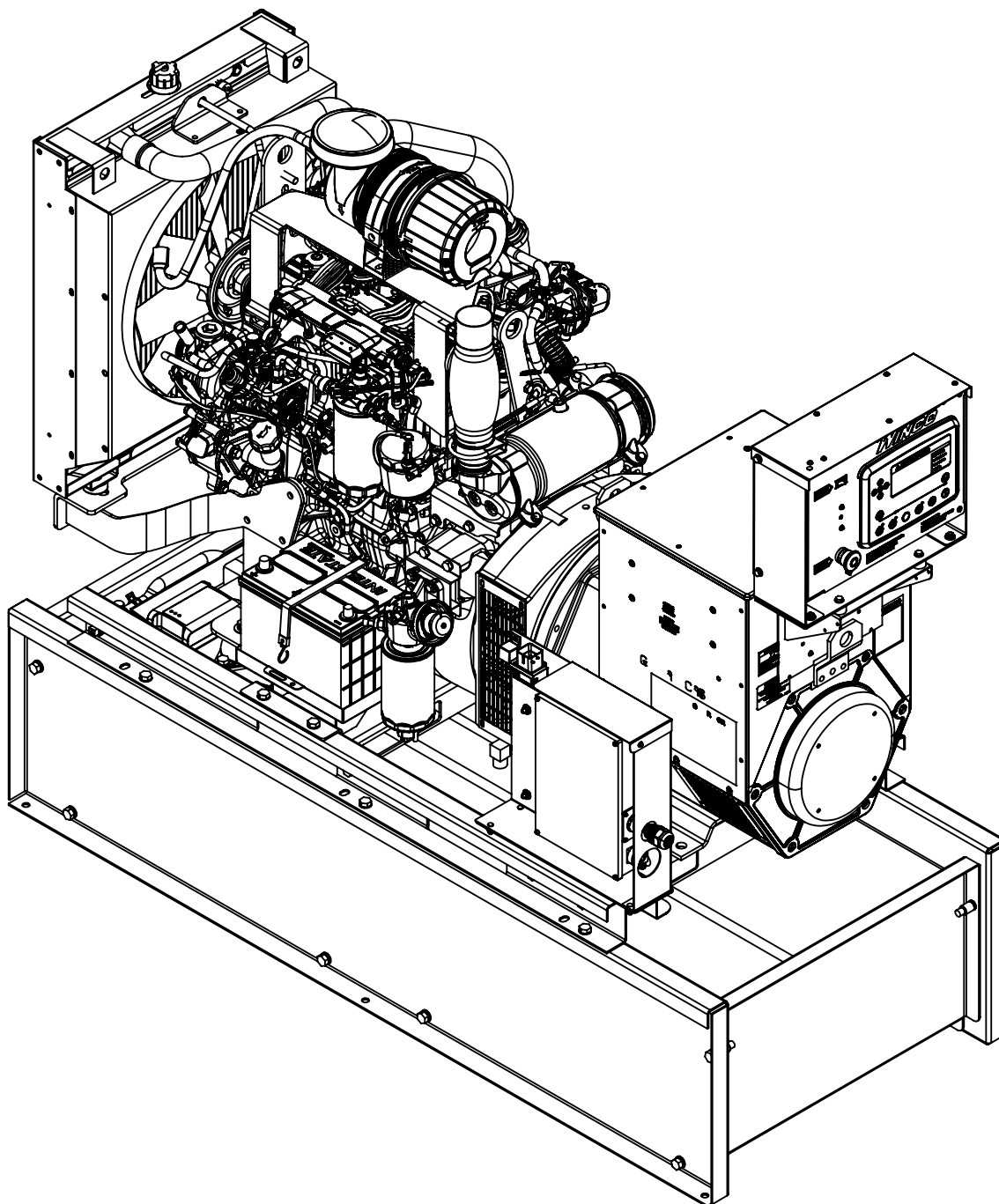


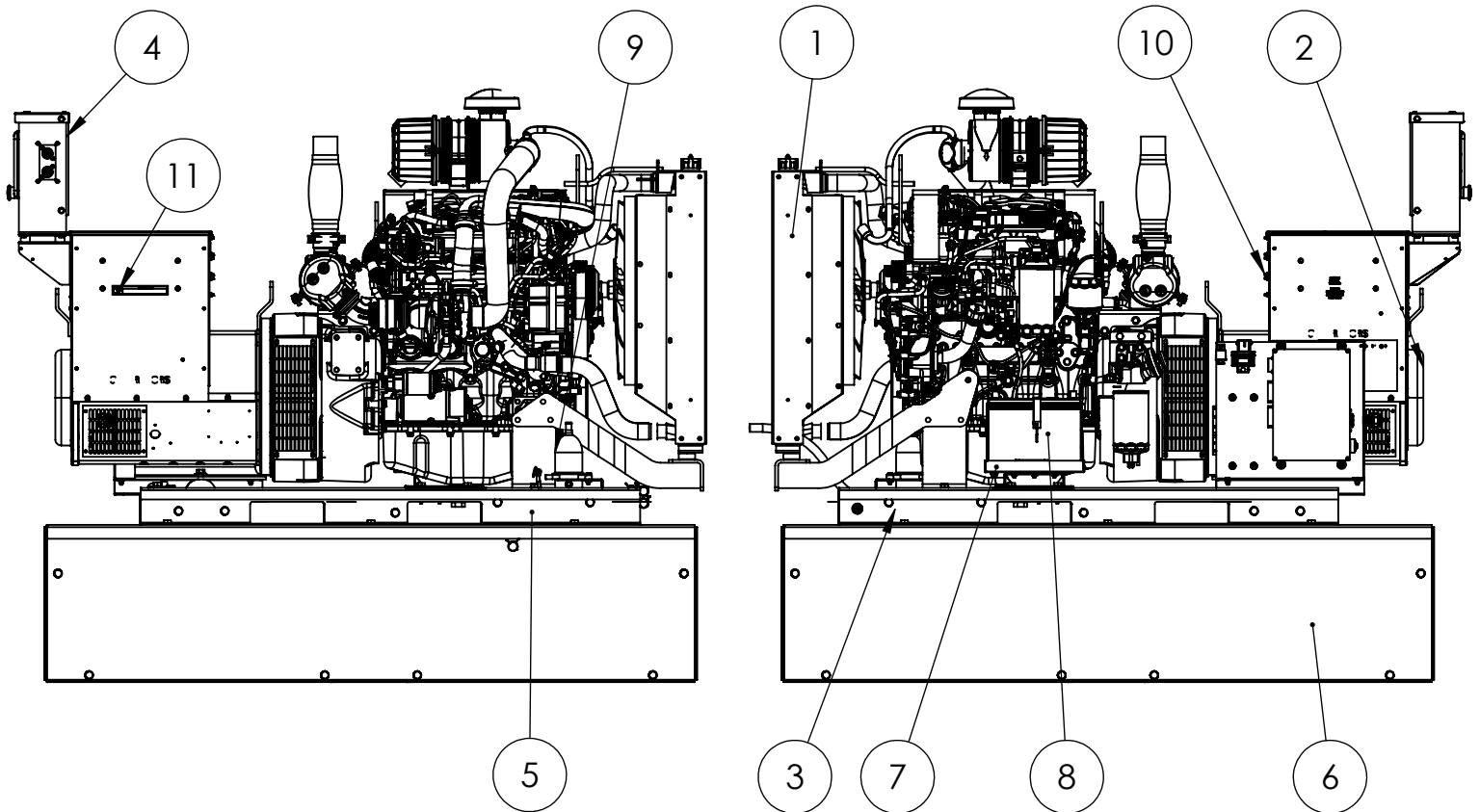


DE50F4-XX/4 Parts List



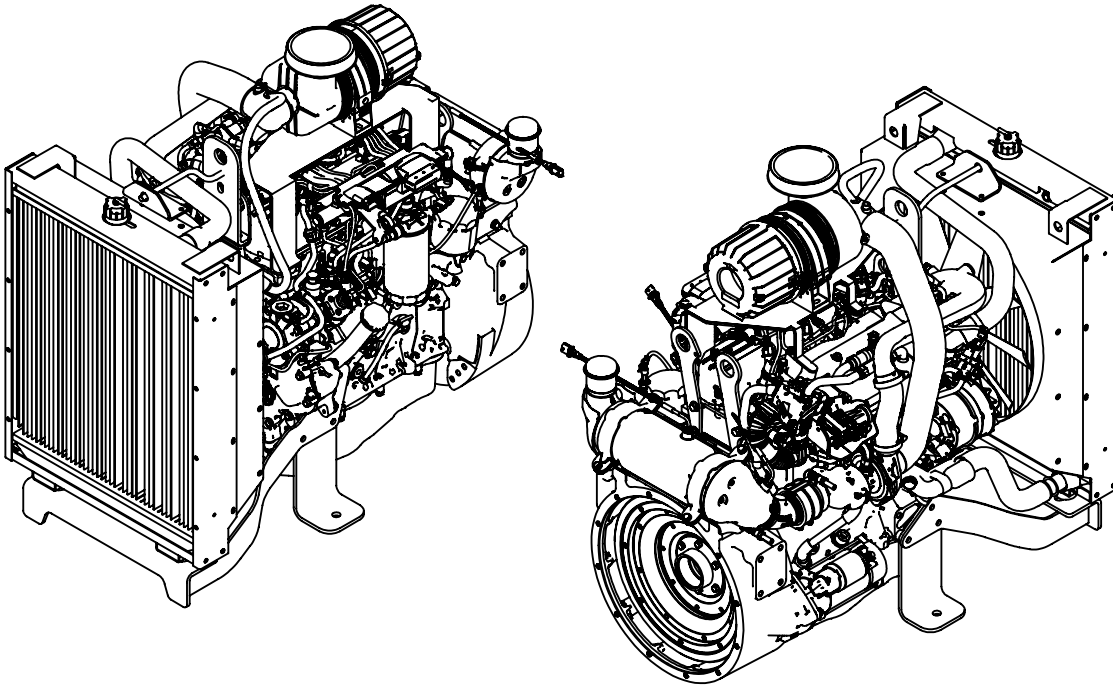
WINCO Service
Phone: 507-357-6831
Email: service@wincogen.com
www.wincogen.com

