DIAMOND PRODUCTS®

CORE POWER
PARTS LIST MANUAL

CP40BVXL
HYDRAULIC POWER UNIT

JULY 2026

Part #: 1803541-01

Proposition 65
State of California

Warning !

Engine exhaust and some its constituents are known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

Notification of Spark Arrester Requirement for State of California

It is a violation of Section 4442 or 4443 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the engine is equipped with a spark arrester, as defined in Section 4442, maintained in effective working order or the engine is constructed, equipped, and maintained for the prevention of fire pursuant to Section 4443.

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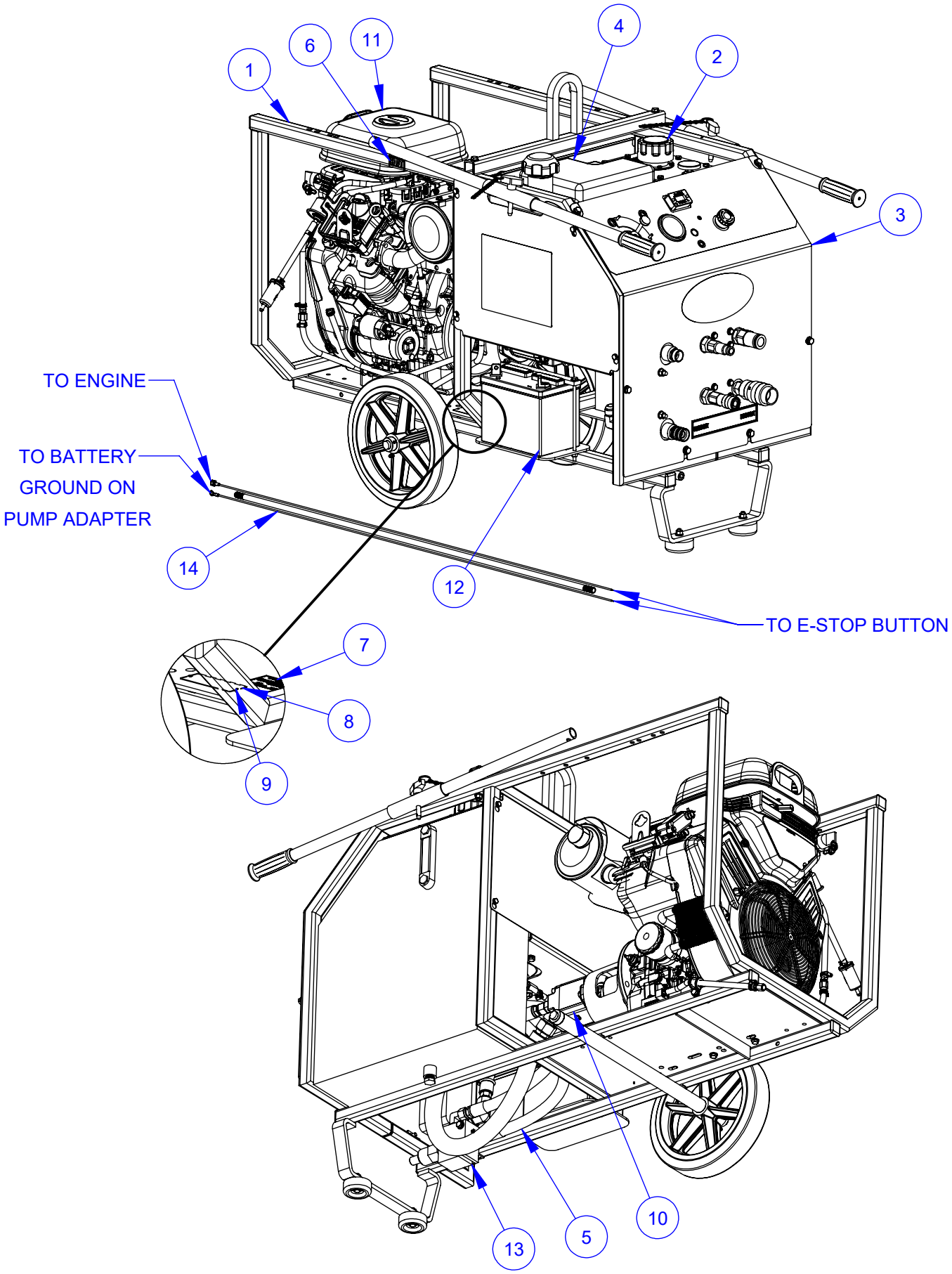
Engine Quick Reference

DP Part No.	Description
2703213	Air Pre-Cleaner
2708178	Air Filter
2705237	Fuel Filter
2705507	Engine Oil Filter
2702626	Spark Plug

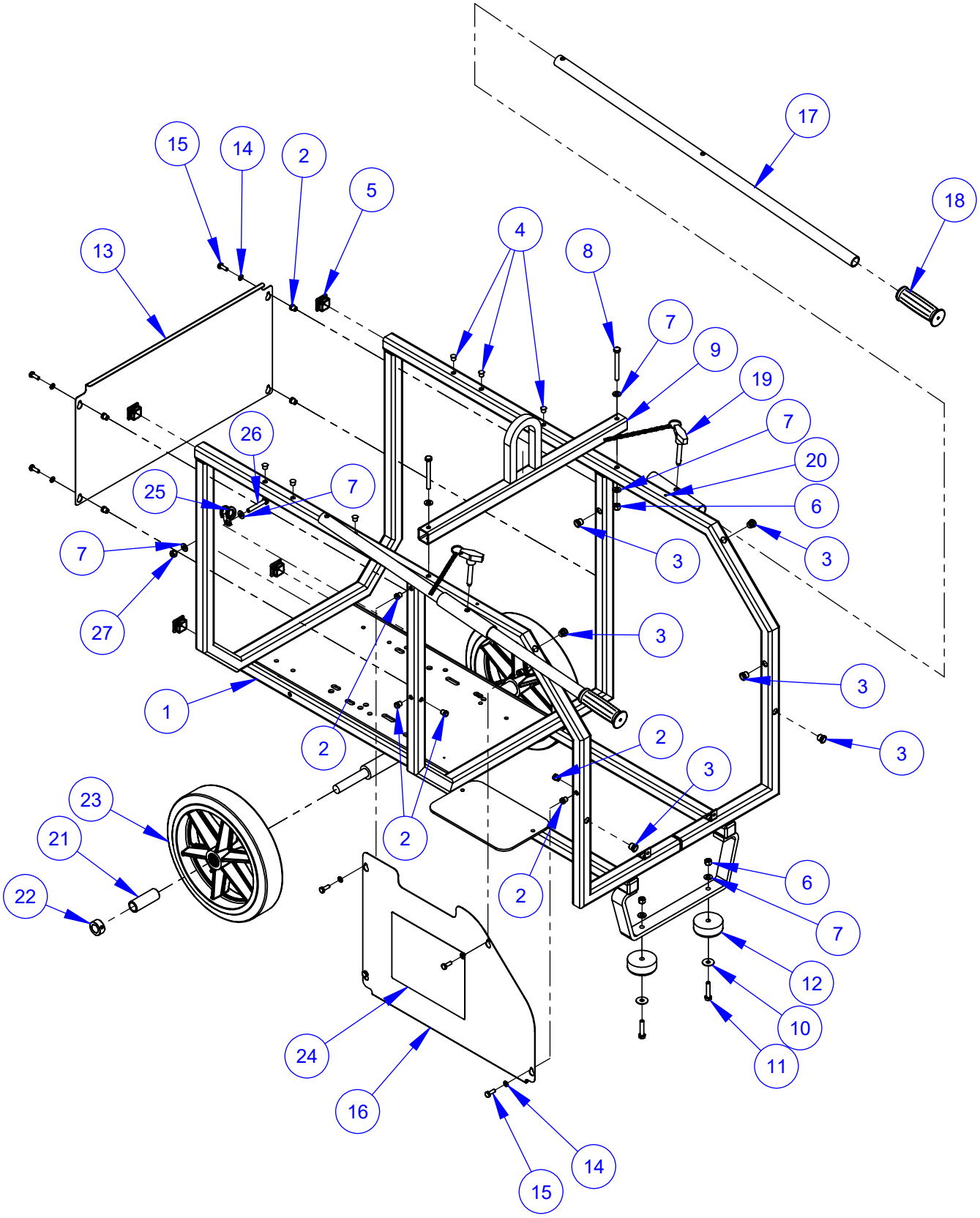
CP40BVXL Power Supply #4646270



CP40BVXL Power Supply #4646270

ITEM	PART NO.	QTY.	DESCRIPTION
1	4646271	1	CP40BVXL Frame Assembly
2	4646173	1	Hydraulic Tank Assembly
3	4646256	1	Panel Assembly, CP40BVXL
4	4646272	1	Fuel Tank Assembly
5	4646209	1	Hose Kit, CP35, CP38
6	1800537	1	Label, HOT
7	1801716	1	Decal, EPA EVAP Standard
8	1800169	1	Serial Number Plate, US
9	2900053	2	Rivet, 3/32" Dia.
10	4646274	1	Pump Assembly
11	4646273	1	40HP Briggs-Vanguard Engine Assembly
12	4646252	1	Battery Assembly
13	4646253	1	Relief Valve Assembly
14	4643022	1	Wire Assy., Emergency Off, 50-1/2"

