	Rail, Terminal Block				
40	307-3121	2	Relay, Temperature – With Temp Control	81	815-1540-18	14	Screw, Slotted – Cheese Head (M4 x 10)
41	308-1186	1	Switch, Push Button				
42	319-6353	1	Box, Terminal	82	815-1540-19	62	Screw, Slotted – Cheese Head (M4 x 12)
43	319-6428	1	Bracket, Thermostat				
44	320-2398	1	Switch, Disconnect	83	815-1540-22	2	Screw, Slotted – Cheese Head (M4 x 25)
45	323-2122	1	Connector, Receptacle				
46	323-2124	1	Connector, Receptacle	84	323-2023	72	Seal, Connector
47	323-2125	1	Connector, Receptacle	85	323-2020	51	Pin, Contact
48	323-2126	2	Lock, Connector	86	323-2120	40	Pin, Contact
49	323-2127	2	Lock, Connector	87	323-2414	44	Pin, Contact
50	323-2144	1	Connector, Receptacle	88	323-2415	2	Pin, Contact
51	323-2147	1	Lock, Connector	89	323-2021	87	Pin, Contact
52	323-2148	1	Lock, Connector	90	323-1591	20	Seal, Connector
53	323-2399	1	Connector, Receptacle	91	350-1245	4	Resistor (120 Ohm)
54	323-2402	1	Connector, Receptacle				

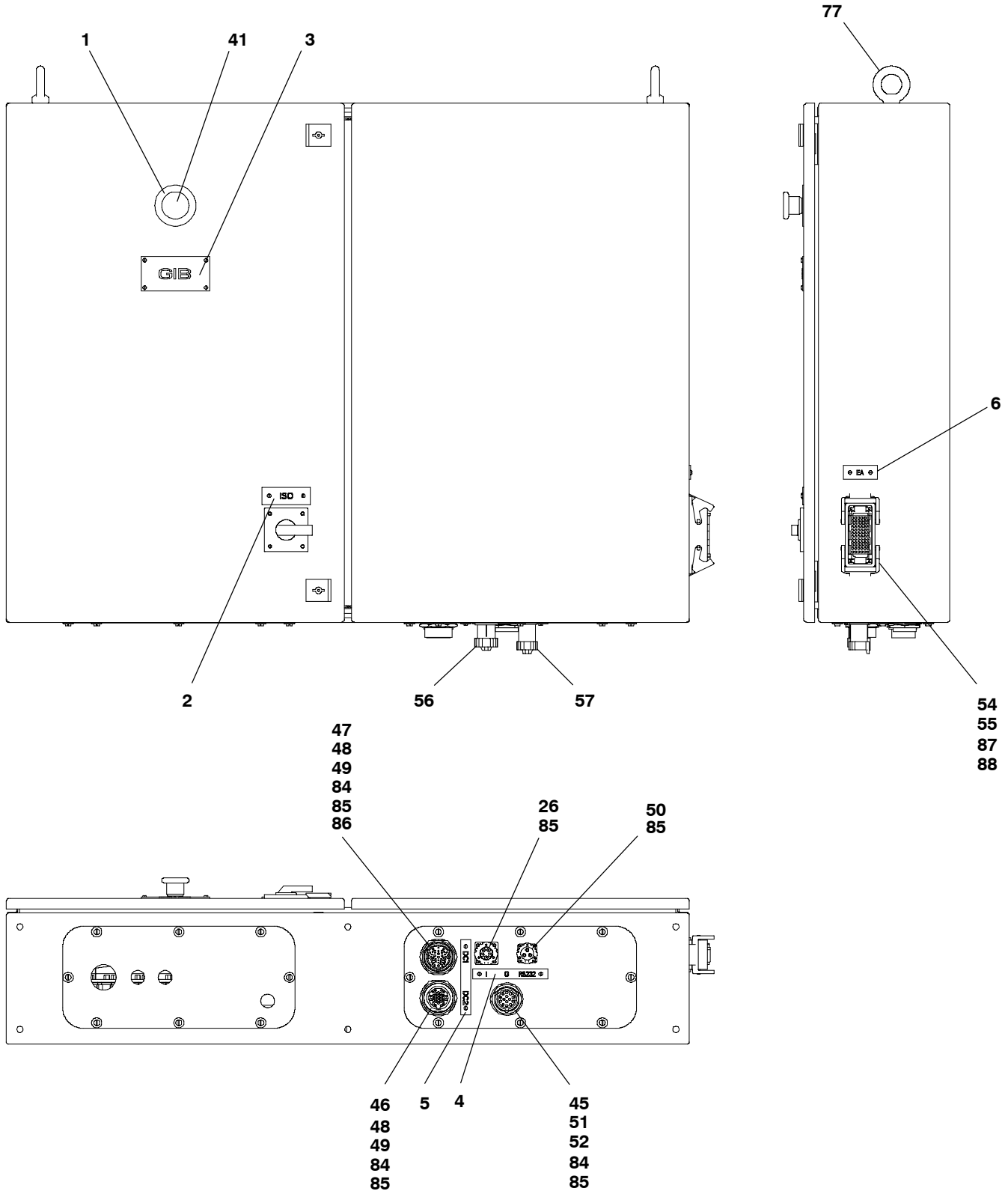
**GIB Box
380V-440V
(Illustration #2)**



GIB Box 380V–440V

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8238	1	Label, Unit ID	55	323-2403	1	Housing, Connector
2	098-8242	1	Label, Information	56	323-2420	1	Cap, Connector
3	098-8623	1	Label, Information	57	323-2421	1	Cap, Connector
4	098-8624	1	Label, Information	58	323-2022-01	1	Connector, Receptacle
5	098-8625	1	Label, Information	59	323-2022-02	1	Connector, Receptacle
6	098-8626	1	Label, Information	60	323-2022-03	1	Connector, Receptacle
7	098-8627	1	Label, Information	61	331-0634-01	1	Duct, Wiring
8	098-8628	1	Label, Information	62	331-0634-02	1	Duct, Wiring
9	098-8629	1	Label, Information	63	331-0635-02	1	Duct, Wiring
10	098-8630	1	Label, Information	64	331-0635-03	1	Duct, Wiring
11	098-8631	1	Label, Information	65	331-0635-04	1	Duct, Wiring
12	098-8632	1	Label, Information	66	331-0635-05	3	Duct, Wiring
13	098-8633	1	Label, Information	67	331-0635-06	3	Duct, Wiring
14	098-8634	1	Label, Information	68	331-0635-07	1	Duct, Wiring
15	098-8635	1	Label, Information	69	332-4224	1	Block, Terminal
16	098-8636	1	Label, Information	70	332-4226	1	Rail, Terminal Block – Assembly (See “A” on Separate Page for Components)
17	098-8637	1	Label, Information				
18	130-7205	1	Bracket, Thermostat (Includes Items 19 thru 26)	71	332-4227	1	Rail, Terminal Block – Assembly (See “B” on Separate Page for Components)
19	306-5256	2	Contact, Auxiliary				
20	306-5274	1	Contact, Auxiliary				
21	307-3120	2	Relay, Temperature				
22	308-1232	1	Switch, Rotary	72	332-4228	1	Rail, Terminal Block – Assembly (See “C” on Separate Page for Components)
23	319-6427	1	Plate, Mounting				
24	323-1591	1	Plug, Connector				
25	323-2020	4	Contact, Pin				
26	323-2399	1	Connector, Receptacle	73	332-4229	1	Rail, Terminal Block – Assembly (See “D” on Separate Page for Components)
27	306-4941	4	Bracket, Rail				
28	306-4944	1	Contact, Auxiliary				
29	307-3100	4	Relay, Control – 380–44V, 3ph 4W, With Temp Control	74	332-4230	1	Rail, Terminal Block – Assembly (See “E” on Separate Page for Components)
30	307-3110	1	Relay – Assembly (Includes Items 31 thru 39)				
31	249-0819	22	Clip, Relay				
32	307-3043	5	Base, Relay	75	332-4229-02	2	Rail, Terminal Block
33	307-3099	5	Base, Relay	76	337-3829	1	Bar, Neutral
34	307-3108	1	Relay	77	403-6469	2	Eye, Lifting
35	307-3109	5	Relay, Control	78	526-0399-54	76	Washer, Flat (M4)
36	307-3118	5	Relay, Control	79	815-1540-03	12	Screw, Slotted – Cheese Head (M3 x 4)
37	307-3119	1	Base, Relay				
38	332-4021	2	Block, Terminal – End Stop	80	815-1540-06	29	Screw, Slotted – Cheese Head (M3 x 12)
39	332-4218-03	1	Rail, Terminal Block	81	815-1540-18	14	Screw, Slotted – Cheese Head (M4 x 10)
40	307-3121	2	Relay, Temperature – 380–44V, 3ph 4W, With Temp Control	82	815-1540-19	62	Screw, Slotted – Cheese Head (M4 x 12)
41	308-1186	1	Switch, Push Button	83	815-1540-22	2	Screw, Slotted – Cheese Head (M4 x 25)
42	319-6353	1	Box, Terminal				
43	319-6428	1	Bracket, Thermostat	84	323-2023	72	Seal, Connector
44	320-2398	1	Switch, Disconnect	85	323-2020	51	Pin, Contact
45	323-2122	1	Connector, Receptacle	86	323-2120	40	Pin, Contact
46	323-2124	1	Connector, Receptacle	87	323-2414	44	Pin, Contact
47	323-2125	1	Connector, Receptacle	88	323-2415	2	Pin, Contact
48	323-2126	2	Lock, Connector	89	323-2021	87	Pin, Contact
49	323-2127	2	Lock, Connector	90	323-1591	20	Seal, Connector (Not Shown)
50	323-2144	1	Connector, Receptacle	91	350-1245	4	Resistor (120 Ohm) (Not Shown)
51	323-2147	1	Lock, Connector				
52	323-2148	1	Lock, Connector				
53	323-2399	1	Connector, Receptacle				
54	323-2402	1	Connector, Receptacle				

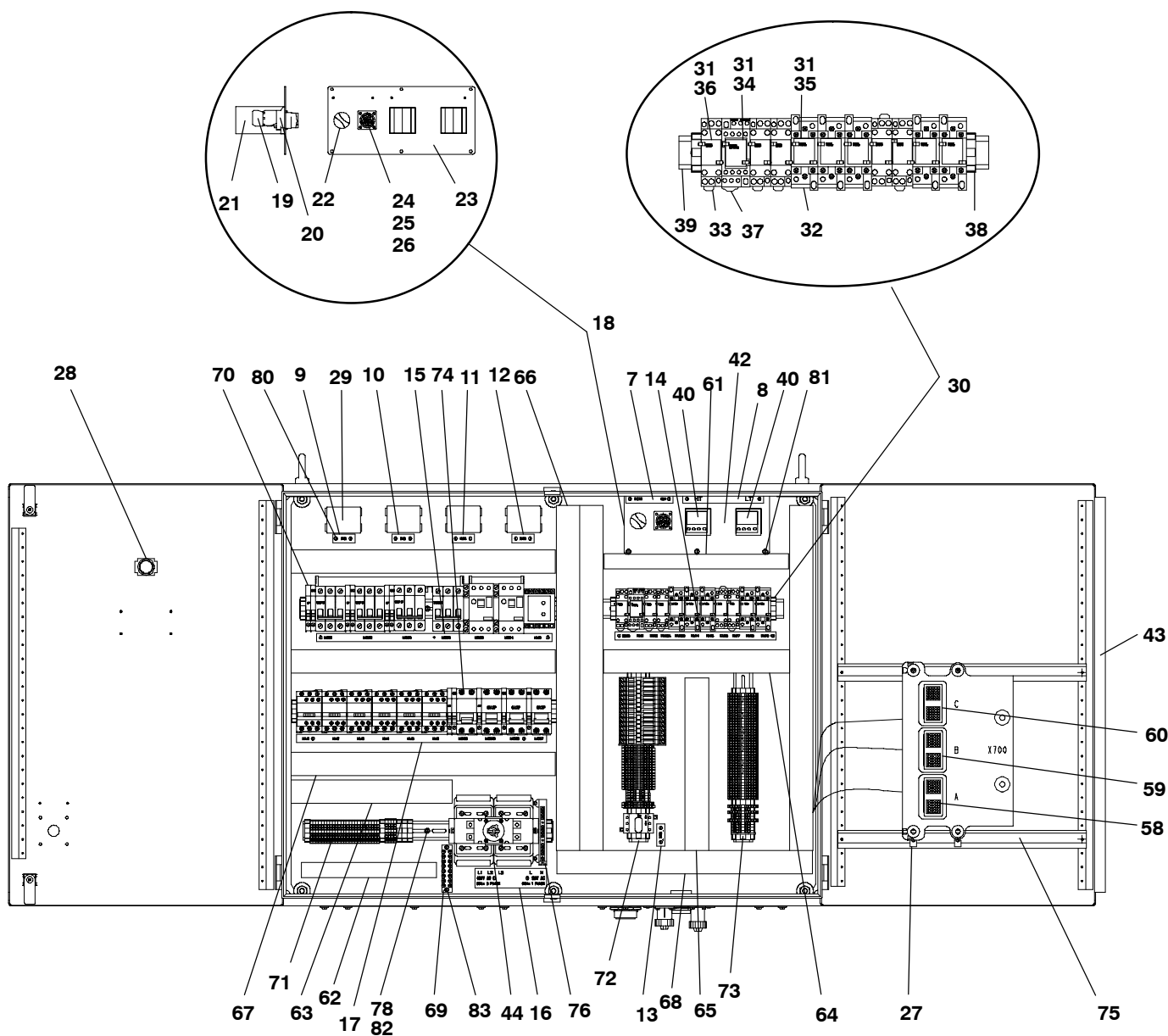
GIB Box 480V (Illustration #1)