General Assembly



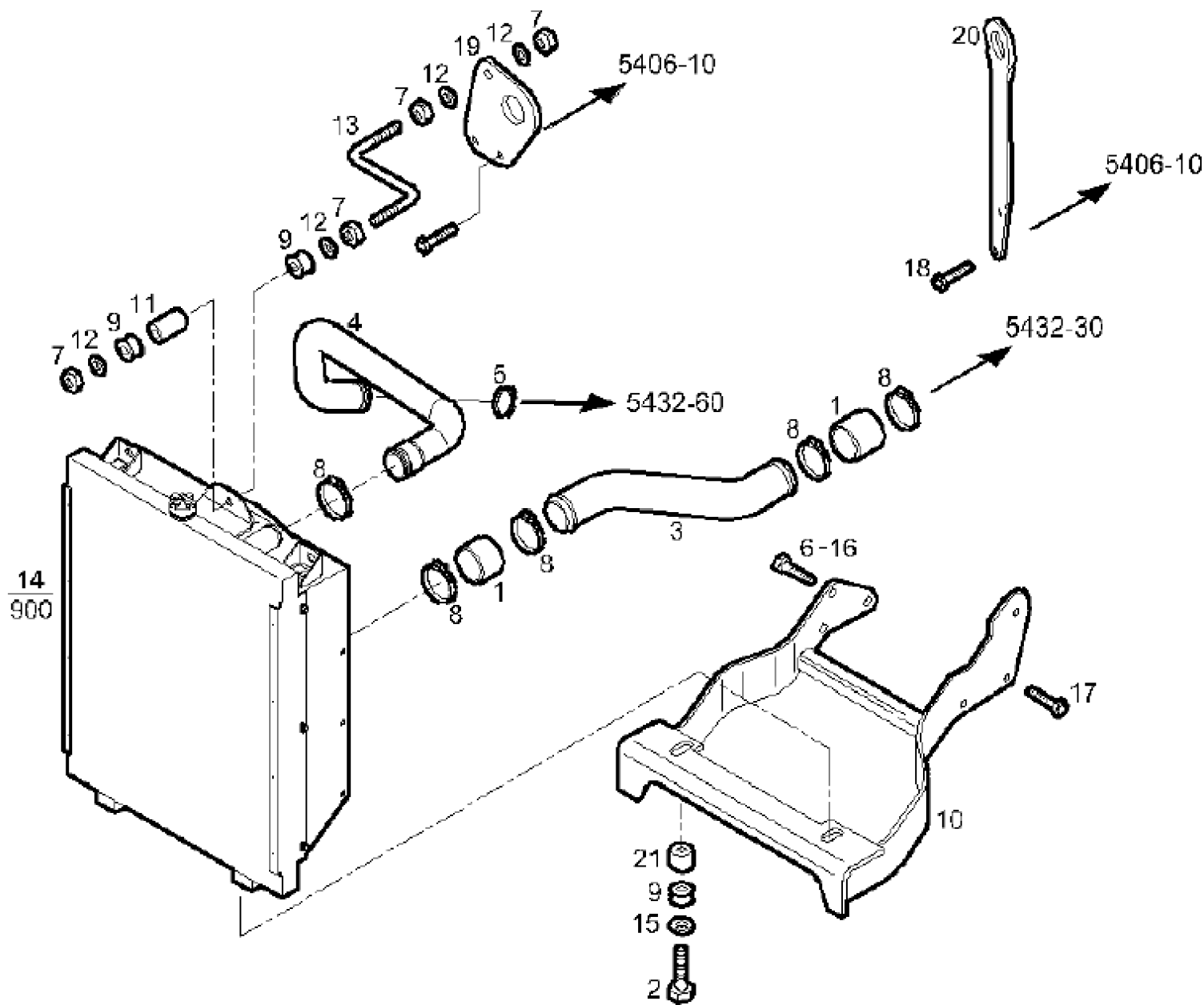
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	350001-92	ENGINE FPT F5C F34	1
2	351930-3	UCI224E, SAE#3/11.5, WDG#311, 12-LEAD	1
3	352020-26	BATTERY CHARGER KIT, 12V, 1.5 AMP	1
4	1000-0541	CONTROLLER MOUNT ASSEMBLY	1
5	1000-0924	DE50 BASE ASSEMBLY	1
6	1000-0554	DE FUEL TANK ASSEMBLY	1
7	805050-000	BATTERY TRAY KIT	1
8	80765-010	BATTERY 12V 650CCA GROUP 24	1
9	1000-0926	DE50 HARDWARE KIT	1
10	1000-0769	DISTRIBUTION BOX ASSEMBLY	1
11	1000-0783	DECAL AND NAMEPLATE INSTALLATION DE4040 MKII	1
12	411050-001	ENGINE ECU HARNESS FPT F5C	1
13	411050-004	HARNESS FTP F5C	1

Engine



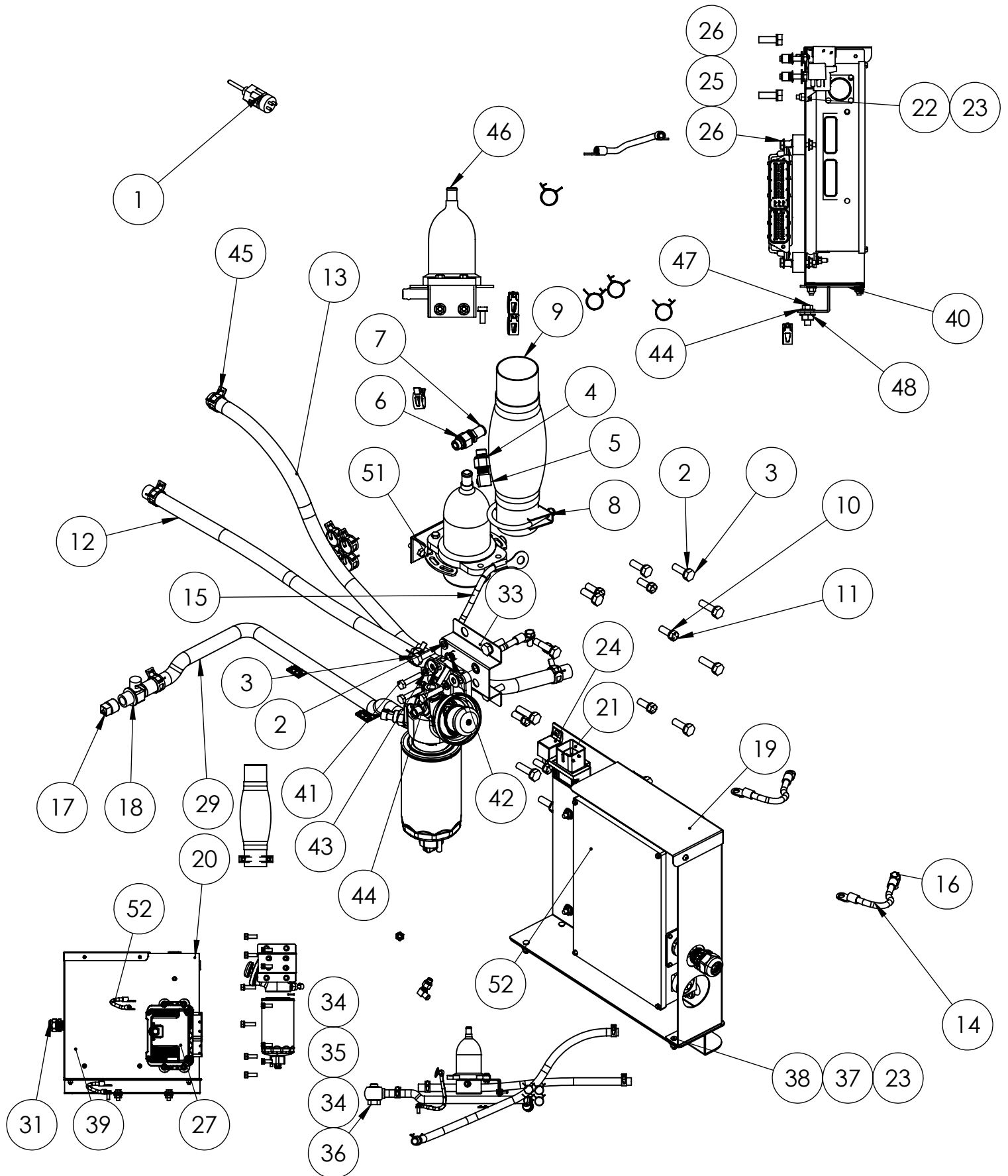
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	6-137	AIR FILTER	1
2	6-138	OIL FILTER	1
3	6-139	FUEL FILTER	1
4	6-140	WATER SEPARATOR FILTER	1
ALL ITEMS LISTED IN THE ABOVE TABLE ARE INCLUDED WITH A 16200-021 MAINTENANCE KIT PURCHASE			
5	6-176	STARTER MOTOR	1
6	6-177	ALTERNATOR	1
7	6-159	FAN BELT	1
8	6-180	AIR FILTER HOSE	1
9	6-181	AIR TEMPERATURE SENSOR	1
10	6-178	UPPER RADIATOR HOSE	1
11	6-179	LOWER RADIATOR HOSE	2
Contact Winco service for full engine parts support.			

