

OPERATION AND PARTS MANUAL



MQ POWER

MODEL MQP20P 20KW STANDBY GENERATOR (PERKINS 404D-22 DIESEL ENGINE)

Revision #1 (11/28/11)

THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

SUGGESTED SPARE PARTS

MQP20P WITH PERKINS 404D-22 DIESEL ENGINE

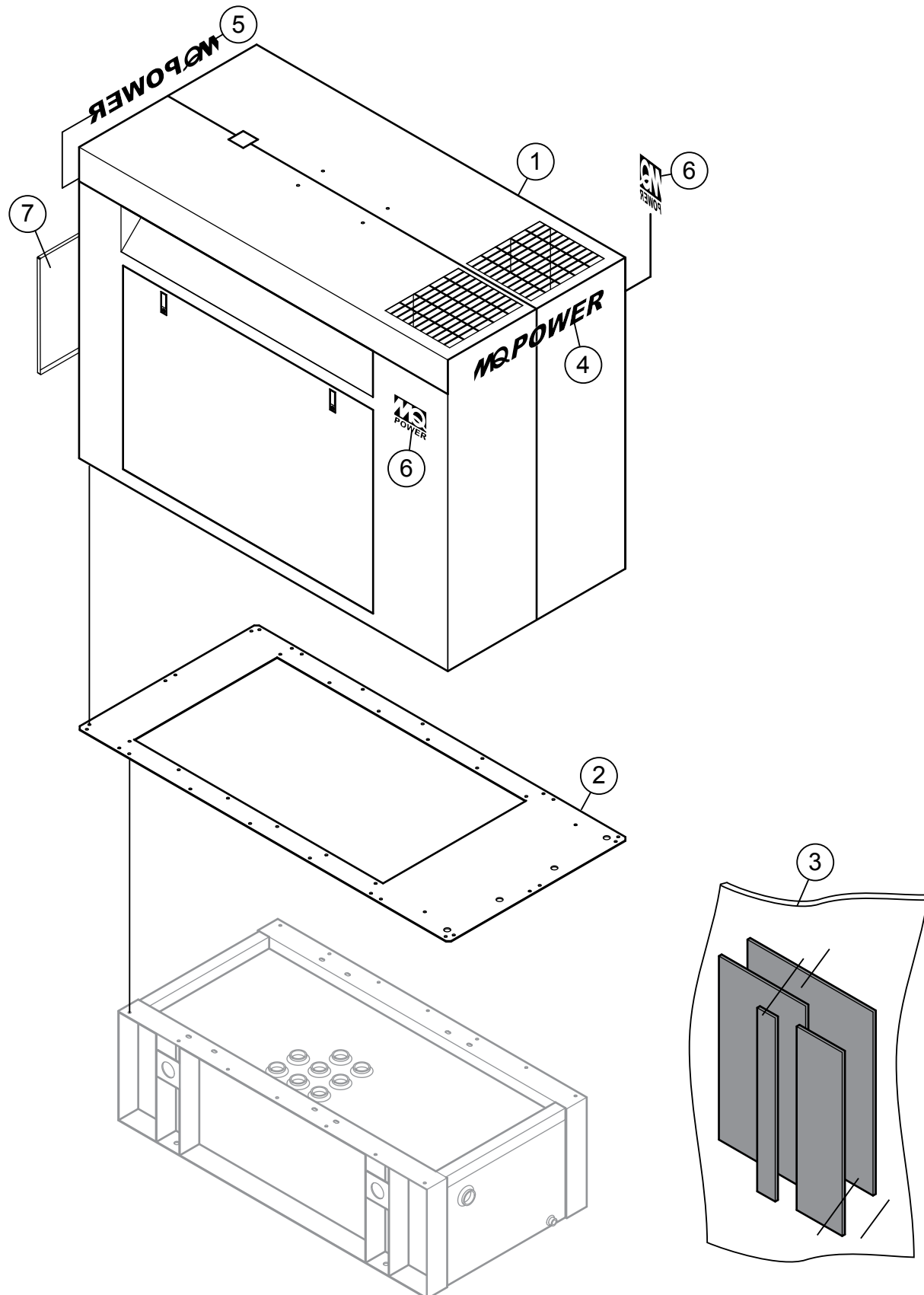
1 to 3 units

Qty.	P/N	Description
1.....	140517050.....	OIL FILTER
6.....	26561117.....	KIT, FUEL FILTER
1.....	130506300.....	PRIMER
1.....	GPC1000.....	SENSOR, LOW FUEL
1.....	U85046501.....	ALTERNATOR
2.....	EE2916.....	RELAY, STARTER SOLENOID, COLE HERSEE, 12V
1.....	EE46269.....	SENSOR, COOLANT LEVEL
1.....	MEC000788.....	SENSOR, WATER TEMPERATURE
1.....	U45537130.....	HOSE, RADIATOR, UPPER
1.....	U45537140.....	HOSE, RADIATOR LOWER
1.....	145996051.....	GASKET, THERMOSTAT
1.....	145206230.....	THERMOSTAT
1.....	U45010062.....	WATER PUMP
3.....	080109107.....	BELT
1.....	24850072.....	RADIATOR CAP
3.....	135326206.....	ELEMENT, AIR FILTER
1.....	MEC003654.....	SENSOR, OIL PRESSURE
5.....	EE5812.....	FUSE, 10 AMP
5.....	EE5811.....	FUSE, 5 AMP
3.....	A-527066-1.....	FUSE, 5 AMP, SLOW BLOW
1.....	EE10997.....	CIRCUIT BREAKER, CUTLER HAMMER, 3-POLE, 100A

NOTICE

Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.

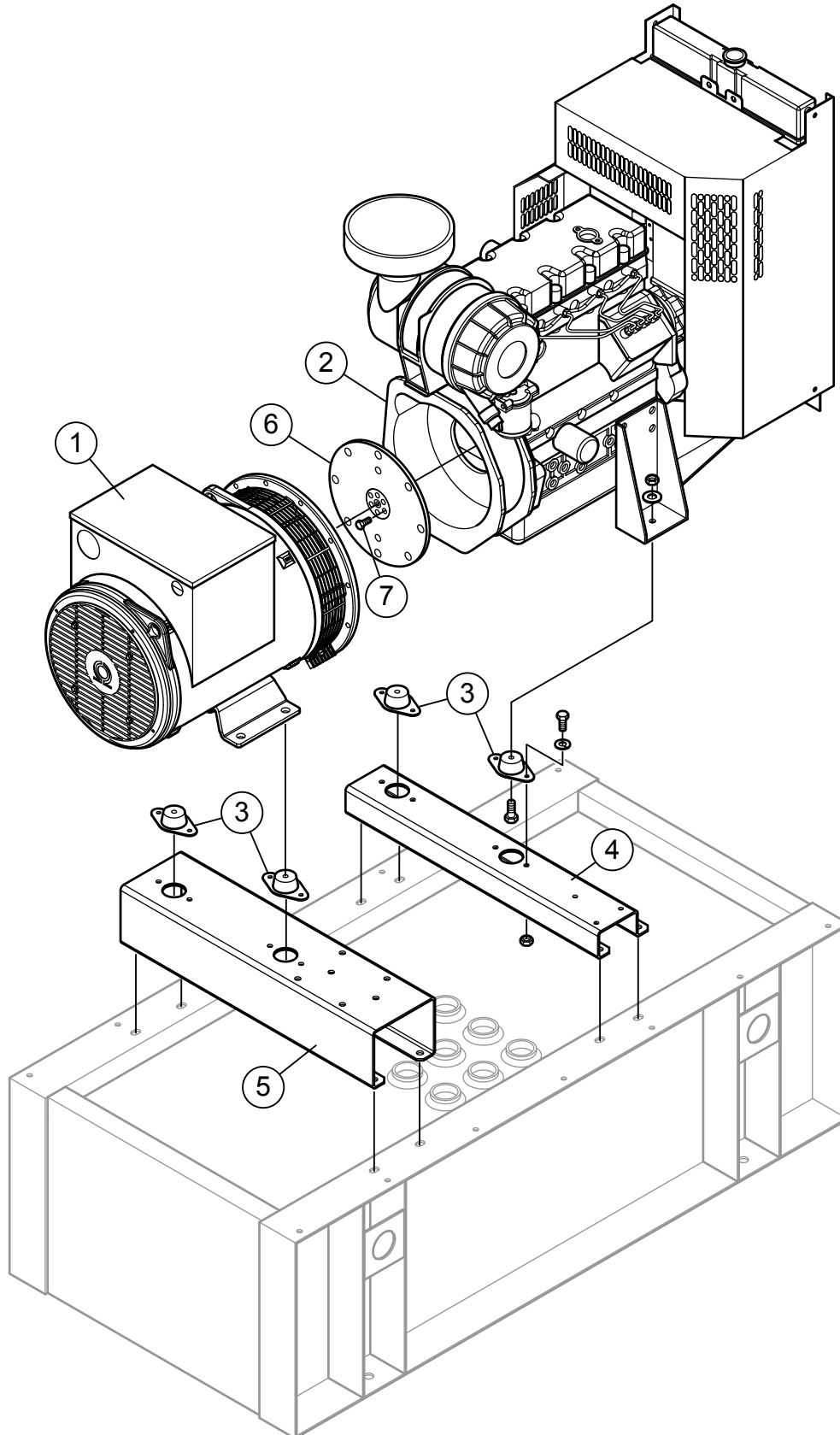
HOUSING ASSY.