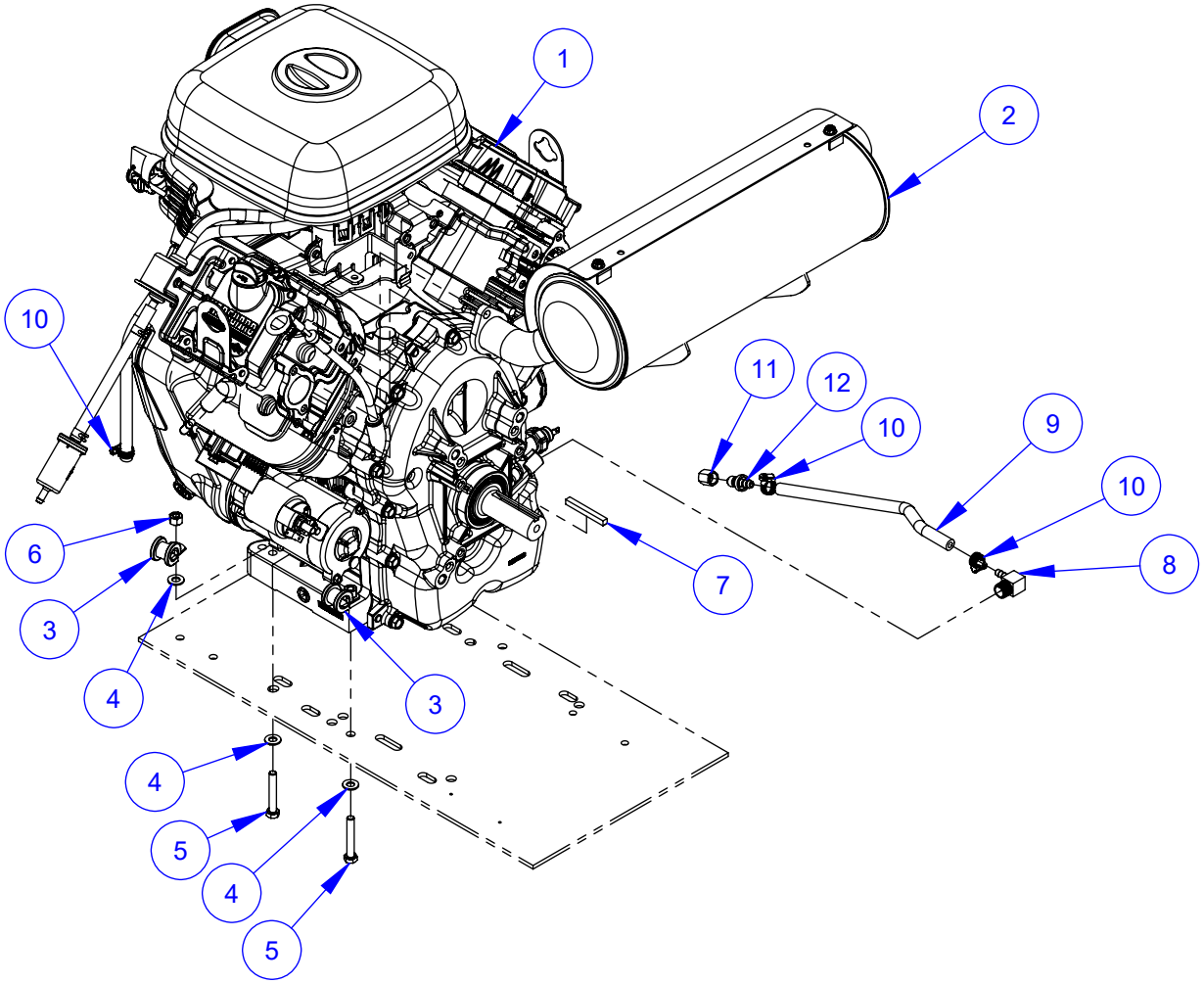
CP40BVXL Frame Assembly #4646271



CP40BVXL Frame Assembly #4646271

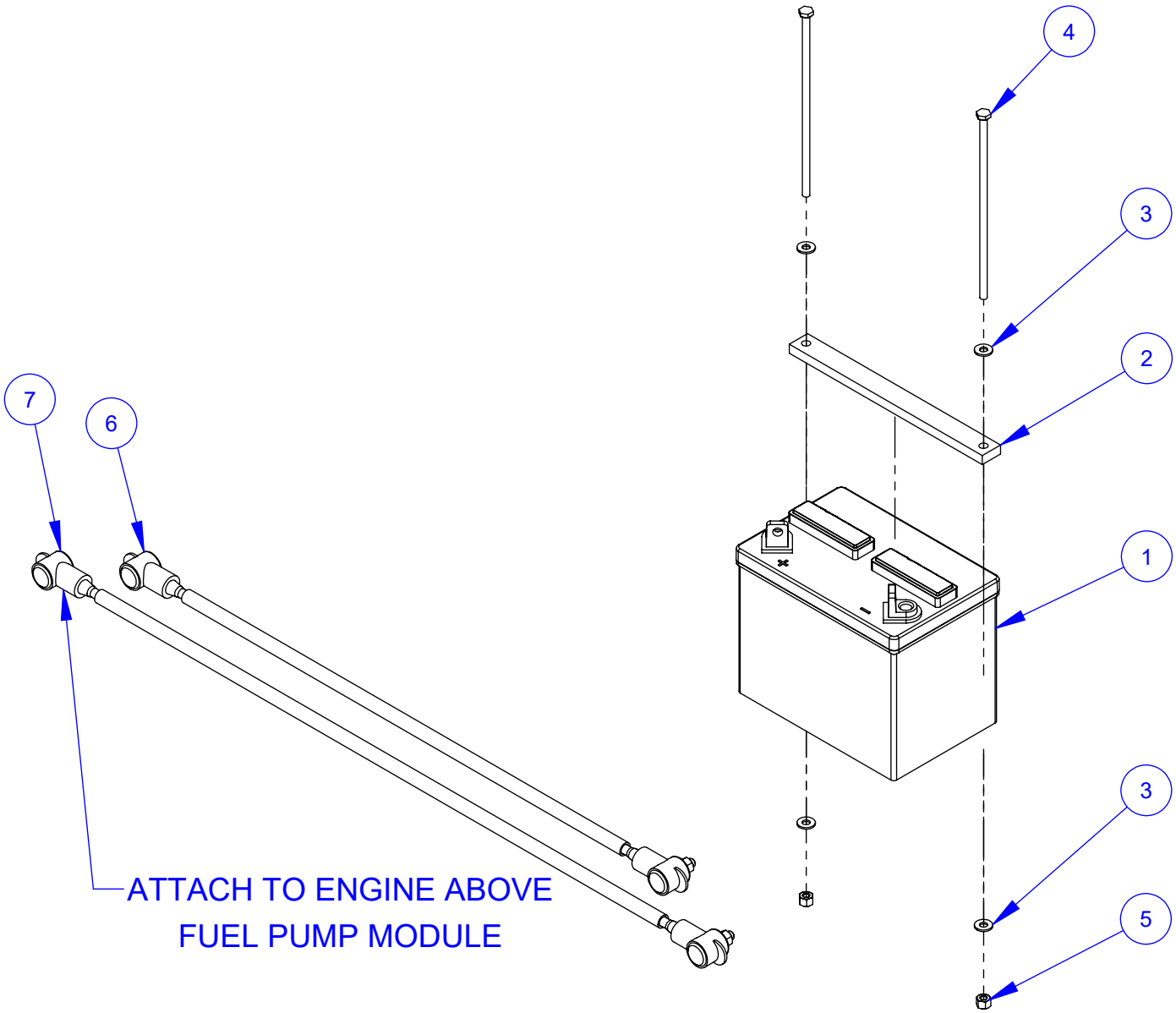
ITEM	PART NO.	QTY.	DESCRIPTION
1	2400680	1	CP Frame Weldment
2	2900441	10	Rivet Nut, 1/4-20 Round
3	2900419	6	Rivet Nut, 5/16-18 Round
4	2500462	6	Plug, 3/8" Hole
5	2504968	6	Cap, 1-1/4" Sq. Tube
6	2900039	4	Lock Nut, 5/16-18 Nylon
7	2900022	8	Flat Washer, 5/16" SAE
8	2900248	2	Cap Screw, Hex Hd., 5/16-18 x 3"
9	4646003	1	Lifting Bar
10	2901103	2	Fender Washer, 5/16" x 1"
11	2900508	2	Cap Screw, Hex Hd., 5/16-18 x 1-1/2"
12	2501767	2	Rubber Bumper
13	4646011	1	Heat Shield
14	2900024	8	Lock Washer, 1/4" Split
15	2900144	8	Cap Screw, Hex Hd., 1/4-20 x 3/4"
16	4646049	1	Side Panel
17	4646006	2	Handle
18	2500636	2	Handle Grip
19	2900257	2	Lock Pin, T Handle, 3/8"
20	2900053	2	Rivet, 3/32" Dia.
21	6011775	2	Bushing, .75 x 1.00 x 2.75L
22	2400615	2	Set Collar, 3/4"
23	2505179	2	Wheel 12" X 2-3/4" X 1"
24	1802834	1	Decal, Core Power CP40BV
25	2501434	1	Hose Clamp, 5/8" x 3/4" Wide
26	2900494	1	Cap Screw, Hex Hd., 5/16-18 x 2"
27	2900039	1	5/16"-18 Nylock Hex Nut