Radiator Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
--	6-178	UPPER RADIATOR HOSE	1
--	6-179	LOWER RADIATOR HOSE	2
Contact Winco service for full engine parts support.			

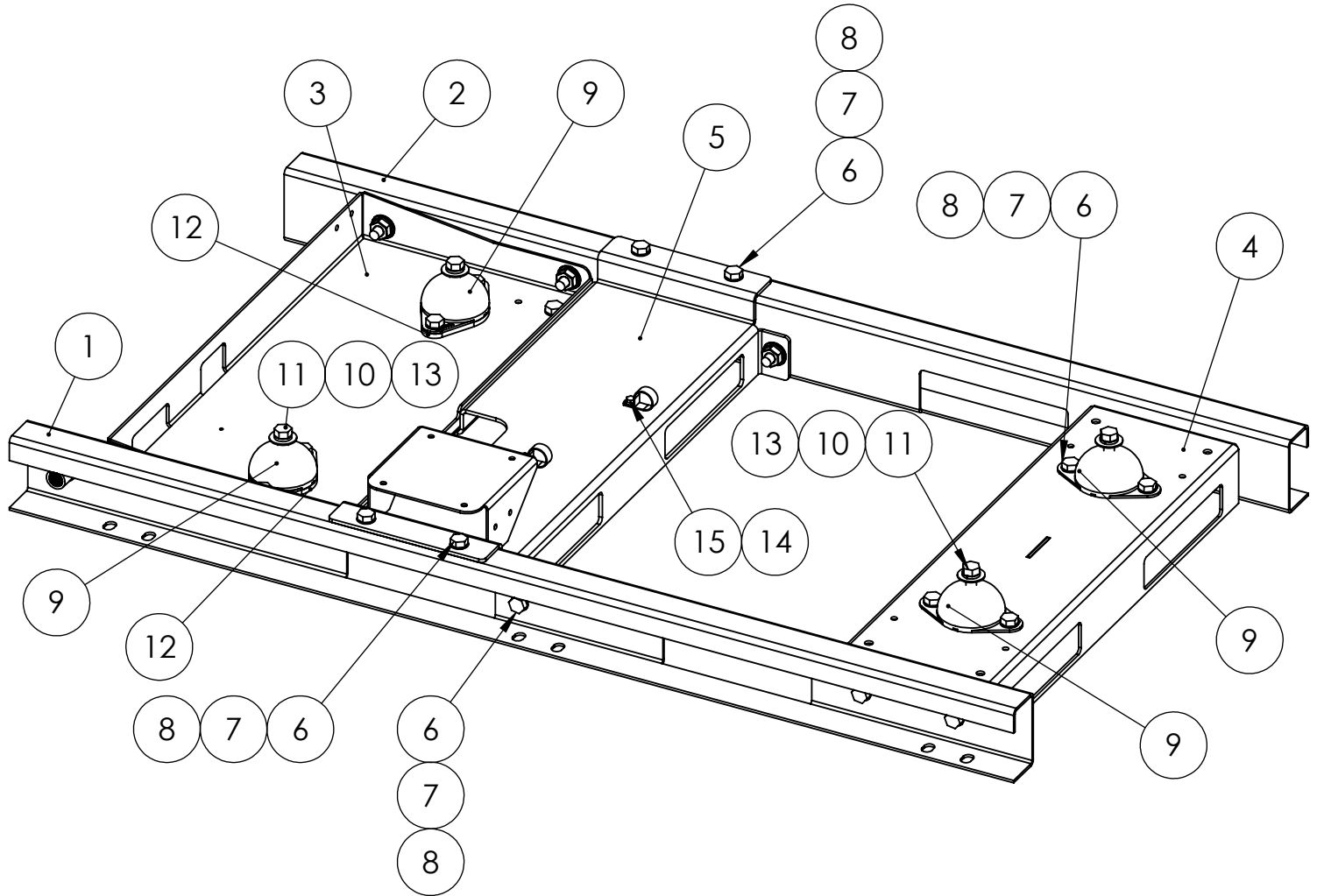
Hardware Kit



Hardware Kit

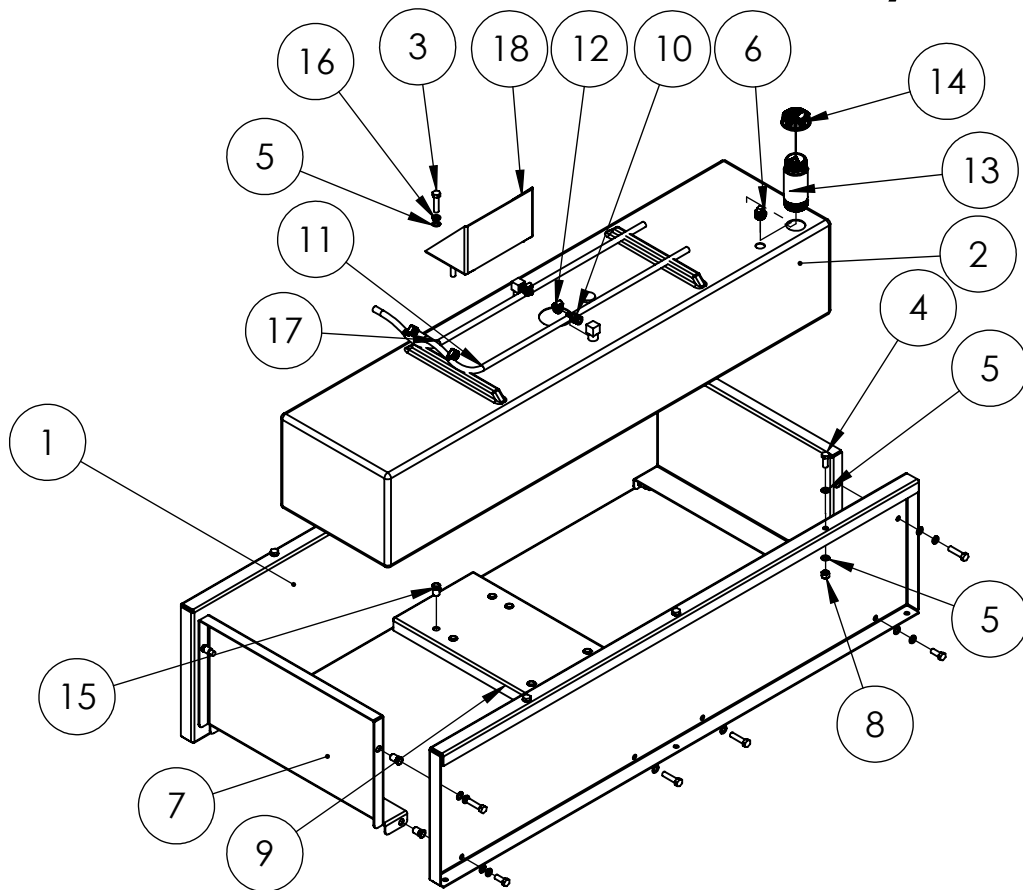
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	6-117	LOW COOLANT SENSOR	1
2	97436-010	M10 LOCKWASHER	16
3	96003-030	M10-1.5X30MMM	12
4	300349-6	ADAPTER M16X1.5(M) X 3/8-18NPT (F)	1
5	92382-000	HOSE FIT.ELBOW .375NPT X .625 HOSE	1
6	300349-9	ADAPTER M18X1.5(M) X 3/8-18NPT (F)	1
7	92388-000	HOSE FIT .375NPT X .625 HOSE	1
8	93489-002	MUFFLER CLAMP 2.5"	1
9	64743-002	2.5" X 8 FLEX	1
10	481-001	LOCKWASHER 3/8 SPLIT BLACK	8
11	350253-2	.375-24X1 HHB BLACK	8
12	56107-003	RED HOSE 5/8ID RUBR.24IN	1
13	56107-005	HOSE 5/8ID RUBR.30IN	1
14	93542-018	LEAD WIRE	2
15	93542-013	LEAD WIRE ASSY	1
16	65004-001	SELF TAP.SC. 5/16-18X.75	2
17	93084-000	PIPE PLUG .50 GALV	1
18	98906-004	OIL DRAIN VALVE .5-14 NPTX.625T-202N	1
19	803050-005	BLACK BOX COVER	1
20	21698-001	TORX PAN HEAD SCREW #10	2
21	6-115	GLOW PLUG CONTROLLER	1
22	466-000	.25-20X.75 HHB	1
23	47517-000	.25-20 NYLOCK	5
24	59944-016	RELAY 12VDC 30AMP SPDT	1
25	71605-003	SHOCKMOUNT, BLACK, 30-35 DURO	4
26	16248-000	.25-20 FLANGE NUT	8
27	6-114	ENGINE CONTROL UNIT	1
28	95810-000	CABLE TIE HOLDER	2
29	93689-001	HOSE, 0.625 ID, 25 IN. LONG	1
30	22627-000	3/4 NPT CONDUIT NUT	1
31	93073-031	CORD GRIP .75 NPT	1
32	94282-035	M10-1.5X35MM	4
33	1000-0778	F5C FUEL FILTER MOUNT	1
34	65015-002	M22 METAL SEALING WASHER	2
35	97431-003	HOSE FIT. BANJO UNION 16MM BARB X 22MM BOLT HOLE	1
36	97432-001	BANJO BOLT, M22 X 1.5MM	1
37	65005-000	.25 WASHER SS	4
38	94980-003	THREAD STUD .25-20 X .750	4
39	1000-0579	DE BLACK BOX BRACKET	1
40	1000-0929	DE50 BLACK BOX MOUNT WELDMENT	1
41	468-000	.3125-18X1.5 HHCS	3
42	352126-1	RIVET NUT 5/16-18 .027-.150	3
43	480-000	5/16 SPLIT LOCKWASHER	3
44	526-000	WASHER ID .375 OD .890	5
45	81019-000	HOSE CLAMP CONSTANT TENSION 24MM, 5/8 HOSE	10
46	80781-018	BLOCK HEATER WITH THERMOSTAT ASSY	1
47	91658-001	HHCS 3/8-16X1	2
48	16250-000	.375-16 FLANGE NUT	2
49	2000-0044	SHIP LOOSE FOAM KIT FOR FIELD INSTALLATION	1
50	1000-0577	FPT F5C F34 LOOSE PARTS KIT	1
51	351929-2	BLOCK HEATER BRACKET	1