GIB Box 480V

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8238	1	Label, Unit ID	55	323-2403	1	Housing, Connector
2	098-8623	1	Label, Information	56	323-2420	1	Cap, Connector
3	098-8624	1	Label, Information	57	323-2421	1	Cap, Connector
4	098-8625	1	Label, Information	58	323-2022-01	1	Connector, Receptacle
5	098-8626	1	Label, Information	59	323-2022-02	1	Connector, Receptacle
6	098-8627	1	Label, Information	60	323-2022-03	1	Connector, Receptacle
7	098-8628	1	Label, Information	61	331-0634-01	1	Duct, Wiring
8	098-8629	1	Label, Information	62	331-0634-02	1	Duct, Wiring
9	098-8630	1	Label, Information	63	331-0635-02	1	Duct, Wiring
10	098-8631	1	Label, Information	64	331-0635-03	1	Duct, Wiring
11	098-8632	1	Label, Information	65	331-0635-04	1	Duct, Wiring
12	098-8633	1	Label, Information	66	331-0635-05	3	Duct, Wiring
13	098-8634	1	Label, Information	67	331-0635-06	3	Duct, Wiring
14	098-8635	1	Label, Information	68	331-0635-07	1	Duct, Wiring
15	098-8637	1	Label, Information	69	332-4224	1	Block, Terminal
16	098-8658	1	Label, Information	70	332-4226	1	Rail, Terminal Block – Assembly (See “A” on Separate Page for Components)
17	098-8697	1	Label, Information				
18	130-7205	1	Bracket, Thermostat (Includes Items 19 thru 26)	71	332-4227	1	Rail, Terminal Block – Assembly (See “B” on Separate Page for Components)
19	306-5256	2	Contact, Auxiliary				
20	306-5274	1	Contact, Auxiliary				
21	307-3120	2	Relay, Temperature				
22	308-1232	1	Switch, Rotary	72	332-4228	1	Rail, Terminal Block – Assembly (See “C” on Separate Page for Components)
23	319-6427	1	Plate, Mounting				
24	323-1591	1	Plug, Connector				
25	323-2020	4	Contact, Pin	73	332-4229	1	Rail, Terminal Block – Assembly (See “D” on Separate Page for Components)
26	323-2399	1	Connector, Receptacle				
27	306-4941	4	Bracket, Rail				
28	306-4944	1	Contact, Auxiliary	74	332-4239	1	Rail, Terminal Block – Assembly (See “F” on Separate Page for Components)
29	307-3100	4	Relay, Control – With Temp Control				
30	307-3110	1	Relay – Assembly (Includes Items 31 thru 39)				
31	249-0819	22	Clip, Relay				
32	307-3043	5	Base, Relay	75	332-4029-02	2	Rail, Terminal Block
33	307-3099	5	Base, Relay	76	337-3829	1	Bar, Neutral
34	307-3108	1	Relay	77	403-6469	2	Eye, Lifting
35	307-3109	5	Relay, Control	78	526-0399-54	71	Washer, Flat (M4)
36	307-3118	5	Relay, Control	79	815-1540-03	12	Screw, Slotted – Cheese Head (M3 x 4) (Not Shown)
37	307-3119	1	Base, Relay				
38	332-4021	2	Block, Terminal – End Stop	80	815-1540-06	22	Screw, Slotted – Cheese Head (M3 x 12)
39	332-4218-03	1	Rail, Terminal Block				
40	307-3121	2	Relay, Temperature – With Temp Control	81	815-1540-18	14	Screw, Slotted – Cheese Head (M4 x 10)
41	308-1186	1	Switch, Push Button				
42	319-6428	1	Bracket, Thermostat	82	815-1540-19	64	Screw, Slotted – Cheese Head (M4 x 12)
43	319-6553	1	Box, Terminal				
44	320-2416	1	Switch, Disconnect	83	815-1540-22	2	Screw, Slotted – Cheese Head (M4 x 25)
45	323-2122	1	Connector, Receptacle				
46	323-2124	1	Connector, Receptacle	84	323-2023	71	Seal, Connector
47	323-2125	1	Connector, Receptacle	85	323-2020	87	Pin, Contact
48	323-2126	2	Lock, Connector	86	323-2120	65	Pin, Contact
49	323-2127	2	Lock, Connector	87	323-2414	44	Pin, Contact
50	323-2144	1	Connector, Receptacle	88	323-2415	2	Pin, Contact
51	323-2147	1	Lock, Connector	89	323-2021	87	Pin, Contact (Not Shown)
52	323-2148	1	Lock, Connector	90	323-1591	20	Seal, Connector (Not Shown)
53	323-2399	1	Connector, Receptacle	91	350-1245	4	Resistor (120 Ohm) (Not Shown)
54	323-2402	1	Connector, Receptacle				

GIB Box 480V (Illustration #2)

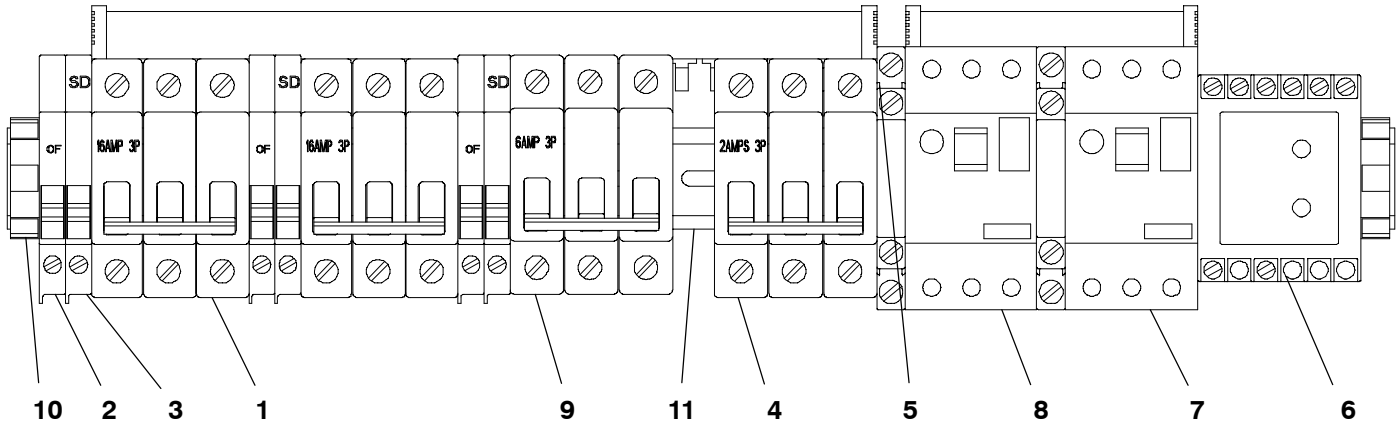


GIB Box 480V

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8238	1	Label, Unit ID	56	323-2420	1	Cap, Connector
2	098-8623	1	Label, Information	57	323-2421	1	Cap, Connector
3	098-8624	1	Label, Information	58	323-2022-01	1	Connector, Receptacle
4	098-8625	1	Label, Information	59	323-2022-02	1	Connector, Receptacle
5	098-8626	1	Label, Information	60	323-2022-03	1	Connector, Receptacle
6	098-8627	1	Label, Information	61	331-0634-01	1	Duct, Wiring
7	098-8628	1	Label, Information	62	331-0634-02	1	Duct, Wiring
8	098-8629	1	Label, Information	63	331-0635-02	1	Duct, Wiring
9	098-8630	1	Label, Information	64	331-0635-03	1	Duct, Wiring
10	098-8631	1	Label, Information	65	331-0635-04	1	Duct, Wiring
11	098-8632	1	Label, Information	66	331-0635-05	3	Duct, Wiring
12	098-8633	1	Label, Information	67	331-0635-06	3	Duct, Wiring
13	098-8634	1	Label, Information	68	331-0635-07	1	Duct, Wiring
14	098-8635	1	Label, Information	69	332-4224	1	Block, Terminal
15	098-8637	1	Label, Information	70	332-4226	1	Rail, Terminal Block – Assembly (See “A” on Separate Page for Components)
16	098-8658	1	Label, Information	71	332-4227	1	Rail, Terminal Block – Assembly (See “B” on Separate Page for Components)
17	098-8697	1	Label, Information	72	332-4228	1	Rail, Terminal Block – Assembly (See “C” on Separate Page for Components)
18	130-7205	1	Bracket, Thermostat (Includes Items 19 thru 26)	73	332-4229	1	Rail, Terminal Block – Assembly (See “D” on Separate Page for Components)
19	306-5256	2	Contact, Auxiliary	74	332-4239	1	Rail, Terminal Block – Assembly (See “F” on Separate Page for Components)
20	306-5274	1	Contact, Auxiliary	75	332-4029-02	2	Rail, Terminal Block
21	307-3120	2	Relay, Temperature	76	337-3829	1	Bar, Neutral
22	308-1232	1	Switch, Rotary	77	403-6469	2	Eye, Lifting
23	319-6427	1	Plate, Mounting	78	526-0399-54	71	Washer, Flat (M4)
24	323-1591	1	Plug, Connector	79	815-1540-03	12	Screw, Slotted – Cheese Head (M3 x 4) (Not Shown)
25	323-2020	4	Contact, Pin	80	815-1540-06	22	Screw, Slotted – Cheese Head (M3 x 12)
26	323-2399	1	Connector, Receptacle	81	815-1540-18	14	Screw, Slotted – Cheese Head (M4 x 10)
27	306-4941	4	Bracket, Rail	82	815-1540-19	64	Screw, Slotted – Cheese Head (M4 x 12)
28	306-4944	1	Contact, Auxiliary	83	815-1540-22	2	Screw, Slotted – Cheese Head (M4 x 25)
29	307-3100	4	Relay, Control – With Temp Control	84	323-2023	71	Seal, Connector
30	307-3110	1	Relay – Assembly (Includes Items 31 thru 39)	85	323-2020	87	Pin, Contact
31	249-0819	22	Clip, Relay	86	323-2120	65	Pin, Contact
32	307-3043	5	Base, Relay	87	323-2414	44	Pin, Contact
33	307-3099	5	Base, Relay	88	323-2415	2	Pin, Contact
34	307-3108	1	Relay	89	323-2021	87	Pin, Contact (Not Shown)
35	307-3109	5	Relay, Control	90	323-1591	20	Seal, Connector (Not Shown)
36	307-3118	5	Relay, Control	91	350-1245	4	Resistor (120 Ohm) (Not Shown)
37	307-3119	1	Base, Relay				
38	332-4021	2	Block, Terminal – End Stop				
39	332-4218-03	1	Rail, Terminal Block				
40	307-3121	2	Relay, Temperature – With Temp Control				
41	308-1186	1	Switch, Push Button				
42	319-6428	1	Bracket, Thermostat				
43	319-6553	1	Box, Terminal				
44	320-2416	1	Switch, Disconnect				
45	323-2122	1	Connector, Receptacle				
46	323-2124	1	Connector, Receptacle				
47	323-2125	1	Connector, Receptacle				
48	323-2126	2	Lock, Connector				
49	323-2127	2	Lock, Connector				
50	323-2144	1	Connector, Receptacle				
51	323-2147	1	Lock, Connector				
52	323-2148	1	Lock, Connector				
53	323-2399	1	Connector, Receptacle				
54	323-2402	1	Connector, Receptacle				
55	323-2403	1	Housing, Connector				

GIB Terminal Block Assembly

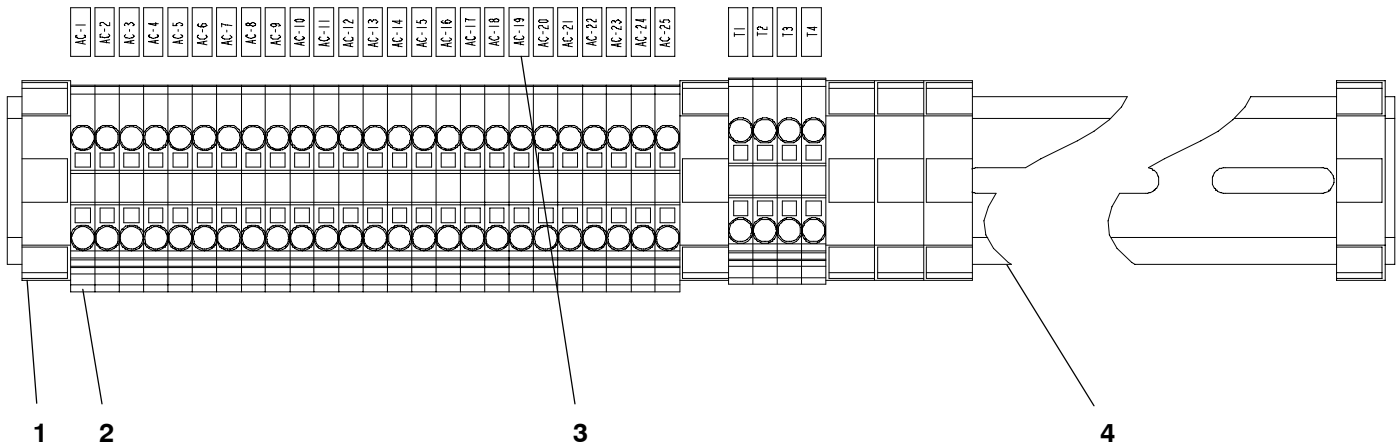
“A”



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	332-4226	1	Rail, Terminal Block – Assembly	6	307-3048	1	Relay, Voltage
1	249-0836	2	MCB, 16A 3P	7	320-2248	1	Breaker, Circuit
2	249-0838	3	Switch, MCB Auxiliary	8	320-2268	1	Breaker, Circuit
3	249-0839	3	Switch, Auxiliary Trip	9	320-2408	1	Breaker, Circuit
4	249-0845	1	Breaker, Miniature Circuit – 2A, 3P	10	332-4021	2	Block, Terminal – End Stop
5	306-5210	2	Contact, Auxiliary	11	332-4218-01	1	Rail, Terminal Block
				12	337-3894	2	Bar, Bus (Not Shown)

GIB Terminal Block Assembly

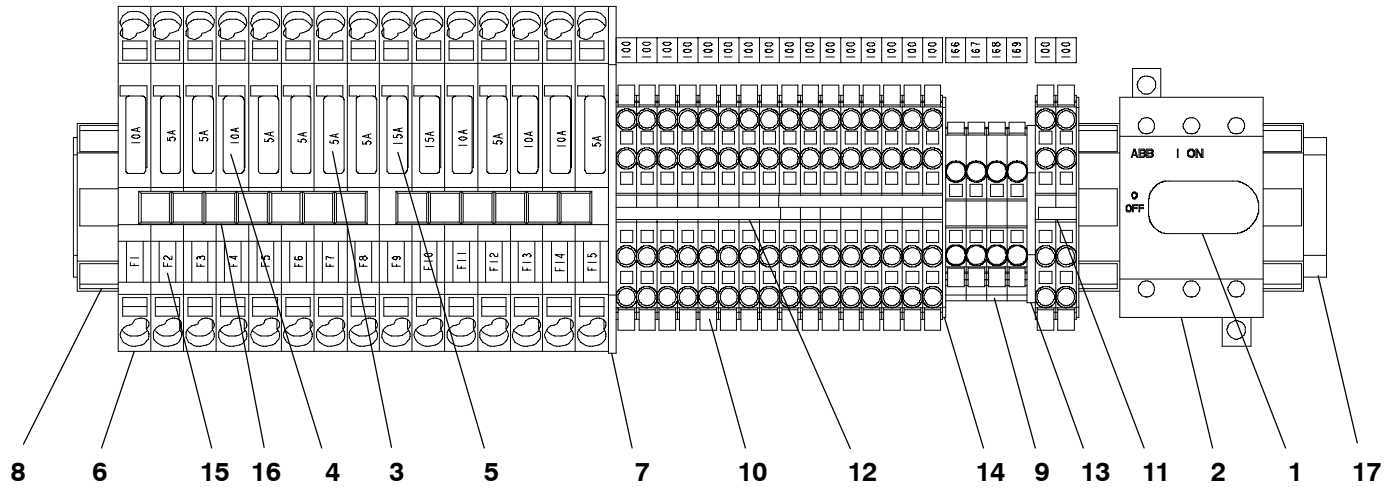
“B”



