

THAWZALL

Tamarack Industries



XHR

Flameless Air Heater

Parts Manual



As a new customer of Thawzall we would like to welcome you! We are looking forward to providing you with technical support for your Thawzall unit. Whatever you need we are here to help.

Ways to contact us for support

By Phone : 1-888-757-3545

The main Technical support phone line is staffed monday-friday 7:00 AM to 3:30 PM excluding holidays.

After hours support

Calls received outside of regular hours are directed to the On-call technician. After hours support is reserved for issues that cannot wait until the next business day for resolution. If no answer please leave a message and we will get back to you as soon as possible.

By Email : support@tamarack-ind.com

Feel free to email us at any time with technical questions or parts inquiries. Please include the year make and model of your unit if you have a specific question about your machine so we can better help you. If it is an emergency please call 1-888-757-3545

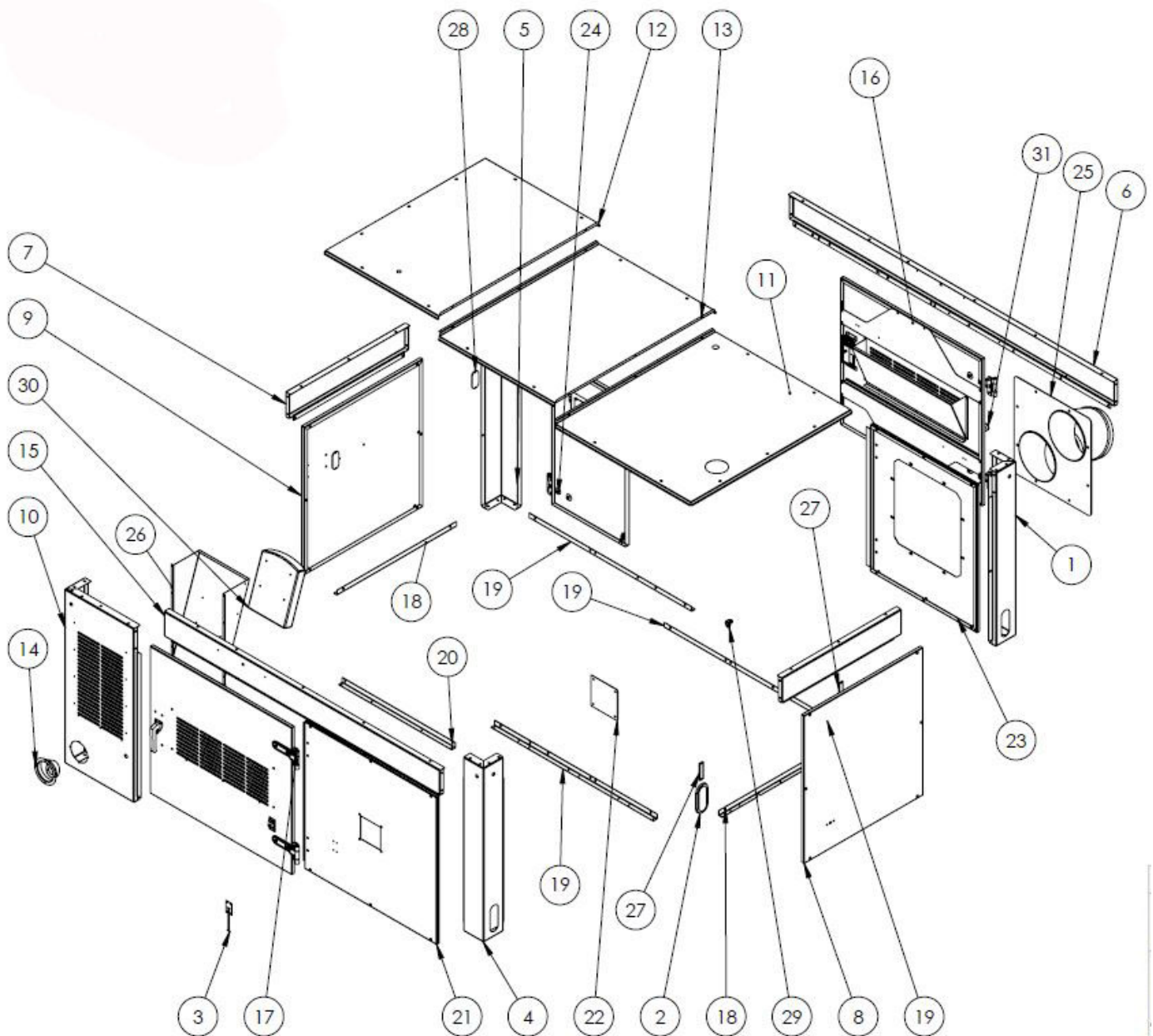
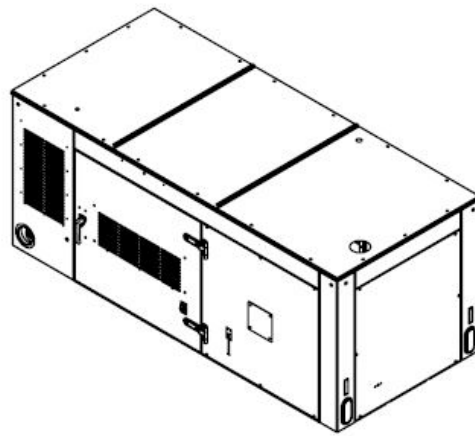
For more information please visit our website

www.thawzall.com

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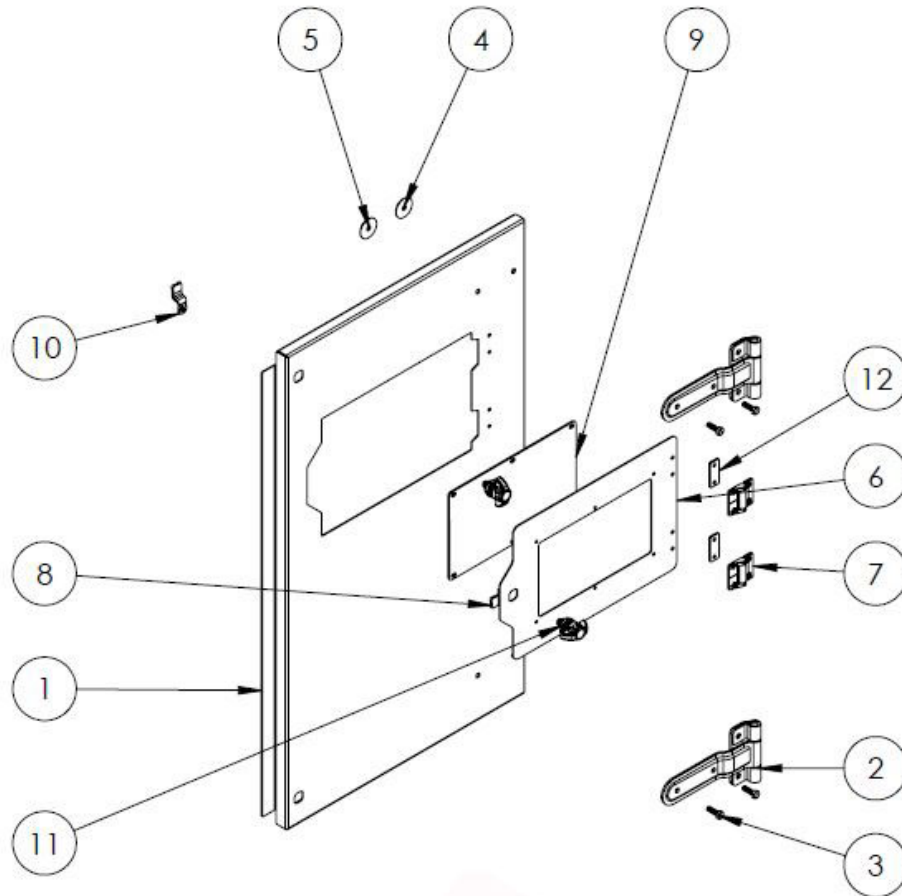
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ENCLOSURE



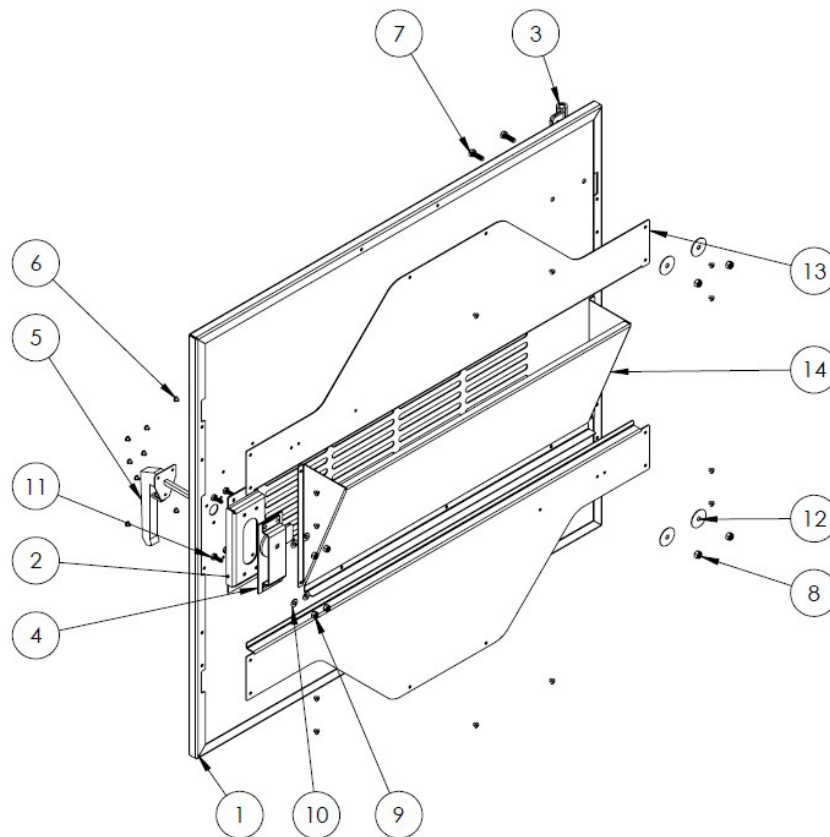
31	601058	BUMPER,RUBBER 3/4" HIGH	1
30	200001	Manual Box	1
29	449771	BKT, TAB DOOR LOCK	1
28	T51170	REFLECTOR, OVAL AMBER RE11AB	2
27	X82377	REFLECTOR, RECTANGULAR, RED 8630	2
26	601127	PNL,LOUVER FRONT	1
25	A601125	ASSY,WA,OUTLET DUCT 12" XHR	1
24	A601130	ASSY, CTRL PANEL DOOR FLMS	1
23	601123	PNL,REAR DUCT MNT PANEL	1
22	601283	PNL,CLOSE OFF AIR FLOW XHR	1
21	601122	PNL,REAR LHS PANEL	1
20	601121	PNL,CROSS BRACE SIDE FRT BTM	1
19	601119	PNL,CROSS BRACE SIDE REAR BTM	3
18	601118	PNL,CROSS BRACE FRT BTM	2
17	A601120	ASSY, FRONT LHS DOOR FLMS	1
16	A601115	ASSY, RIGHT SIDE REAR DOOR FLMS	1
15	601107	PNL,SIDE UPPER LHS	1
14	601037	POCKET,FUEL STAINLESS STEEL	1
13	601112	PNL,MIDDLE ROOF FLMS	1
12	601111	PNL,FRONT ROOF FLMS	1
11	601110	PNL,REAR ROOF FLMS	1
10	601106	PNL,CORNER FRONT LH	1
9	601109	PNL,FRONT PANEL FLMS	1
8	601108	PNL,REAR PANEL FLMS	1
7	601105	PNL,CROSS TOP FLMS	2
6	601104	PNL,SIDE UPPER RH	1
5	601103	PNL,CORNER FRONT RH	1
4	601101	PNL,CORNER REAR LH	1
3	448009	KEEPER, DOOR, 6"	1
2	477009	LAMP, STOP	2
1	601102	PNL,CORNER REAR RH	1
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.