40HP Briggs-Vanguard Engine Assembly #4646273



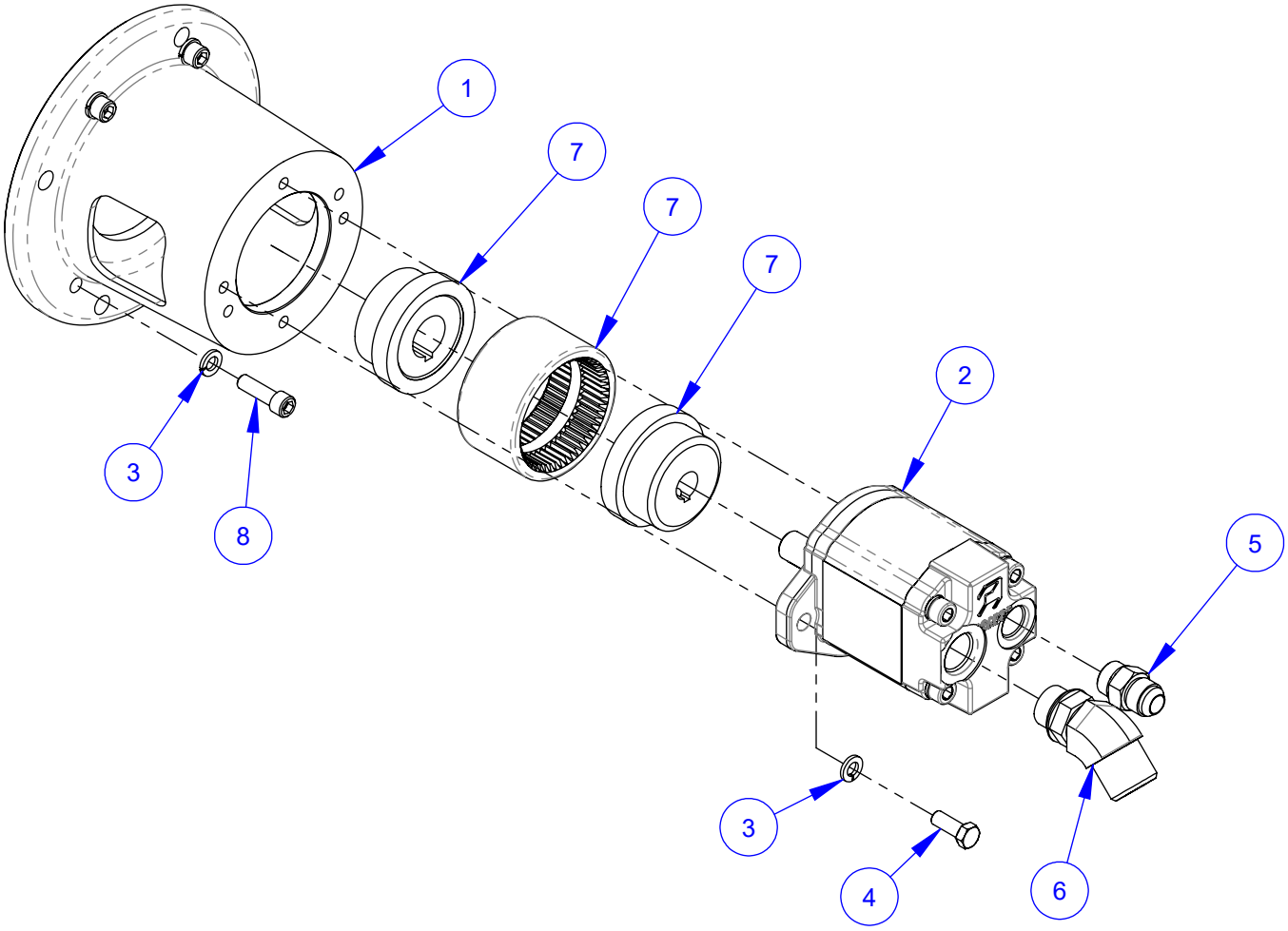
ITEM	PART NO.	QTY.	DESCRIPTION
1	4600307	1	40HP Briggs-Vanguard EFI Engine, Short Shaft
2	2707358	1	Muffler, Briggs, Filter Side Outlet
3	2501434	2	Hose Clamp, 5/8" x 3/4" Wide
4	2900022	8	Flat Washer, 5/16" SAE
5	2900494	4	Cap Screw, Hex Hd., 5/16-18 x 2"
6	2900039	4	Lock Nut, 5/16-18 Nylon
7	6048134	1	Key, 1/4" Sq. x 2-1/4"
8	3201721	1	Elbow, 3/8" M. Pipe to 1/4" Hose Barb
9	6047955	1	Hose, 1/4" I.D. x 12"
10	3200062	3	Hose Clamp #4
11	3200006	1	Cap, 1/4" JIC
12	3200040	1	Fitting, 1/4" M. JIC to 1/4" Push Lock

Battery Assembly #4646252



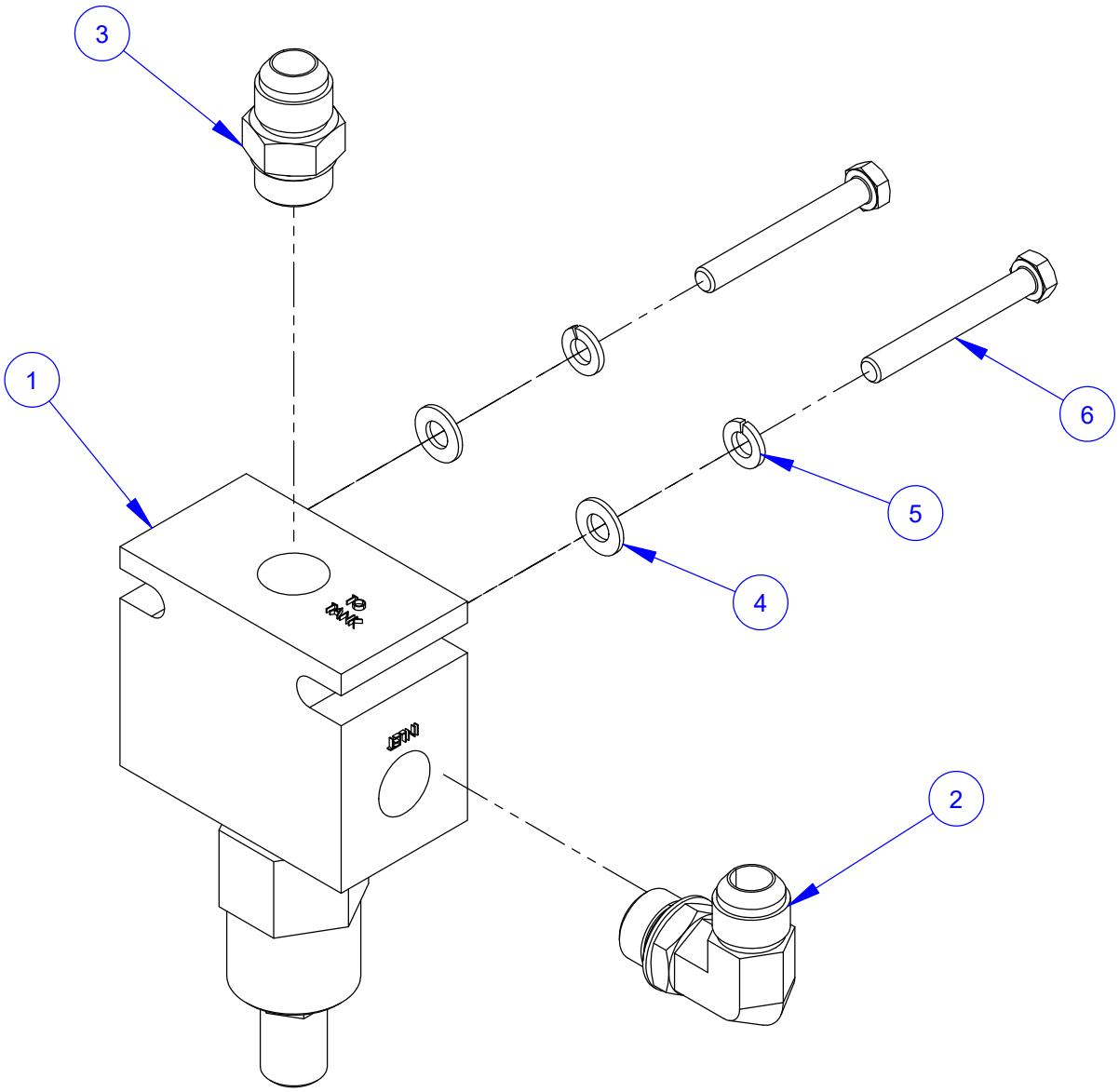
ITEM	PART NO.	QTY.	DESCRIPTION
1	2500584	1	Battery, 12 Volt Group Size U1
2	4646122	1	BatterySupport
3	2900009	4	Flat Washer, 1/4" SAE
4	2901405	2	Cap Screw, Hex Hd., 1/4-20 x 7-1/2"
5	2900010	2	Lock Nut, 1/4-20 Nylon
6	4646015	1	Battery Cable Assy., Red
7	4646016	1	Battery Cable Assy., Black