Base Frame Assembly



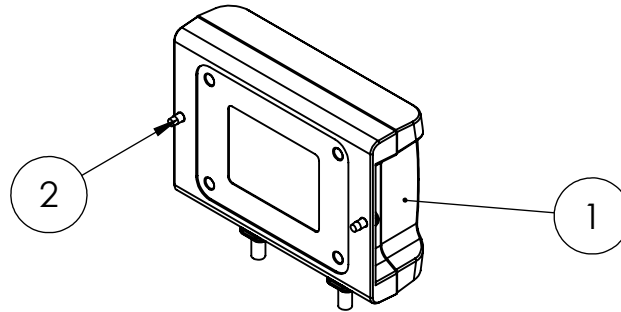
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1000-0574	DE LEFT SIDE BASE RAIL WELDMENT	1
2	1000-0546	DE RIGHT SIDE BASE RAIL	1
3	1000-0540	DE ENGINE CROSSMEMBER	1
4	1000-0932	DE50 GENERATOR CROSSMEMBER WELDMENT	1
5	1000-0565	DE FORWARD FORK POCKET WELDMENT	1
6	1516-000	.5-13X1.25 HHB	24
7	21867-001	FLAT WASHER .51 X .88 X .05	24
8	16248-001	.5-13 FLANGE NUT	24
9	98956-001	SHOCKMOUNT 40 DURO (GREEN DOT)	4
10	636-000	LOCKWASHER 1/2 SPLIT	4
11	57580-000	.5-13X1.5 HHB	4
12	1000-0187	40 DURO SHOCKMOUNT SPACER	2
13	21867-000	FLAT WASHER	4
14	97391-003	TUBE CLAMP/CUSH.WIRE 15/16	2
15	55440-000	.25-20X.5 SELF TAP	2

Base and Fuel Tank Assembly



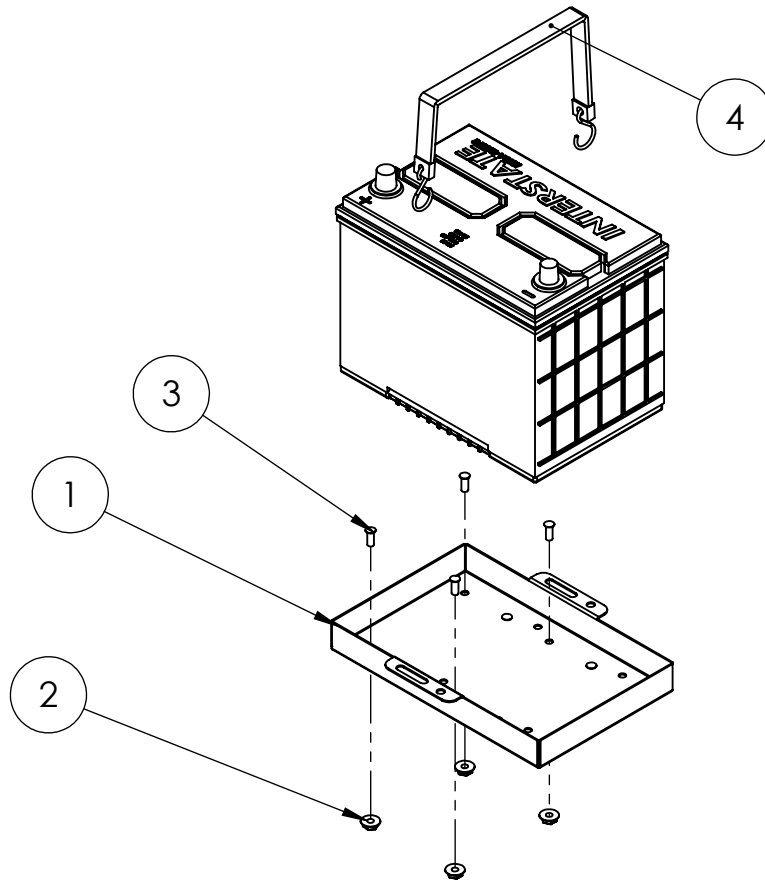
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1000-0549	DE FUEL TANK SIDE RAIL	2
2	350041-142	FUEL TANK, 47 USEABLE GALLON, PLASTIC FUEL TANK WITH DIP TUBES	1
3	57580-000	.5-13X2.0 HHB	14
4	1516-000	.5-13X1.25 HHB	9
5	21867-001	FLAT WASHER .51 X .88 X .05	30
6	93564-000	PIPE PLUG 3/4 SQUARE HEAD	1
7	1000-0548	DE FUEL TANK END CAP	2
8	92242-000	NUT HEX .500-13 NYLOCK	7
9	1000-0550	DE CENTER FUEL TANK CROSSMEMBER	1
10	94319-008	HOSE FIT. .500-14NPT X .375 HOSE BARB	2
11	55505-028	HOSE 3/8 ID X 55" LONG	1
12	81018-006	HOSE CLAMP 7/8 TO 3/8 X 1/2 WIDE	4
13	15482-010	FUEL NECK ADAPTER 2.25" FILL	1
14	15482-011	FUEL CAP, 2.25 INCH, 2-WAY VENTED, TETHERED, DIESEL ONLY, GREEN, 8IN TETHER	1
15	352125-3	RIVET NUT 0.5-13, .063 - .200 (SHEET METAL HOLES SIZE .6875)	20
16	636-000	LOCKWASHER 1/2 SPLIT	16
17	55505-024	HOSE 3/8 ID X 50" LONG	1
18	1000-0551	DE CENTER FUEL TANK STOP	1

Battery Chargers



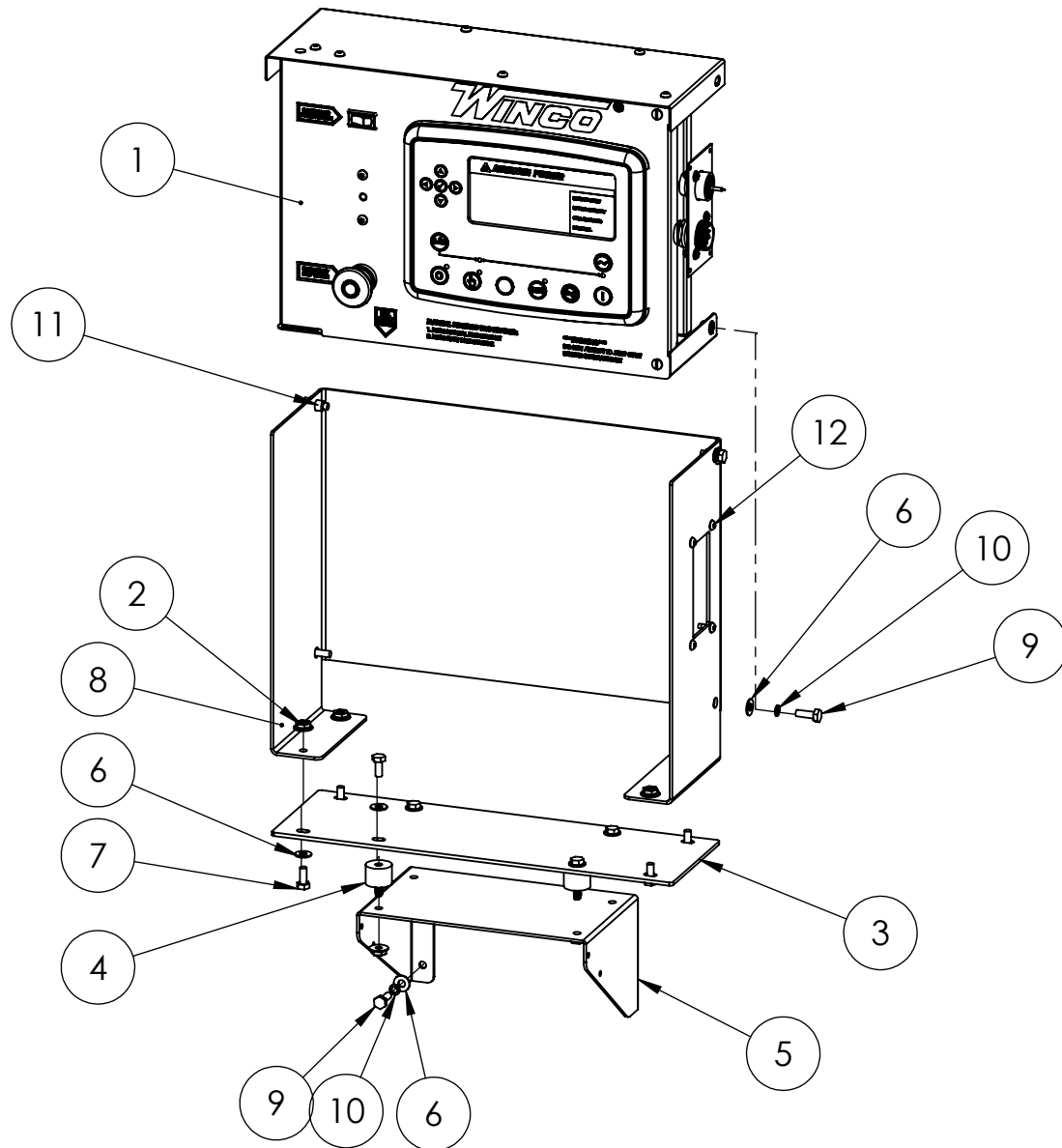
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72036-022	BATTERY CHARGER, 12VDC, 1.5AMP, GUEST 2701A	1
2	21698-001	TORX PAN HEAD SCREW #10	2