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	332-4227	1	Rail, Terminal Block – Assembly	2	332-3923-01	29	Block, Terminal – Wago
1	332-4021	6	Block, Terminal – End Stop	3	332-3939-17	58	Tag, Identification – Terminal
				4	332-4218-02	1	Rail, Terminal Block

GIB Terminal Block Assembly

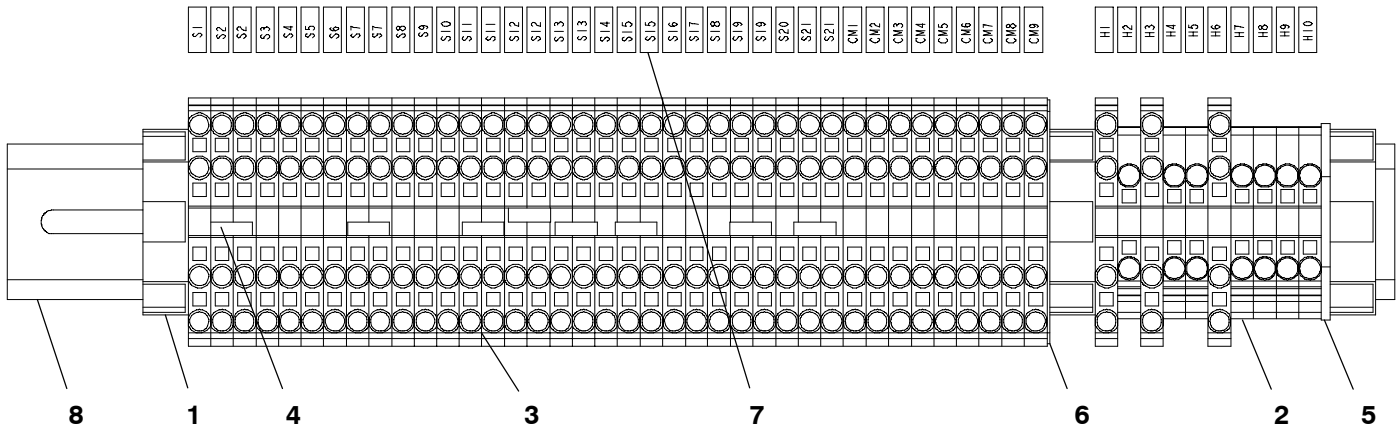
“C”



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	332-4228	1	Rail, Terminal Block – Assembly	9	332-3923-01	4	Block, Terminal – Wago
1	308-1233	1	Knob, Switch	10	332-3923-03	18	Block, Terminal – Wago
2	320-2397	1	Switch, Disconnect	11	332-3925-01	1	Jumper, Terminal
3	321-0307-03	8	Fuse, 5A	12	332-3925-07	2	Jumper, Terminal
4	321-0307-05	5	Fuse, 10A	13	332-3927-01	1	Block, Terminal
5	321-0307-06	2	Fuse, 15A	14	332-3927-03	2	Block, Terminal – End Plate
6	332-3936	15	Block, Terminal – Fuse	15	332-3939-17	59	Tag, Identification
7	332-3937	1	Block, Terminal – End Plate	16	332-3943-03	13	Jumper, Terminal
8	332-4021	3	Block, Terminal – End Stop	17	332-4218-04	1	Rail, Terminal Block

GIB Terminal Block Assembly

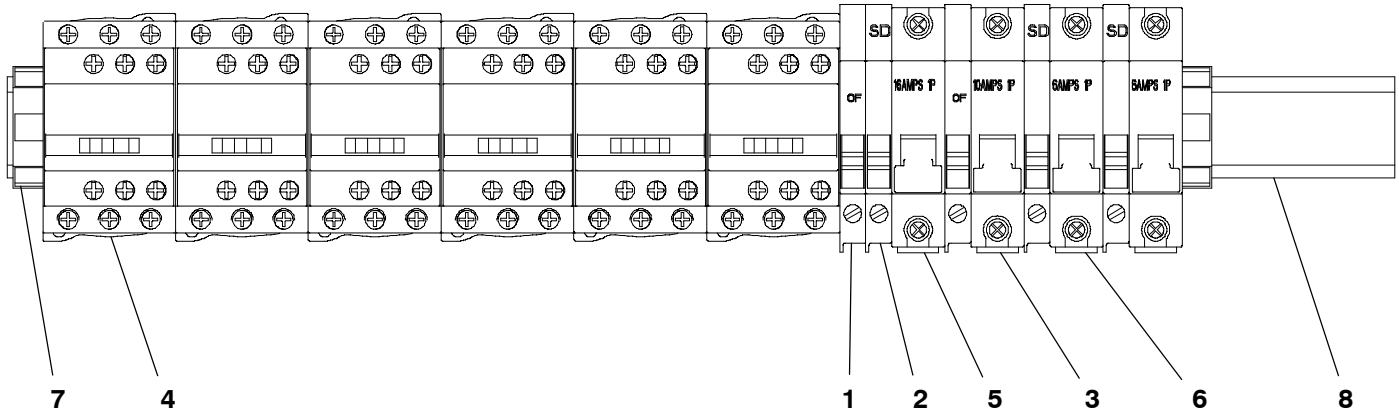
“D”



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	332-4229	1	Rail, Terminal Block – Assembly	4	332-3925-01	8	Jumper, Terminal
1	332-4021	3	Block, Terminal – End Stop	5	332-3927-01	1	Block, Terminal
2	332-3923-01	7	Block, Terminal – Wago	6	332-3927-03	1	Block, Terminal – End Plate
3	332-3923-03	41	Block, Terminal – Wago	7	332-3939-17	96	Tag, Identification
				8	332-4218-04	1	Rail, Terminal Block

GIB Terminal Block Assembly

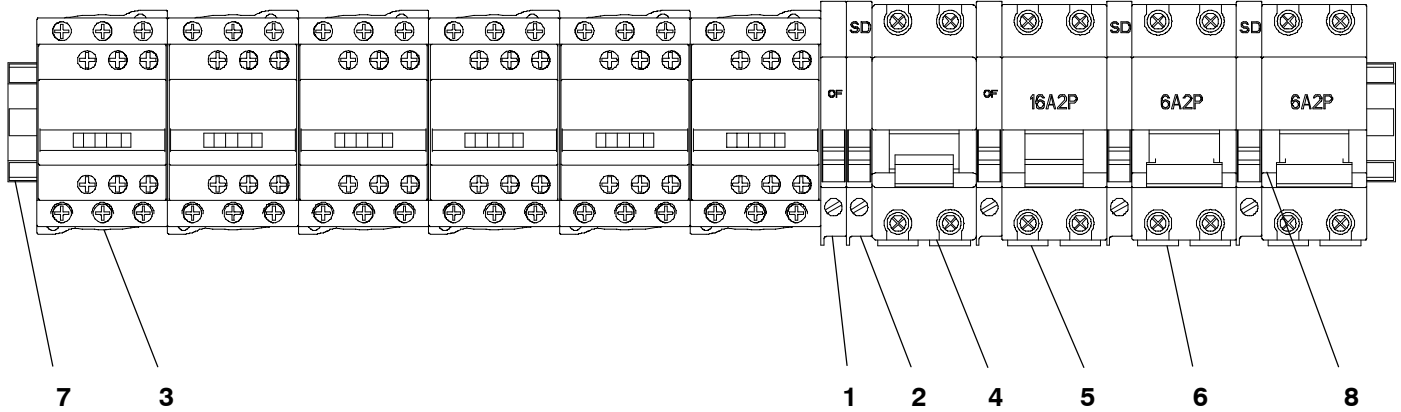
“E”



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	332-4230	1	Rail, Terminal Block – Assembly	4	306-4945	6	Contactor (LC1-D09BD)
1	249-0838	2	Switch, MCB Auxiliary	5	320-2269	1	Breaker, Circuit
2	249-0839	3	Switch, Auxiliary Trip	6	320-2393	2	Breaker, Circuit
3	249-0846	1	Breaker, Miniature Circuit – 10A 1P	7	332-4021	2	Block, Terminal – End Stop
				8	332-4218-01	1	Rail, Terminal Block

GIB Terminal Block Assembly

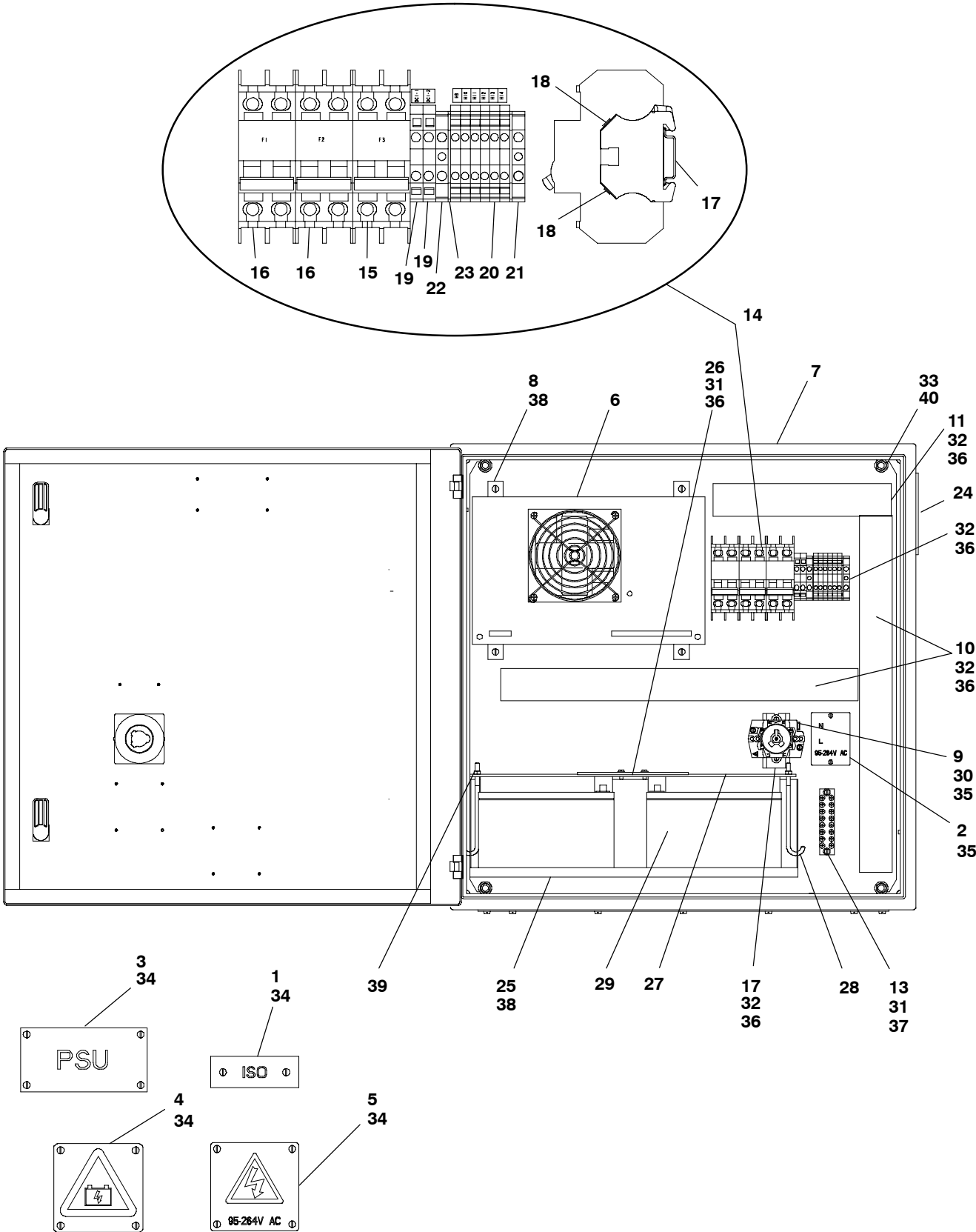
“F”



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	332-4239	1	Rail, Terminal Block – Assembly
1	249-0838	2	Switch, MCB Auxiliary
2	249-0839	3	Switch, Auxiliary Trip
3	306-4945	6	Contactor (LC1-D09BD)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	320-2257	1	Breaker, Circuit
5	320-2414	1	Breaker, Circuit
6	320-2415	2	Breaker, Circuit
7	332-4021	2	Block, Terminal – End Stop
8	332-4218-05	1	Rail, Terminal Block