Pump Assembly #4646274



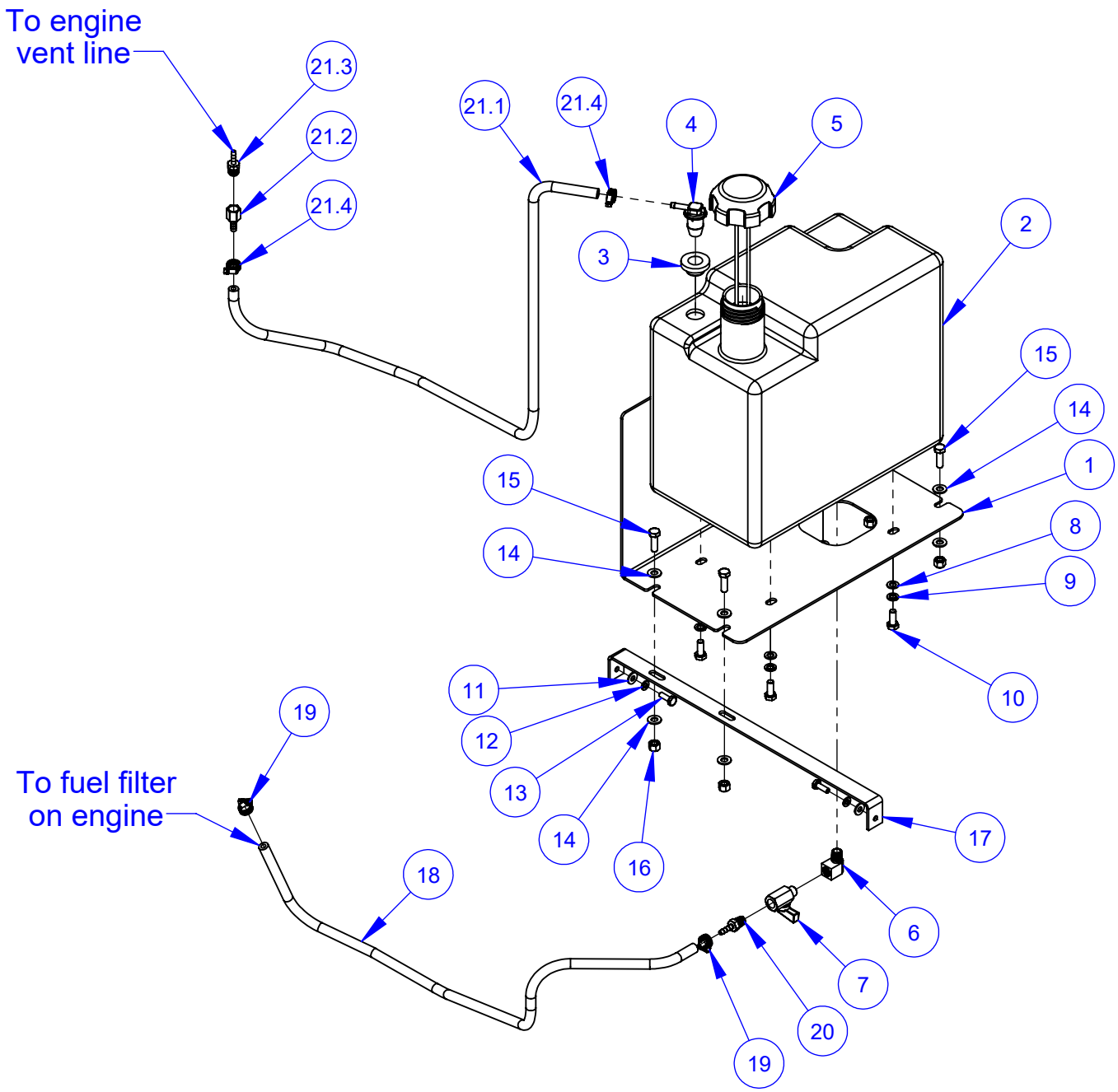
ITEM	PART NO.	QTY.	DESCRIPTION
1	4646010	1	PUMP MOUNT, SAE 2 BOLT
2	2600569	1	Pump, 1.0 CI, 2 Bolt SAE
3	2900006	6	Lock Washer, 3/8" Split
4	2900005	2	Cap Screw, Hex Hd., 3/8-16 x 1"
5	3202079	1	5/8" O-Ring - 5/8" MJIC
6	3201881	1	1" MJIC - 3/4" MOR, 45 Deg.
7	2400639	1	Flex Coupling, 3/4 - 1-1/8"
8	2900724	4	Cap Screw, Soc. Hd., 3/8-16 x 1-1/4"

Relief Valve Assembly #4646253



ITEM	PART NO.	QTY.	DESCRIPTION
1	3202318	1	Valve, Relief, 5KSI
2	3202061	1	Fitting, 5/8" MORB x 5/8" MJIC x 90 DEG
3	3202079	1	5/8" O-Ring - 5/8" MJIC
4	2900022	2	Flat Washer, 5/16" SAE
5	2900031	2	Lock Washer, 5/16" Split
6	2900726	2	Cap Screw, Hex Hd., 5/16-18 x 2-1/2"