A601130- FRONT RHS CONTROL PANEL DOOR



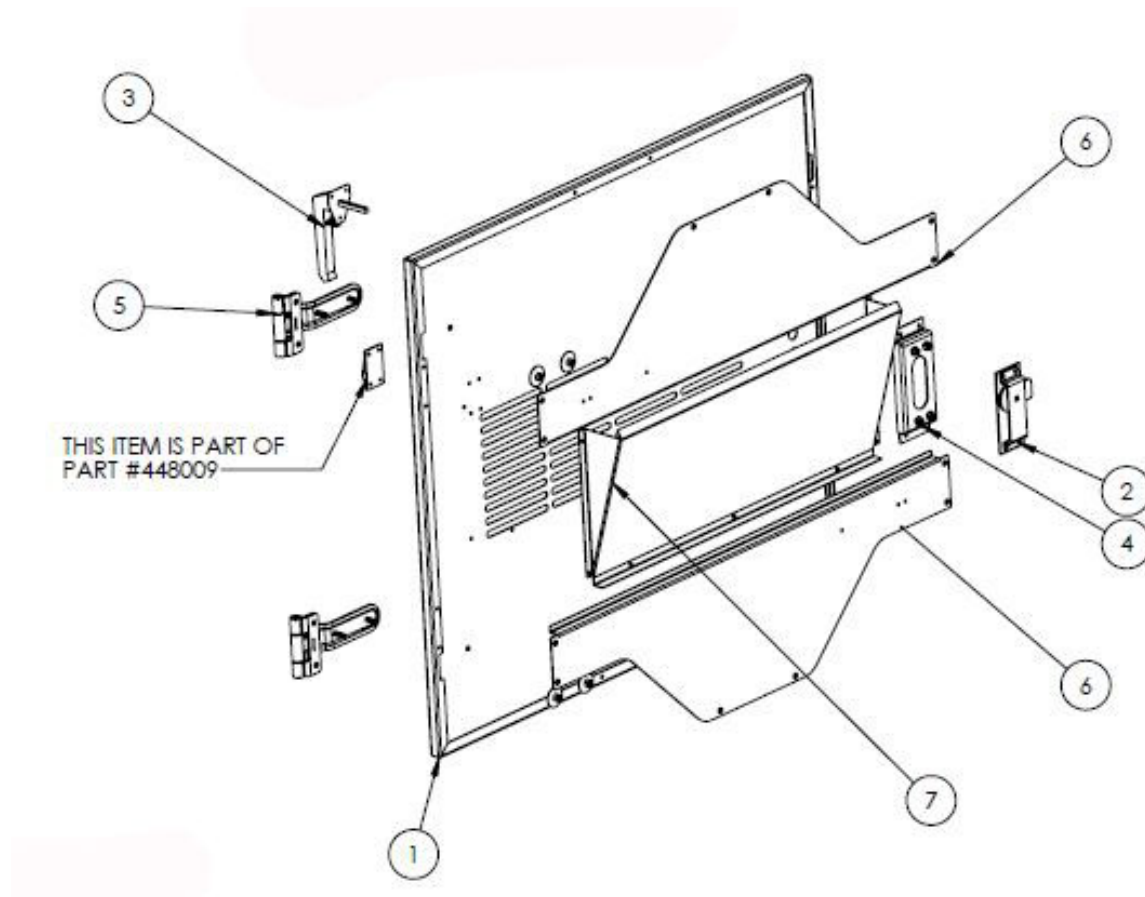
12	601062	PNL, HINGE SPACER CTRL
11	600166	LOCK,PADLOCKABLE W/ HANDLE
10	601128	CAM, LATCH 30MM GRIP
9	600168	SCREEN,CLEAR X750
8	600167	CAM,LATCH 6MM GRIP
7	461545	HINGE,E6-10-400-50
6	600471	PNL,OPERATING CTRL XHR
5	174487	WASHER,5/16" FENDER ZP
4	227821	NUT, 5/16"UNC PL LOCK NYL
3	225980	BOLT, 5/16-18 X 1 HX GR2 CP NC
2	448487	HINGE,STRAP 8" SP-H308003
1	601126	PNL, CONTRL PANEL DOOR OUTER
ITEM NO.	PART NUMBER	DESCRIPTION

A601115- REAR RHS DOOR



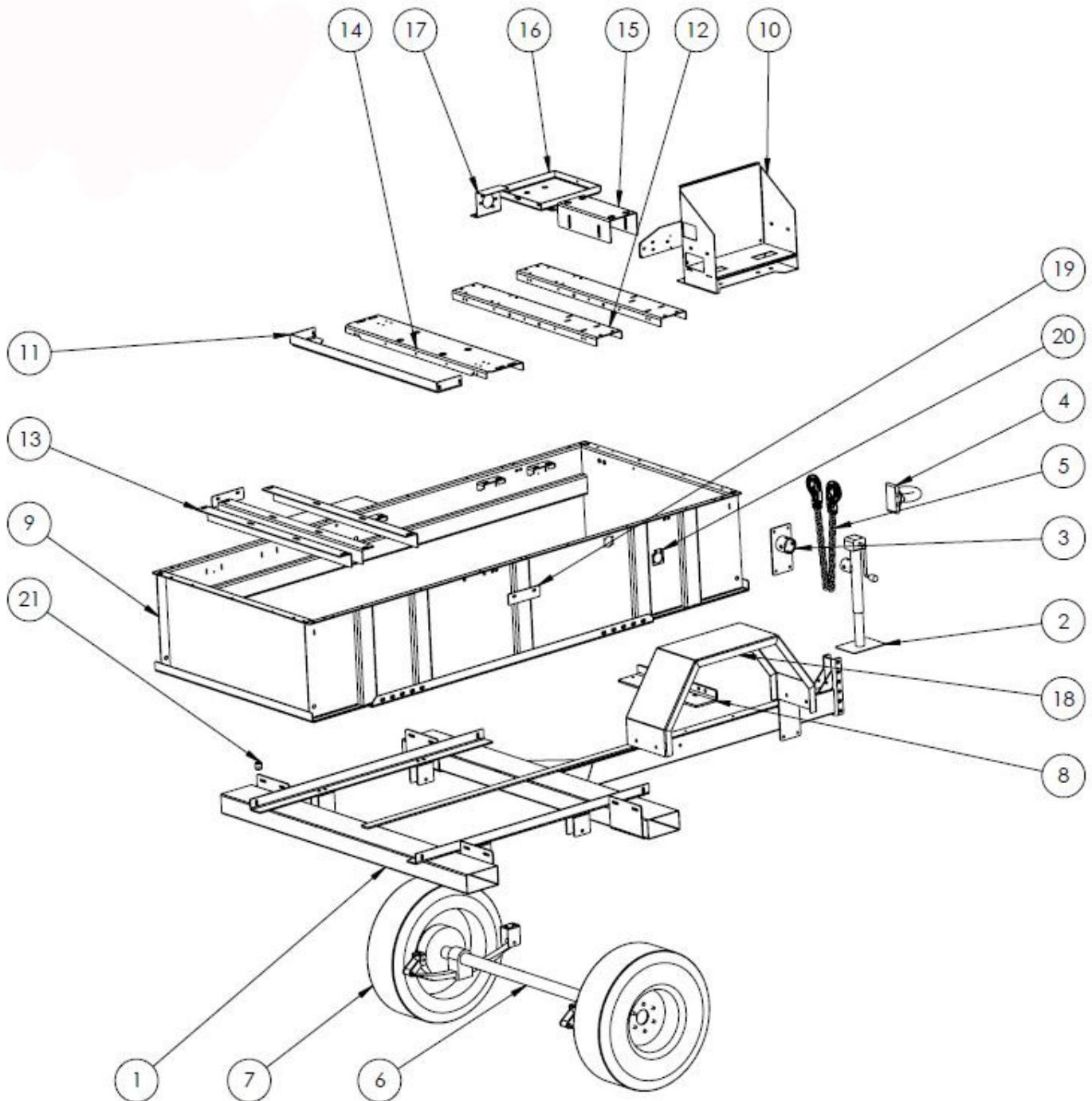
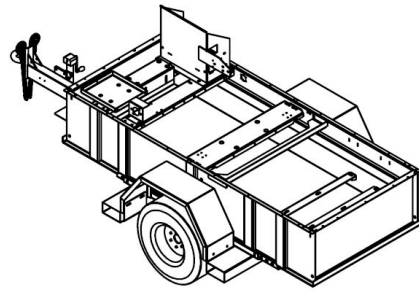
14	601116	PNL,LOUVER SIDE DOOR
13	601114	SHT, SIDE DOOR STIFF
12	174487	WASHER,5/16" FENDER ZP
11	119511	Bolt,1/4UNCx3/4 ZP
10	174485	WASHER, 1/4 FLAT ZP SAE"
9	227812	NUT, NYLON LOCK 1/4 UNC
8	227821	NUT, 5/16"UNC PL LOCK NYL
7	225980	BOLT, 5/16-18 X 1 HX GR2 CP NC
6	700232	RIVET,POP,3/16 DIA,SS
5	448006	Handle
4	448007	latch
3	448487	HINGE,STRAP 8" SP-H308003
2	452072	BKT,LATCH MNT RR DOOR
1	601113	PNL,REAR RHS DOOR OUTER
ITEM NO.	PART NUMBER	DESCRIPTION