HOUSING ASSY.

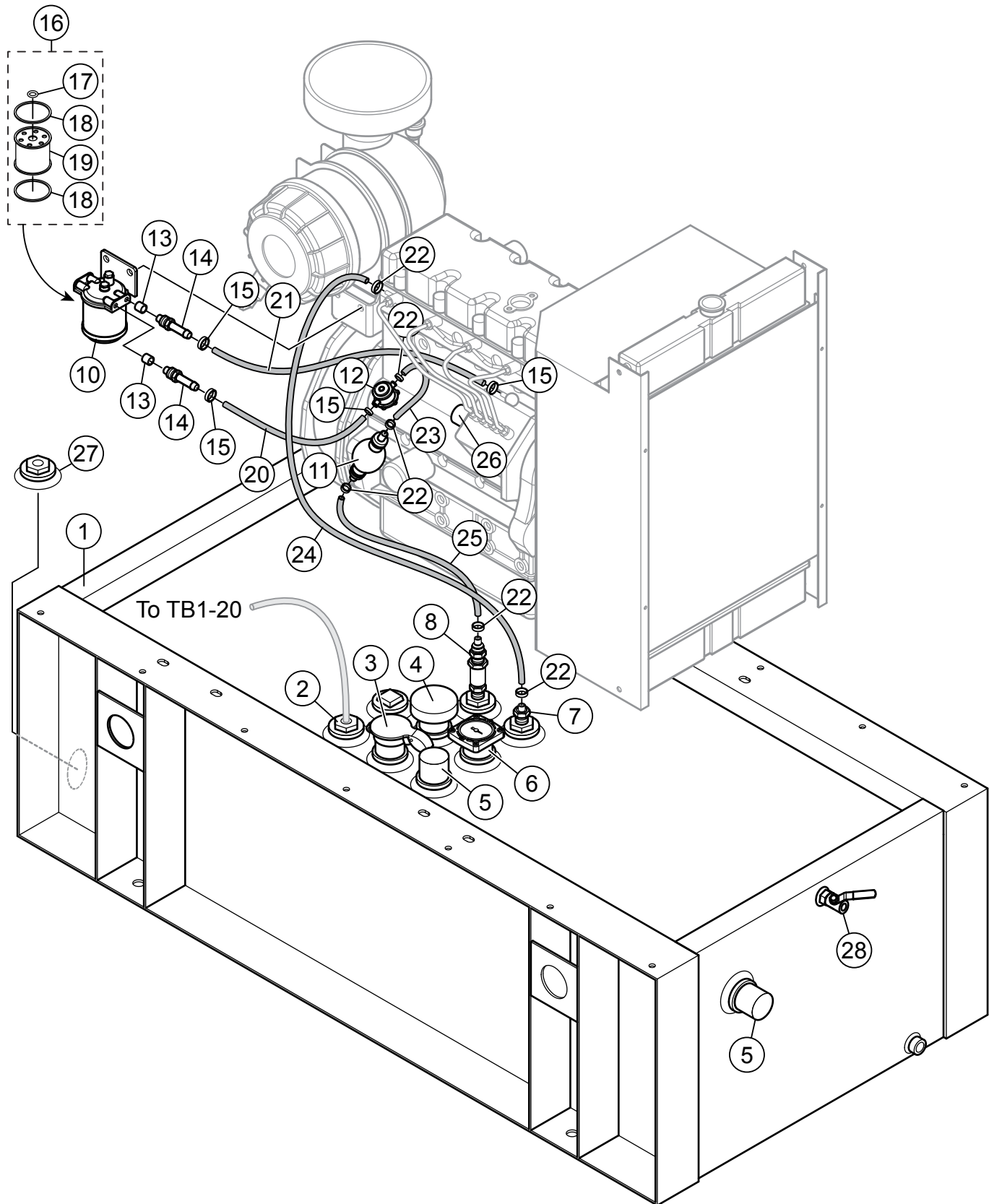
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE40861	HOUSING ASSY., PAINTED WHITE, W/ INSULATION	1	
2	EE40727	FLANGE, ADAPTOR, ENCLOSURE TO FUEL TANK	1	
3	EE54214	KIT, INSULATION	1	
4	EE33427	MQ POWER DECAL BLACK	1	
5	EE33424	MQ POWER DECAL RED	1	
6	EE33425	MQ POWER DECAL RED	2	
7	EE42018	PANEL COVER	1	

ENGINE AND GENERATOR MOUNTING ASSY.



ENGINE AND GENERATOR MOUNTING ASSY.

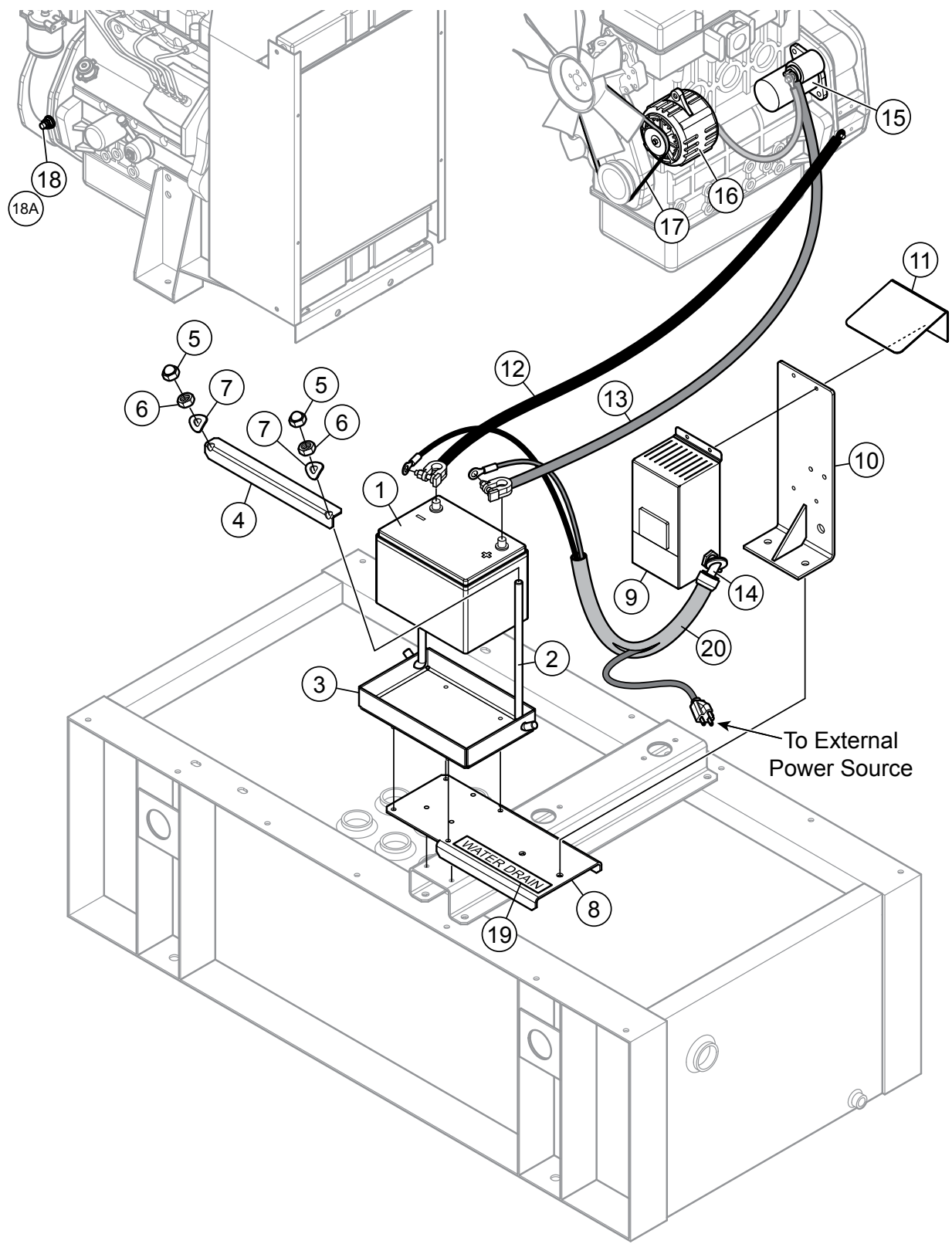
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE46389	GENERATOR, 30KW	1	
2	EE54153	ENGINE, PERKINS 21.3KW 404D-22	1	
3	EE40907	MOUNT, COMPRESSION	4	
4	EE54212	CROSS MEMBER, ENGINE	1	
5	EE54211	CROSS MEMBER, GENERATOR	1	
6	EE54208	DRIVE DISC	2	
7	EE54209	BOLT, DRIVE DISC	6	



FUEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE40871	TANK, FUEL, SUB BASE, 50 GAL	1	
2	GPC1000	SENSOR, LOW FUEL	1	
3	GPC 3005	CAP, FUEL TANK, LOCKING (2IN NPT)	1	
4	GPC 3152	CAP, STANDARD VENT	1	
5	GPC 3162	CAP, EMERGENCY PRESSURE RELIEF	2	
6	GPC 1003	GAUGE, FUEL	1	
7	GPC3600	FITTING, FUEL RETURN	1	
8	GPC3600	FITTING, FUEL SUPPLY	1	
10	2656613	FUEL FILTER ASSY.	1	
11	130506300	PRIMER	1	
12	130506350	LIFT PUMP	1	
13	33811114	OLIVE	2	
14	131246290	PIPE, LOW PRESSURE FUEL	2	
15	067100015	CLIP	4	
16	26561117	FUEL FILTER KIT	1.....	INCLUDES ITEMS W/@
17@	26560014	SEAL, O-RING	1	
18@	0490786	SEAL	2	
19@		ELEMENT, FUEL FILTER	1.....	MUST PURCHASE KIT
20	068209126	HOSE	1	
21	068209227	PIPE, FUEL	1	
22		CLAMP, HOSE 5/16IN OETTIKER	6.....	OBTAIN LOCALLY
23		HOSE, FUEL, 5/16IN X 8IN	1.....	OBTAIN LOCALLY
24		HOSE, FUEL 3/16IN X 3FT	1.....	OBTAIN LOCALLY
25		HOSE, FUEL, 5/16IN X 14IN	1.....	OBTAIN LOCALLY
26	EE55628	GOVENOR ACTUATOR	1	
27	GPC4306	ALARM, FLOAT, FUEL, IN BASIN	1	
28	944-116	BALL VALVE W/ RED HANDLE	1	

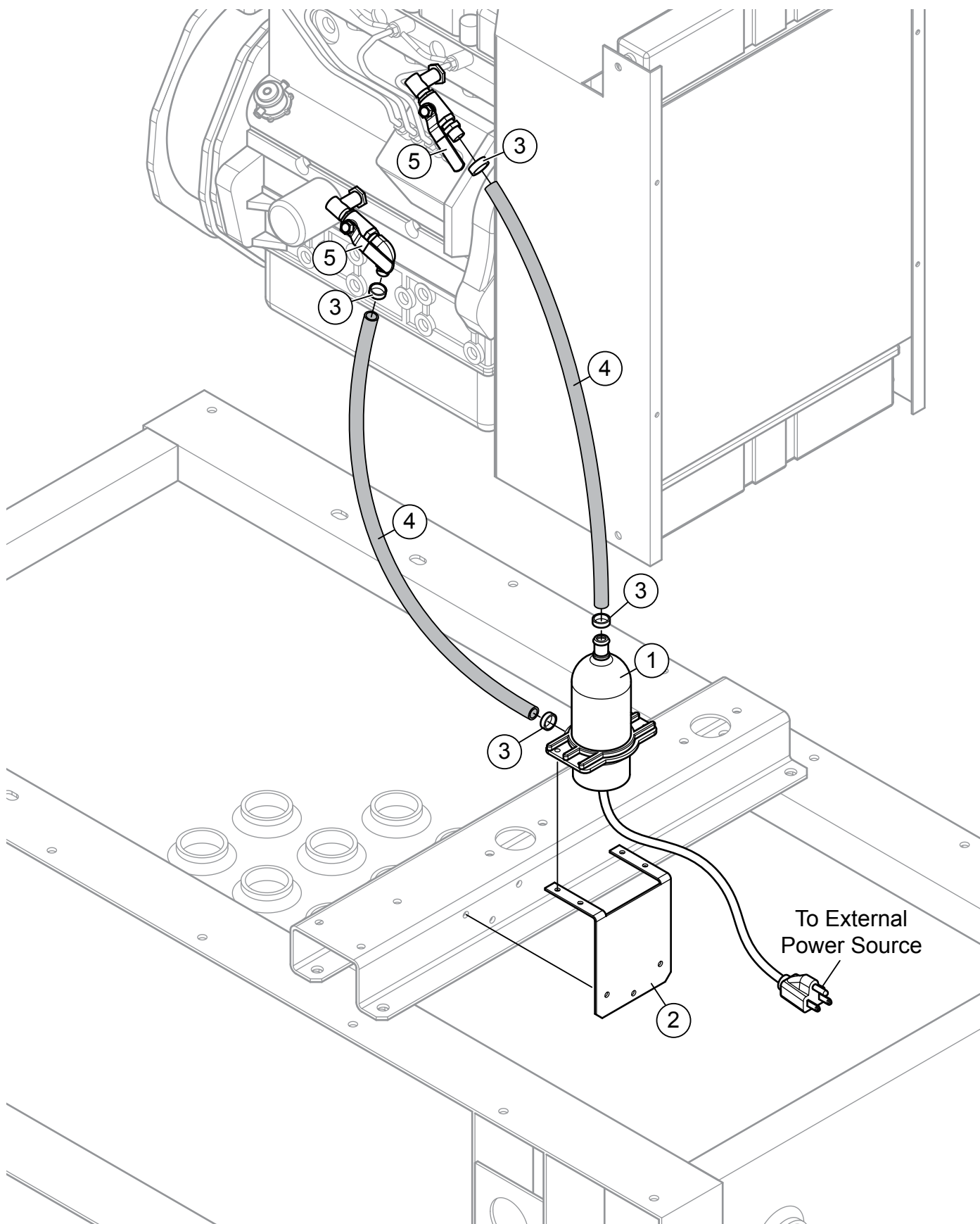
ELECTRICAL ASSY.



ELECTRICAL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE46626	BATTERY, MAINT. FREE, GROUP 24, 800	1	
2	EE34486	J-BOLT, BATTERY, 10.38 IN.	2	
3	EE38190	TRAY, BATTERY	1	
4	EE25596	BATTERY HOLD DOWN	1	
5		NUT, ACORN CAP, 5/16-18, SS	2.....	OBTAIN LOCALLY
6		NUT, NYLOCK 55, 5/16-18, SS	2.....	OBTAIN LOCALLY
7	EE40908	WASHER, SNUBBING 2.0" O.D, .45" I.D.	2	
8	EE40904	BRACKET, MTG., BATTERY TRAY AND CHARGER	1	
9	EE31218	CHARGER, BATTERY, AUTO, FLOAT EQ	1	
10	EE34068	BRACKET, SENS LC CHARGER MNTING	1	
11	EE36506	COVER, RAIN, BATTERY CHARGER	1	
12		CABLE, BATTERY, NEGATIVE BLACK,	1.....	MAKE LOCALLY 5/16-10 GA EYE TERMINAL 5'8" LONG
13		CABLE, BATTERY, NEGATIVE RED,.....	1.....	MAKE LOCALLY 5/16-10 GA EYE TERMINAL 5'8" LONG
14	EE6009	FITTING, CONDUIT, 90°, NON-METALLIC	1	
15	185086600	STARTER MOTOR	1	
16	U85046501	ALTERNATOR	1	
17	080109107	BELT	1	
18	EE2543	MAGNETIC PCKUP W/ WIRES (RED/BLCK)	1	
18A	EE54416	ADAPTER, MAGNETIC PICK-UP	1	
19	EE7315	PLACARD, WATER DRAIN	1	
20	EE22218	3/8" SPLIT LOOM	3FT	