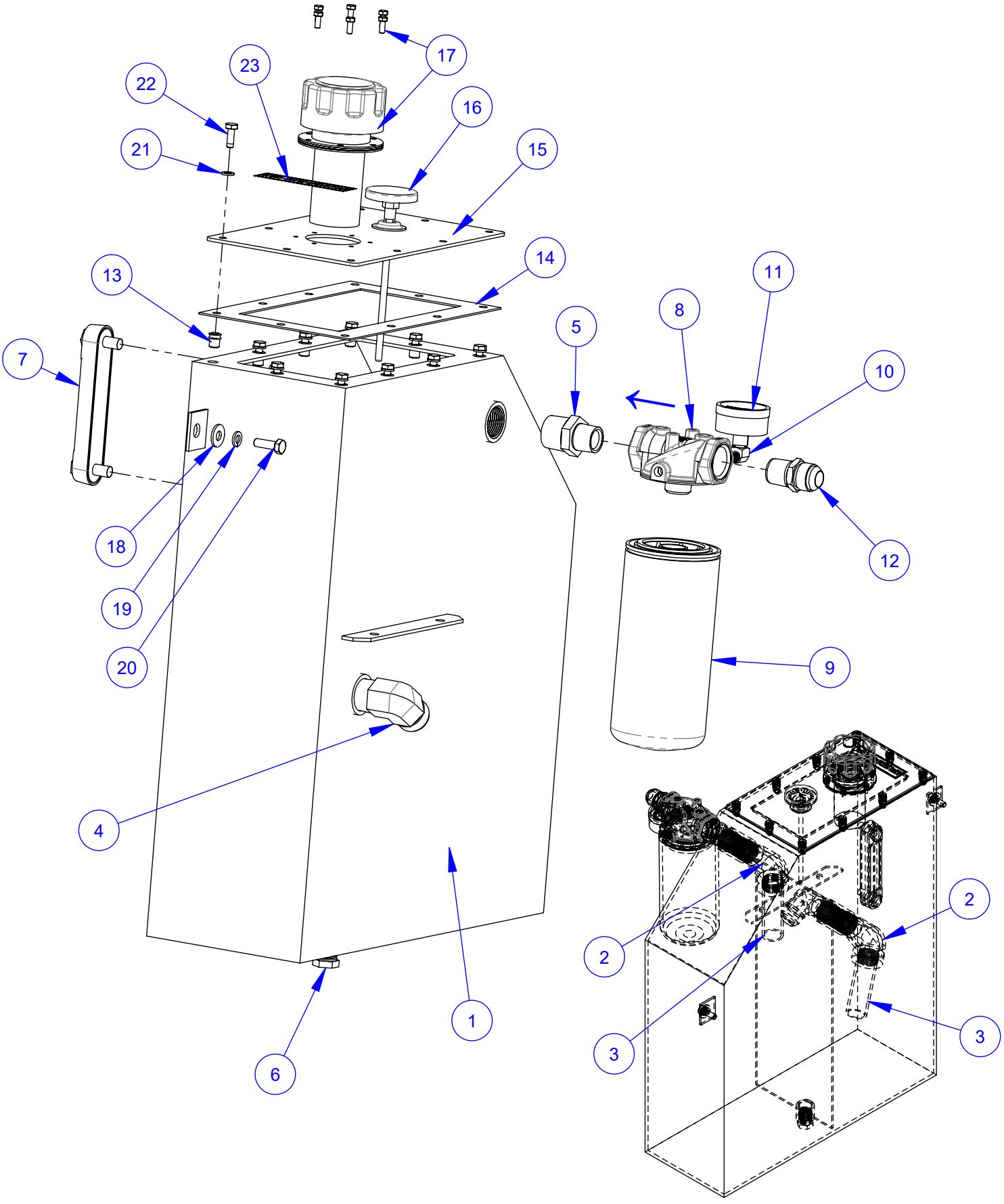
Fuel Tank Assembly #4646272



Fuel Tank Assembly #4646272

ITEM	PART NO.	QTY.	DESCRIPTION
1	4646261	1	Gas Tank Mounting Plate
2	6010869	1	Fuel Tank, 4.4 Gallon
3	2506716	1	Grommet
4	2502484	1	Roll Over Vent, 1/4" Hose Barb
5	2503294	1	Fuel Tank Cap, W/Gage
6	3200012	1	Street Elbow, 1/4" NPT
7	3200108	1	Ball Valve, 1/4" NPT
8	2901336	4	Flat Washer, M8
9	2900763	4	Lock Washer, M8 Split
10	2900329	4	Capscrew, Hex Hd., M8 x 1.25 x 20mm
11	2900009	2	Flat Washer, 1/4" SAE
12	2900024	2	Lock Washer, 1/4" Split
13	2900144	2	Cap Screw, Hex Hd., 1/4-20 x 3/4"
14	2900022	8	Flat Washer, 5/16" SAE
15	2900138	4	Cap Screw, Hex Hd., 5/16-18 x 1"
16	2900039	4	Lock Nut, 5/16-18 Nylon
17	4646035	1	Fuel Tank Support
18	6019095	1	Fuel Hose, 1/4" ID X 42"
19	3200390	2	Hose Clamp #6
20	3200019	1	Fitting, 1/4" M. Pipe to 1/4" Hose Barb
21	4641198	1	Hose Assy., 1/4 - 3/16 Barb, 53.75"
21.1	4641198A	1	Hose, 1/4" ID x 42"
21.2	3200231	1	Fitting, 1/4"F. Pipe to 1/4" Hose Barb
21.3	3200210	1	Fitting, 1/4" M. Pipe to 3/16" Hose Barb
21.4	3200390	2	Hose Clamp #6

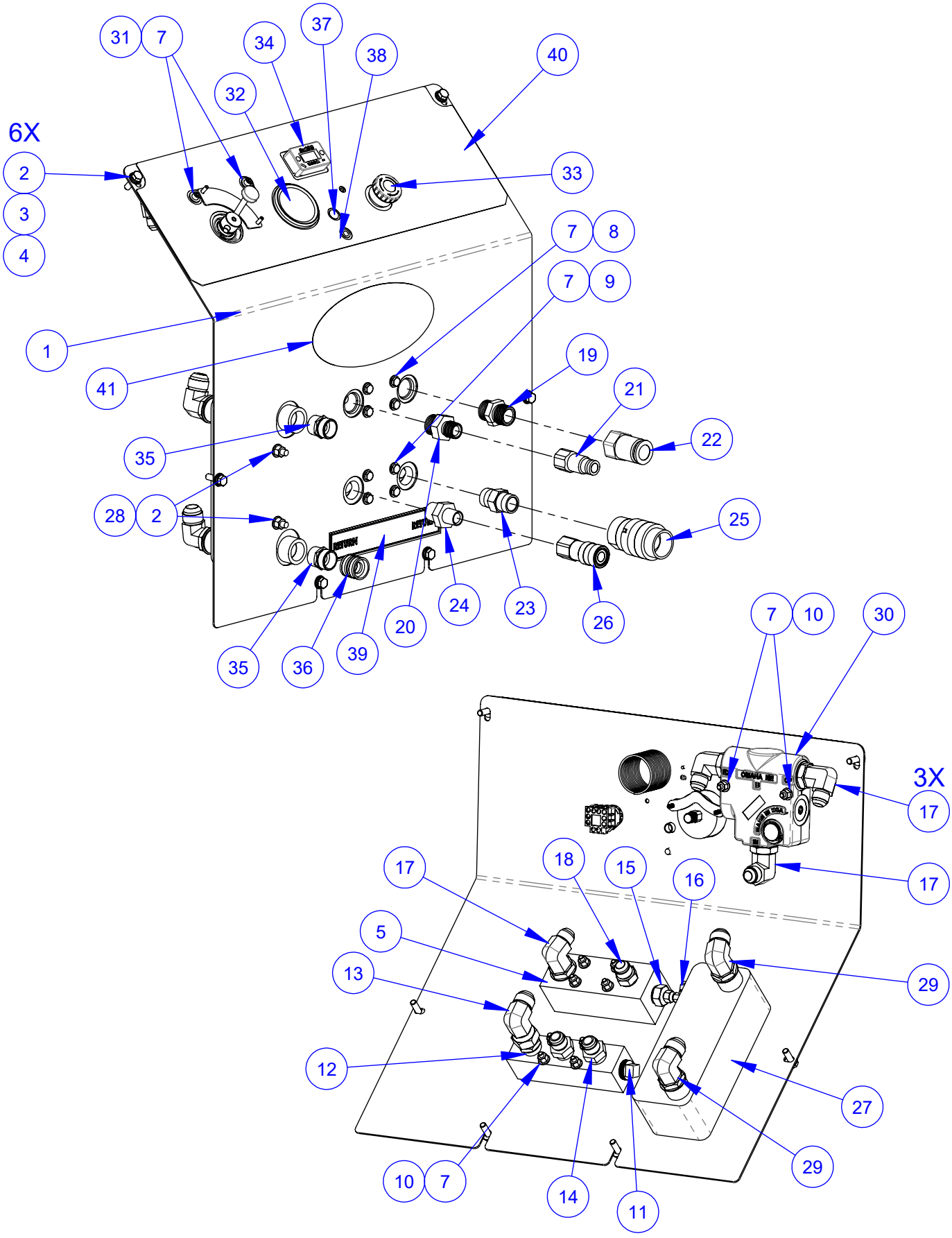
Hydraulic Tank Assembly #4646173



Hydraulic Tank Assembly #4646173

ITEM	PART NO.	QTY.	DESCRIPTION
1	4640120	1	Hydraulic Tank Weldment
2	3200409	2	Street Elbow, 1" NPT
3	3200427	2	Nipple, 1" NPT x 4"
4	3200289	1	Elbow, 1" M. Pipe to 1" M. JIC
5	3200431	1	NIpple, 1"MPT - 3/4" MPT
6	3200160	1	Plug, 1/2" NPT
7	2400166	1	Sight Gauge, Liquid Level
8	2703290	1	Filter Head, 3/4" NPT
9	3201175	1	Hydraulic Filter Element
10	3200156	1	Street Elbow, 1/8" NPT
11	3200502	1	Gauge, Hydraulic Pressure
12	3200097	1	Adapter, 3/4" M. JIC to 3/4" M. Pipe
13	2900441	10	Rivet Nut, 1/4-20 Round
14	4646083	1	Gasket, Hyd Tank
15	4640121	1	Cover, Hydraulic Tank
16	2800459	1	Thermometer, 2", 0 - 200 F
17	2401305	1	Filler/Breather Cap W/Screen
	2900339	6	Cap Screw, Hex Hd., M5-0.8 x 12mm
18	2900567	2	Flat Washer, 5/16" USS
19	2900031	2	Lock Washer, 5/16" Split
20	2900138	2	Cap Screw, Hex Hd., 5/16-18 x 1"
21	2900024	10	Lock Washer, 1/4" Split
22	2900144	10	Cap Screw, Hex Hd., 1/4-20 x 3/4"
23	1800535	1	Decal, "Hydraulic Fluid Only"