A601120- FRONT LHS DOOR



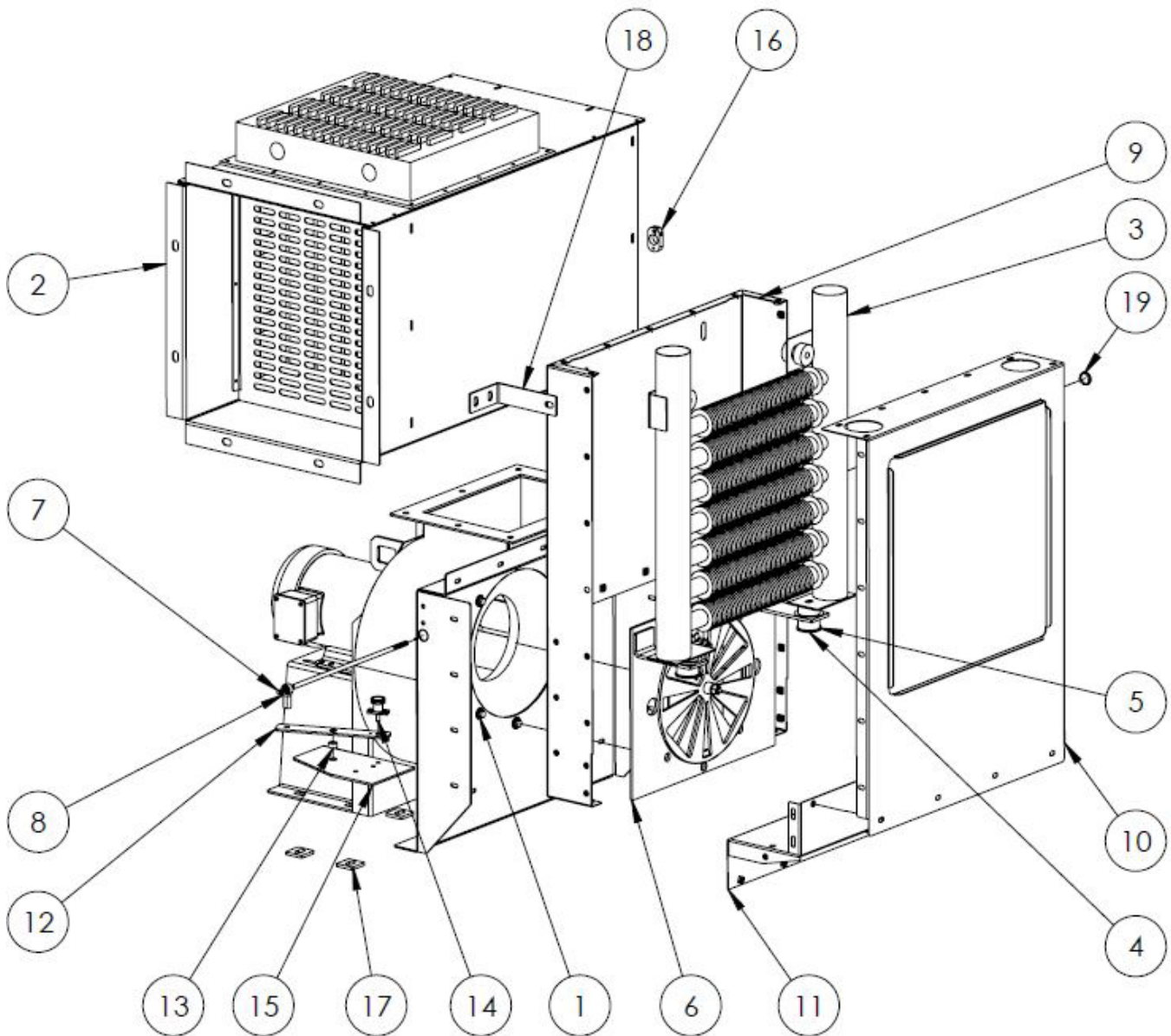
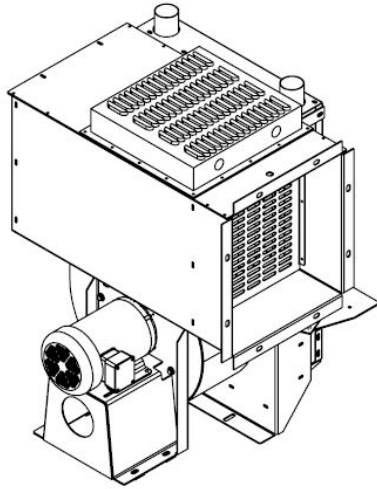
NS	A601688	KIT,HARDWARE A601120
7	601458	PNL,LOUVER SIDE DOOR
6	601114	SHT, SIDE DOOR STIFF
5	448487	HINGE,STRAP 8" SP-H308003
4	452072	BKT,LATCH MNT RR DOOR
3	448006	HANDLE, DOOR
2	448007	LATCH,3 PNT.CENTER CASE
1	601791	PNL,FRONT LHS DOOR OUTER
ITEM NO.	PART NUMBER	DESCRIPTION

TRAILER



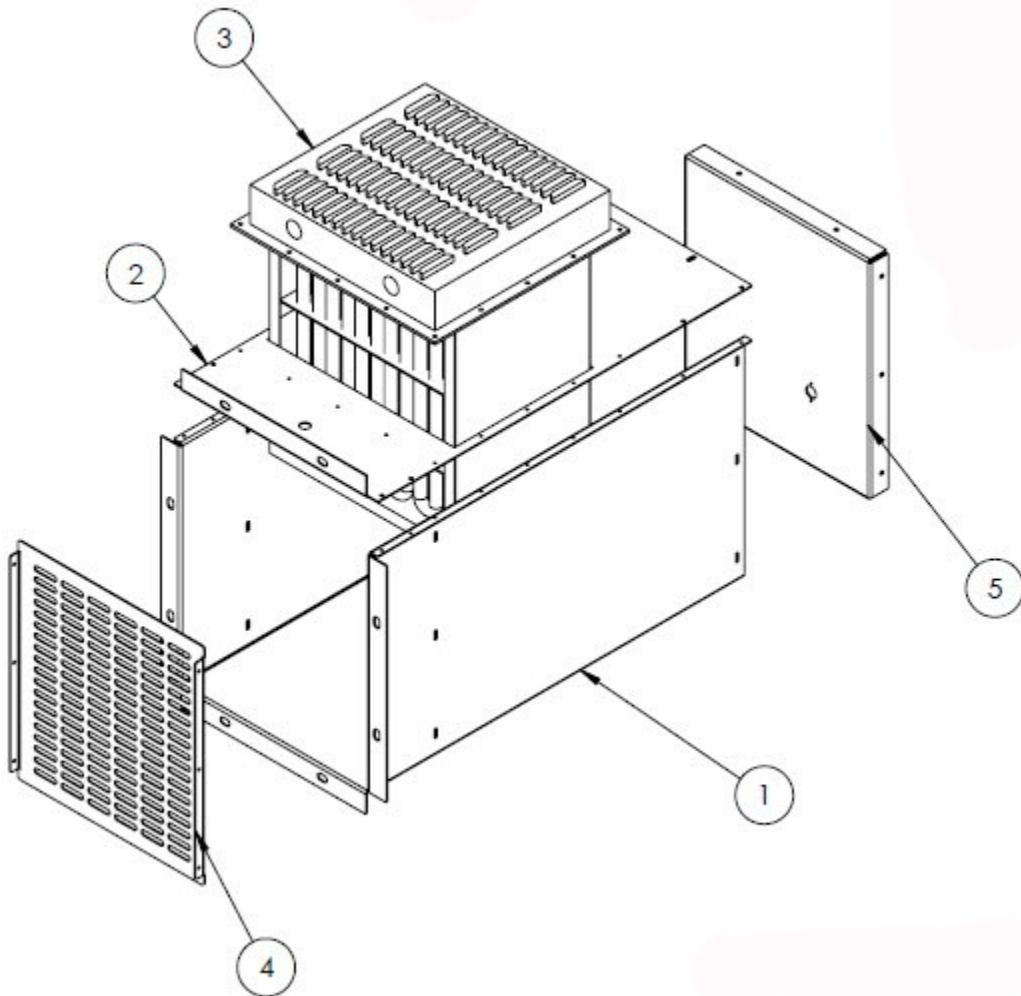
21	22100	GALV. PLUG 1 INCH.
20	601386	COVER,DRAIN CONTAINMENT XHR
19	601238	BKT,SPACER CROSS BAR XHR
18	601406	FENDER, BOLT ON 1 AXLE
17	601136	BKT,BATTERY DISCONNECT XHR
16	A600970	ASST,WA, BATTERY TRAY XHR
15	600888	BKT,GENERATOR MNT
14	600892	BKT, REAR ENGINE MNT CROSS
13	600891	BKT, FAN MOUNT FLMS
12	600889	BKT, ENGINE MNT CROSS
11	601245	BKT,CROSS BRACE CONTAINMENT
10	A600960	ASSY, WA, CP MNT XHR
9	A600880	ASSY,WA,TRAILER CONT.MENT FLMS
8	A601316	ASSY,WA,CONTAINMENT MNT FRT XHR
7	448001	Assy, W&T, 225/75R15E, 6 Bolt
6	600924	KIT, AXLE 7000LB, LEAF 63HBX48
5	448016	CHAIN, SAFETY 3/8 X 30" GR 70
4	640304	OPT, PINTLE HITCH - HK
3	A448675	ASSY,WA,JACK MOUNT HK600
2	448210	JACK 7,000 LBS
1	A601150	ASSY,WA,TRAILER FRAME XHR
ITEM NO.	PART NUMBER	DESCRIPTION