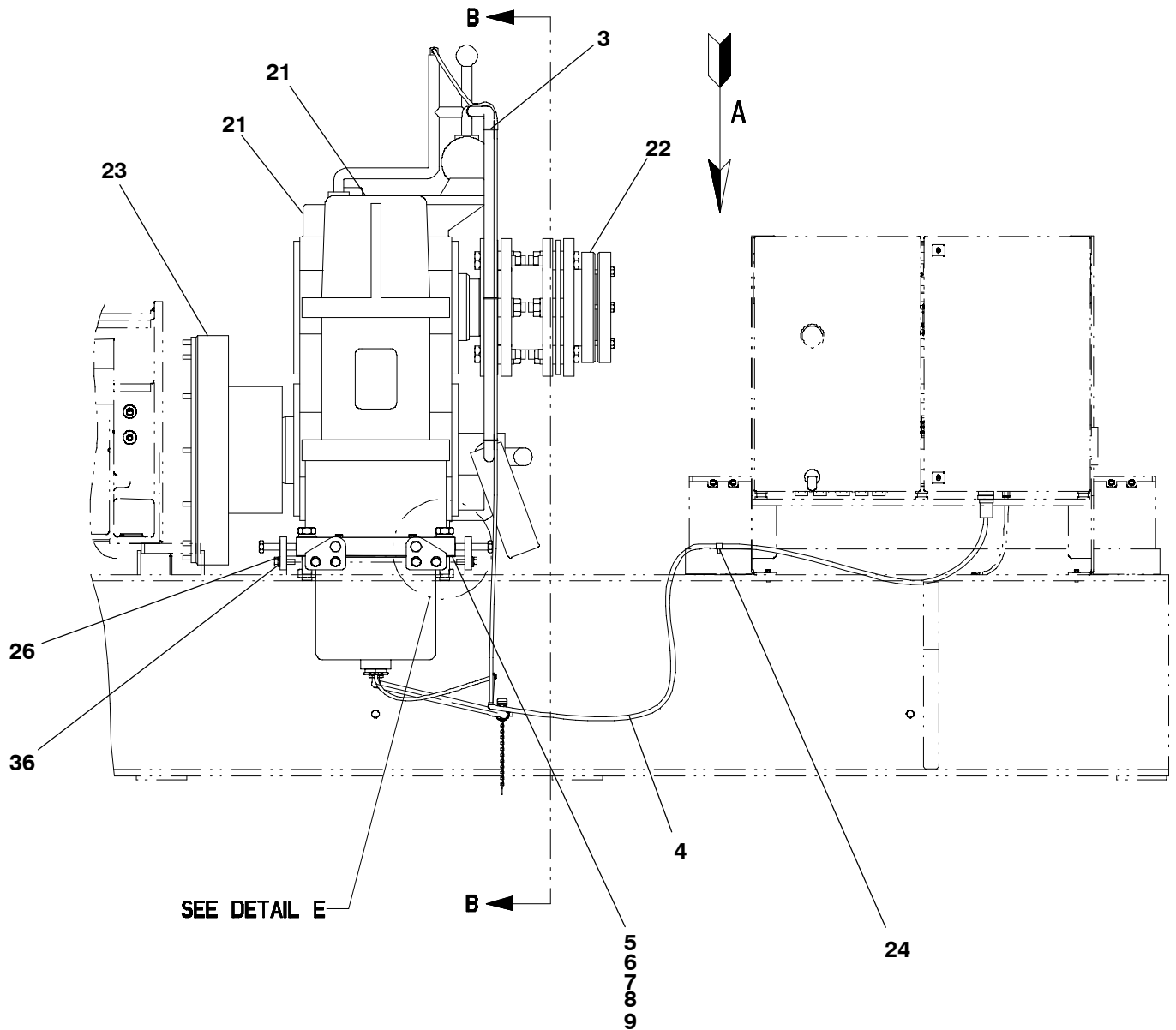
Power Supply



Power Supply

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8623	1	Label, Information	23	332-4255	1	Block, Terminal – End Plate
2	098-8669	1	Label, Information	24	405-9959	2	Frame, Louver – Exhaust Filter
3	098-8670	1	Label, Unit ID	25	416-1357-02	1	Tray, Battery
4	098-8671	1	Label, Warning (DC Warning)	26	416-1358	1	Cover, Battery
5	098-8672	1	Label, Warning (AC Voltage)	27	416-1359-02	1	Holddown, Battery
6	300-6339	1	Supply, Power (DC)	28	416-1360-02	2	Rod
7	319-6736	1	Box, Terminal	29	416-1361	2	Battery
8	319-6741-02	2	Plate, Mounting	30	526-0399-52	2	Washer, Flat (M3)
9	320-2425	1	Switch, Disconnect	31	526-0399-54	4	Washer, Flat (M4)
10	331-0635-07	2	Duct, Wiring	32	526-0399-55	12	Washer, Flat (M4)
11	331-0635-08	2	Duct, Wiring	33	526-0399-60	8	Washer, Flat (M8)
12	332-3895	A/R	Rail, Terminal Block	34	815-1540-03	14	Screw, Slotted – Cheese Head (M3 x 6)
13	332-4224	1	Block, Terminal	35	815-1540-05	4	Screw, Slotted – Cheese Head (M3 x 10)
14	332-4250	1	Block, Terminal – Assembly (Includes Items 15 thru 23)	36	815-1540-18	14	Screw, Slotted – Cheese Head (M4 x 10)
15	320-2420	1	Breaker, Circuit	37	815-1540-21	2	Screw, Slotted – Cheese Head (M4 x 20)
16	320-2421	2	Breaker, Circuit	38	815-1540-32	8	Screw, Slotted – Cheese Head (M5 x 10)
17	332-3895	A/R	Rail, Terminal Block	39	862-0026-53	2	Nut, Hex (M5)
18	332-4231	16	Strip, Marker	40	862-0026-55	4	Nut, Hex (M8)
19	332-4251	2	Block, Terminal – Rail Mounted				
20	332-4252	6	Block, Terminal – Rail Mounted				
21	332-4253	1	Block, Terminal – Rail Mounted				
22	332-4254	1	Block, Terminal – Rail Mounted				

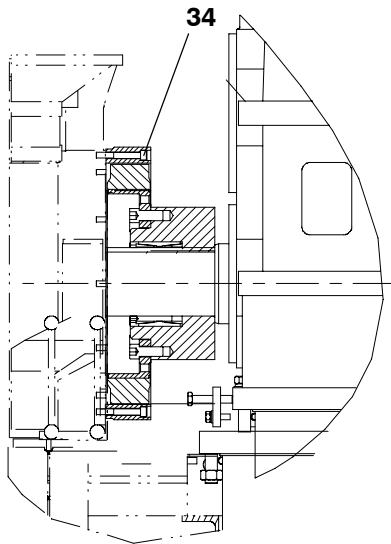
**Gearcase (P7)
GQPB, GQPC
(Illustration #1)**



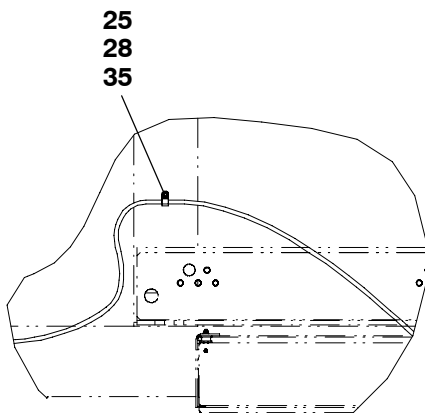
Gearcase (P7) GQPB, GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-2277	1	Cap, Oil Fill	23	512-0354	1	Coupling, Flex
2	309-0694	1	Switch, Temperature – Gear Box	24	518-0548-04	1	Clamp, Hose
3	332-2774	4	Tie, Cable	25	526-0399-60	1	Washer, Flat (M8)
4	338-4760	1	Harness, Switch	26	526-0399-66	16	Washer, Flat (M16)
5	403-5494-01 A/R		Shim	27	526-2240	4	Washer, Flat (M30)
6	403-5494-02 A/R		Shim	28	800-3017-19	1	Screw, Hex Head (M8 x 1.25 x 20)
7	403-5494-03 A/R		Shim	29	800-3017-63	4	Screw, Hex Head (M12 x 1.75 x 75)
8	403-5494-04 A/R		Shim	30	800-3017-74	8	Screw, Hex Head (M16 x 2.0 x 50)
9	403-5494-05 A/R		Shim	31	800-3017-76	8	Screw, Hex Head (M16 x 2.0 x 60)
10	403-6530-02	8	Pad, Mounting – Jacking	32	800-6309	4	Screw, Hex Head (M30 x 3.5 x 140)
11	502-1369	1	Elbow – 90° (1/2")	33	800-6310-01	8	Screw, Hex Head (M20 x 1.5 x 100)
12	502-1458	1	Adapter, Hose	34	802-2545-06	12	Screw, Socket Head (M16 x 110)
13	502-1475	1	Adapter, Hose (1/2")	35	850-0114-54	1	Washer, Lock (M8)
14	503-2386	1	Hose, Coolant (3/4")	36	850-0114-57	16	Washer, Lock (M16)
15	504-0239	1	Valve, Ball (3/4")	37	850-2026	4	Washer, Lock (M30)
16	505-2086	1	Nipple, Pipe (3/4")				
17	505-2139	1	Bushing, Reducer – 2" to 1"				
18	505-2140	1	Bushing, Reducer – 1" to 1/2"				
19	505-2291	1	Adapter, Pipe (3/4")				
20	505-2386	1	Bushing, Reducer (2" x 1/4")				
21	507-0009	1	Gear, Helical				
22	512-0329	1	Coupling, Flex				

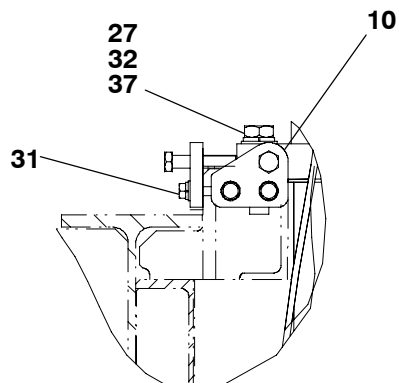
**Gearcase (P7)
GQPB, GQPC
(Illustration #2)**