Battery Kit



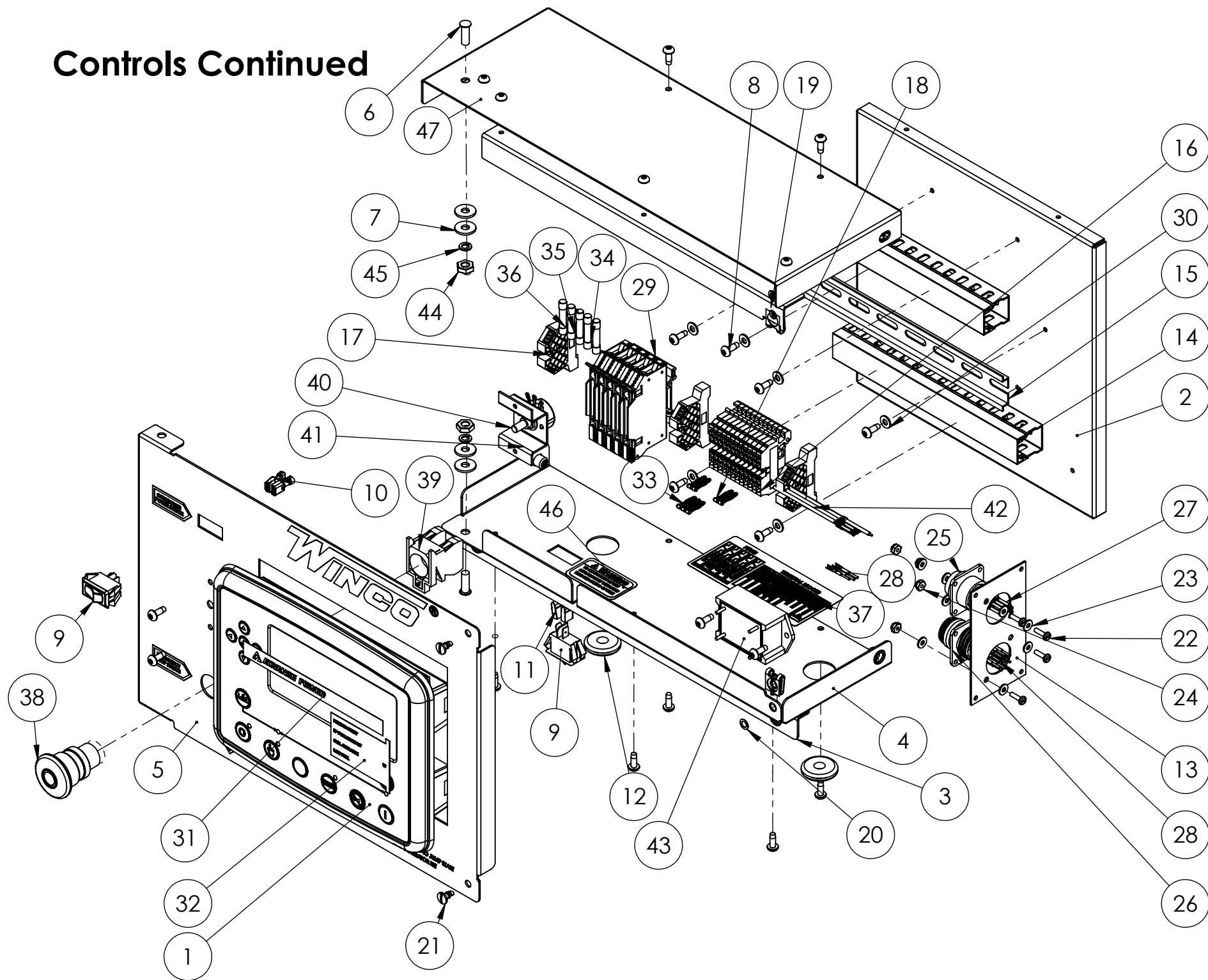
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	805050-001	BATTERY TRAY	1
2	16248-000	.25-20 FLANGE NUT	8
3	94980-001	THREAD STUD .25-20X.625	8
4	16329-001	RUBBER STRAP, BATTERY HOLD DOWN	1
5	53220-050	BATTERY CABLE 49" (NEGATIVE)	1
6	53220-069	BATTERY CABLE 48" (POSITIVE)	1

Controls



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	351891-51	ECU ENGINE CONTROLLER	1
2	16248-000	.25-20 FLANGE NUT	8
3	1000-0542	CONTROLLER VIBE MOUNT	1
4	64062-002	SHOCKMOUNT .25 50 DURO	4
5	1000-0561	CONTROLLER SIDE PEDESTAL	1
6	512-000	.25 WASHER	16
7	476-000	.25-20X.625 HHB	8
8	1000-0568	CONTROLLER BOX MOUNT	1
9	466-000	.25-20X.75 HHB	8
10	479-000	LOCK WASHER, .25" SPLIT	8
11	352125-1	1/4-20 RIVET NUT 22 GA-10GA	2
12	21698-001	TORX PAN HEAD SCREW #10	4