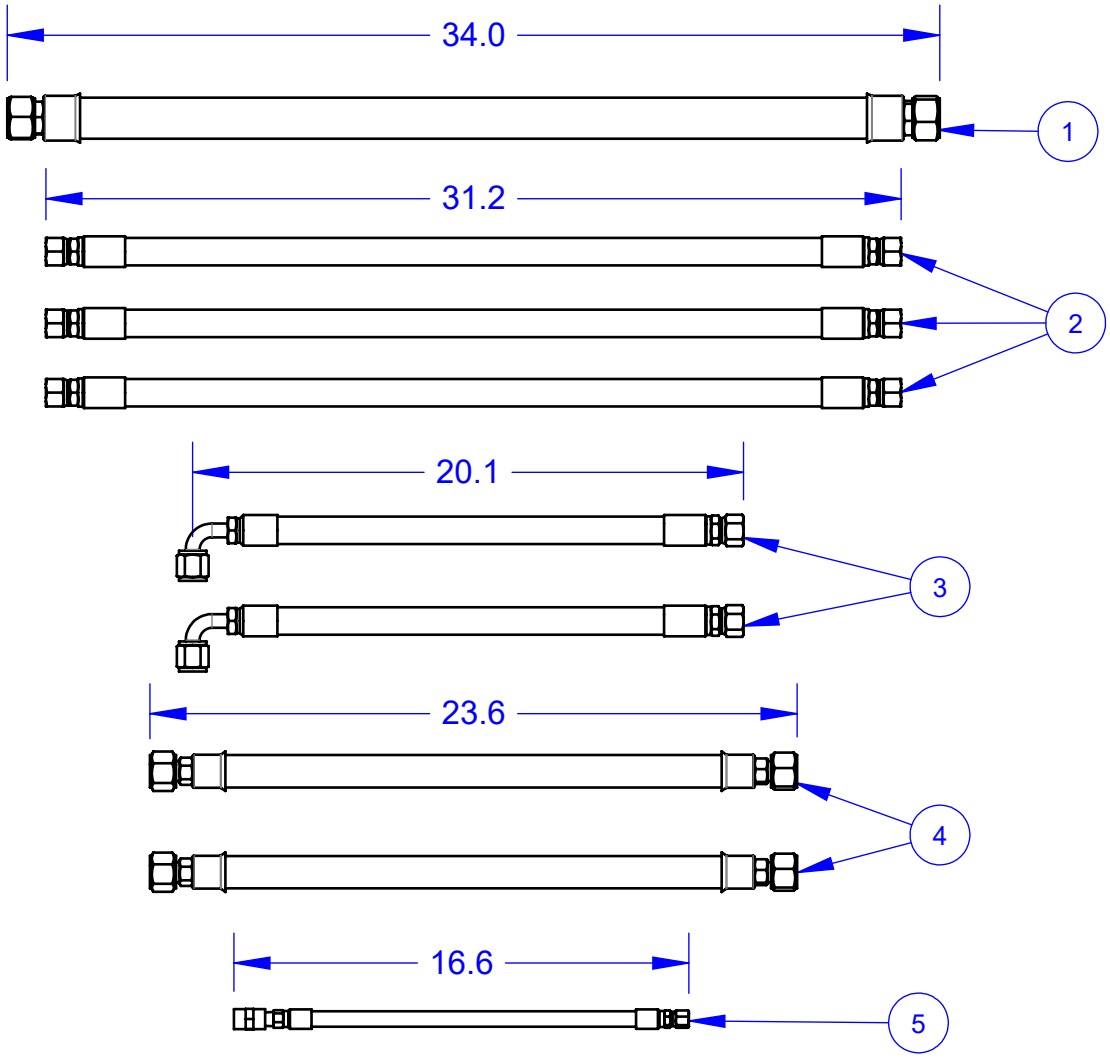
Panel Assembly, CP40BVXL, #4646256



Panel Assembly, CP40BVXL, #4646256

ITEM	PART NO.	QTY.	DESCRIPTION
1	4646254	1	Instrument Panel
2	2900022	8	Flat Washer, 5/16" SAE
3	2900031	6	Lock Washer, 5/16" Split
4	2900138	6	Cap Screw, Hex Hd., 5/16-18 x 1"
5	4645054	1	Manifold, SAE O-Ring, 5/8 & 3/4" Ports
6	4646101	1	Manifold, 3/4 NPT
7	2900009	20	Flat Washer, 1/4" SAE
8	2900667	4	Cap Screw, Hex Hd., 1/4-20 x 3"
9	2901001	4	Cap Screw, Hex Hd., 1/4-20 x 2-1/2"
10	2900010	10	Lock Nut, 1/4-20 Nylon
11	3200479	1	Plug, 3/4" NPT Square Head
12	3200097	1	Adapter, 3/4" M. JIC to 3/4" M. Pipe
13	3200417	1	Elbow, 3/4" F. JIC to 3/4" M. JIC
14	3200082	2	5/8" MJIC TO 3/4" MPT
15	3200626	1	Adapter, 5/8" O-Ring to 1/4" M. JIC
16	3201241	1	Elbow, 1/4" M. JIC to 1/4" F. JIC
17	3202077	4	5/8 MJIC - 3/4" MOR, 90 Deg.
18	3202079	1	5/8" O-Ring - 5/8" MJIC
19	3200330	1	Adapter, 3/4" M. Pipe to 3/4" O-Ring
20	3201899	1	Adapter, 1/2" MPT to 3/4" O-Ring
21	3200105	1	Nipple, 1/2" Q.D.
22	3200101	1	Nipple, 3/4" Quick Disconnect
23	3200137	1	Hex Nipple, 3/4" NPT
24	3200383	1	Nipple, Hex, 3/4" MPT TO 1/2" MPT
25	3200100	1	Coupler, 3/4" Quick Disconnect
26	3200104	1	Coupler, 1/2" Q.D.
27	2400307	1	Heat Exchanger
28	2900303	2	Lock Nut, M8-1.25 Nylon Insert
29	3200400	2	Elbow, 3/4" O-Ring to 3/4" Male JIC
30	3201972	1	Valve, Flow Control, 20 GPM
31	2900245	2	Cap Screw, Soc. Hd., 1/4-20 x 2-5/8"
32	3202413	1	Gauge, Hydraulic, 4000 PSI
33	2800893	1	E-Stop Switch, DPST
34	2801789	1	Tach/Hour Meter, W/#6 Screws
35	3201659	2	Fitting, 3/4" M. Pipe to 3/4" M. Garden
36	3200177	1	Fitting, 3/4" F. Garden Union Swivel
37	2500204	1	Plug, 1/2" Hole
38	2503749	1	Plug, 5/16" Hole (Tapered)
39	1800536	1	"Return" Decal
40	1802746	1	Decal, Control Panel
41	1802620	1	DP Oval Logo Decal

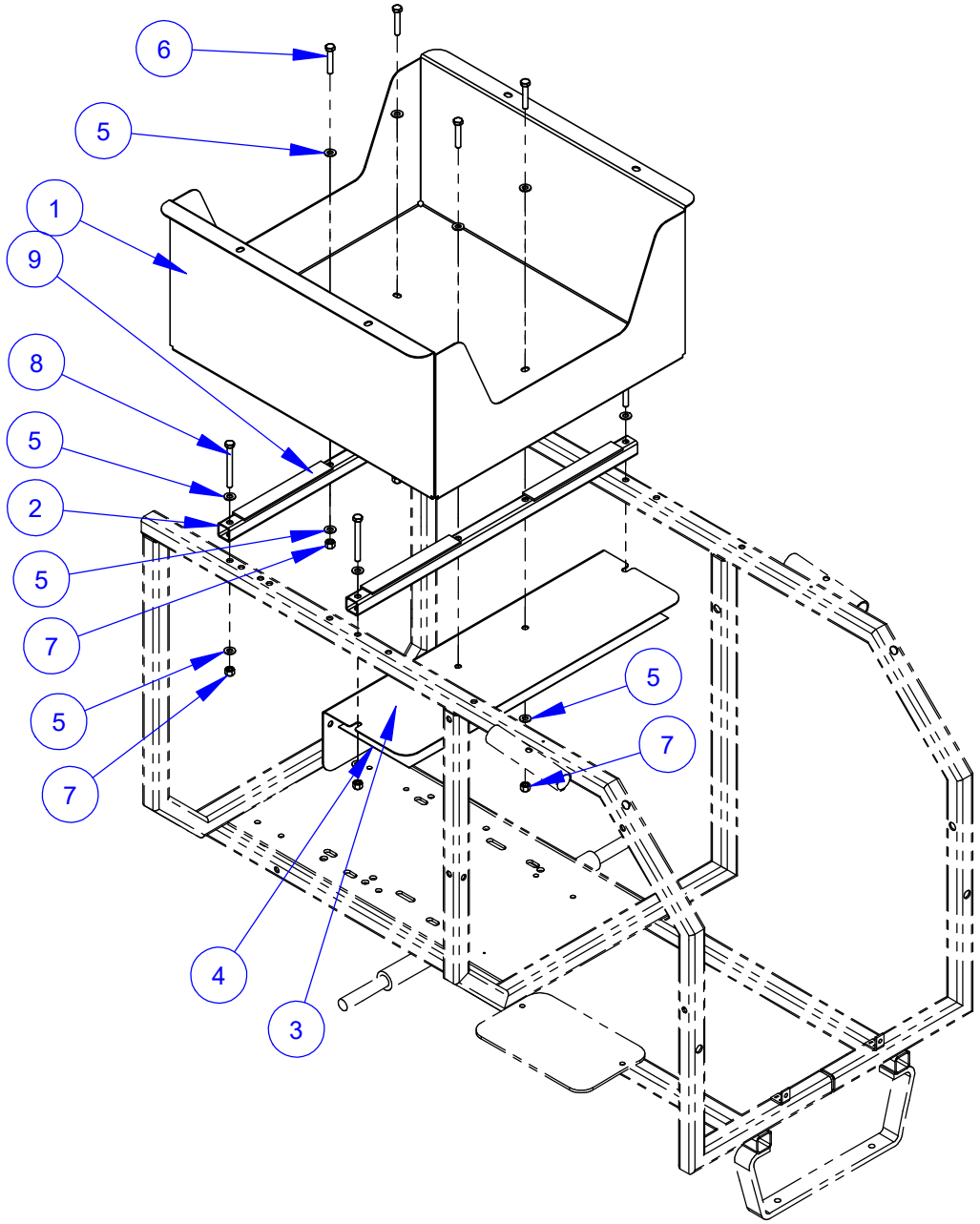
HOSE KIT, CP35, CP38 #4646209



ITEM	PART NO.	QTY.	DESCRIPTION
1	6040057	1	Hose Assy., 1 x 34"
	3202317	2	Fitting, 1" FJIC to 1" Hose Barb
	3205619	2	Crimp Shell, #16
2	4641067	3	Hose Assy., 5/8" x 31-1/4"
	3202075	2	5/8"FJICS x 5/8" Parkrimp Hose End Fitting
3	4646170	2	Hose Assy., 5/8" x 20"
	3201883	1	5/8" FJIC Parkrimp, 90 Deg.
	3202075	1	5/8"FJICS x 5/8" Parkrimp Hose End Fitting
4	4646086	2	Hose Assembly, 3/4" x 23.6"
	3201989	2	Fitting, 3/4" F.JIC to 3/4" Hose Barb
	3202708	2	Crimp Shell, #12
5	4646055	1	Hose Assembly, 1/4" x 16.6"
	3200128	1	Fitting, 1/4" F. JIC to 1/4" Hose Crimp
	3200145	1	1/4 MPT - 1/4 Hose Crimp
	3201110	1	Coupling, 1/4" NPT