Heater Assembly



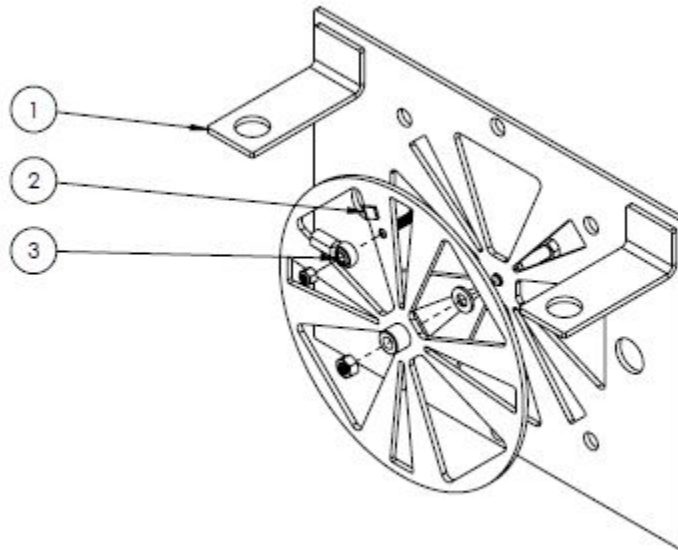
19	601422	PLUG,PANEL 1" SNAP-IN
18	601052	BKT,CP MNT TOP EXHR
17	601393	BKT,SPACER FAN XHR
16	600521	BKT, AIR SENSOR MNT ALUM
15	600962	BKT, AIR GATE LEVER MNT.
14	600933	PLUNGER,PLATE-MNT RETRACT.
13	600968	Press-Fit Drill Bushing
12	600961	PNL,AIR GATE LEVER
11	600963	SHT, EXHAUST HEAT EXC. BOTTOM
10	600867	PNL, HEATER FRONT
9	600868	PNL, HEATER BACK
8	600932	BALL JOINT, 3/8"-24 THREAD
7	600931	ROD, 3/8"-24 BOTH END 18IN
6	A600874	ASSY, FAN GATE FLMS
5	82183	ISOLATOR, COOLER VIBRATION
4	82184	SNUBBING WASHER 00182
3	A600850	ASSY,WA,HEAT EXCHANGER
2	A600866	ASSY, DUCT OUTLET X550
1	600812	FAN,CTRFG HDBI-120 SQ WHL CW
ITEM NO.	PART NUMBER	DESCRIPTION

A600866- Duct outlet Assembly



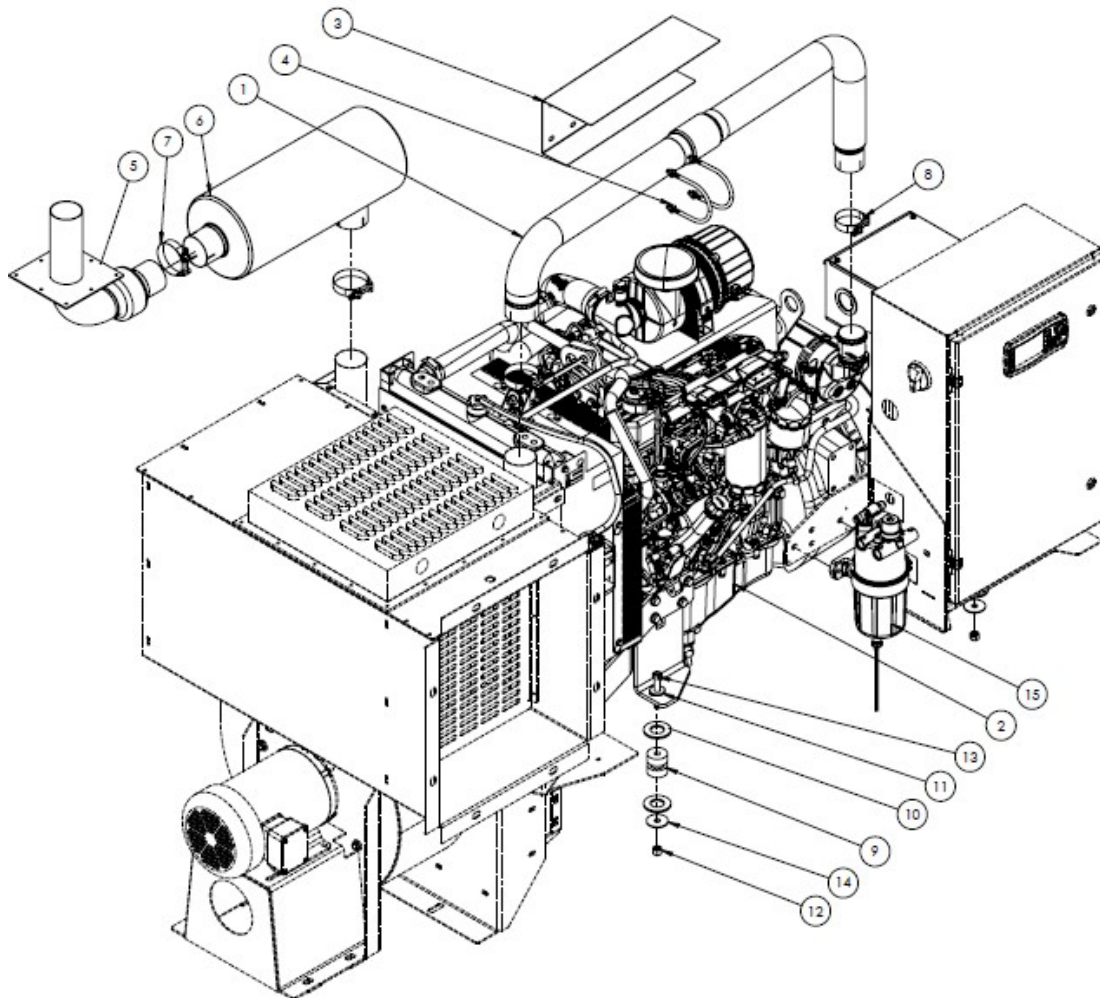
5	600864	PNL, PASS SIDE DUCT REAR
4	600862	PNL, REAR BLOCK
3	600475	HEATER BANK, DUCT SST 43KW4CRC
2	600863	PNL, TOP OUTLET DUCT
1	600865	PNL, BOTTOM HEAT DUCT
ITEM NO.	PART NUMBER	DESCRIPTION

A600874- Fan Gate Assembly



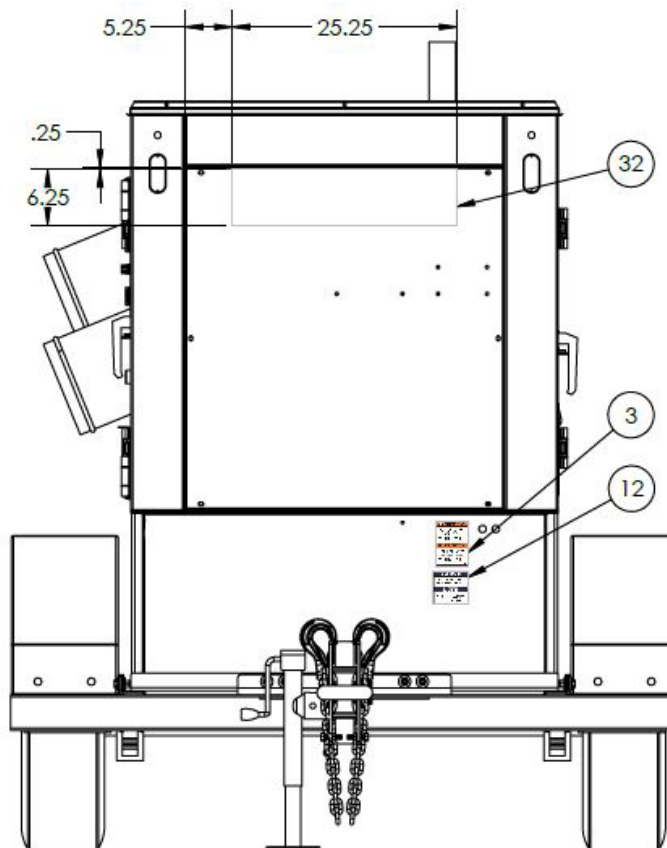
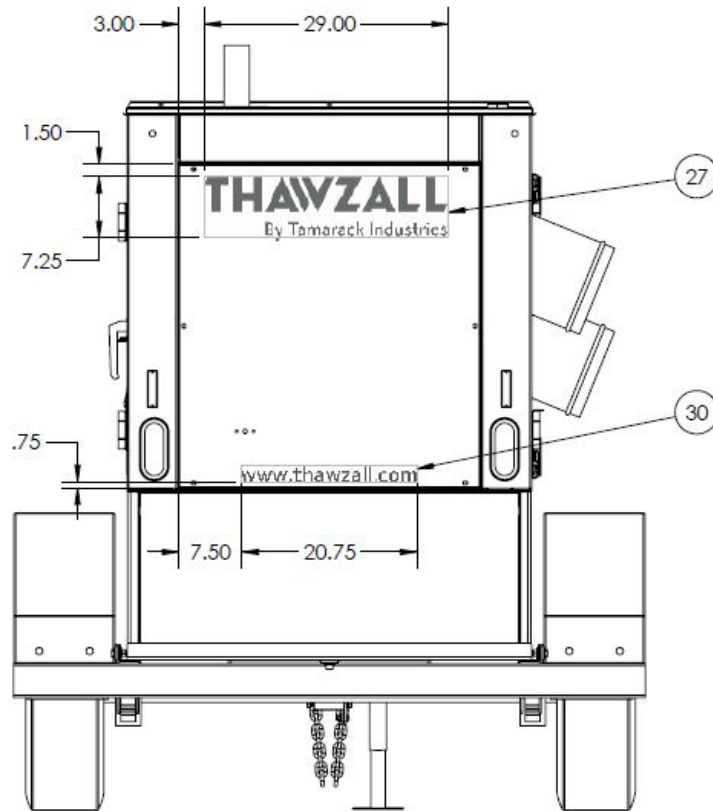
NS	601698	KIT,HARDWARE A600874
3	600932	BALL JOINT, 3/8"-24 THREAD
2	A600870	ASSY,WA,FAN INLET BAFFEL MOVABLE
1	A600873	ASSY,WA,FAN SIDE DAMPER PLATE
ITEM NO.	PART NUMBER	DESCRIPTION