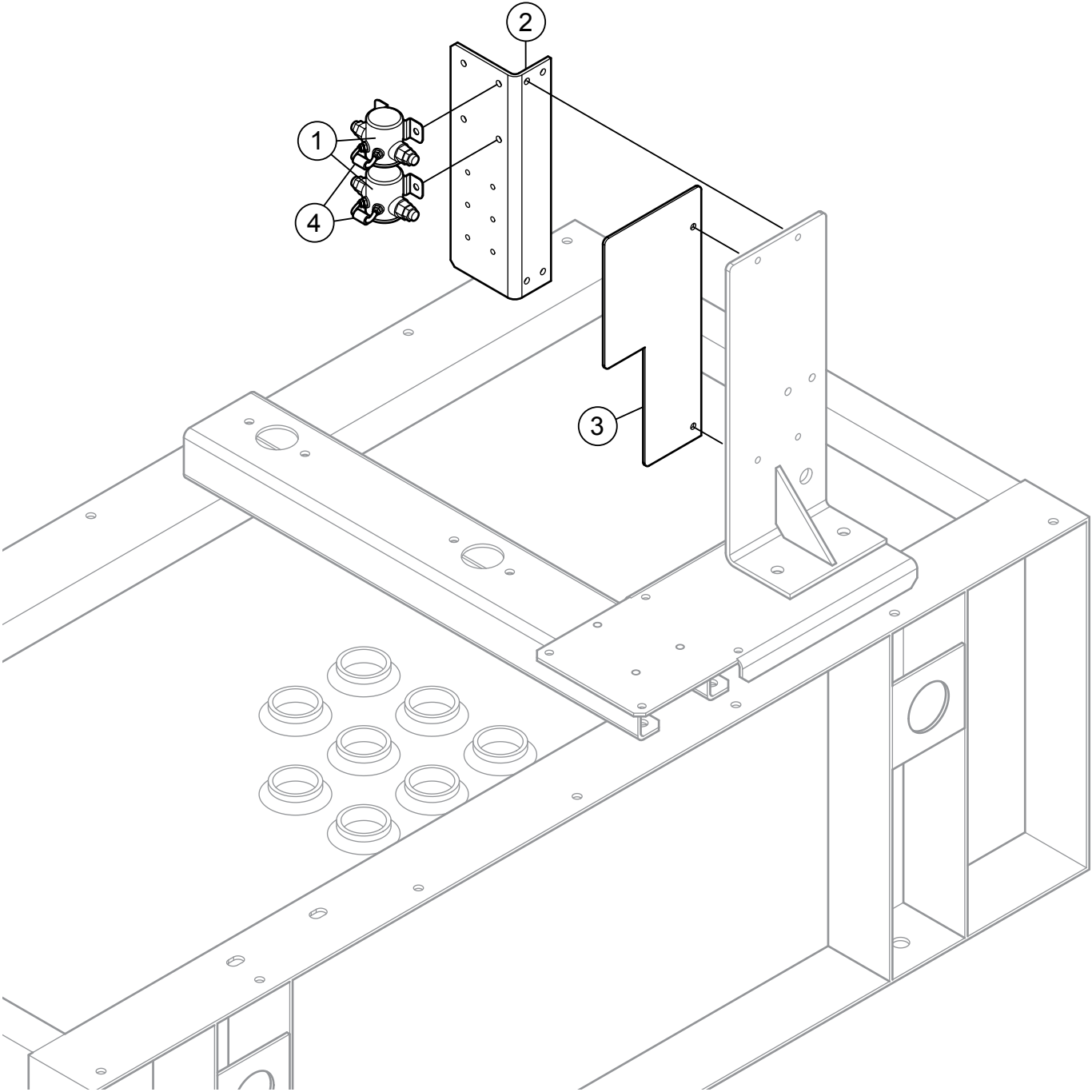
JACKET WATER HEATER ASSY.



JACKET WATER HEATER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE40205	HEATER, ENGINE BLOCK, TANK STYLE	1	
2	EE40939	BRACKET, MOUNTING, HEATER	1	
3		CLAMP, HOSE #10 (SILICONE STYLE)	4.....	OBTAIN LOCALLY
4		HOSE, HEATER, HI-MILLER, 5/8IN X 2FT	2.....	OBTAIN LOCALLY
5	EE18071	VALVE, LOCKING BALL, 3/8IN INLET	2	

SOLENOID ASSY.



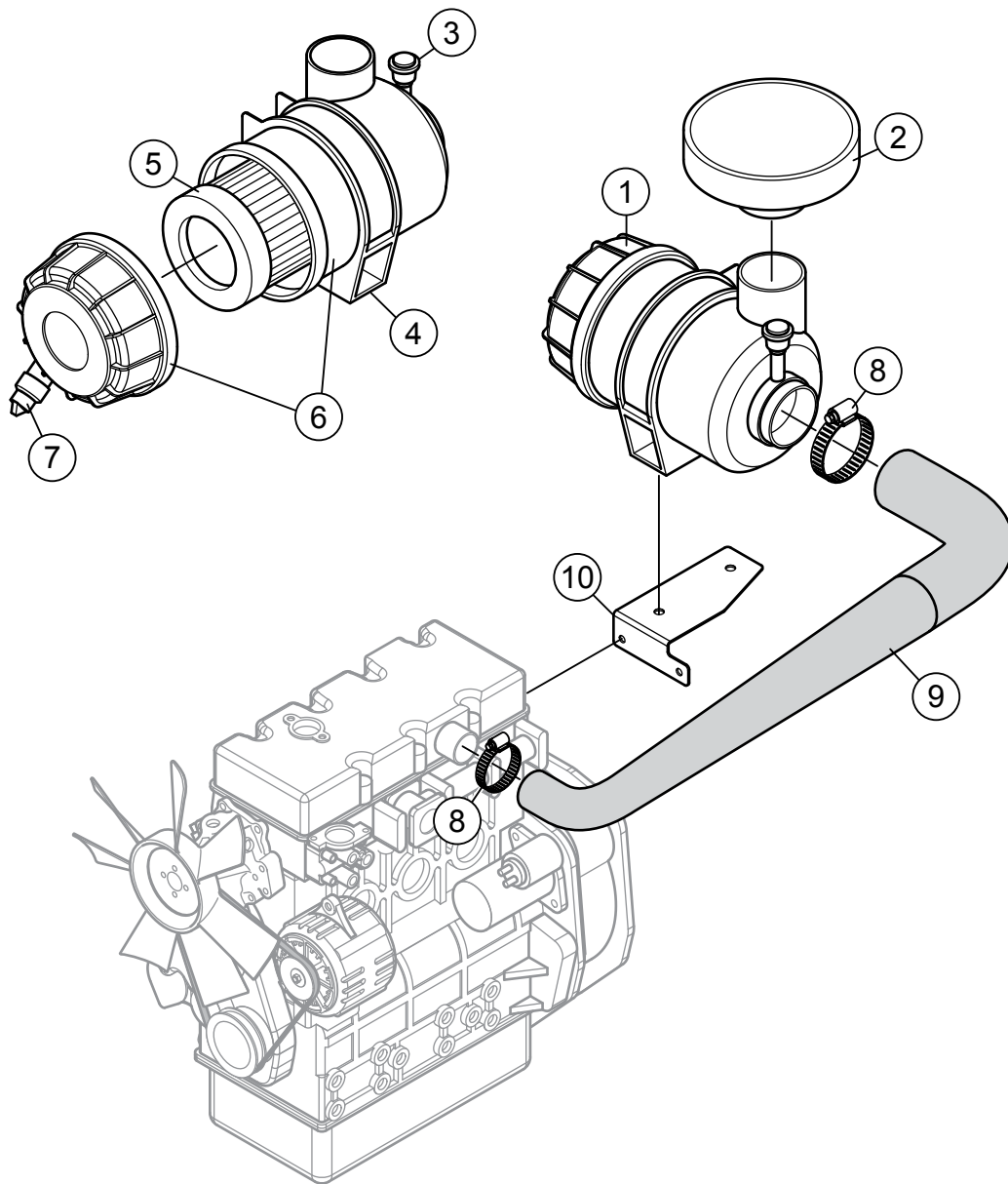
SOLENOID ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE2916	RELAY, STARTER SOLENOID, 12V	2	
2	EE41370	BRACKET, STARTER SOLENOID	1	
3	EE41595	SHIELD, LEXAN COVER, SOLENOID	1	
4	EE5736	DIODE, /AMP	2	

RADIATOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	TPN440	RADIATOR.....	1.....	INCLUDES ITEMS W/@
2	U45546860	GUARD	1	
3	U75316330	FAN GUARD	1	
4	U75316371	FAN GUARD	1	
5	U75316312	GUARD	1	
6@	24850083	SHROUD	1	
7	U45977221	BRACKET	1	
8	U98116931	MOUNTING	1	
9	U45977201	BRACKET	1	
10	U45010062	WATER PUMP	1	
11	145306880	FAN	1	
12	U10267271	BRACKET	1	
13	U45976820	BRACKET	1	
14	U10267291	BRACKET	1	
15	145996051	GASKET, THERMOSTAT	1	
16	145206230	THERMOSTAT	1	
17	944-116	VALVE, DRAIN, MINI BALL 1/4IN NPT	1	
18		HOSE, DRAIN, INSTA-GRIP 3/8-13.5IN.....	1.....	MAKE LOCALLY
19@	24850072	RADIATOR CAP	1	
20@		HOSE, 1/4IN I.D. X 32IN.....	1.....	MAKE LOCALLY
21	EE46221	SENSOR, COOLANT LEVEL	1	
22	0180067	CLAMP	4	
23	U45537130	HOSE, RADIATOR UPPER	1	
24	U45537140	HOSE, RADIATOR LOWER	1	
25	MEC000788	SENSOR, WATER TEMP.	1	
26	EE10696	KIT, WIRING HARNESS COOLANT SENSR	1	
26A	EE22218	SPLIT LOOM, 3/8IN	3FT	