Tool Tray Option, Gas Units #4400261

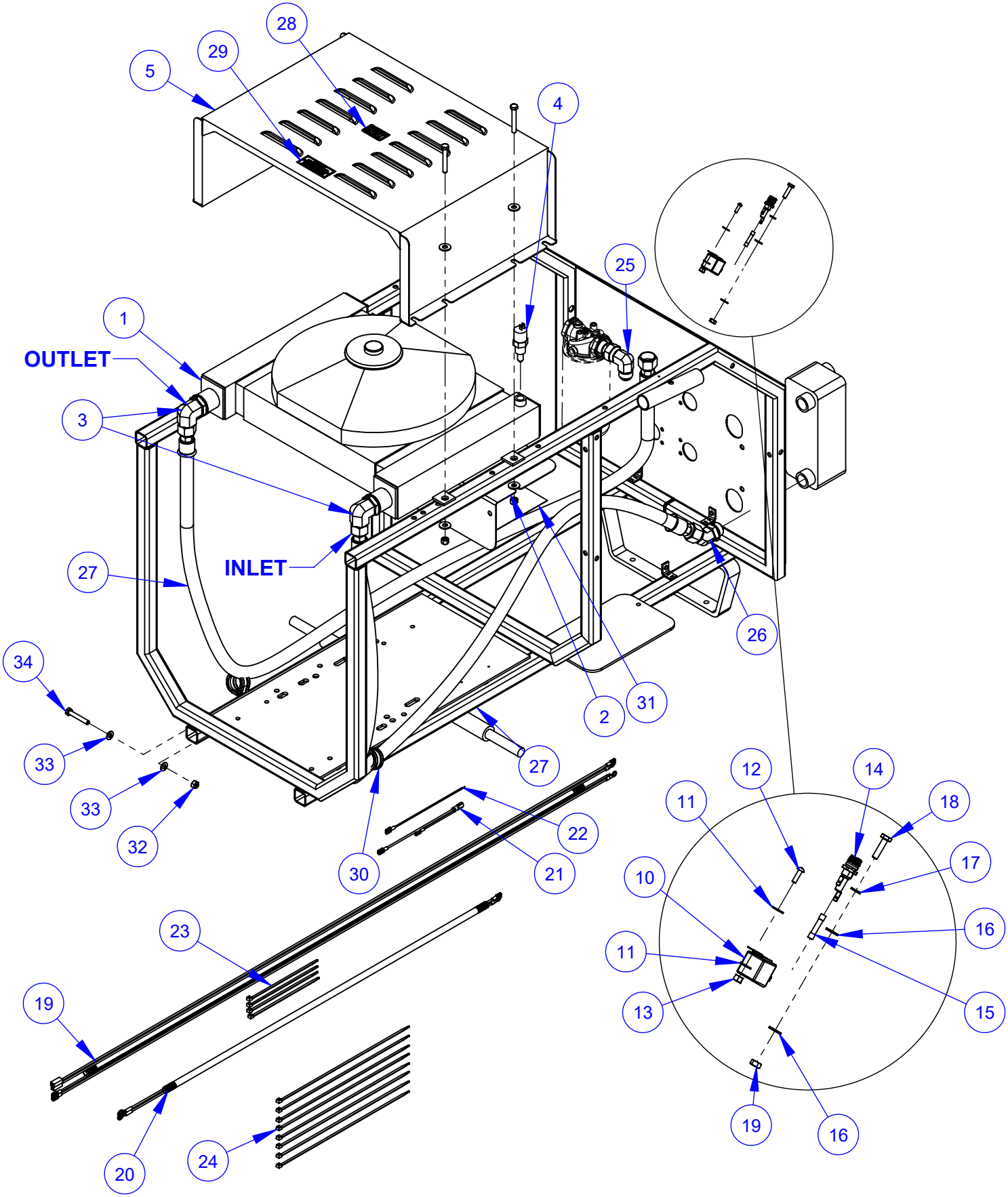
(Cannot be used on conjunction with optional air to oil cooler)



ITEM	PART NO.	QTY.	DESCRIPTION
1	4400207	1	Tool Tray
2	4600083	2	Tube, 1" Sq. x 23-3/4"
3	4641097	1	Heat Shield
4	4600167	1	Heat Shield Mat, 6x22"
5	2900022	16	Flat Washer, 5/16" SAE
6	2900538	4	Cap Screw, Hex Hd., 5/16-18 x 1-3/4"
7	2900039	8	Lock Nut, 5/16-18 Nylon
8	2900248	4	Cap Screw, Hex Hd., 5/16-18 x 3"
9	6048077	4	Rubber Strip

Air to Oil Cooler, CP40BVXL #4400307

(CANNOT BE USED IN CONJUNCTION WITH OPTIONAL TOOL TRAY #4400261)



Air to Oil Cooler, CP40BVXL #4400307

(CANNOT BE USED IN CONJUNCTION WITH OPTIONAL TOOL TRAY #4400261)

1) ATTACH WIRES TO RELAY BEFORE BOLTING TO PANEL.

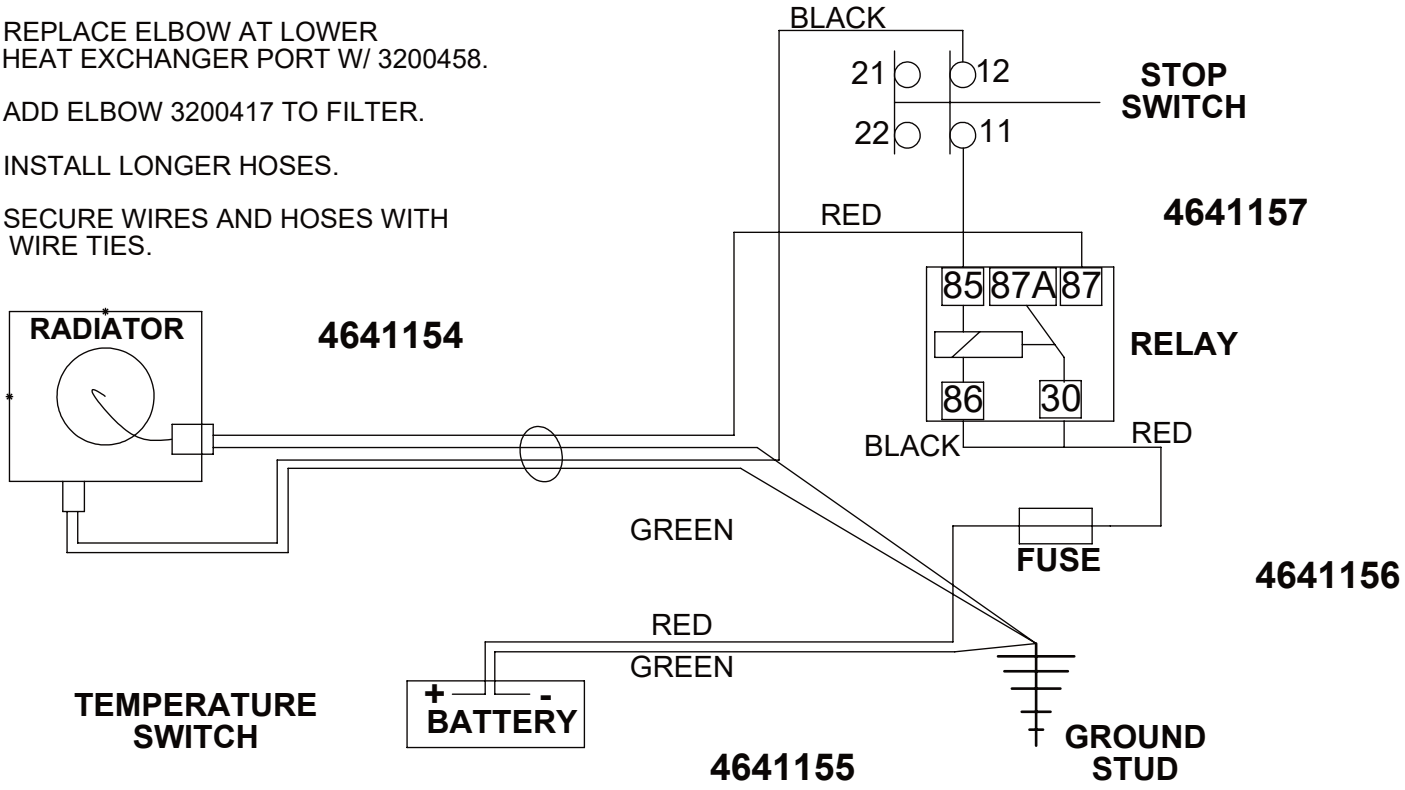
2) REMOVE ORIGINAL HOSE FROM HEAT EXCHANGER TO FILTER.