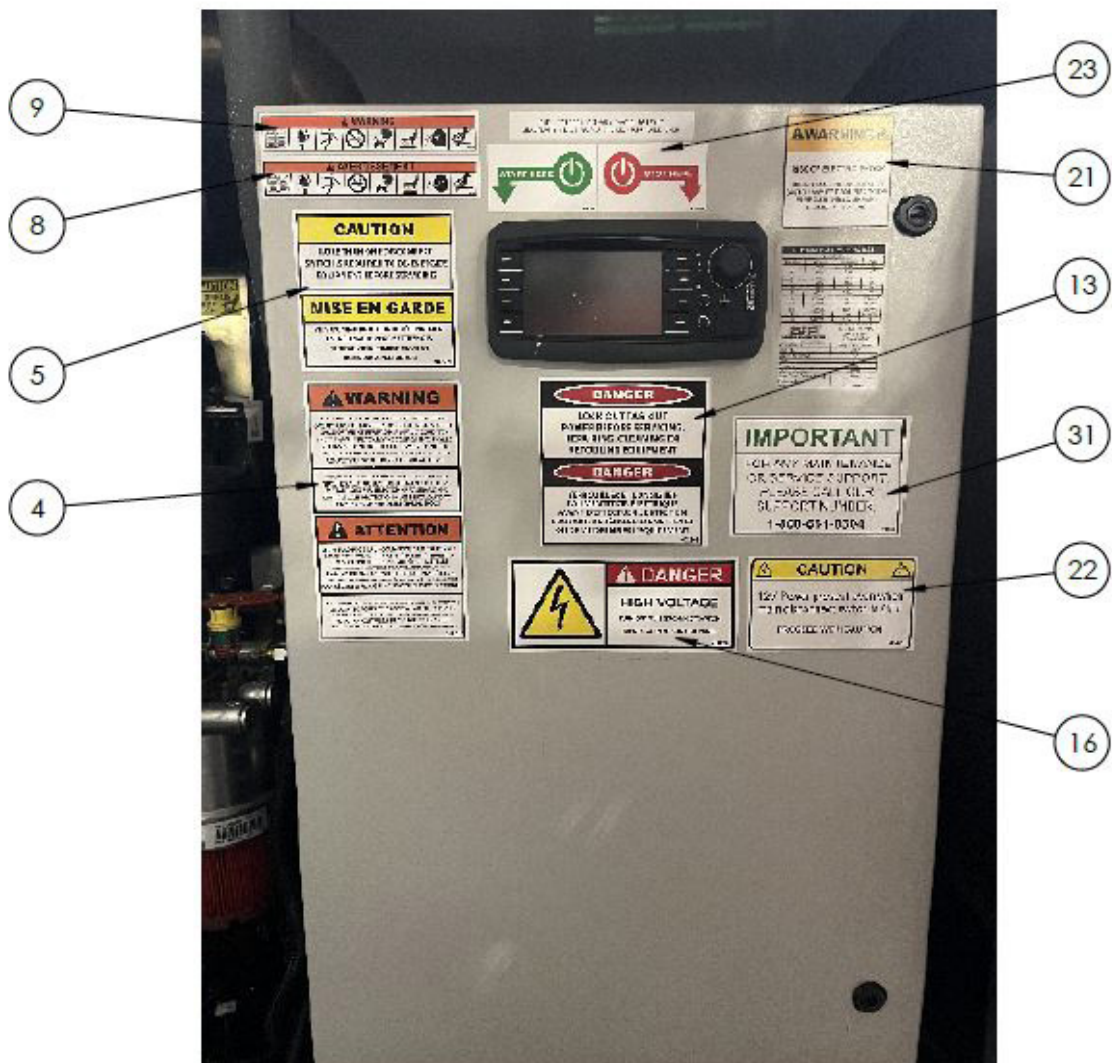
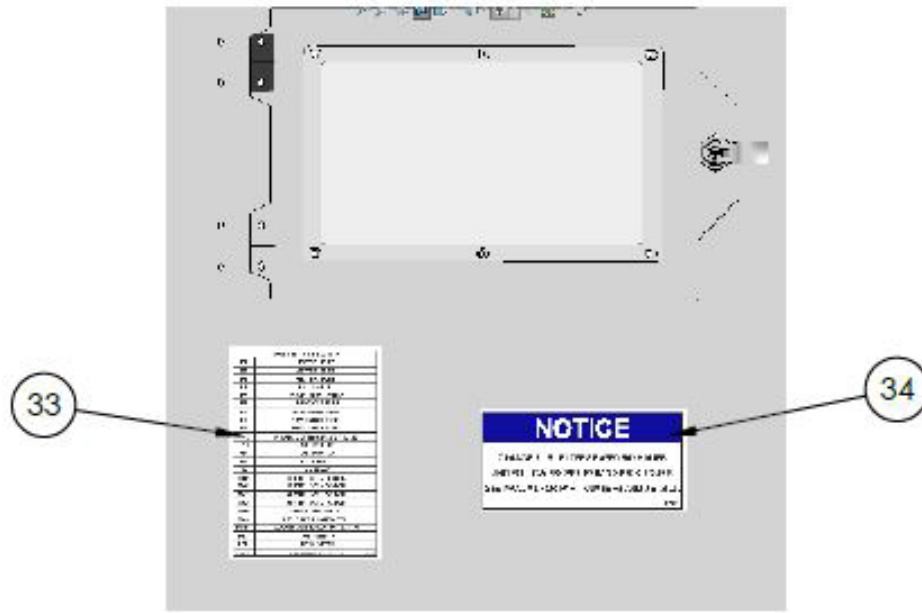
Engine Module

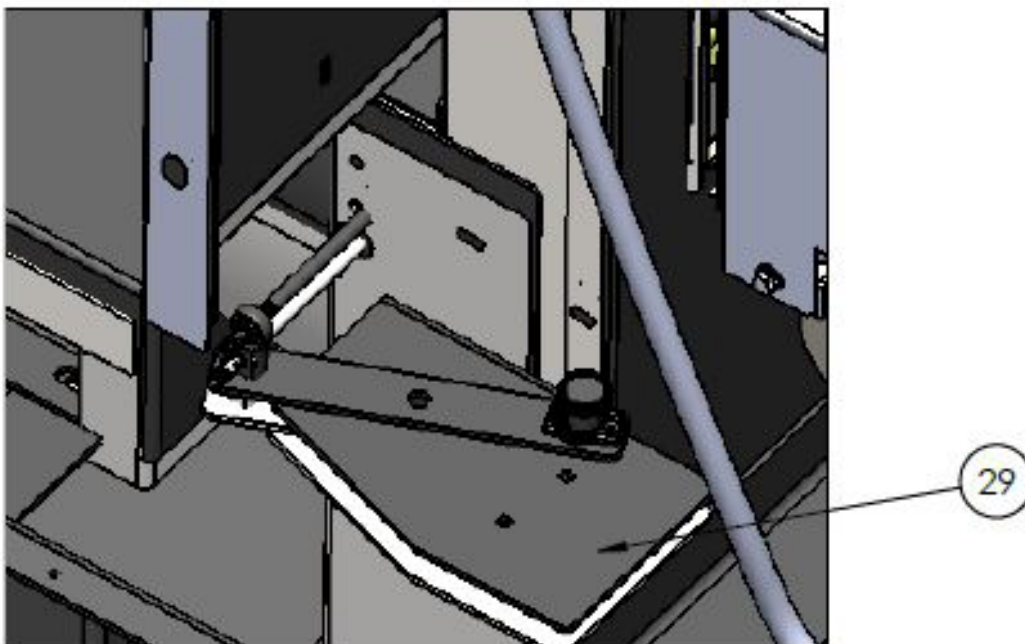
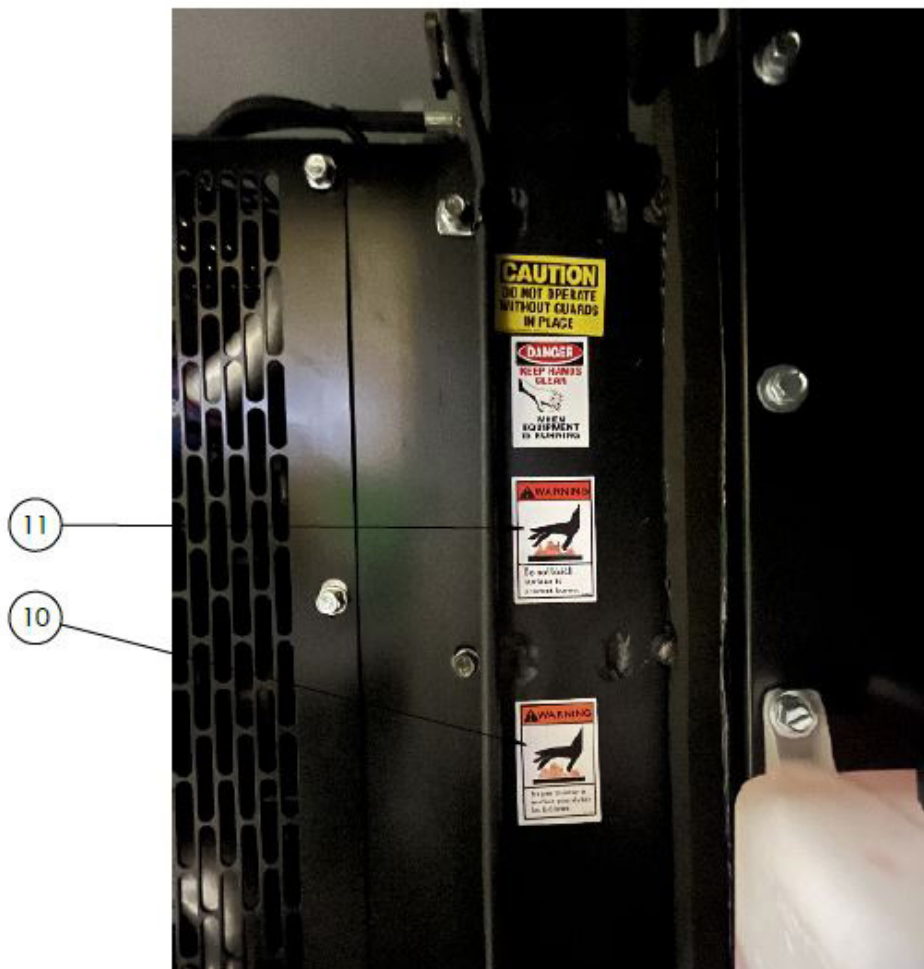


15	A601240	KIT,FUEL FILTER RECOR XHR
14	225831	WASHER,FENDER, 1/2" X 2" OD ZP
13	225829	BOLT, 1/2 X 3 1/2" GR.8 ZP
12	460779	NUT, LOCK, 1/2-13UNC, GR8
11	288101	WASHER,1/2" HS USS FW
10	601239	WASHER,SPACER ISOLATOR XHR
9	82183	ISOLATOR, COOLER VIBRATION
8	600503	CLAMP,EXHAUST 2.5" ALUMINIZED
7	600504	CLAMP,EXHAUST 3" ALUMINIZED
6	X82118	MUFFLER,XHR FLAMELESS
5	A600855	ASSY,EXHAUST EXIT
4	601354	CLAMP,ECH U BOLT 3 1/2 TUBE
3	601353	BKT,HEAT SHIELD EXH-AIR XHR
2	600790	ENGINE, 74HP FIAT T4 W/ GENSET
1	A600860	ASSY,EXHAUST TUBE FIAT
ITEM NO.	PART NUMBER	DESCRIPTION