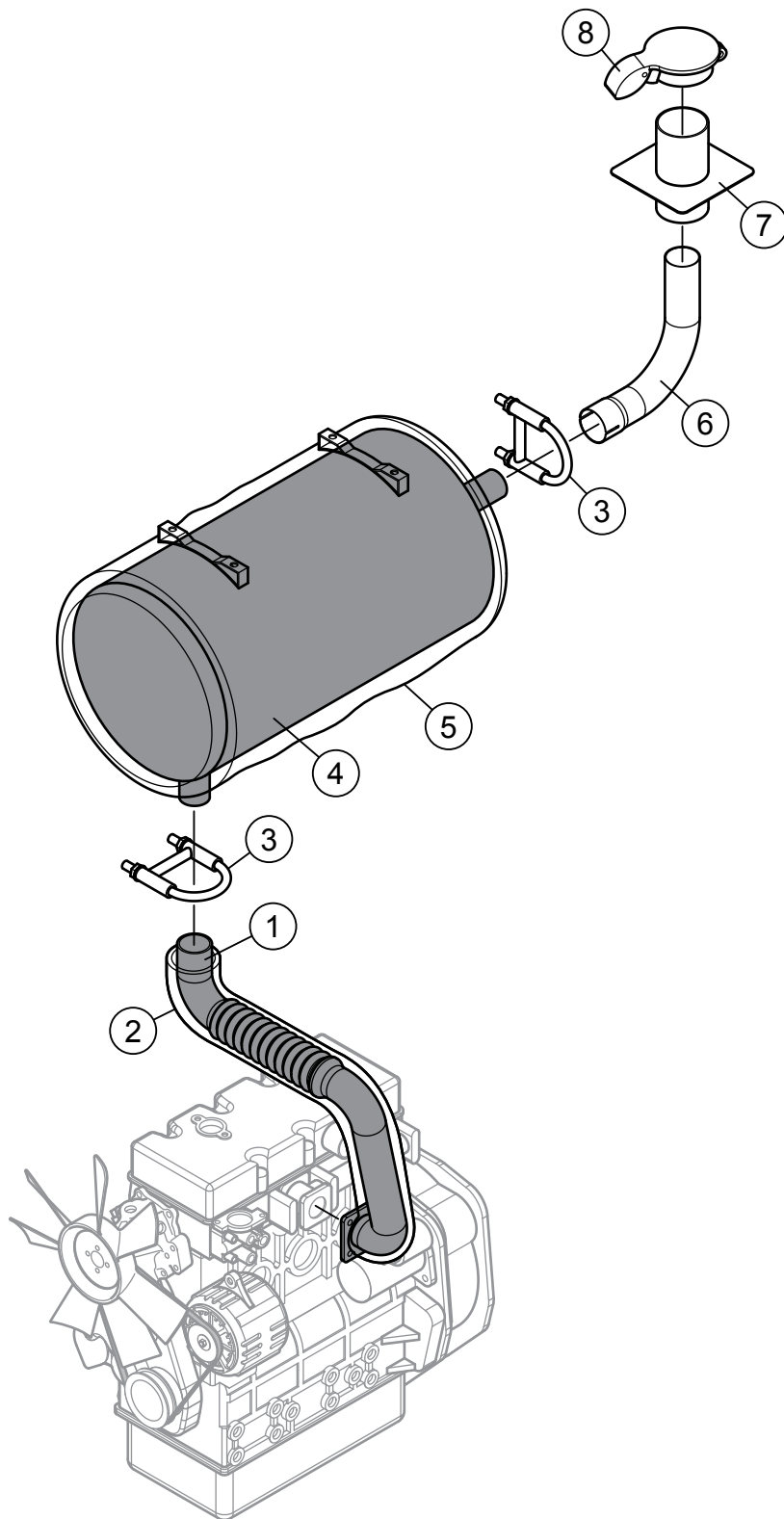
AIR FILTER ASSY.



AIR FILTER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	135016350	AIR FILTER ASSY.....	1	INCLUDES ITEMS W/@
2	W14501020	COVER	1	
3@	26510402	INDICATOR	1	
4@	26510418	BRACKET	1	
5@	135326206	ELEMENT, AIR FILTER	1	
6@		BODY	1	NOT SERVICED SEPARATELY
7@	26510194	VALVE	1	
8	21825194	CLAMP	2	
9	U35597790	HOSE	1	
10	U30976791	BRACKET	1	

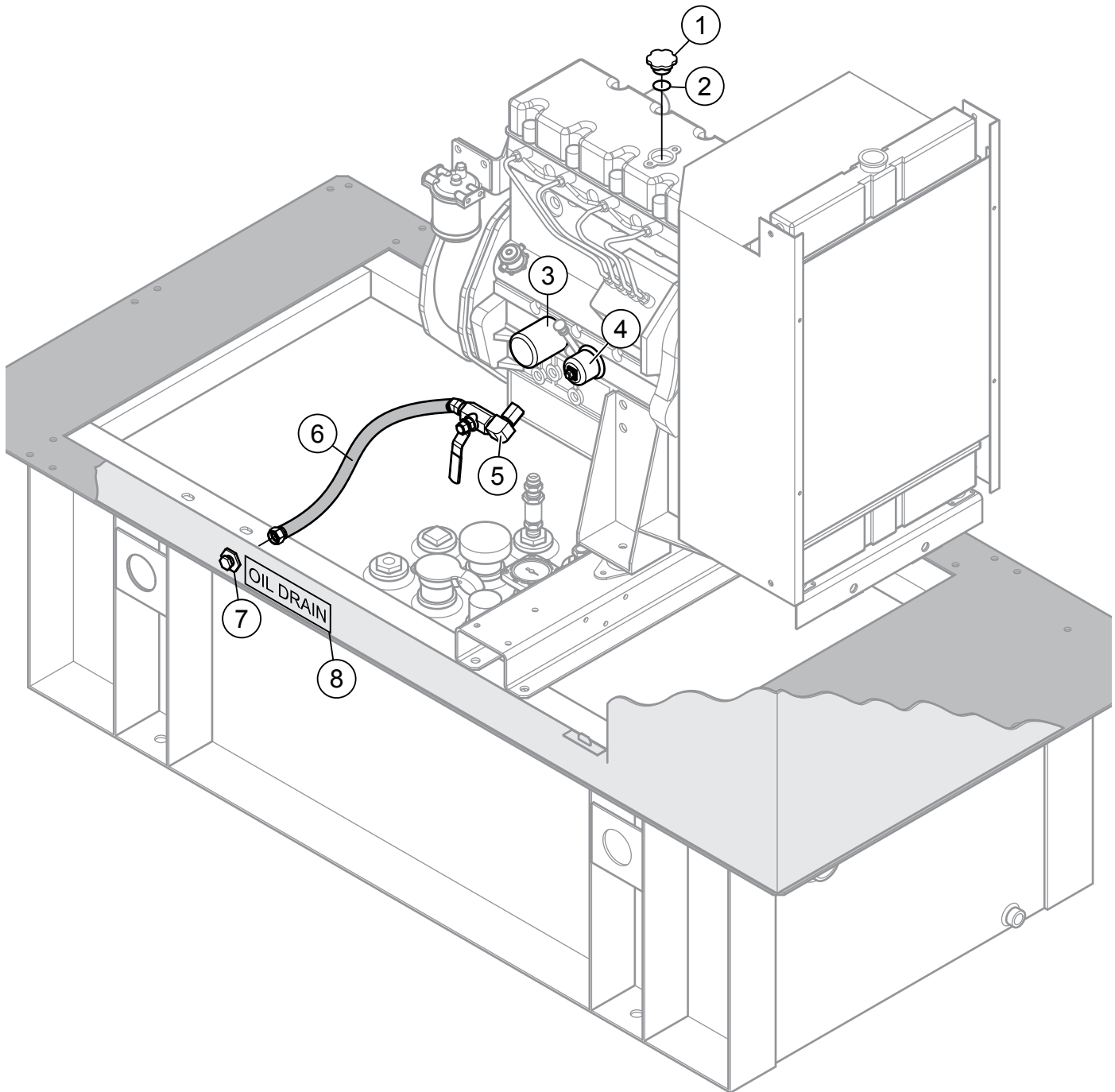
ENGINE EXHAUST ASSY.