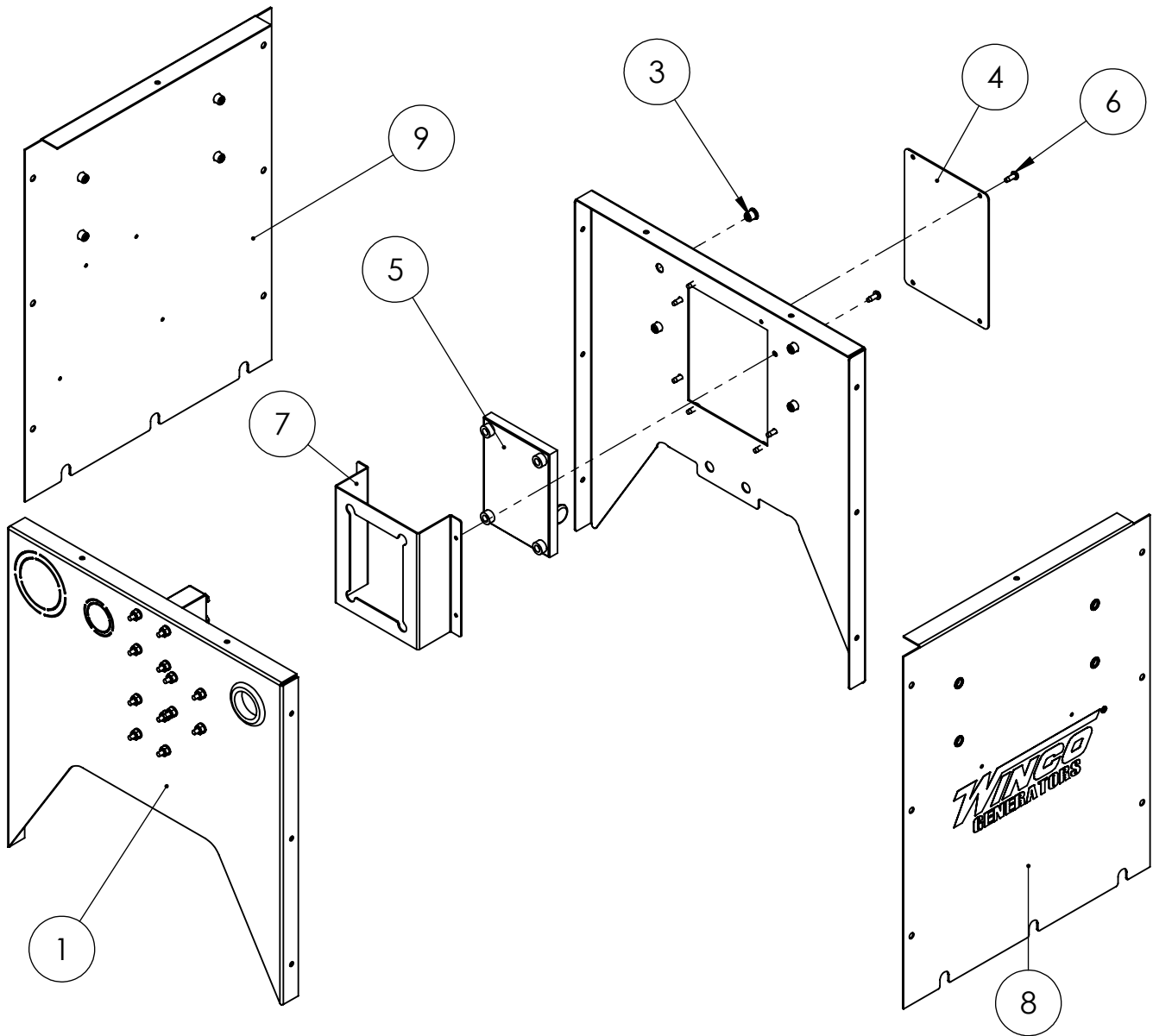
Controls Continued



Controls Continued

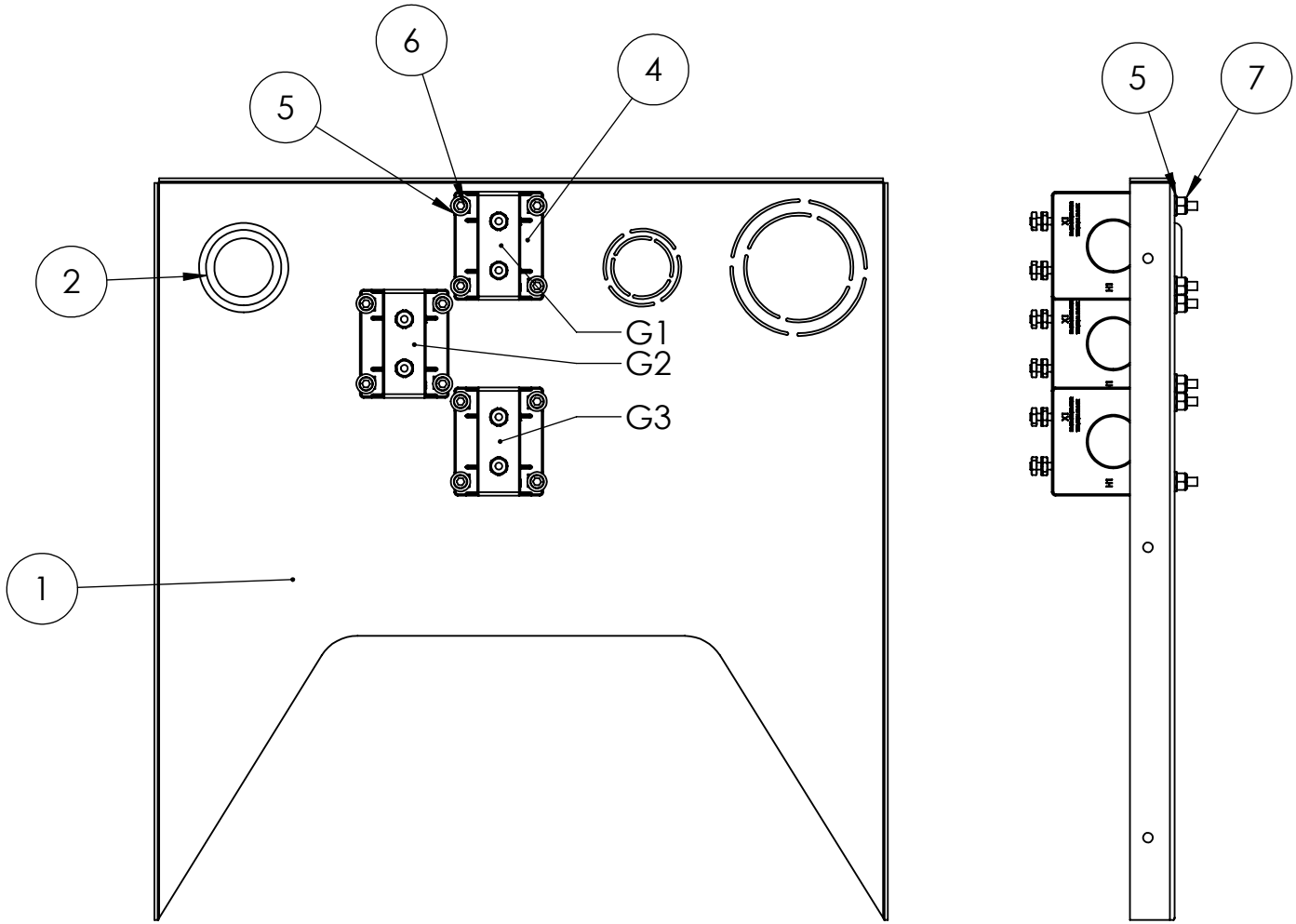
ITEM NO.	PART NUMBER	DESCRIPTION	
1	351112-29	DEEP SEA ELECTRONICS 7310 MKII	1
2	351900-42	DIN RAIL MOUNTING PLATE	1
3	351900-44	COVER SUPPORT BRACKET	1
4	351900-45	DSE8610 CONTROL BOX BOTTOM	1
5	351900-47	DSE 7310 MKII FRONT PANEL	1
6	94980-003	THREAD STUD .25-20 X .750	2
7	96286-001	1/4" NYLON WASHER	4
8	21698-001	TORX PAN HEAD SCREW #10	21
9	64089-000	SPST, ROCKER SWITCH	2
10	48602-003	TERMINAL FEMALE 16-14 AWG .250 TAB	2
11	61898-000	TERMINAL FLAG 16/14AWG .250	2
12	23917-002	GROMMET, .375ID X 1	2
13	351900-51	PLUG MOUNTING PLATE	1
14	352017-001	WIRE DUCT, 8.5IN	2
15	64551-005	DIN RAIL 9.5"	1
16	80623-009	TERMINAL BLOCK, DIN MOUNTED, SPRING CAGE	12
17	80623-010	END BLOCK, DIN MOUNTED	3
18	80623-011	2-POLE TERMINAL BLOCK JUMPER	2
19	91683-000	1/4 TURN CLIP NUT	2
20	91684-000	RETAINER RING 1/4 TURN SPLIT RING	2
21	91682-001	STUD 1/4 TURN SLOTTED	2
22	24988-000	SCREW 6-32 X 1/2 BIND	4
23	425-000	#6 FLATWASHER	8
24	51802-000	NUT HEX #6-32 NYLOCK	4
25	96925-002	14 PIN CONNECTOR	1
26	96925-006	16 PIN CONNECTOR	1
27	96923-001	TERMINAL, SOCKET, 18-16AWG	10
28	96924-001	TERMINAL, PIN, 18-16AWG	16
29	2489-003	DIN RAIL FUSE HOLDER 1-1/4 X 1/4IN	5
30	598-000	#10 WASHER	6
31	16600-005	DSE MKII ADVANCE POWER LOGO INSERT	1
32	16601-007	DSE 8610 MKII LIGHT LEGEND CARD INSERT	1
33	80623-012	3-POLE TERMINAL BLOCK JUMPER	1
34	95064-008	FUSE AGC 2 AMP	3
35	95064-000	FUSE AGC 3 AMP	1
36	95064-006	FUSE AGC 10 AMP	1
37	351095-16	DECAL, FUSES AND TERMINAL BLOCKS	1
38	99783-001	SWITCH, PUSH-PULL	1
39	99783-002	SWITCH CONTACT	1
40	97517-001	RHEOSTAT	1
41	351900-36	RHEOSTAT MOUNTING BRACKET	1
42	96923-101	PLUG TERMINAL	4
43	96333-001	LOW COOLANT MODULE	1
44	638-000	HEX NUT, .25IN	2
45	479-000	LOCK WASHER, .25" SPLIT	2
46	63941-004	DECAL FUSE WARNING (ENGLISH)	1
47	351900-52	DSE CONTROL BOX TOP	1
48	351900-53	DSE PANEL STOP	1
49	11067-000	18 GA WIRE	1