Decals

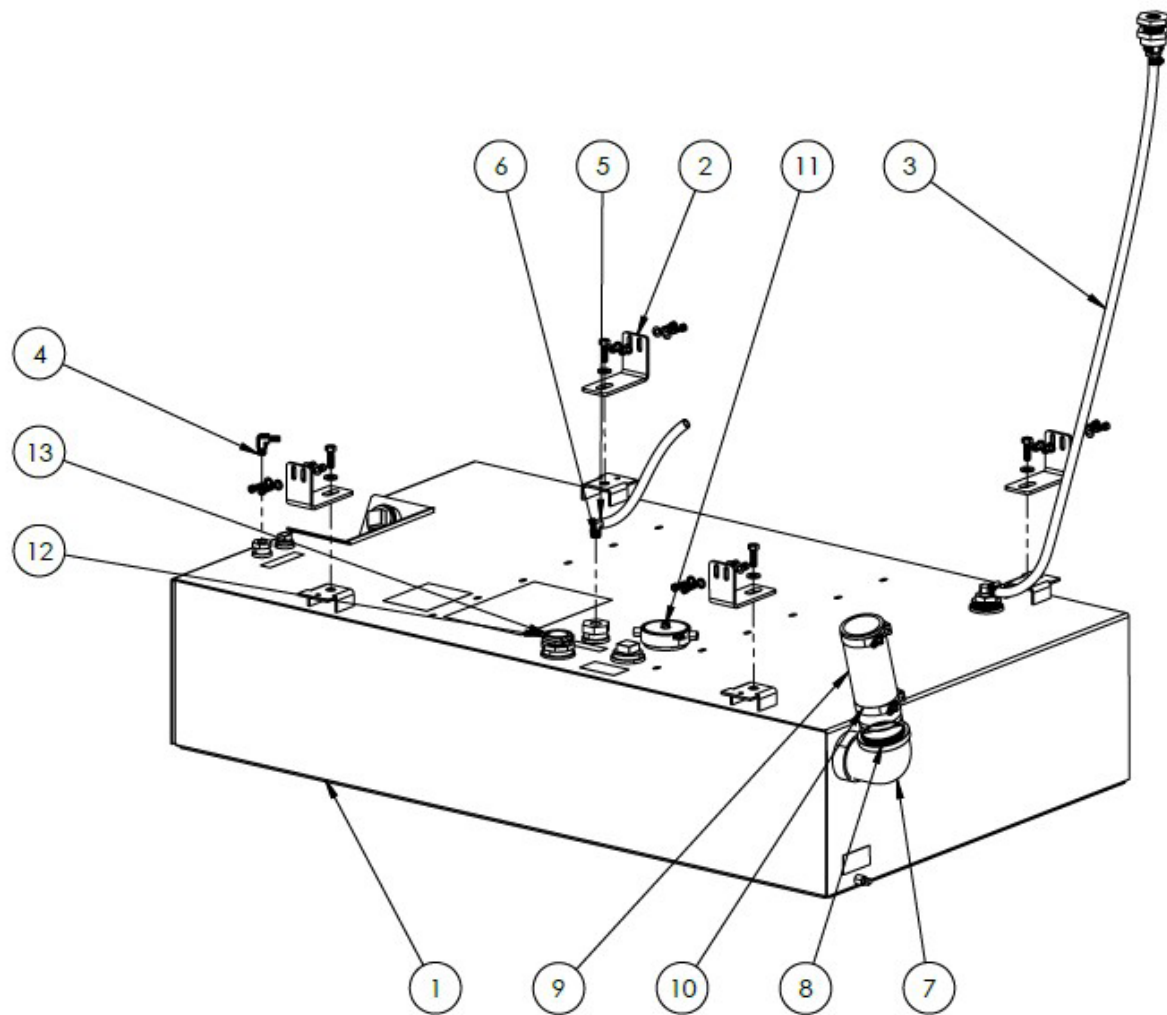






34	601286	DECAL,SERVICE INTERVAL XHR	1
33	601284	DECAL,DEVICE IDENTIFIC XHR PNL	1
32	601348	DECAL,DO NOT TOW	1
31	201256	DECAL,SERVICE CALL SUPPORT	1
30	500189	DECAL,THAWZALL WEBSITE	2
29	600955	DECAL, AIR GATE ADJ. LEVER	1
28	600953	DECAL, NOTICE AIR FLOW CNTRL	1
27	601164	DECAL, THAWZALL BY TAM GRY-LRG	2
26	601163	DECAL, XHR GREY	2
25	601162	DECAL, FLAMLESS AIR HEATER GRY	2
24	600507	DECAL,EMERGENCY STOP ONLY	1
23	600506	DECAL,START STOP HERE	1
22	600691	DECAL,12V ELEC HAZARD XHR	1
21	600502	DECAL , POWER DISCONNECT XHR	1
20	600501	DECAL,BATTERY DSCNT B/H DOOR	1
19	600499	DECALCOOLANT FILL B/H DOOR	1
18	600498	DECAL,ENG OIL&LEVEL B/H DOOR	1
17	600497	DECAL,PWR DISCONNECT B/H DOOR	1
16	700533	DECAL,WARNING HIGH VOLTAGE	2
15	600477	DECAL,OPERATING INST X600	1
14	600251	DECAL,EARTH GROUND	1
13	600249	DECAL,LOCKOUT	1
12	600248	DECAL,DO NOT TOW	1
11	201023	DECAL, WARNING HOT SURFACE	2
10	201253	DECAL,FRENCH, HOT SURFACE	2
9	201237	DECAL, WARNING ICONS	1
8	201251	DECAL,FRENCH, WARNING ICONS	1
7	447341	DECAL, FUEL TYPE	1
6	600235	DECAL,E STOP ENG/FRENCH	1
5	600234	DECAL,CAUTION MULTI DISCONNECT	1
4	600233	DECAL,WARNING OVERLOAD CRNT	1
3	201254	DECAL,MAX SPEED WARNING	1
2	600596	PLATE,CSA XHR	1
1	600949	MANUAL,OPERATING XHR	1
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.

FUEL TANK ASSEMBLY



NS	A601696	KIT,HARDWARE X91550-110	1
NS	601421	CLAMP,PINCH 3/4"	1
NS	601420	SCREEN,FUEL PICK UP TUBE	1
NS	601362	MAGNET,BAR	1
NS	X80036	CLAMP WORM .31-.88	7
13	460862	SENDER,FUEL 30-240OHM	1
12	450433	GAUGE,FUEL 23-1/2" L SPIRAL	1
11	450434	CAP,FUSIBLE 3" S.S.	1
10	444877	CLAMP, 3.38"-3.69" T-BOLT S.S.	2
9	442179	HOSE, 3" TANK TRUCK	1
8	444343	NIPPLE, KC 3" GALV STEEL	1
7	444257	ELBOW,3" STREET 90D GALV STEEL	1
6	601364	BARB, HOSE, 1/2NPT X 1/2 90D	1
5	442178	HOSE, FUEL, 1/2"	6 FT.
4	444799	BARB,3/8 X 3/8 90D BRASS	1
3	A601359	KIT,FUEL TANK BREATHER XHR	1
2	601246	BKT,FUEL TANK MNT SIDE	4
1	447840	TANK FUEL,160G HOR SW UN ULC	1
ITEM NO.	PART NUMBR	DESCRIPTION	QTY.

Filters

TCD 2.9 Deutz Engine

Description	Part Number/ Type
Engine Oil Filter	600542
Engine Air Filter (inner)	600543
Engine Air Filter (outer)	600544
Engine Fuel Filter Primary (Racor)	601210
Engine Fuel Filter Secondary	600546

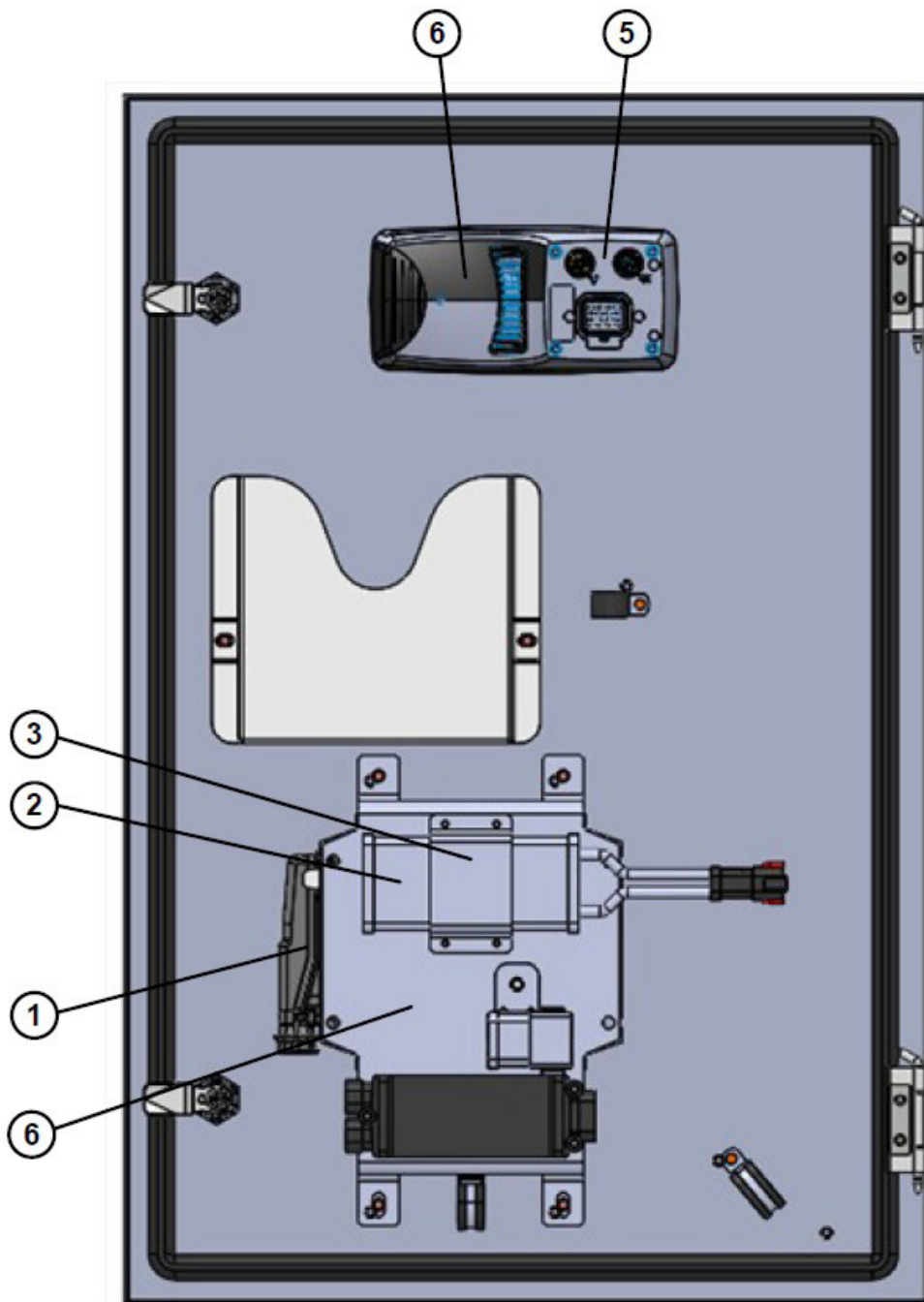
TD 3.6 Deutz Engine

Description	Part Number/ Type
Engine Oil Filter	600542
Engine Air Filter (inner)	601662
Engine Air Filter (outer)	601663
Engine Fuel Filter Primary (Racor)	601210
Engine Fuel Filter Secondary	601664