ENGINE EXHAUST ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE54297	EXHAUST FLEX	1	
2	EE9925	INSULATION, GLASS GASKET TAPE	1	
3	EE41113	CIA, U-STYLE, ZIN PLATED	2	
4	EE40950	SILENCER, 2 IN IN/OUT W/ BLANKET ASSY.	1	
5	IBJB2SI6CSGA	COVER, BLANKET ASSY	1	
6	EE41076	ELBOW, EXHAUST 2 IN	1	
7	EE6971	ASSY, W/ FLANGE & NIPPLE, EXHAUST	1	
8	EE16610	RAIN CAP, ALUM, 2-1/2IN	1	

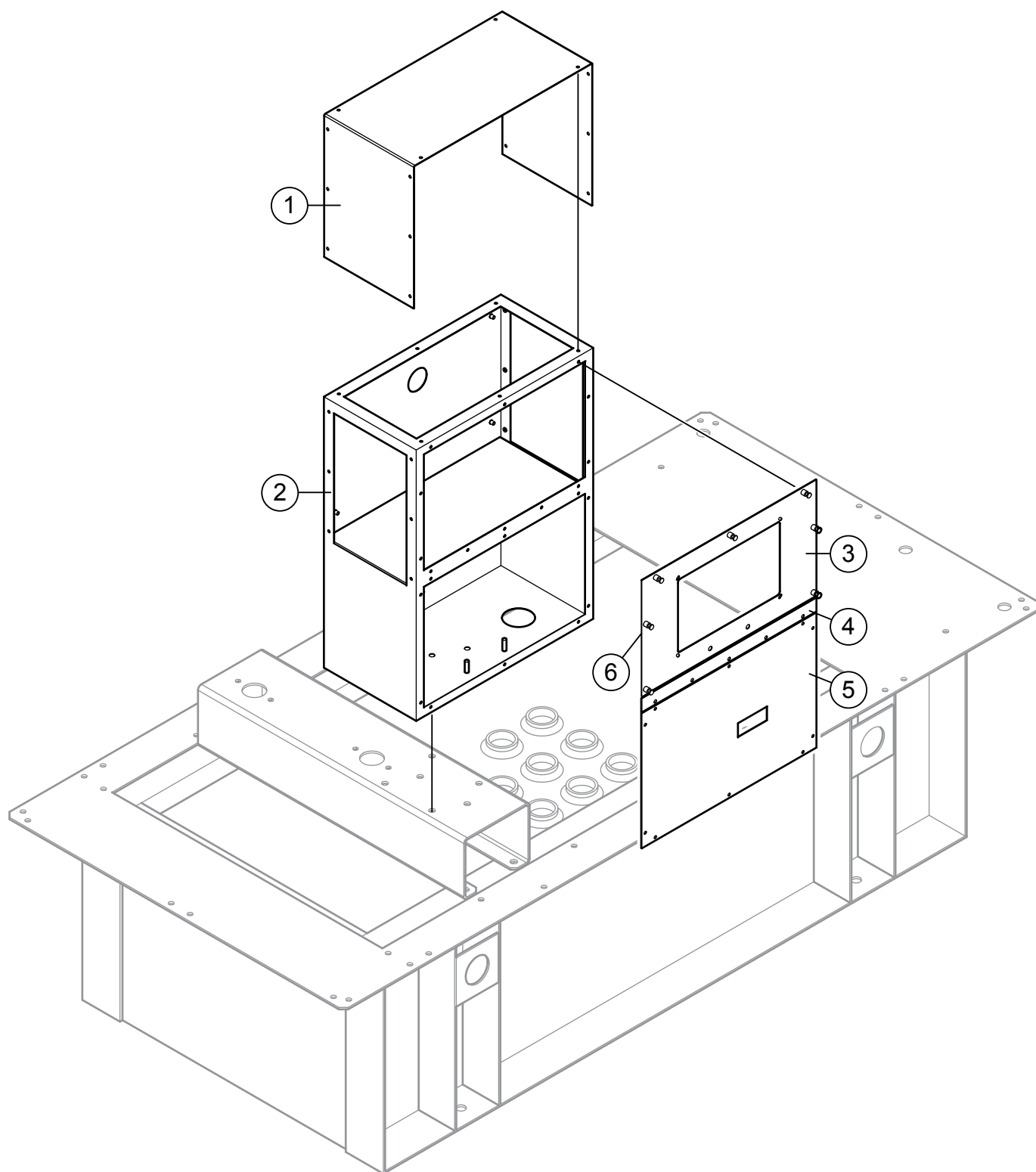
ENGINE OIL ASSY.



ENGINE OIL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	U98436350	OIL FILLER CAP	1	
2	052100400	SEAL, O-RING	1	
3	140517050	OIL FILTER	1	
4	MEC003654	SENSOR, OIL PRESSURE	1	
4A		ADAPTER, BSPT-2-2.....	1.....	OBTAIN LOCALLY
5	EE18072	VALVE, LOCKING BALL, BRASS, 1/2IN FNPT	1	
6		HOSE, OIL DRAIN, GOODYEAR	1.....	MAKE LOCALLY
		INSTRA-GRIP 3/8IN X 16 IN.		
7	218P-4	PLUG, OIL DRAIN, 1/4 IN. NPT BRASS	1	
8	EE7314	OIL DRAIN, PLACARD	1	

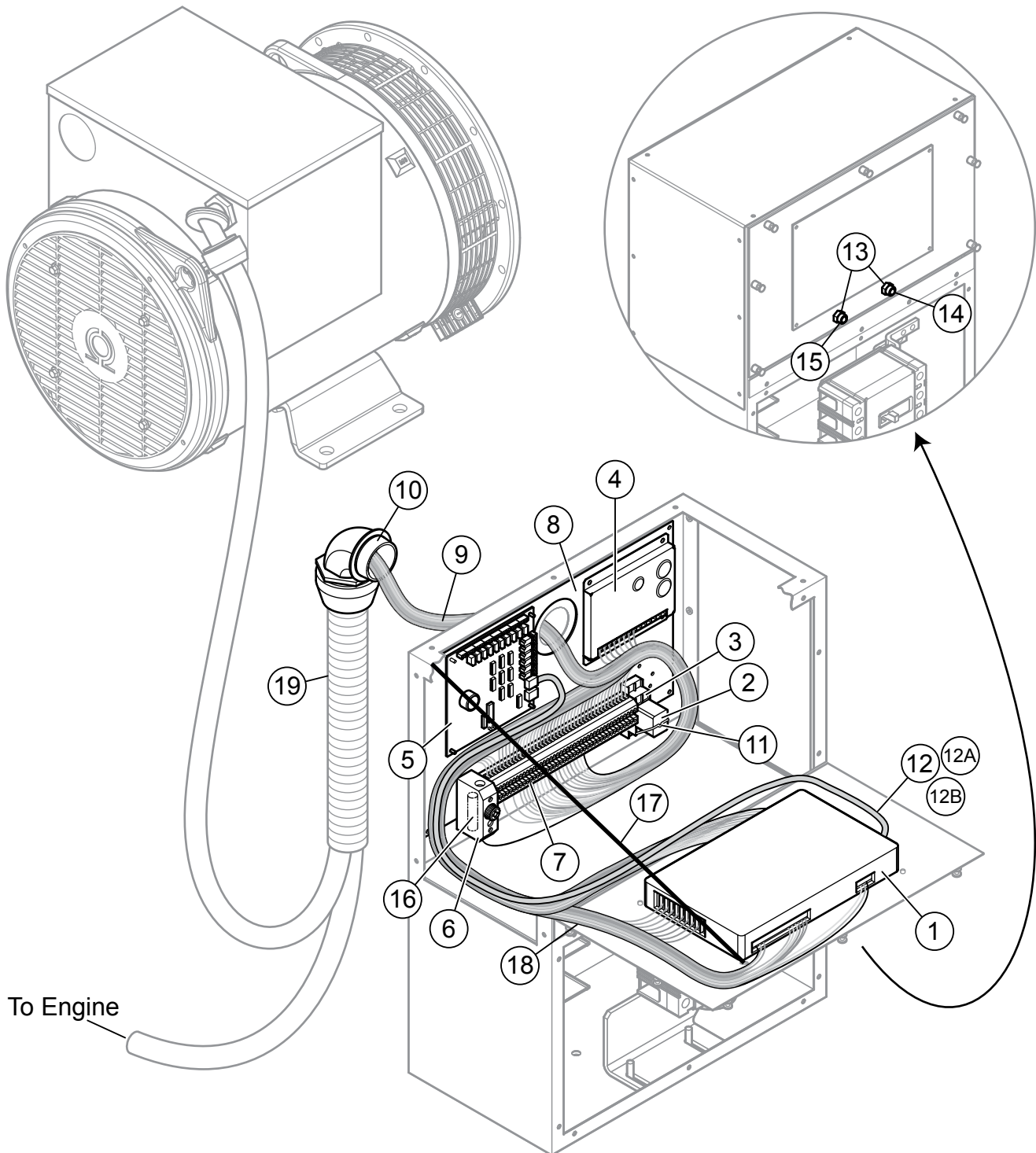
CONTROL PANEL ASSY.