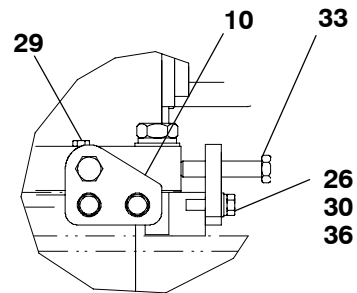
SECTION A-A



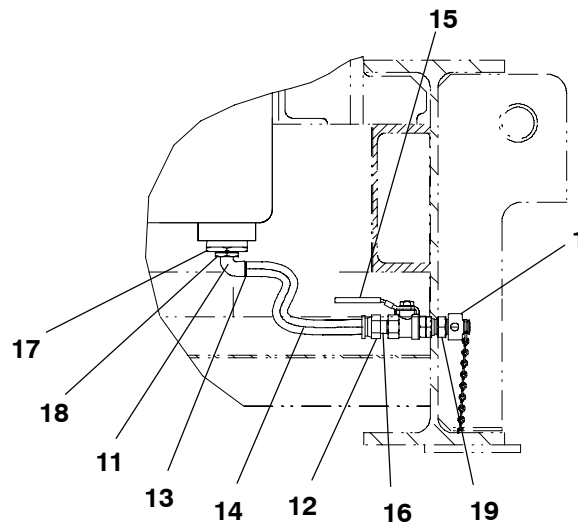
VIEW IN DIRECTION OF ARROW A



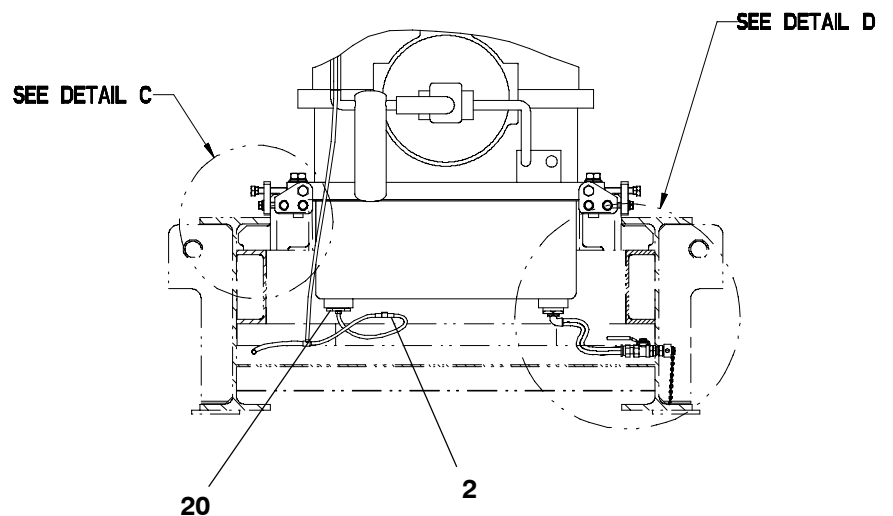
DETAIL C



DETAIL E



DETAIL D

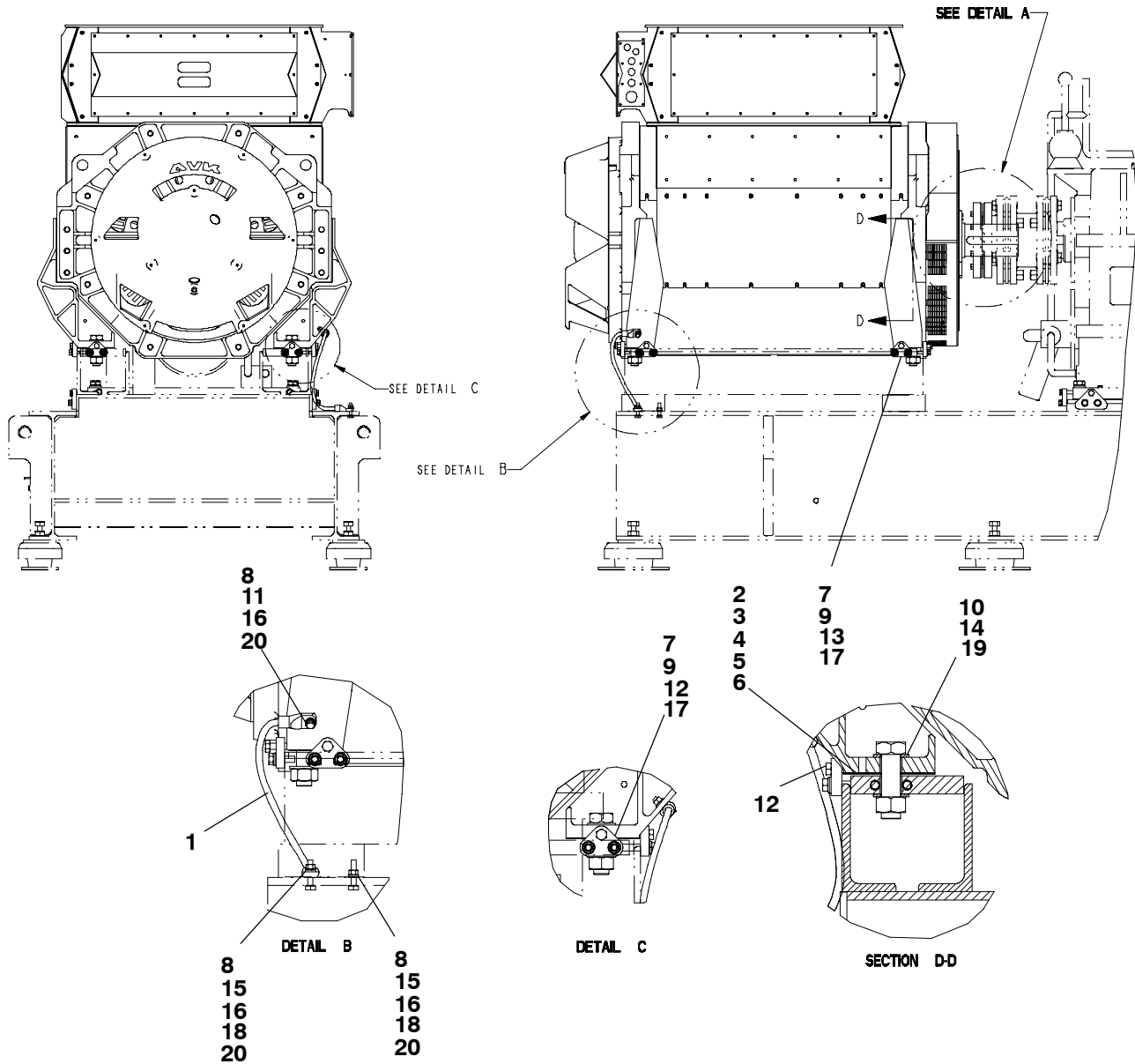


SECTION B-B

Gearcase (P7) GQPB, GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-2277	1	Cap, Oil Fill	23	512-0354	1	Coupling, Flex
2	309-0694	1	Switch, Temperature – Gear Box	24	518-0548-04	1	Clamp, Hose
3	332-2774	4	Tie, Cable	25	526-0399-60	1	Washer, Flat (M8)
4	338-4760	1	Harness, Switch	26	526-0399-66	16	Washer, Flat (M16)
5	403-5494-01 A/R		Shim	27	526-2240	4	Washer, Flat (M30)
6	403-5494-02 A/R		Shim	28	800-3017-19	1	Screw, Hex Head (M8 x 1.25 x 20)
7	403-5494-03 A/R		Shim	29	800-3017-63	4	Screw, Hex Head (M12 x 1.75 x 75)
8	403-5494-04 A/R		Shim	30	800-3017-74	8	Screw, Hex Head (M16 x 2.0 x 50)
9	403-5494-05 A/R		Shim	31	800-3017-76	8	Screw, Hex Head (M16 x 2.0 x 60)
10	403-6530-02	8	Pad, Mounting – Jacking	32	800-6309	4	Screw, Hex Head (M30 x 3.5 x 140)
11	502-1369	1	Elbow – 90° (1/2")	33	800-6310-01	8	Screw, Hex Head (M20 x 1.5 x 100)
12	502-1458	1	Adapter, Hose	34	802-2545-06	12	Screw, Socket Head (M16 x 110)
13	502-1475	1	Adapter, Hose (1/2")	35	850-0114-54	1	Washer, Lock (M8)
14	503-2386	1	Hose, Coolant (3/4")	36	850-0114-57	16	Washer, Lock (M16)
15	504-0239	1	Valve, Ball (3/4")	37	850-2026	4	Washer, Lock (M30)
16	505-2086	1	Nipple, Pipe (3/4")				
17	505-2139	1	Bushing, Reducer – 2" to 1"				
18	505-2140	1	Bushing, Reducer – 1" to 1/2"				
19	505-2291	1	Adapter, Pipe (3/4")				
20	505-2386	1	Bushing, Reducer (2" x 1/4")				
21	507-0009	1	Gear, Helical				
22	512-0329	1	Coupling, Flex				

Gearcase (P80) **GQPB, GQPC**

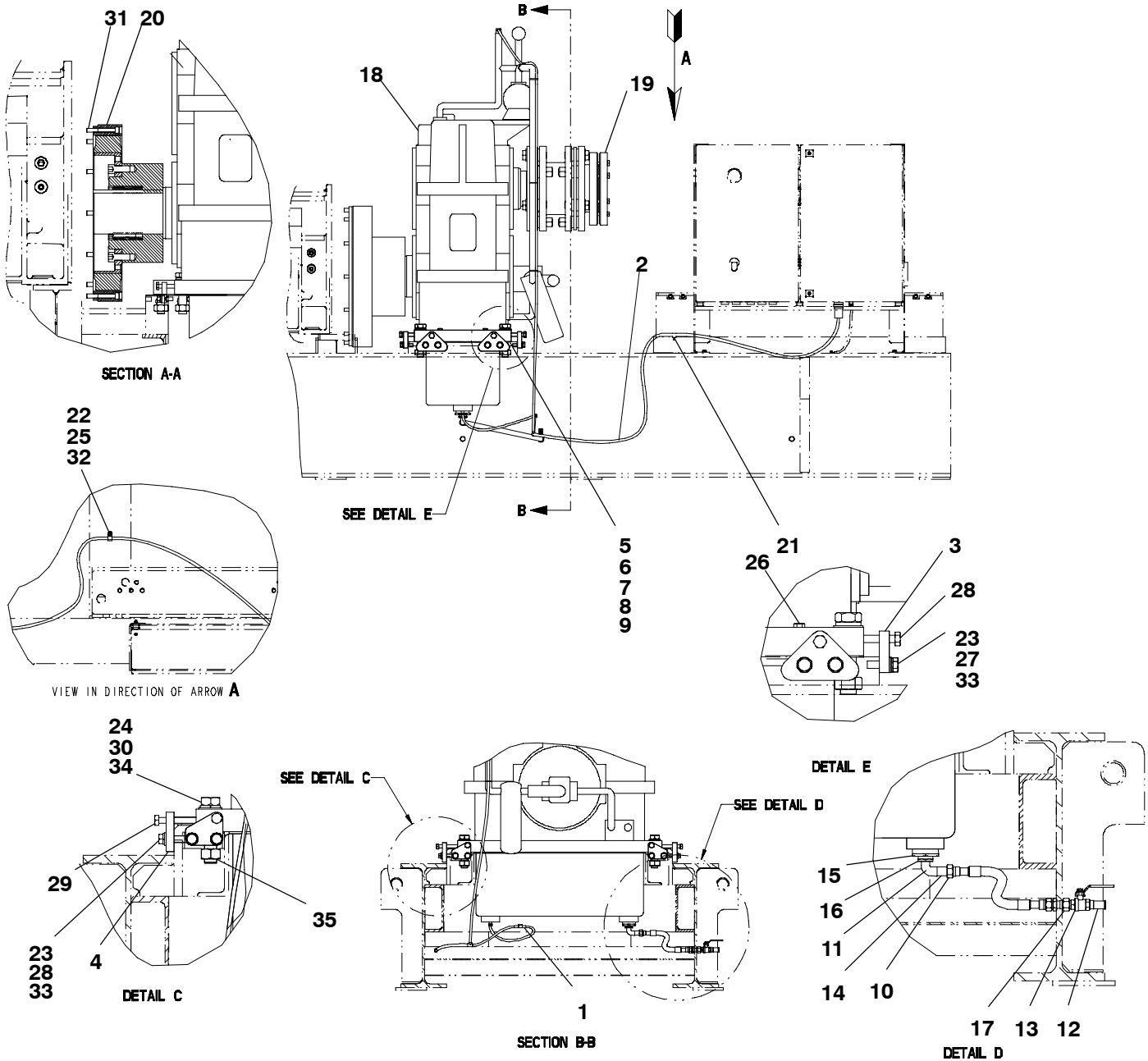


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	226-4921-01	1	Lead
2	232-4141-01 A/R		Shim
3	232-4141-02 A/R		Shim
4	232-4141-03 A/R		Shim
5	232-4141-04 A/R		Shim
6	232-4141-05 A/R		Shim
7	403-5491	8	Pad, Mounting
8	526-0399-64	4	Washer, Flat (M12)
9	526-0399-66	16	Washer, Flat (M16)
10	526-2250	8	Washer, Flat (M36)
11	800-3017-58	1	Screw, Hex Head (M12 x 1.75 x 50)
12	800-3017-74	16	Screw, Hex Head (M16 x 2.00 x 50)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
13	800-3017-78	8	Screw, Hex Head (M16 x 2.00 x 70)
14	800-6280	4	Screw, Hex Head (M36 x 4.00 x 120)
15	800-6288-12	2	Screw, Hex Head (M12 x 1.75 x 60)
16	850-0114-56	3	Washer, Lock (M12)
17	850-0114-57	16	Washer, Lock (M16)
18	853-0040-57	2	Washer, Lock - W/ET (M16)
19	860-2072	4	Nut (M36 x 4)
20	862-0026-57	3	Nut, Hex (M12)

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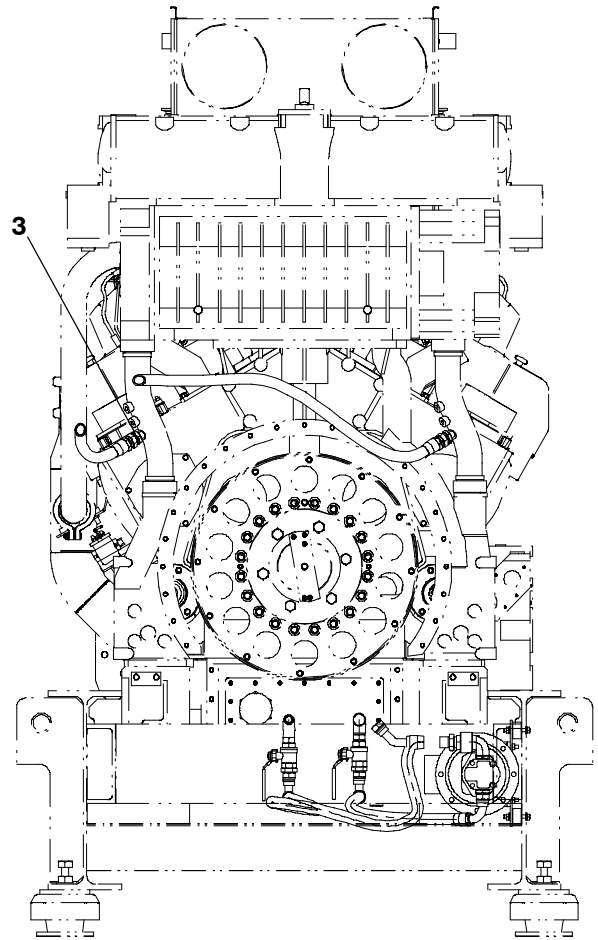
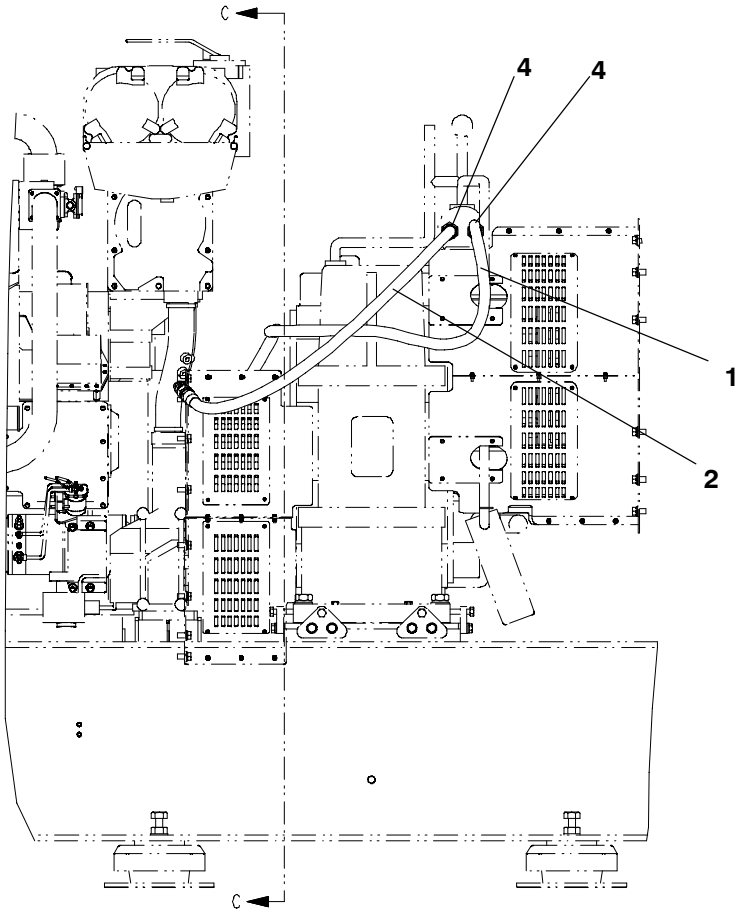
Gearbox **GQPB, GQPC**



Gearbox GQPB, GQPC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0694	1	Switch, Temperature – Gear Box	21	518-0548-04	1	Clamp, Hose
2	338-4760	1	Harness, Switch	22	526-0399-60	1	Washer, Flat (M8)
3	403-5492-02	4	Pad, Mounting – Jacking (Gearbox End)	23	526-0399-66	16	Washer, Flat (M16)
4	403-5493-02	4	Pad, Mounting – Jacking (Gearbox Side)	24	526-2240	4	Washer, Flat (M30)
5	403-5494-01 A/R		Shim	25	800-3017-19	1	Screw, Hex Head (M8 x 1.25 x 20)
6	403-5494-02 A/R		Shim	26	800-3017-63	4	Screw, Hex Head (M12 x 1.75 x 75)
7	403-5494-03 A/R		Shim	27	800-3017-74	8	Screw, Hex Head (M16 x 2.0 x 50)
8	403-5494-04 A/R		Shim	28	800-3017-76	12	Screw, Hex Head (M16 x 2.0 x 60)
9	403-5494-05 A/R		Shim	29	800-3017-82	4	Screw, Hex Head (M16 x 2.0 x 90)
10	501-0943	1	Hose	30	800-6309	4	Screw, Hex Head (M30 x 3.5 x 140)
11	502-1369	1	Elbow – 90°	31	802-2545-06	12	Screw, Socket Head (M16 x 110)
12	502-1475	1	Adapter, Hose	32	850-0114-54	1	Washer, Lock (M8)
13	504-0247	1	Valve, Ball	33	850-0114-57	16	Washer, Lock (M16)
14	505-2098	1	Nipple, Pipe	34	850-2026	4	Washer, Lock (M30)
15	505-2139	1	Bushing, Reducer	35	860-2015	4	Nut, Hex (M30)
16	505-2140	1	Bushing, Reducer				
17	505-2142	1	Adapter, Pipe				
18	507-0009	1	Gear, Helical				
19	512-0275	1	Coupling, Flex				
20	512-0354	1	Coupling, Flex				