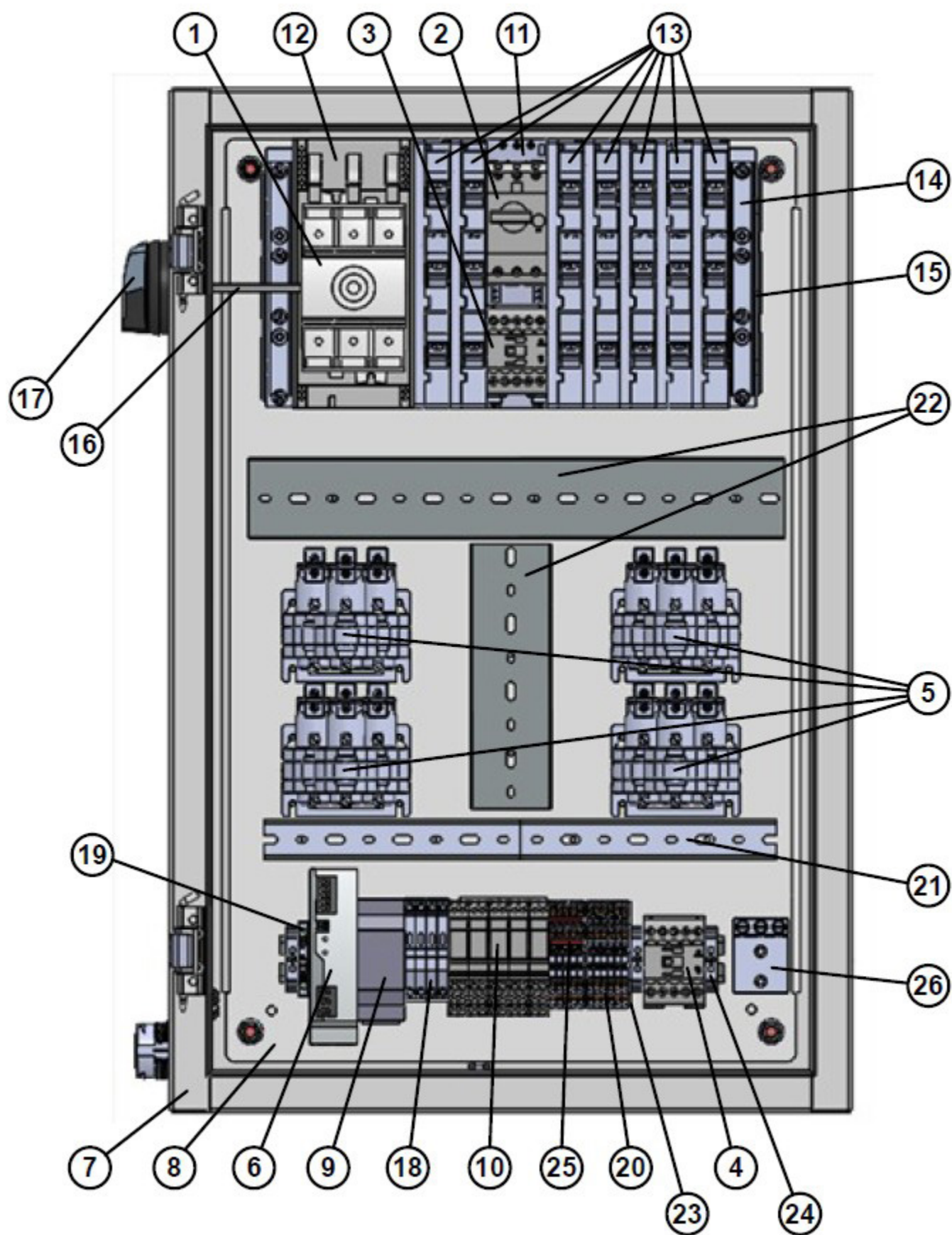
F34 Fiat Engine

Description	Part Number/ Type
Engine Oil Filter	601230
Engine Air Filter (inner)	601211
Engine Air Filter (outer)	601212
Engine Fuel Filter Primary (Racor)	601210
Engine Fuel Filter Secondary	601214
Engine Blow-by Filter	601218

Electrical Panel



1	601318	CONTROLLER,XHR-700
2	601319	VOLTAGE BOOSTER DC/DC
3	601320	MOUNTING BRACKET
4	601321	MOUNTING BRACKET FUSION PLC,
5	601302	HMI PROGRAMMED XHR
6	E700438	KIT,OPUS DISPLAY DASH MNT



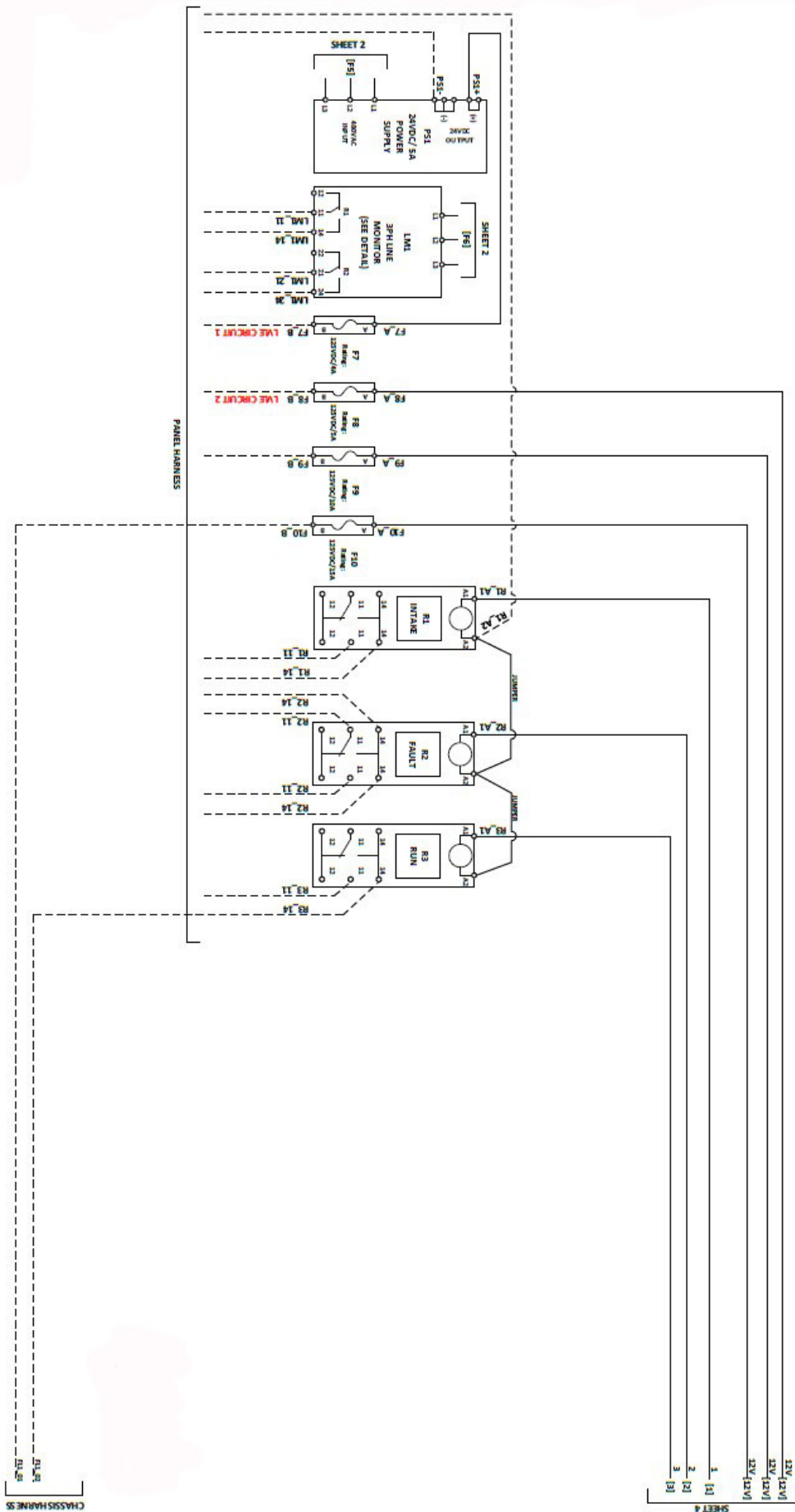
1	601260	SWITCH, DISCONNECT, 100A 3P
2	E700447	CIRCUIT BREAKER,6.3-10A 3P
3	E700446	CONTACTOR,12A 3P 24VDC MOTOR
4	601275	CONTACTOR,9A 3P 24-27VDC COIL
NS	601249	FUSE, FAST ACT, 0.1A TYPE CC
NS	601252	FUSE, FAST ACT, 15A TYPE CC
NS	601253	FUSE, FAST ACT, 25A TYPE CC
NS	601170	FUSE,SLO BLO 4A
NS	601254	FUSE, SLO BLO 5A
NS	601255	FUSE, SLO BLO 10A
NS	601256	FUSE, SLO BLO 15A
NS	601257	FUSE, SLO BLOW, 17.5A TYPE CC
5	601208	CONTACTOR,MERCURY XHR FLMLS
NS	446547	TERMINAL, 16-14GA, 1/4 RING
NS	601258	TERMINAL, 22-18GA, #10 RING
NS	600539	BUSHING,3/4NPT 105 DEG
6	600574	POWERSUPPLY,5AMP 3PH 24DC
7	601250	ENCLOSURE, C/P XHR
8	601251	BACKPLATE, ENCLOSURE 601250
9	600559	MONITOR,3-PHASE INLINE
10	601248	RELAY, 12VDC COIL, 16A 250V
11	601259	ADAPTER, BUS BAR, 25A 3P
12	601263	ADAPTER, BUS BAR, 160A 3P
13	601264	FUSE CARRIER, BUS MNT, 3P
14	601265	BUS BAR, END SUPPORT
15	601266	BUS BAR, SUPPORT END COVER
NS	601267	BUS BAR, SPACER
NS	601268	CONTACT, BUS BAR
NS	E461796	FERRULE,#10AWG,1WIRE
NS	E461794	FERRULE,#14AWG,1WIRE
NS	461655	FERRULE,#18AWG,1WIRE
16	601261	SHAFT, EXTENSION, 30-100A
17	601262	HANDLE, NEMA 3R/12
18	601171	CAGE,FUSE TERMINAL BLCOK
19	601269	TERMINAL BLOCK, GND, PT4 YL/GR
20	601270	TERMINAL BLOCK, 2 LVL, GRY
21	601272	DUCT, WIRING, 30MM X 80MM
22	601273	DUCT, WIRING, 60MM X 80MM
NS	446503	RAIL, DIN TS 35 X 7.5 ZM
23	601271	TERMINAL BLOCK,2LVL,END COVER
NS	E461777	TERMINAL BLOCK, END COVER
24	601274	TERMINAL BLOCK, END CLAMP, GRY
NS	E461782	TERMINAL BLOCK, MARKING PT2,5
NS	E461778	TERMINAL BLOCK, MARKING PT4
25	E461780	TERMINAL BLOCK, JUMPER 10 POS
NS	601276	TERMINAL BLOCK, 3-WAY JUMPER
26	E700436	LUG TERMINAL, 1/0-14 AWG
NS	446560	WIRE, TEW 18AWG, BLACK, 16STR
NS	446562	WIRE, TEW 14AWG, BLACK 41STR
NS	447134	WIRE, TEW 10AWG, BLACK
NS	460460	WIRE,TEW 18AWG, RED, 16STR
NS	446390	WIRE, TEW 14AWG, RED, 41STR
NS	446370	WIRE, TEW 18AWG, BLUE, 16STR
NS	446564	WIRE, TEW 14AWG, GREEN, 41STR
NS	600836	DECAL,XHR CTL PNL SPEC'S
NS	600837	DECAL,WARNING CTL PNL XHR
NS	600838	DECAL,WARNING,OVER-CURRENT