CONTROL PANEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE40941	COVER, TOP, CONTROL AND CIRCUIT BREAKER	1	
2	EE40940	FRAME, BOX, CONTROL AND CIRCUIT BREAKER	1	
3@	EE40944	PANEL, FRONT, CONTROL PANEL	1	
4@	EE40945	HINGE, FRONT RAIL	1	
5	EE40946	PANEL, FRONT, CIRCUIT BREAKER	1	
6	EE40942	ASSY, FRONT CONTROL PANEL W/ HINGE	1	INCLUDES ITEM W/@

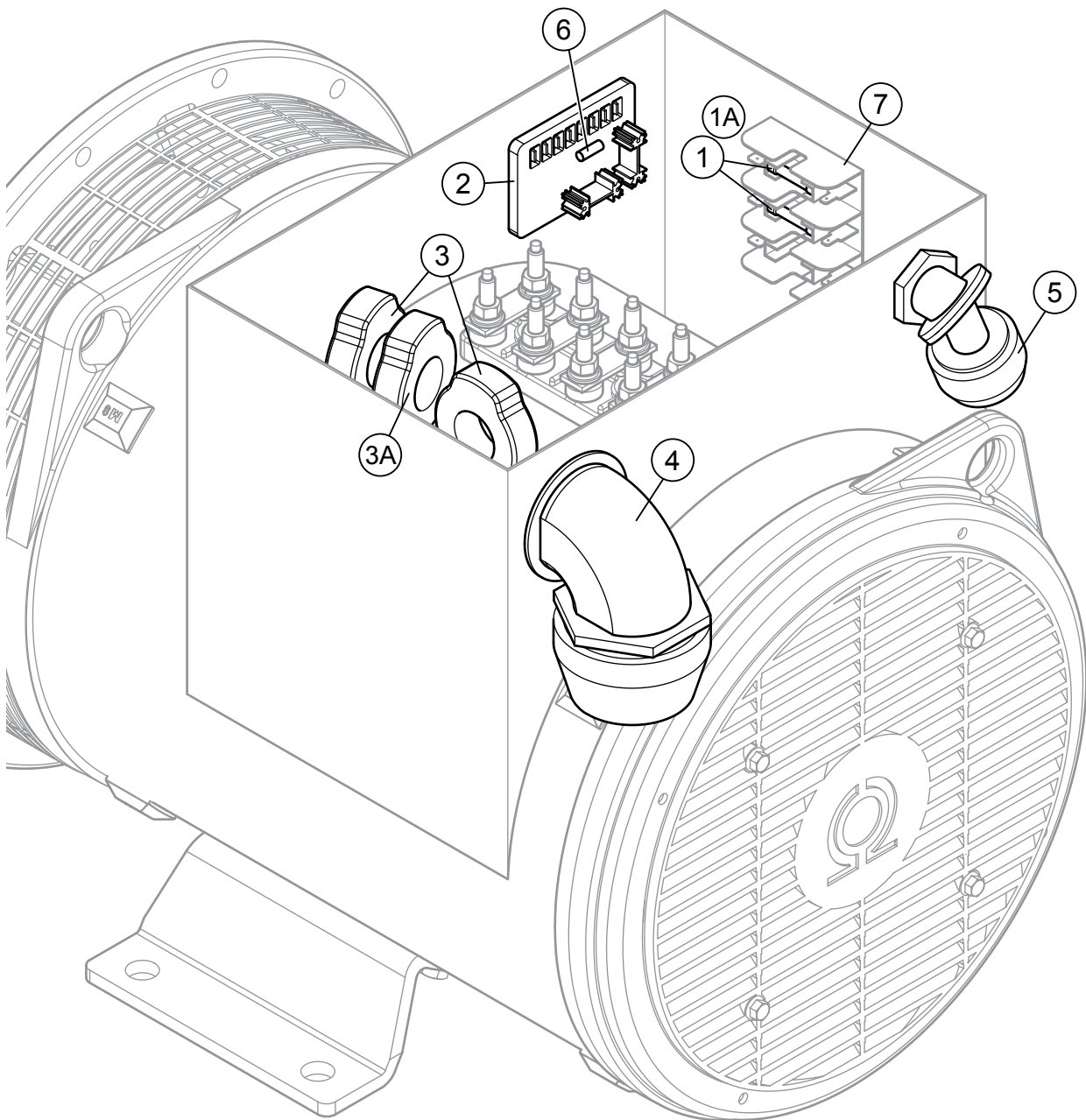
CONTROLLER ASSY.



CONTROLLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE30144	CONTROLLER, ENG. & GEN., MEC-20, 12/24VDC	1	
2	EE26384	RELAY, 8 BLADE DPDT, 12VDC, 10A	1	
3	EE26385	BASE, RELAY, SNAP/SURFACE MOUNT	1	
4	EE23991	CONTROLLER, SPEED UNIT, 12/24V	1	
5	EE35388	MODULE, OUTPUT EXPAN., MEC 2/20 W/CABLE	1	
6	EE26108	BLCK, FUSE HOLDR, WEIDMULLER, POWER COMM	1	
7	EE26096	BLOCK, TERMINAL, SAK 2.5-WEIDMULLER	41	
8	EE41056	PANEL, BACK, MEC 20	1	
9	EE41503	WIRE HARNESS	1	
10	EE6010	FITTING, CONDUIT, NON-METAL., 2IN, 90 DEG	1	
11	EE26135	RETAINER, HLDDWN WIRE, MINI RELAY, 8	1	
12	MEC006950	CABLE, RJ45, STP, CAT5E, 6'	1	
12A	MEC006885	CABLE, ADAPTER, DB9M/RJ45	1	
12B	MEC006901	CABLE, ADAPTER, D39F/RJ45	1	
13	EE9949	NUT, SHAFT LOCK, POTENTIOMETER	2	
14	EE26026	POTENTIOMETER, 2K OHM +/-5%, 10 TURN, 2W	1	
15	EE2115	POTENTIOMETER, 5K OHM +/-5%, 10 TURN, 2W	1	
16	EE5812	FUSE, 10 AMP, GOULD SHAWMUT, MIDGT	1	
17	EE41430	LANYARD, CONTROL PANEL 21 -1/2 IN LNG	1	
18	EE41444	WIRE HARNESS, CONTROL BOX	1	
19	EE5980	CONDUIT, POLY TUFF TUBING, BLACK	1	

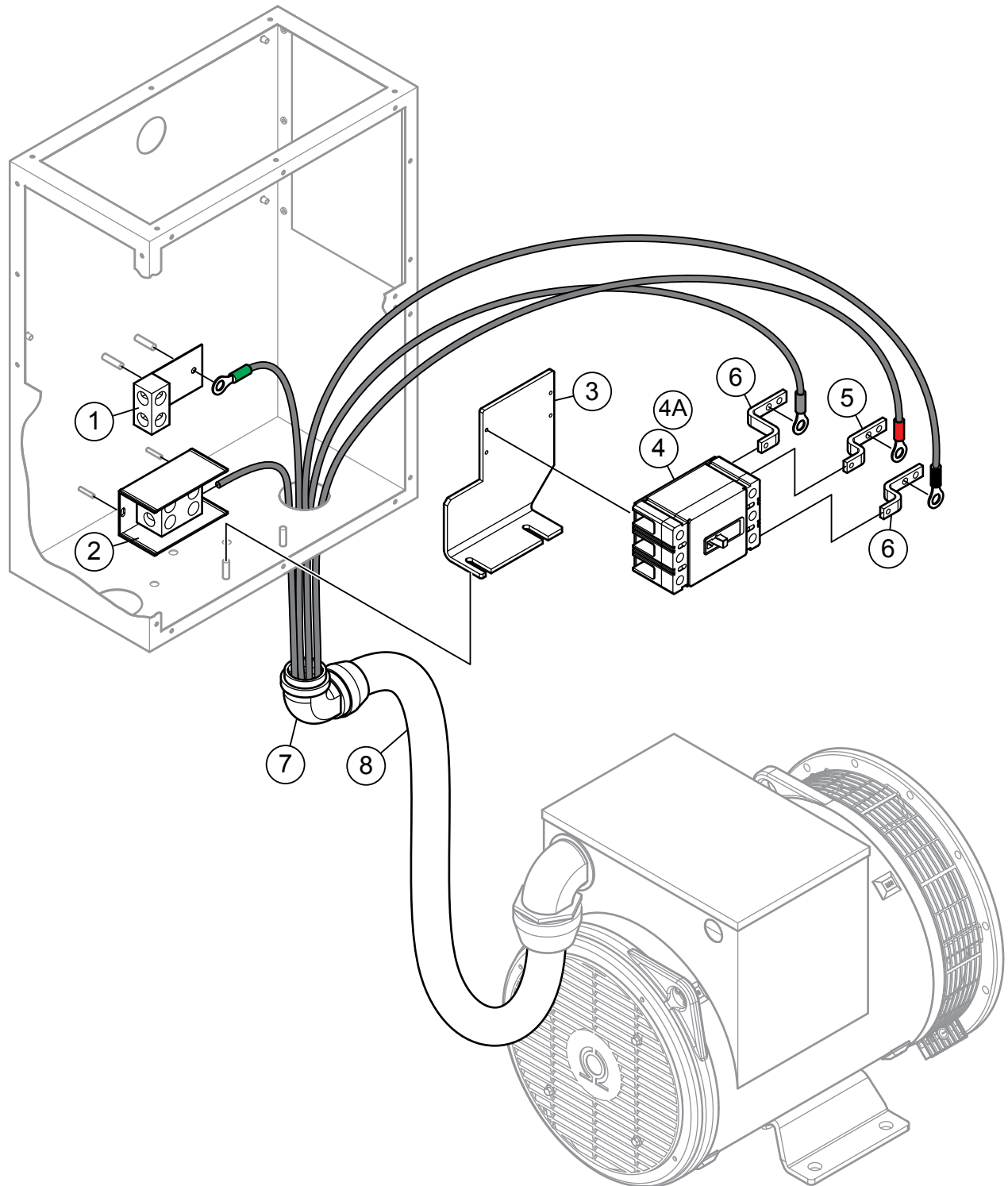
SADDLEBOX ASSY.