Oil Cooler – Gearcase GQNB, GQPB

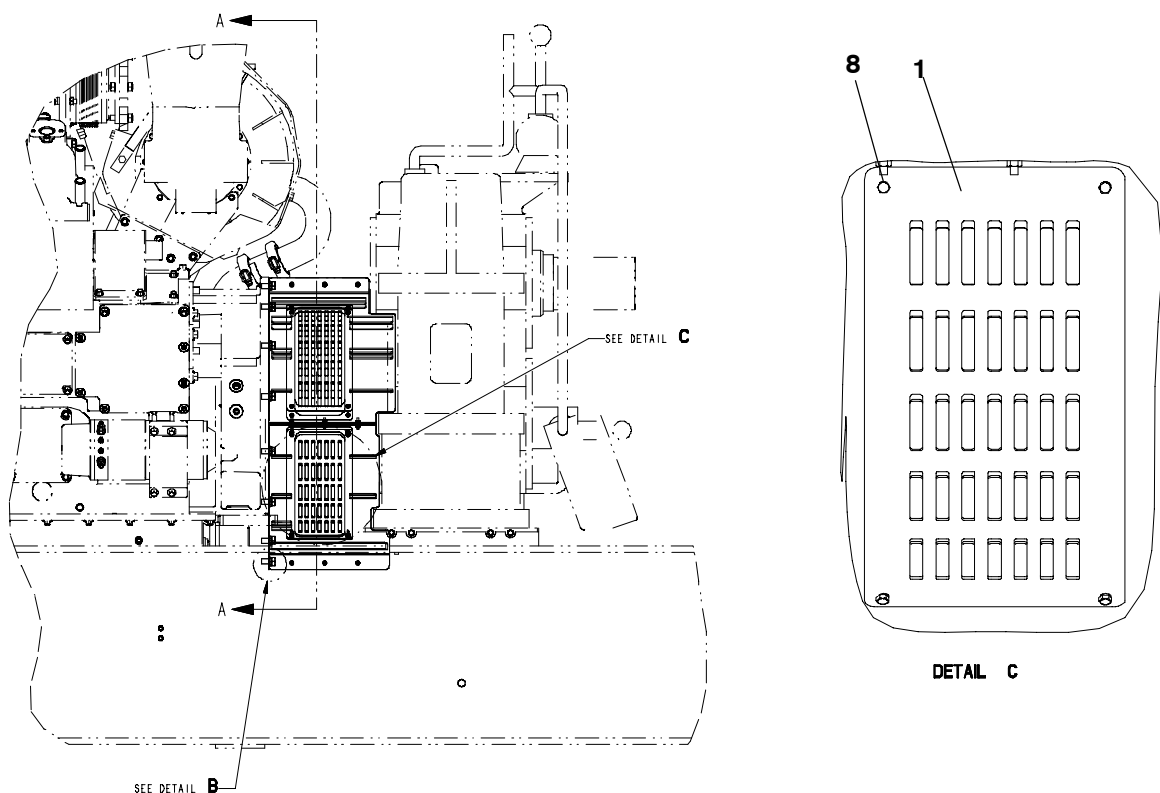
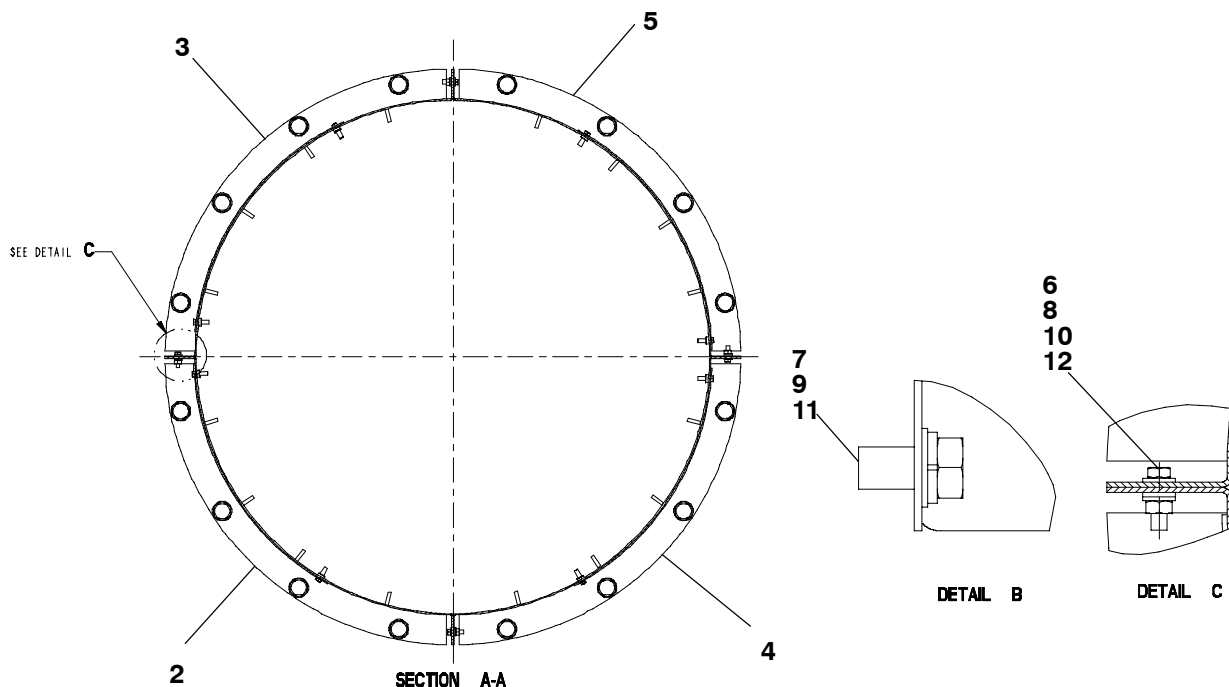


SECTION C-C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0948-01	1	Hose
2	501-0948-02	1	Hose

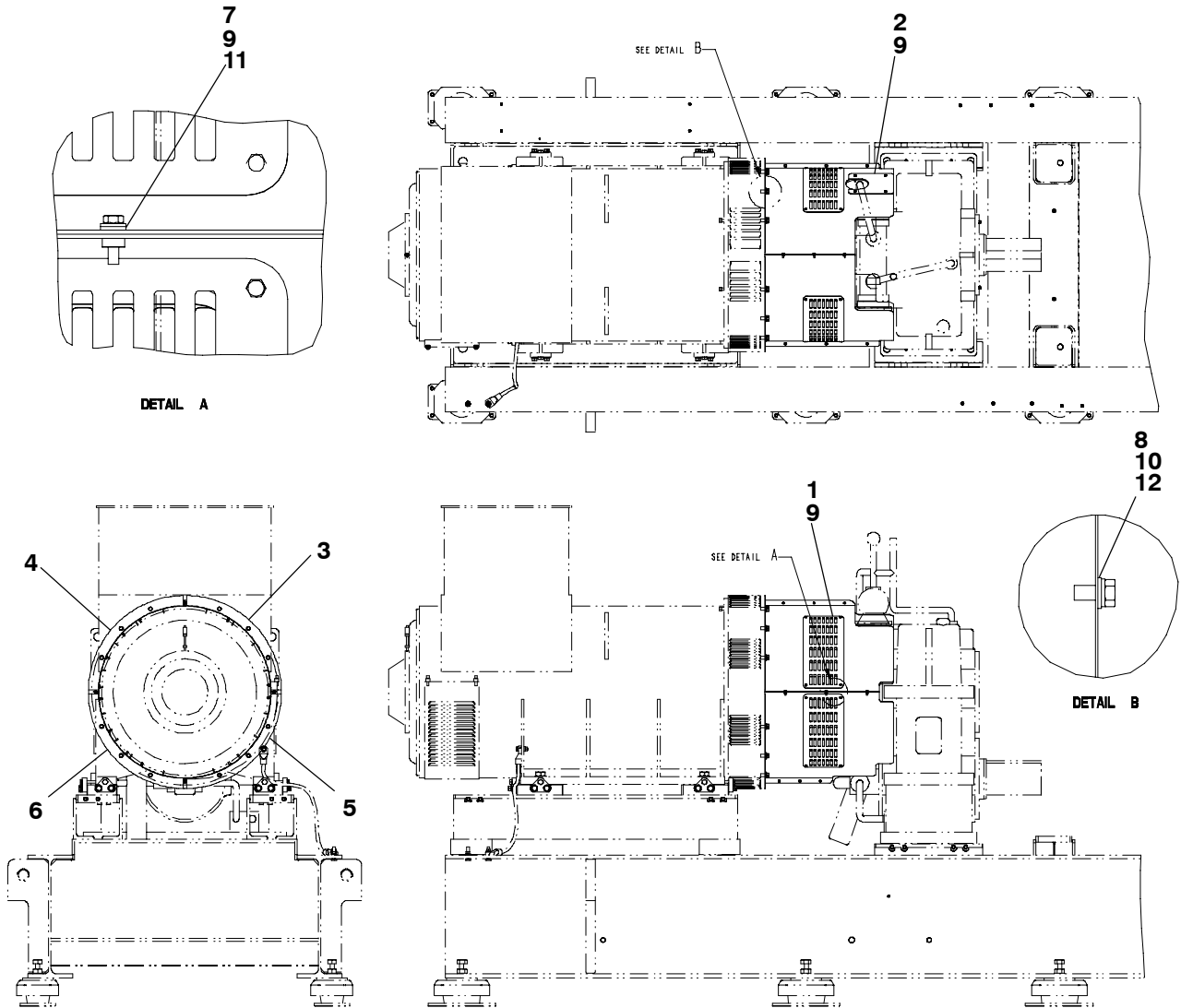
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	505-2048	2	Adapter, Pipe (1/2 x 1)
4	505-2048	2	Adapter, Pipe (1-1/4 x 1)

Guard – Engine to Gearbox GQPB, GQPC



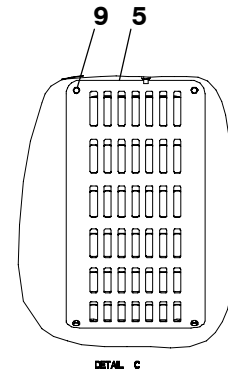
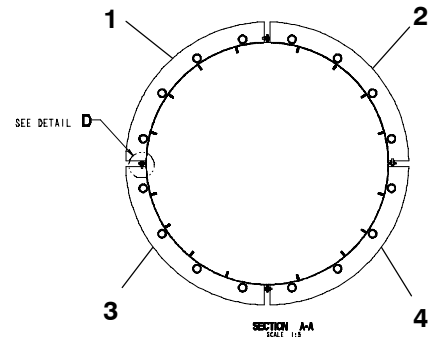
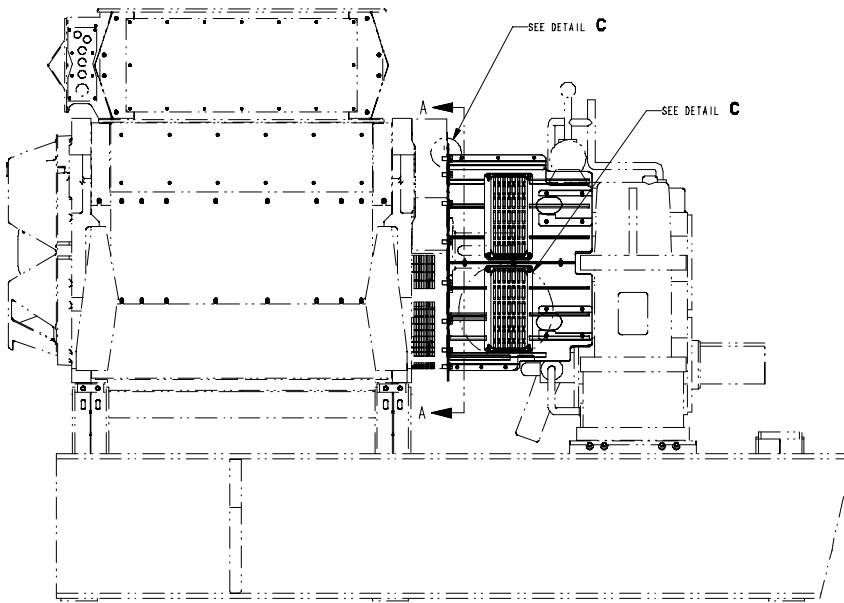
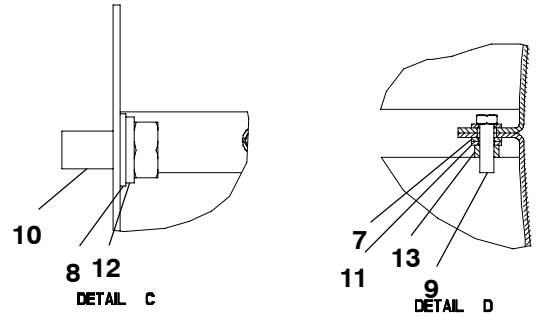
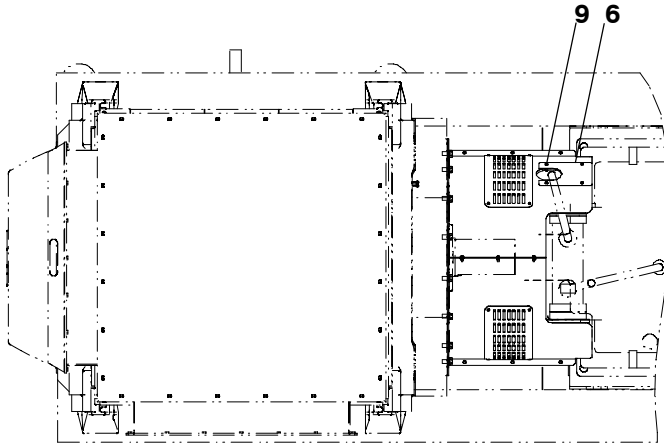
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	190-0838-02	4	Guard, Coupling (Cover)	7	526-0399-66	16	Washer, Flat (M16)
2	190-0842-02	1	Gaurd, Coupling (Bottom Left)	8	800-3017-04	28	Screw, Hex Head (M6 x 20)
3	190-0844-02	1	Gaurd, Coupling (Top Left)	9	800-3017-70	16	Screw, Hex Head (M16 x 30)
4	190-0846-02	1	Gaurd, Coupling (Bottom Right)	10	850-0114-53	12	Washer, Lock (M6)
5	190-0848-02	1	Gaurd, Coupling (Top Right)	11	850-0114-57	16	Washer, Lock (M16)
6	526-0399-58	24	Washer, Flat (M6)	12	862-0026-54	12	Nut, Hex (M6)