Terminal Box Assembly



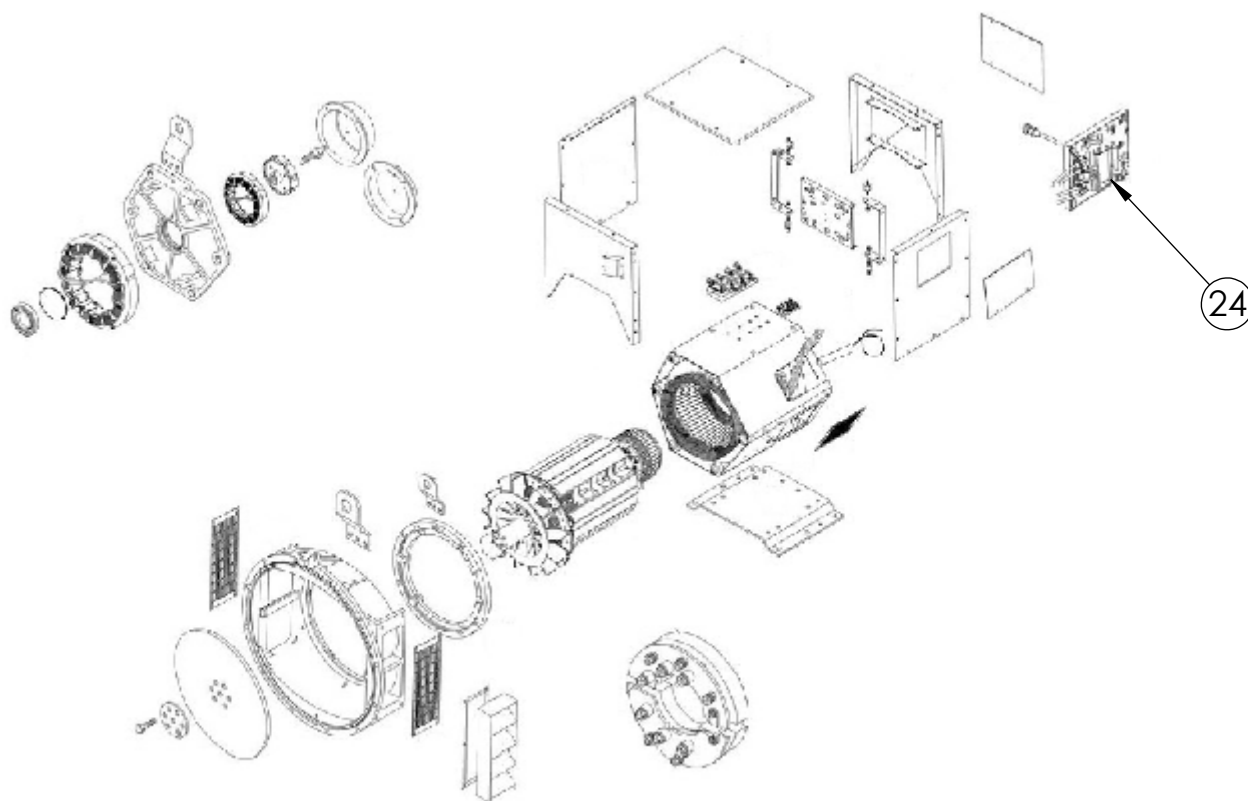
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	802050-001	GENERATOR FRONT PANEL ASSY	1
2	1000-0770	REAR GEN PANEL	1
3	352125-1	1/4-20 RIVET NUT 22 GA-10GA	4
4	1000-0428	SX460 AVR COVER	1
5	350818-1	AS440 AVR	1
6	21698-001	TORX PAN HEAD SCREW #10	8
7	1000-0427	SX460 AVR MOUNT	1
8	2000-0185	GEN LEFT SIDE PANEL ASSEMBLY	1
9	2000-0186	GEN RIGHT SIDE PANEL ASSEMBLY	1

Terminal Box CT Panel Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	802050-001	GENERATOR FRONT PANEL 224	1
2	23917-005	GROMMET 1-5/16" ID	1
3	99347-025	AC HARNESS	1
4	80126-004	CT 300:5 PANEL MOUNT	3
5	598-000	#10 WASHER	24
6	64872-000	SOC.HCS 10-24 X 3/4 BLK	12
7	5315-000	NUT HEX 10-24 NYLON	12

GENERATOR

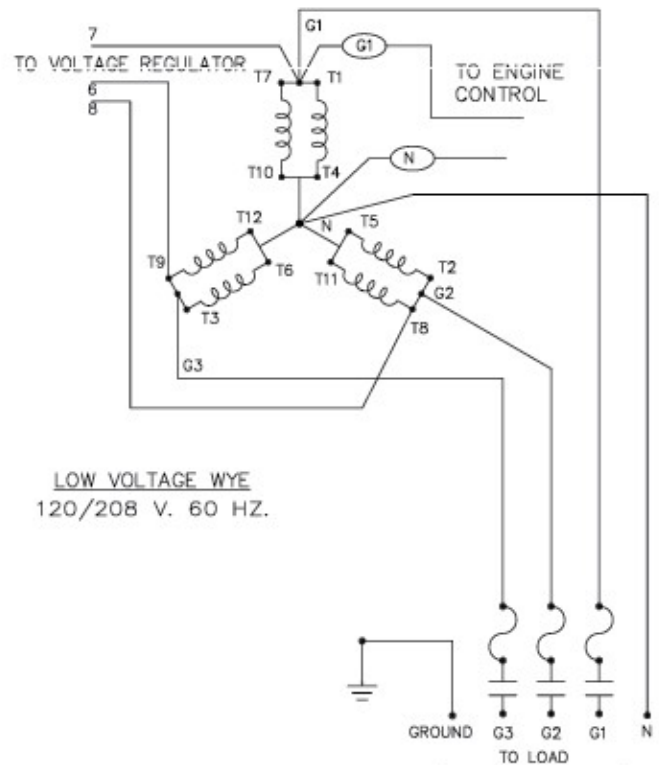
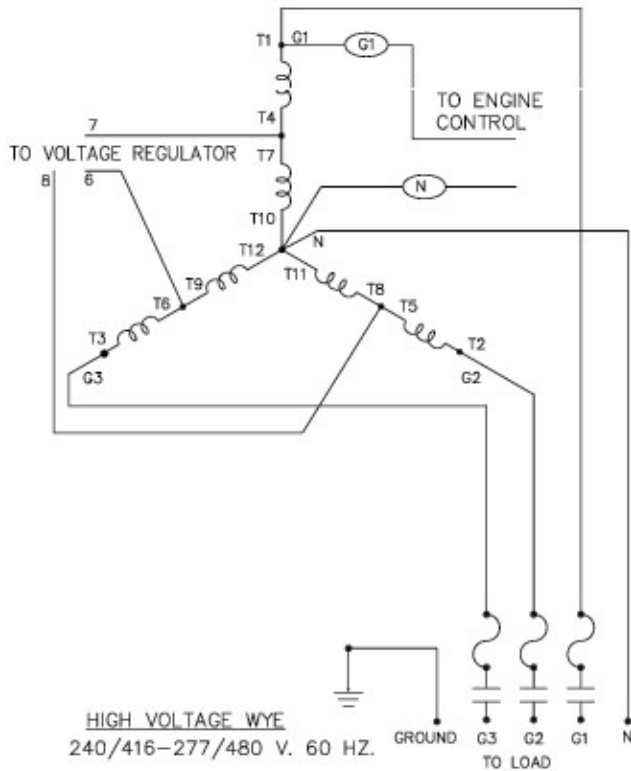


EXPECTED RESISTANCE (Ω) @ 22C	
MODEL	UCI224E 311
STATOR WINDING (PER PHASE SERIES CONNECTED)	0.101
ROTOR WINDING	0.69
EXCITER STATOR	20
EXCITER ROTOR (PER PHASE)	0.078
POSITIVE SEQUENCE (R1)	0.09
NEGATIVE SEQUENCE (R2)	0.14
ZERO SEQUENCE (R0)	0.09

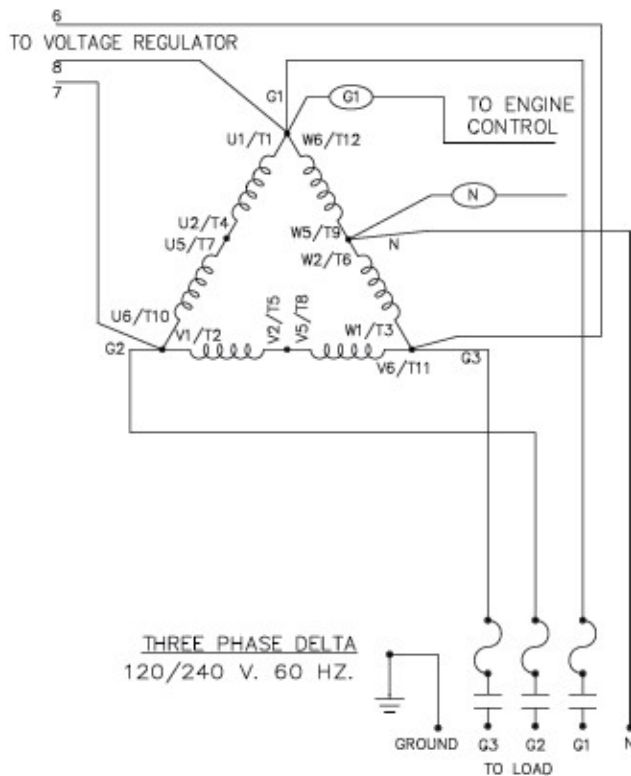
ITEM	DESCRIPTION	DE4040F4	QTY
-	COMPLETE GENERATOR END	351930-3	--
-	STAMFORD MODEL	UCI224E	--
-	WINDING	311	--
24	VOLTAGE REGULATOR AVR AS440-UL	350818-2	1
--	DIODE KIT, FWD/REV & VARISTOR	8-100	1
--	FUSE, 6.3A, 600V	350005-40	3
For additional parts support, contact WINCO service			