SADDLEBOX ASSY.

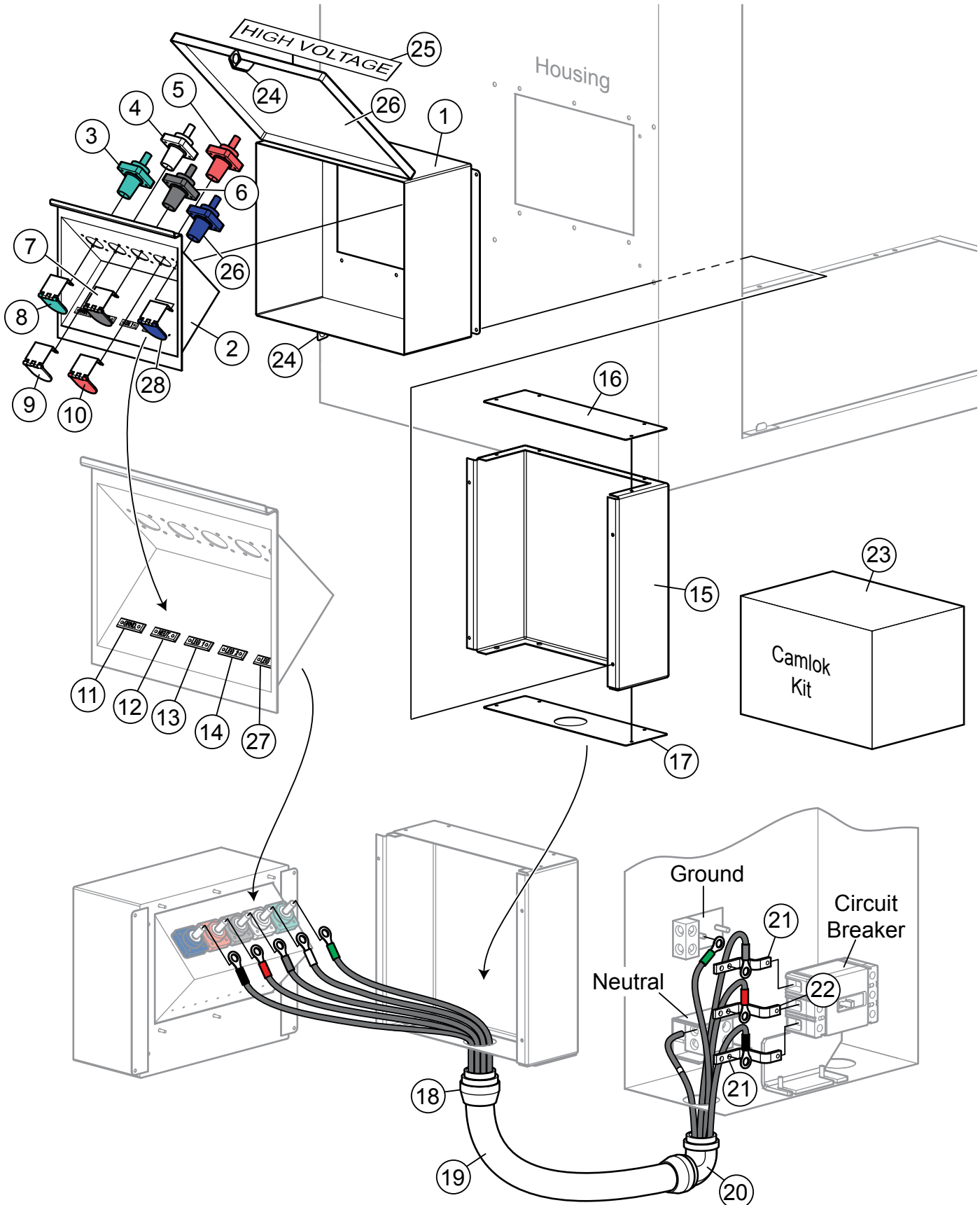
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE5811	FUSE, 5 AMP	2.....	1 PHASE UNITS
1A	EE5811	FUSE, 5 AMP	3.....	3 PHASE UNITS
2	761594-01	VOLTAGE REGULATOR	1	
3	EE10470	TRANSFORMER, CURRENT, 100:5	2.....	1 PHASE UNITS
3A	EE10476	TRANSFORMER, CURRENT, 50:53	3.....	3 PHASE UNITS
4	EE6010	FITNG, CONDU., NON-METAL, 2IN, 90 DEG	1	
5	EE6023	CONNECTOR, SWIVELLOK	1	
6	A-527066-1	FUSE, 5 AMP, SLOW BLOW	1	
7	EE5759	BLOCK, MIDGET FUSE TYPE, 3 POLE	1	

CIRCUIT BREAKER ASSY.



CIRCUIT BREAKER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EE41018	GROUND	1	
2	EE41019	NEUTRAL	1	
3	EE40948	BRACKET, SUPPORT CIRCUIT BREAKER	1.....	1 PHASE UNITS ONLY
4	EE10997	CB, CUTLER HAMMER, 3-POLE, 100A	1.....	1 PHASE UNITS ONLY
4A	EE38966	CB, CUTLER HAMMER, 3 POLE, 30A.....	1.....	3 PHASE UNITS ONLY
5	EE41048	BUS BAR, LONG, 1/4 IN COPPER BAR	1	
6	EE41047	BUS BAR, SHORT, 1/4 IN COPPER BAR.....	1.....	1 PHASE UNITS ONLY
6	EE41047	BUS BAR, SHORT, 1/4 IN COPPER BAR.....	2.....	3 PHASE UNITS ONLY
7	EE6009	CONDUIT, FITTING, 90°, NONMETALLIC	1	
8	EE5980	CONDUIT, 52 IN LONG	1	



CAMLOK ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1@	EE40216	BOX, CONTINUOUS HINGE, HOFFMAN	1	
2@	EE8314	PANEL, WELL, CAMLOK CONNECTION	1	
3@	EE6382	RECEPTACLE, PNL MNT, FEMALE, GREEN	1	
4@	EE6379	RECEPTACLE, PNL MNT, FEMALE, WHITE	1	
5@	EE6380	RECEPTACLE, PNL MNT, FEMALE, RED	1	
6@	EE6378	RECEPTACLE, PNL MNT, FEMALE, BLACK	1	
7@	EE41040	COVER, HINGED, BLACK	1	
8@	EE41044	COVER, HINGED, GREEN	1	
9@	EE41043	COVER, HINGED, WHITE	1	
10@	EE41041	COVER, HINGED, RED	1	
11@	EE23020	PLACARD, VINYL, GROUND	1	
12@	EE23019	PLACARD, VINYL, NEUTRAL	1	
13@	EE23016	PLACARD, VINYL, LEG 1	1	
14@	EE23017	PLACARD, VINYL, LEG 2	1	
15@	EE41471	COVER, CAMLOK PNL, INSIDE	1	
16@	EE41540	TOP, COVER, CAMLOK PNL, INSIDE	1	
17@	EE41546	BOTTM, COVER, CAMLOK PNL, INSIDE	1	
18@	EE6004	CONDUIT, FITTING, STR, 2IN	1	
19@	EE5980	CONDUIT, TUBING, 23 IN	1	
20@	EE6010	FITTING, CONDUIT, 90-DEG, 2IN	1	
21@	EE41047	BUS BAR, SHORT, 1/4 IN COPPER BAR	2	3 PHASE UNITS ONLY
22@	EE41048	BUS BAR, LONG, 1/4 IN COPPER BAR	1	
23	EE40866	CAMLOK ASSY	1	INCLUDES ITEMS W/@
24	EE40056	KIT, PADLOCK, BOX	1	
25	EE6449	DECAL, DANGER HIGH VOLTAGE	1	
26	EE6381	RECEPTACLE, PNL MNT, FEMALE, BLUE	1	3 PHASE UNITS ONLY
27	EE23018	PLACARD, VINYL, LEG 3	1	3 PHASE UNITS ONLY
28	EE41042	COVER, HINGED, BLUE	1	3 PHASE UNITS ONLY