Guard – Gearbox to Alternator (P7) GQPB, GQPC



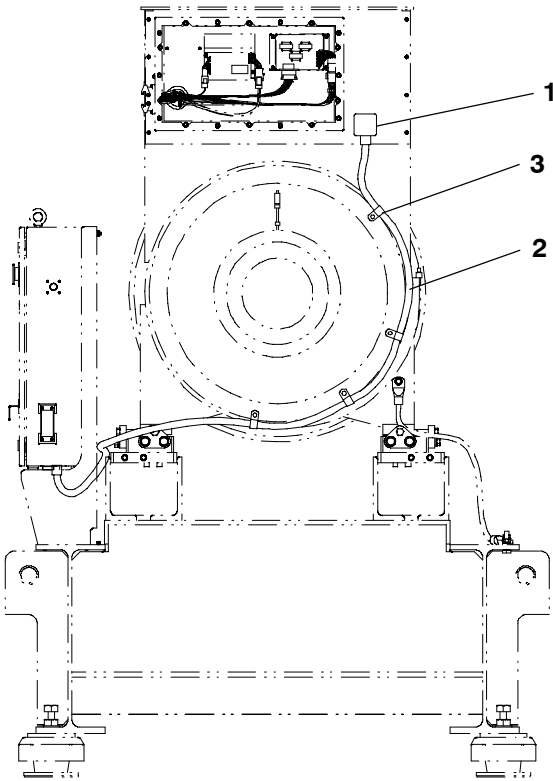
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	190-0833-02	4	Guard, Coupling (Cover)	7	526-0399-58	12	Washer, Flat (M6)
2	190-0834-02	2	Guard, Coupling (Cover)	8	526-0399-66	12	Washer, Flat (M16)
3	190-0877-02	1	Guard, Coupling (Top Right)	9	800-3017-04	36	Screw, Hex Head (M6 x 20)
4	190-0878-02	1	Guard, Coupling (Top Left)	10	800-3017-70	12	Screw, Hex Head (M16 x 30)
5	190-0879-02	1	Guard, Coupling (Bottom Right)	11	850-0114-53	12	Washer, Lock (M6)
6	190-0880-02	1	Guard, Coupling (Bottom Left)	12	850-0114-57	12	Washer, Lock (M16)

Guard – Gearbox to Alternator (P80) **GQPB, GQPC**

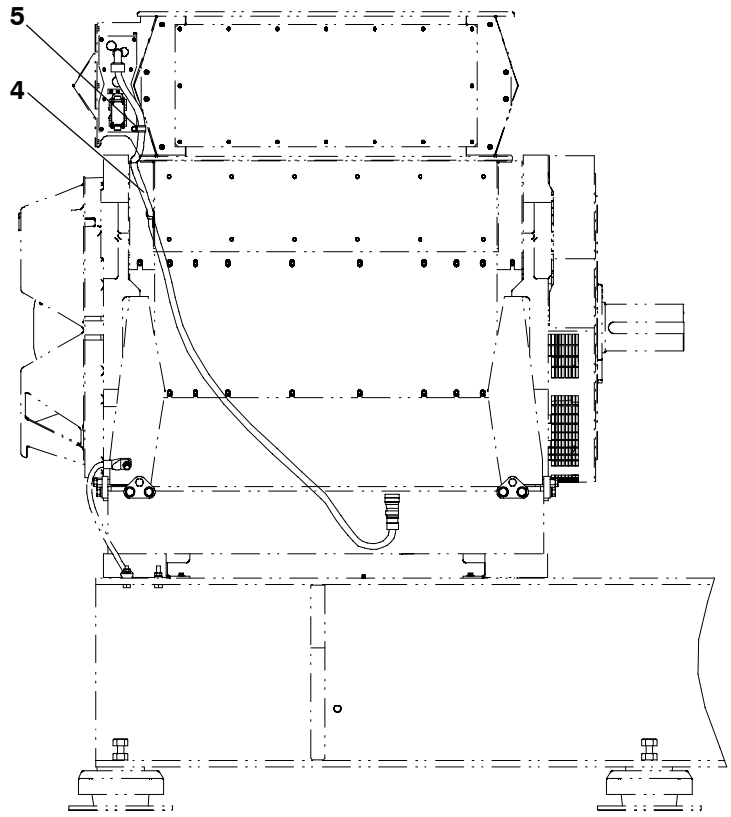


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	190-0824-02	1	Guard, Coupling (Top Right)	8	526-0399-66	16	Washer, Flat (M16)
2	190-0827-02	1	Guard, Coupling (Top Left)	9	800-3017-04	36	Screw, Hex Head (M6 x 20)
3	190-0828-02	1	Guard, Coupling (Bottom Right)	10	800-3017-70	16	Screw, Hex Head (M16 x 30)
4	190-0829-02	1	Guard, Coupling (Bottom Left)	11	850-0114-53	12	Washer, Lock (M6)
5	190-0833-02	4	Guard, Coupling (Cover)	12	850-0114-57	16	Washer, Lock (M16)
6	190-0834-02	2	Guard, Coupling (Cover)	13	862-0026-54	12	Nut, Hex (M6)
7	526-0399-58	24	Washer, Flat (M6)				

Alternator Heater Harness



P7

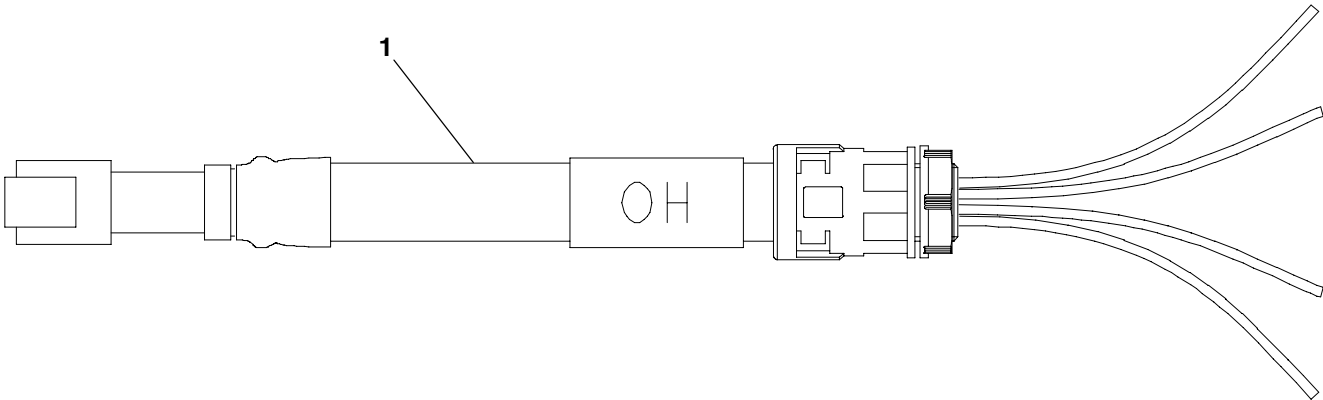


P80

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	330-0159	1	Box, Junction – P7 Alternator
2	338-4751-01	1	Harness, Wiring – Heater – P7 Alternator
3			Clamp, Hose (0.937" ID)
	518-0548-21	4	P7
	518-0548-21	1	P80

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	338-4751-02	1	Harness, Wiring – Heater – P80 Alternator
5	518-0730	1	Clip, Tube – P80 Alternator

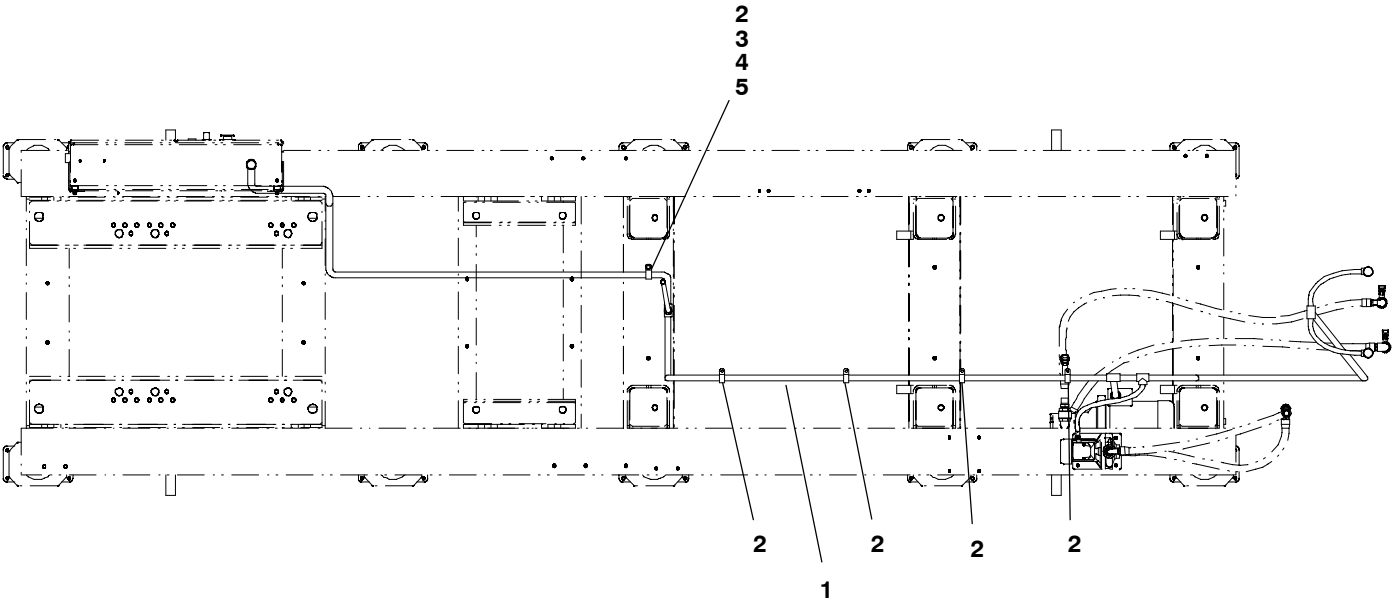
**Oil Heater Harness
GQNC, GQPC**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4615	1	Harness, Heater – Oil

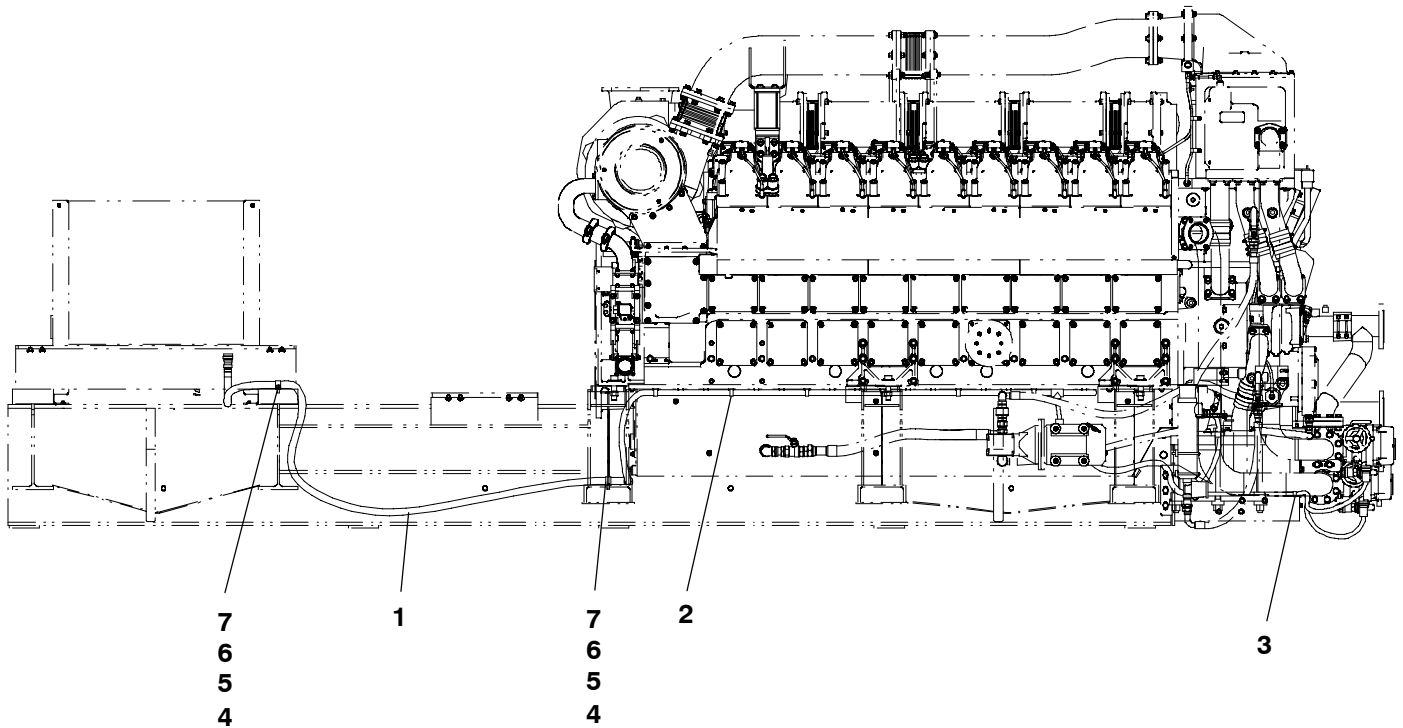
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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AC Harness
GQMA, GQMB, GQNA, GQNB, GQPB



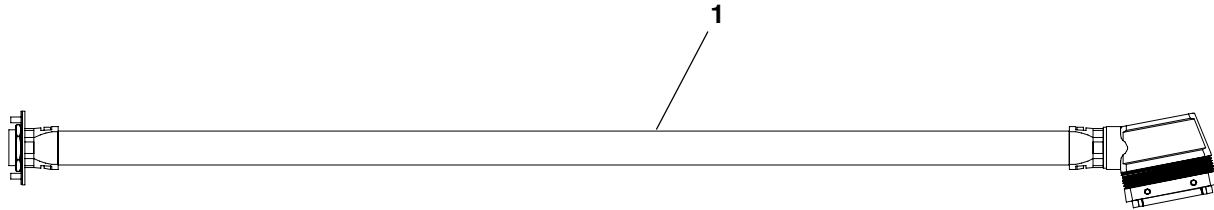
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4757	1	Harness, Wiring – AC	4	800-3017-54	1	Screw, Hex Head (M12 x 1.75 x 30)
2	518-0548-43	5	Clamp, Hose	5	850-0114-56	1	Washer, Lock (M12)
3	526-0399-64	1	Washer, Flat (M12)				