Generator Connections

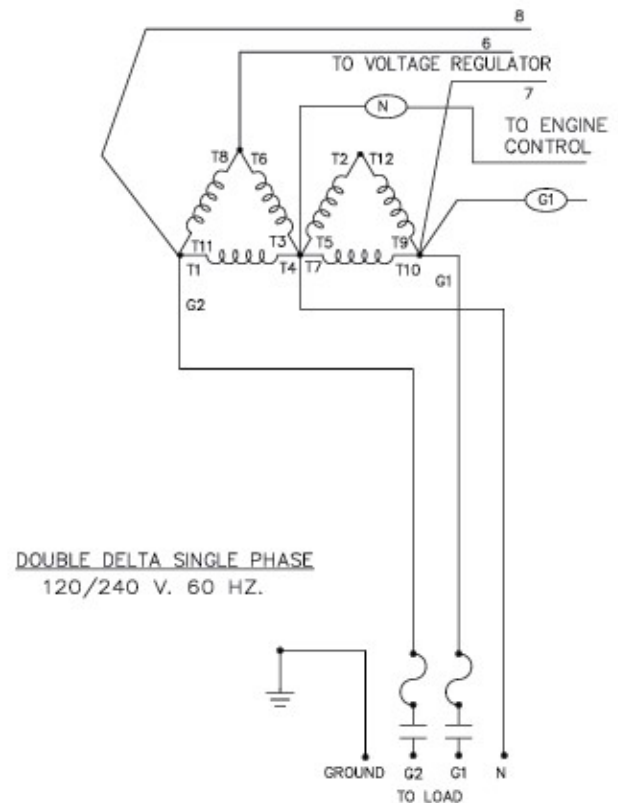
THREE PHASE AC WIRE HIGH AND LOW WYE



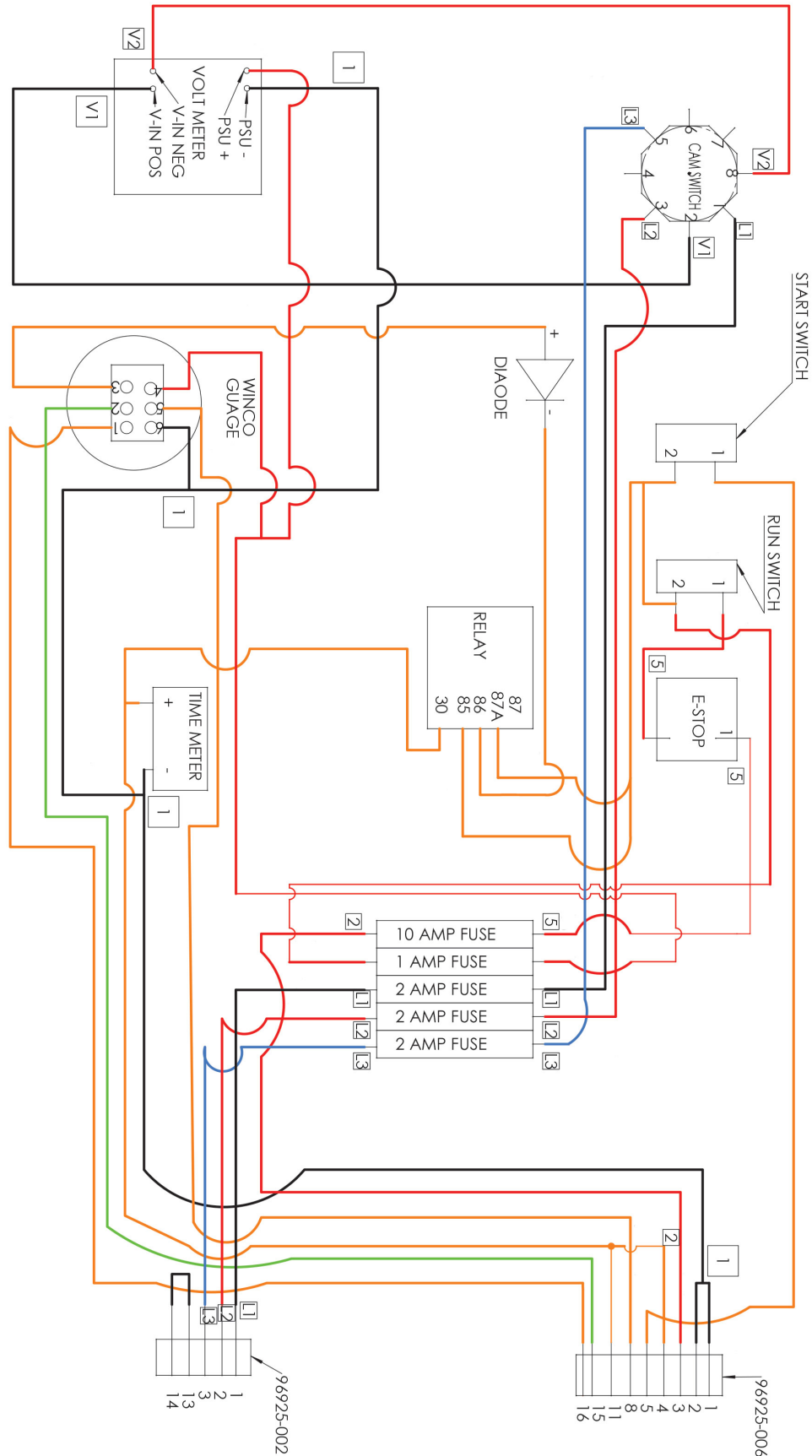
THREE PHASE AC WIRING- DELTA



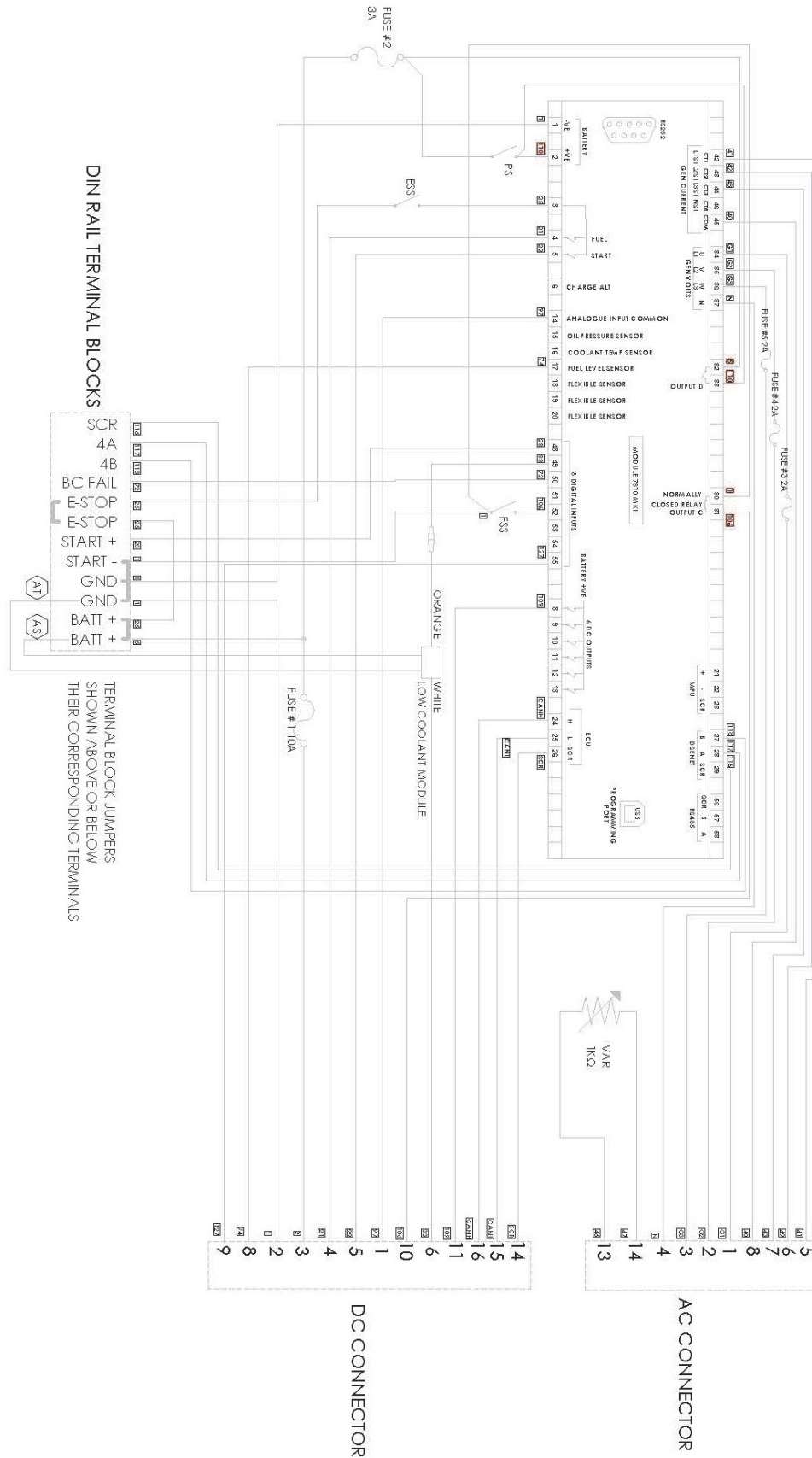
SINGLE PHASE 311 WINDING



Manual Generator Control Schematic



DSE7310 Generator Control Schematic



Engine Wiring Schematic