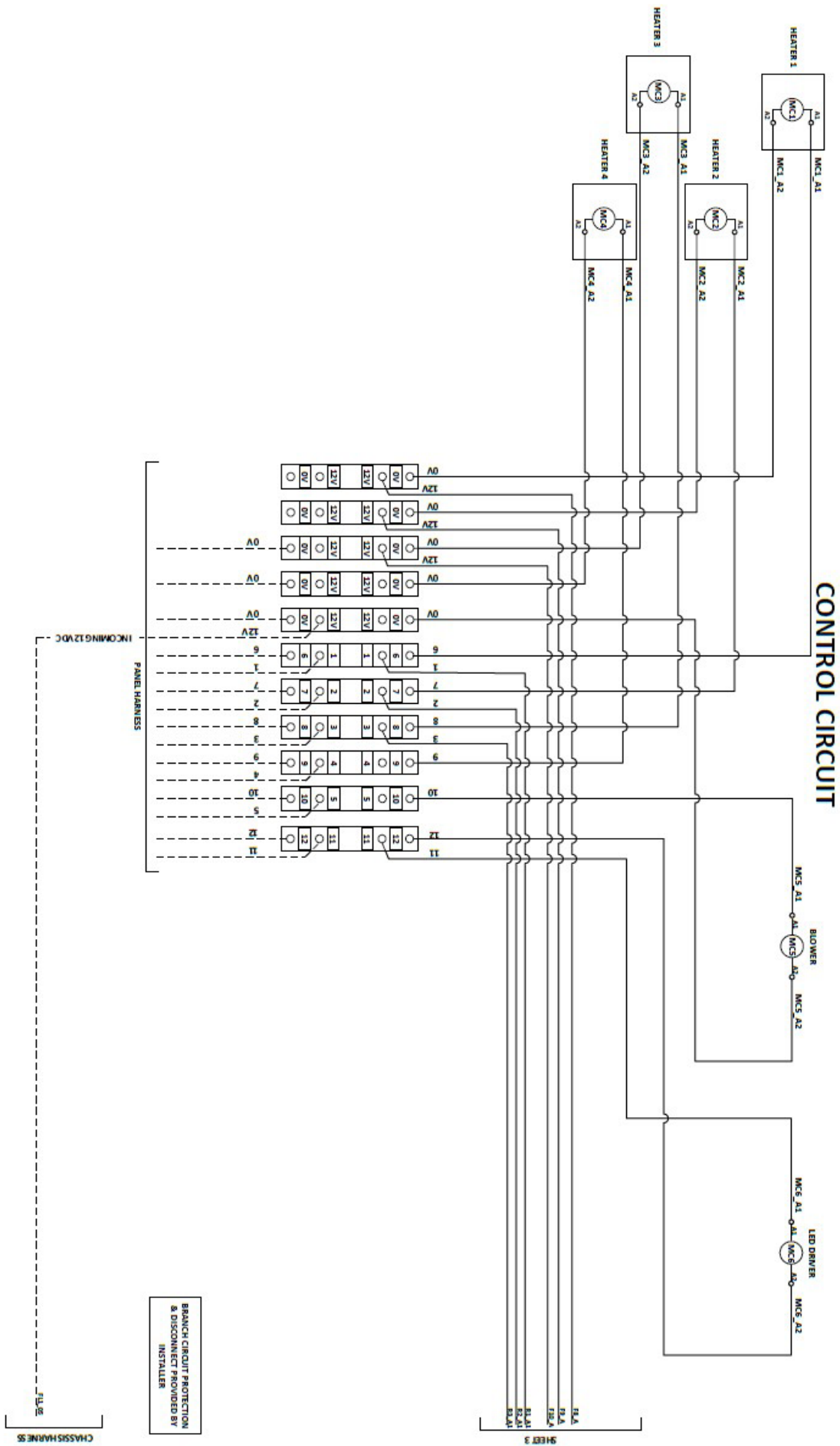
POWER CIRCUIT



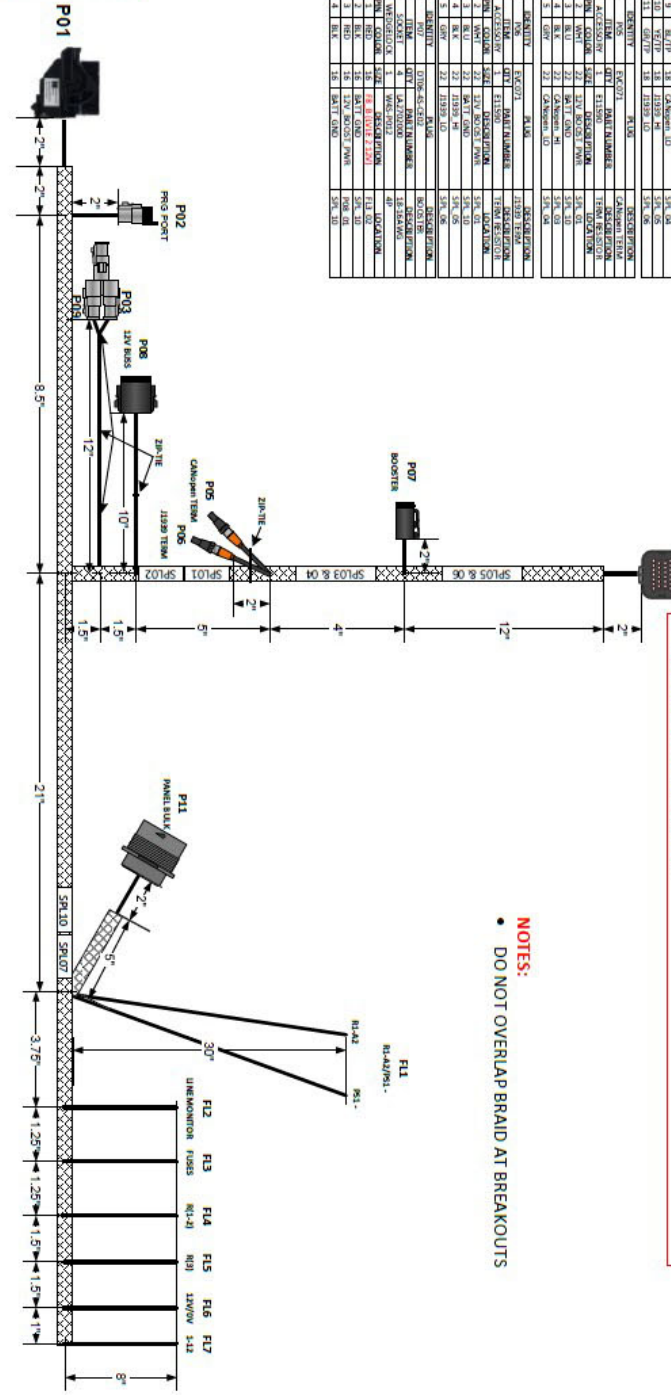
LINE PROTECTION PROVIDED

CONTROL CIRCUIT





IDENTITY	AGE	SEX	COGNITION	DESCRIPTION	DESCRIPTION	COGNITION
TYPE	1	2	3	4	5	6
1	10	1	1	1	1	1
2	10	1	1	1	1	1
3	10	1	1	1	1	1
4	10	1	1	1	1	1
5	10	1	1	1	1	1
6	10	1	1	1	1	1
7	10	1	1	1	1	1
8	10	1	1	1	1	1
9	10	1	1	1	1	1
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45	10	1	1	1	1	1
46	10	1	1	1	1	1
47	10	1	1	1	1	1
48	10	1	1	1	1	1
49	10	1	1	1	1	1
50	10	1	1	1	1	1
51	10	1	1	1	1	1
52	10	1	1	1	1	1
53	10	1	1	1	1	1
54	10	1	1	1	1	1
55	10	1	1	1	1	1
56	10	1	1	1	1	1
57	10	1	1	1	1	1
58	10	1	1	1	1	1
59	10	1	1	1	1	1
60	10	1	1	1	1	1
61	10	1	1	1	1	1
62	10	1	1	1	1	1
63	10	1	1	1	1	1
64	10	1	1	1	1	1
65	10	1	1	1	1	1
66	10	1	1	1	1	1
67	10	1	1	1	1	1
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70	10	1	1	1	1	1
71	10	1	1	1	1	1
72	10	1	1	1	1	1
73	10	1	1	1	1	1
74	10	1	1	1	1	1
75	10	1	1	1	1	1
76	10	1	1	1	1	1
77	10	1	1	1	1	1
78	10	1	1	1	1	1
79	10	1	1	1	1	1
80	10	1	1	1	1	

[illegible]

- DO NOT OVERLAP BRAID AT BREAKOUTS

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