AC Harness GQNC, GQPC



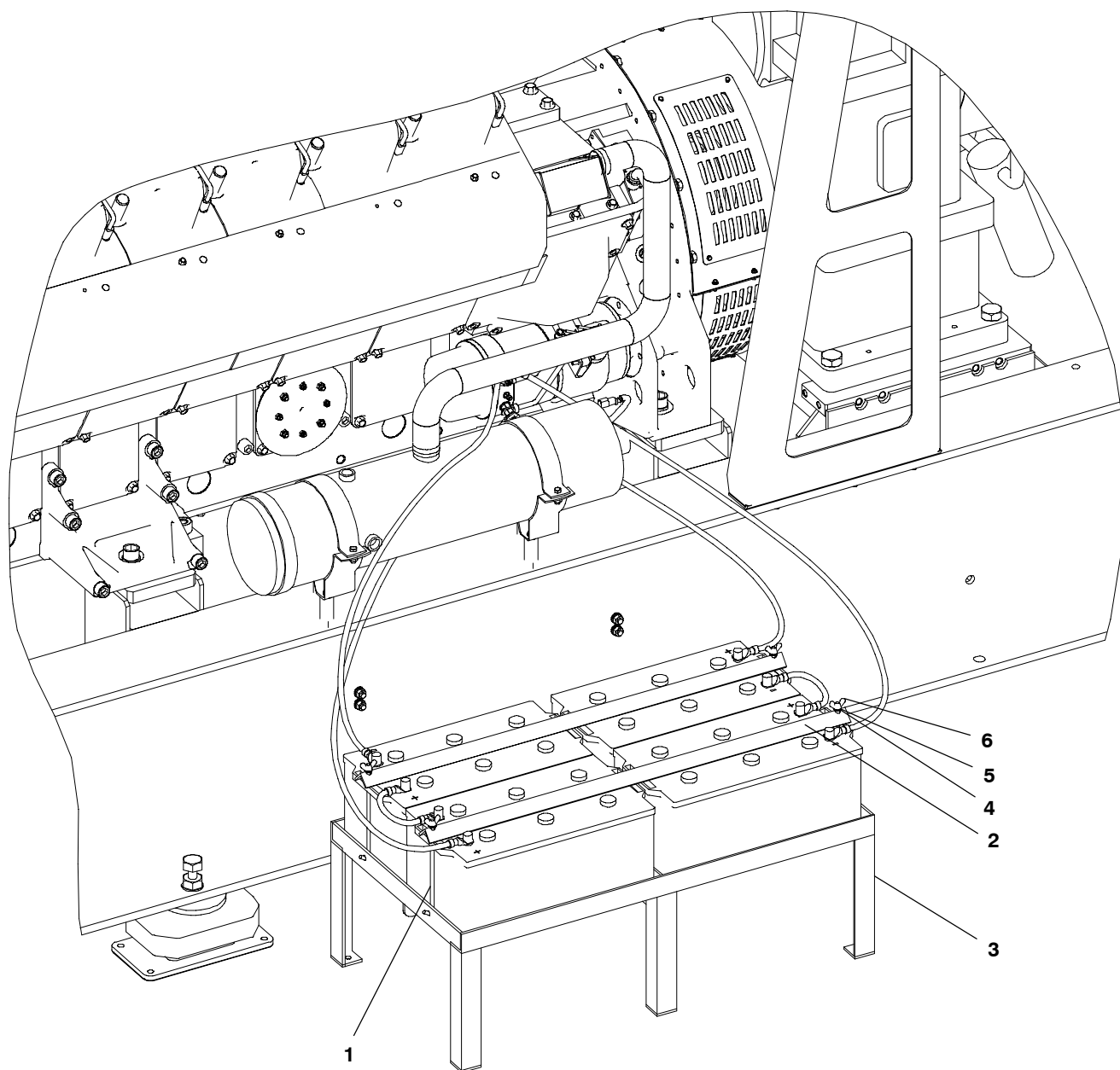
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4758	1	Harness, Wiring – AC (2MW)	5	526-0399-64	2	Washer, Flat (M12)
2	518-0548-05	6	Clamp, Hose	6	800-3017-54	2	Screw, Hex Head (M12 x 1.75 x 30)
3	518-0548-38	2	Clamp, Hose	7	850-0114-56	2	Washer, Lock (M12)
4	518-0548-43	2	Clamp, Hose				

Interface Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Interface				11/12 Way
			9/10 Way				
	338-4791-01	1	5m		338-4792-01	1	5m
	338-4791-02	1	10m		338-4792-02	1	10m
	338-4791-03	1	15m		338-4792-03	1	15m
	338-4791-04	1	20m		338-4792-04	1	20m
	338-4791-05	1	30m		338-4792-05	1	30m
	338-4791-06	1	40m		338-4792-06	1	40m

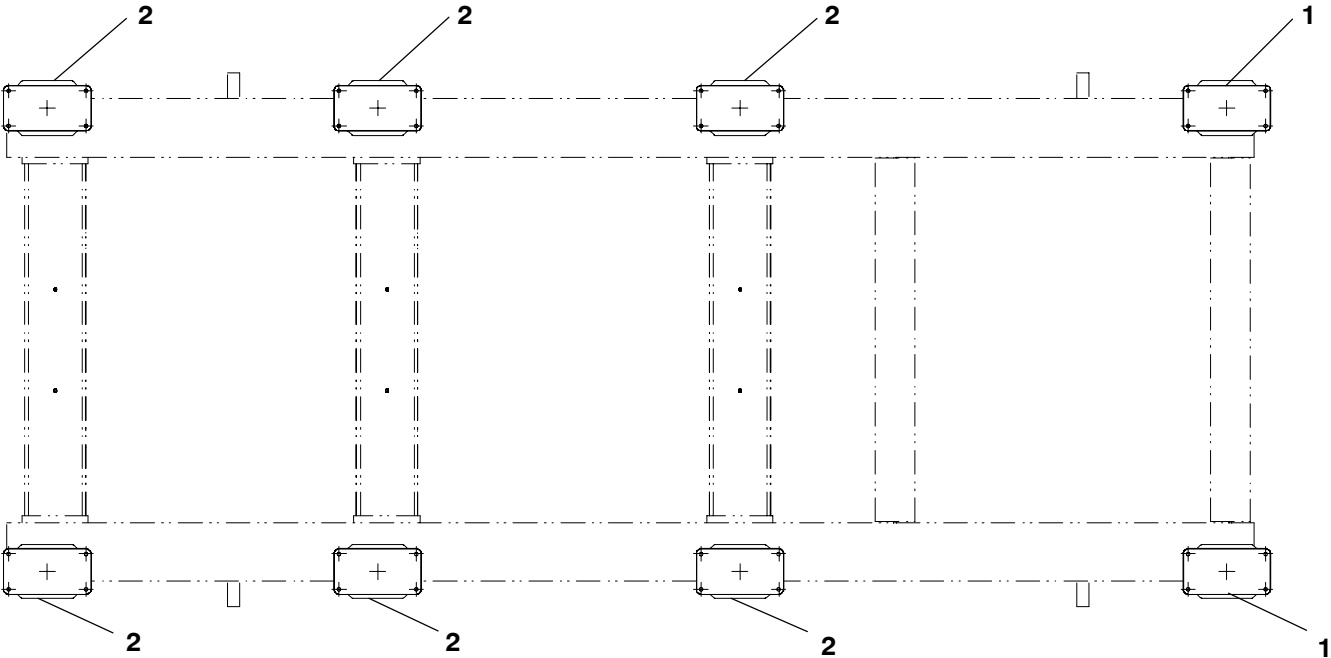
Battery Frame **GQMA, GQMB, GQNC, GQPC**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1265-02	4	Rod, Battery Holddown
2	416-1266-02	2	Holddown, Battery
3	416-1267-02	1	Frame, Battery

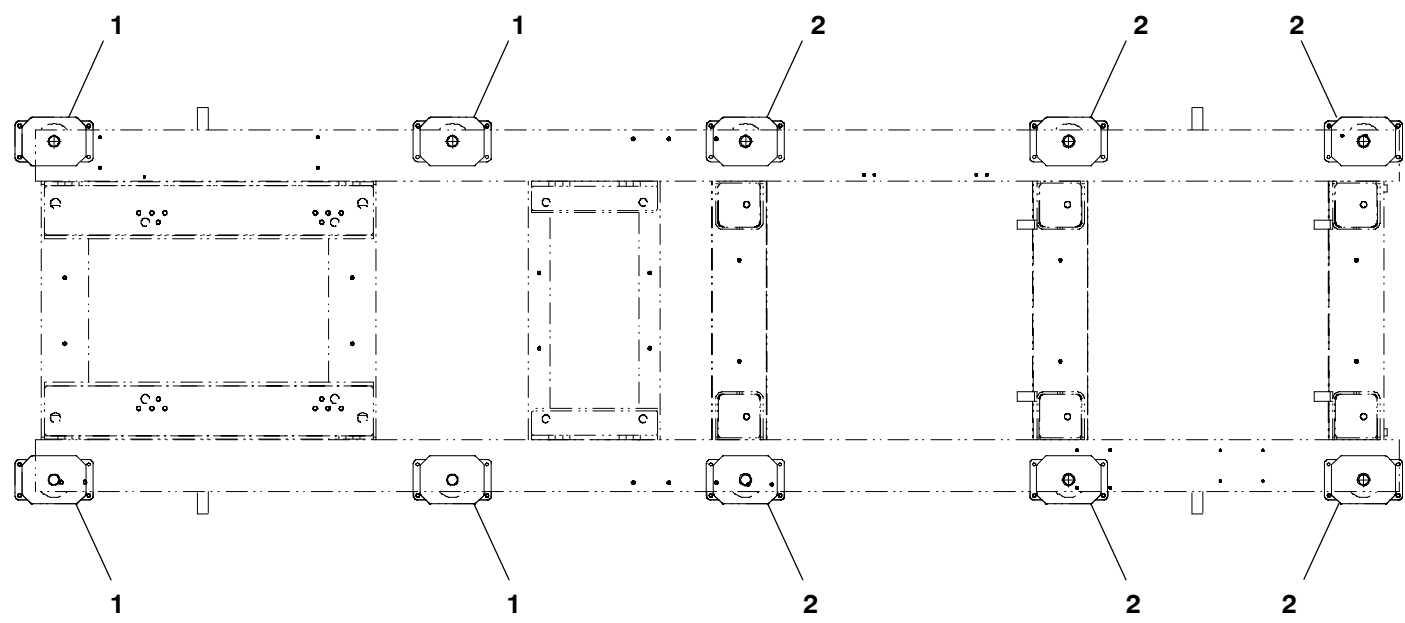
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	526-0399-60	4	Washer, Flat (M8)
5	850-0114-54	4	Washer, Lock (M8)
6	865-0031	4	Nut, Wing (M8)

Vibration Isolator
GQMA, GQMB, GQNA, GQNB, GQNC



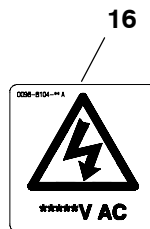
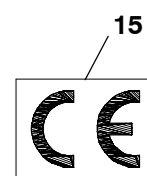
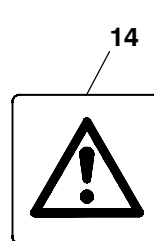
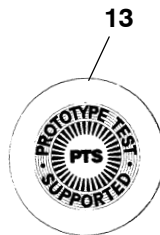
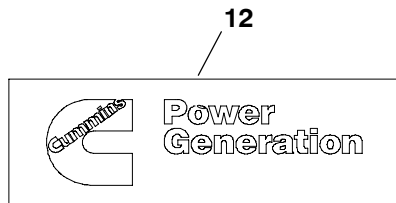
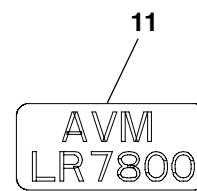
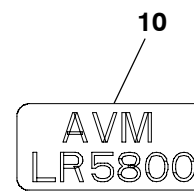
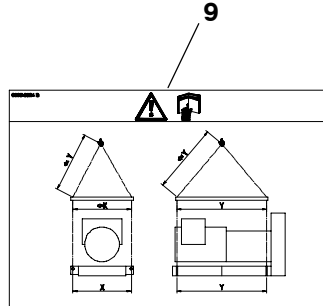
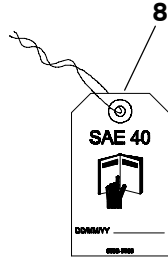
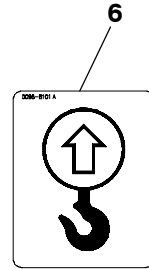
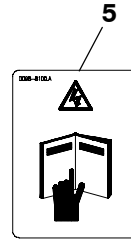
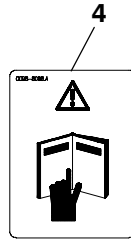
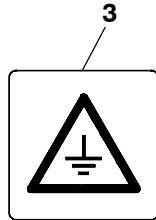
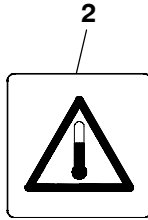
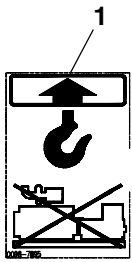
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	402-0863	2	Isolator, Vibration – Spring LR5800	2	402-0866	6	Isolator, Vibration – Spring AVM-LR7800

Vibration Isolator GQPB, GQPC



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	402-0863	4	Isolator, Vibration (LR5800)				
2	402-0864	6	Isolator, Vibration (LR6800)				

Labels



Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7895	A/R	Label, Warning (Do Not Lift)	16			Label, Warning
2	098-8095	A/R	Label, Warning (Hot Surface)		098-8104-01 A/R		380V AC
3	098-8097	A/R	Label, Information (Earth/Ground)		098-8104-02 A/R		400V AC
4	098-8098	A/R	Label, Instruction		098-8104-03 A/R		415V AC
5	098-8100	A/R	Label, Warning (Service Manual)		098-8104-04 A/R		440V AC
6	098-8101	A/R	Label, Information (Lifting Eye)		098-8104-05 A/R		480V AC
7	098-8130	A/R	Label, Caution (Rotating Parts)		098-8104-06 A/R		600V AC
8	098-8263	A/R	Label, Information (Oil Fill)		098-8104-07 A/R		3300V AC
9	098-8324	A/R	Label, Warning (Lifting)		098-8104-08 A/R		4160V AC
10	098-8503-01 A/R		Label, Information		098-8104-09 A/R		6000V AC
11	098-8503-03 A/R		Label, Information		098-8104-10 A/R		6300V AC
12	098-7902-04 A/R		Label, Logo		098-8104-11 A/R		6600V AC
13	098-4500	A/R	Label, Prototype Tested		098-8104-12 A/R		7200V AC
14	098-8096	A/R	Label, Warning (General)		098-8104-13 A/R		10000V AC
15	098-8221	1	Label, CE		098-8104-14 A/R		10500V AC
					098-8104-15 A/R		11000V AC
					098-8104-16 A/R		11400V AC
					098-8104-17 A/R		12470V AC
					098-8104-18 A/R		13200V AC
					098-8104-19 A/R		13800V AC
					098-8104-20 A/R		240V AC
					098-8104-21 A/R		110V AC
					098-8104-22 A/R		230V AC

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