3) REPLACE ELBOW AT LOWER HEAT EXCHANGER PORT W/ 3200458.

4) ADD ELBOW 3200417 TO FILTER.

5) INSTALL LONGER HOSES.

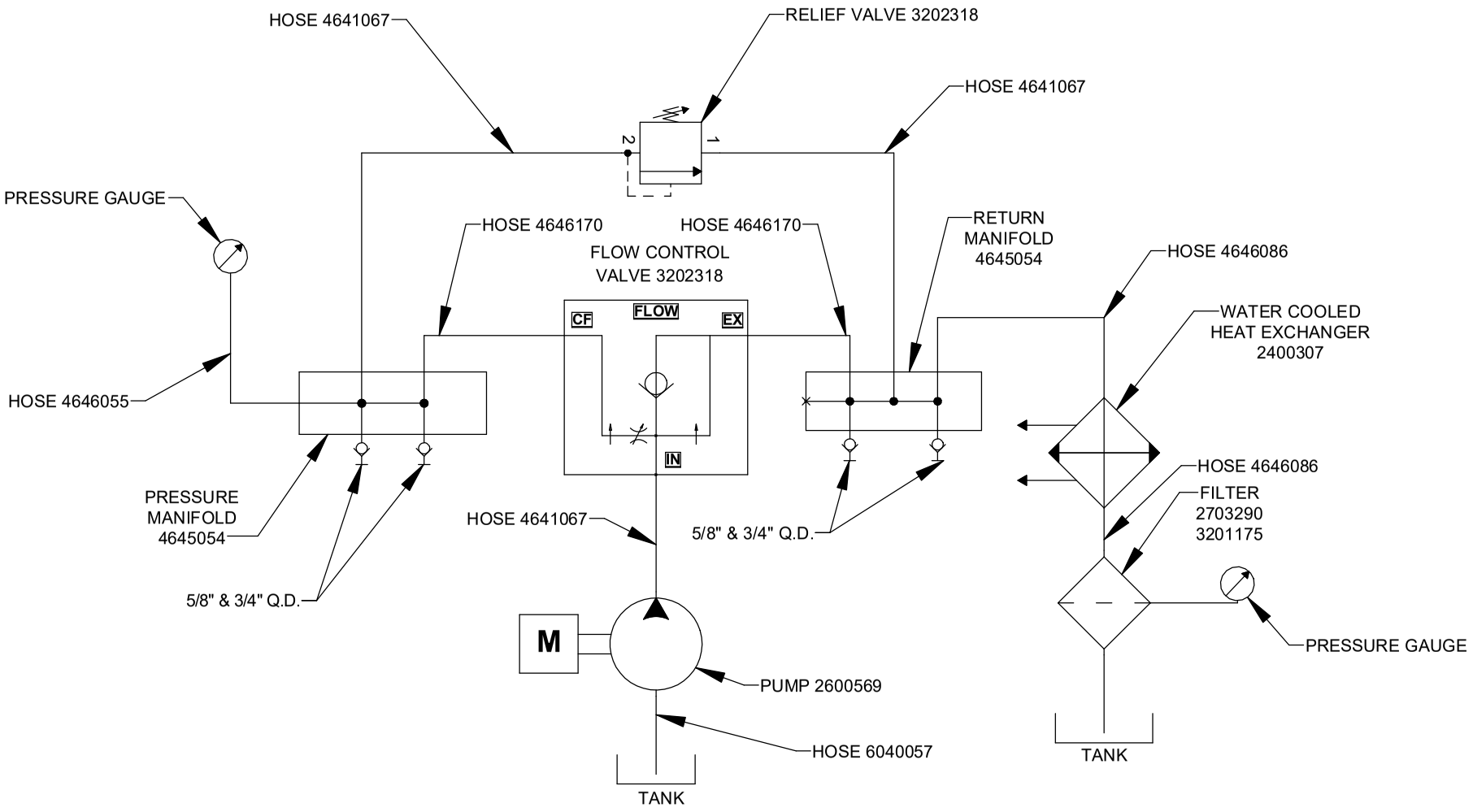
6) SECURE WIRES AND HOSES WITH WIRE TIES.



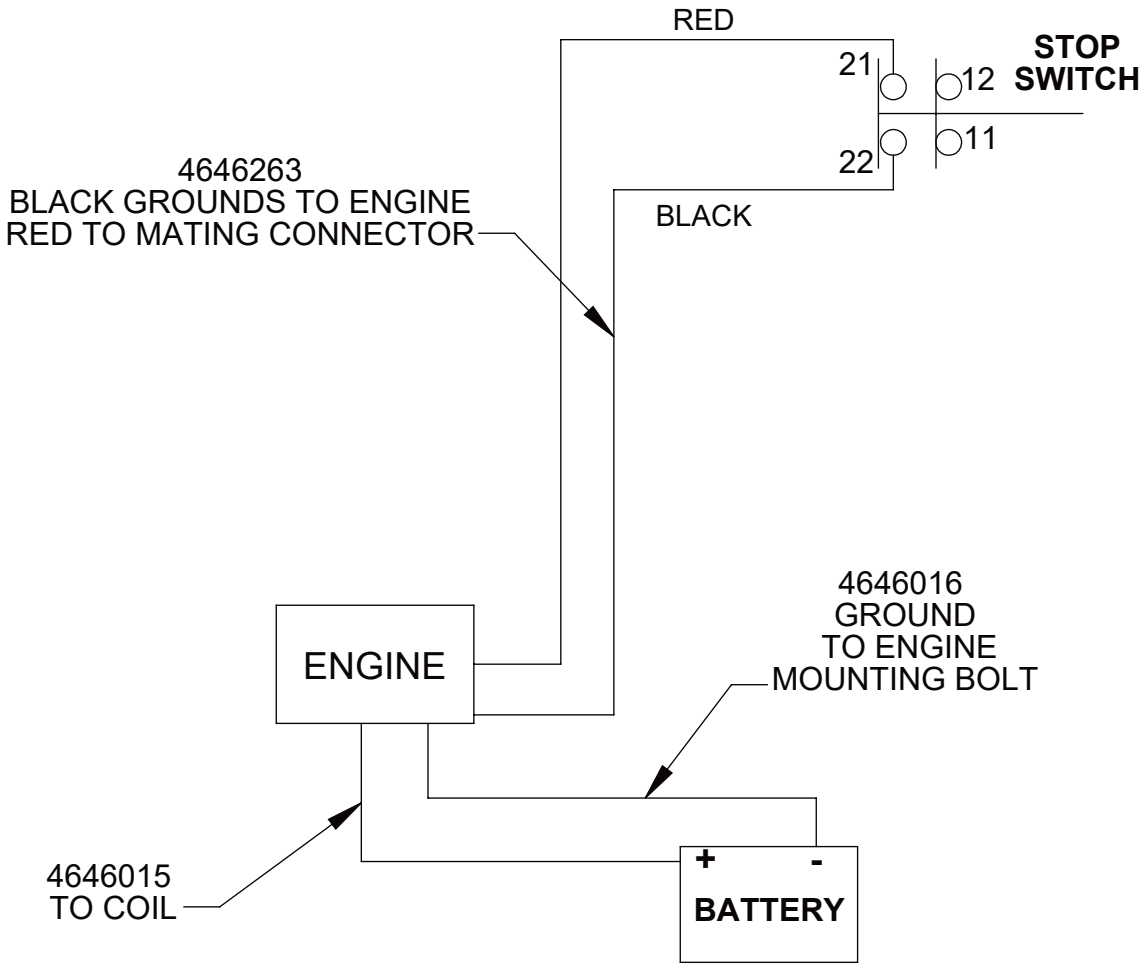
ITEM	PART NO.	QTY.	DESCRIPTION
1	2400308	1	Radiator, 12 Volt, 1" SAE Ports
2	4641097	1	Heat Shield
3	3200112	2	Elbow, 1" O-Ring to 3/4" M. JIC
4	2800875	1	Temperature Switch, 3/8 NPT
5	4641159	1	Radiator Guard
6	2900567	8	Flat Washer, 5/16" USS
7	2900289	4	Cap Screw, Hex Hd., 5/16-18 x 2-1/4"
8	2900039	4	Lock Nut, 5/16-18 Nylon
9	2800144	1	Relay, 50 Amp Mini
10	2900016	2	Flat Washer, #10 USS
11	2900159	1	Machine Screw, Rd. Hd., #10-24 x 5/8"
12	2900017	1	Lock Nut, #10-24 Nylon
13	2800481	1	Fuse Holder
14	2803014	1	Fuse, 15 Amp, Slo Blow
15	2900009	2	Flat Washer, 1/4" SAE
16	2900024	1	Lock Washer, 1/4" Split
17	2900008	1	Cap Screw, Hex Hd., 1/4-20 x 1"

ITEM	PART NO.	QTY.	DESCRIPTION
18	2900125	1	Hex Nut, 1/4-20
19	4641154	1	Wire Assy., 4 Wire
20	4641155	1	Wire Assy., Red & Grn, 14 Ga.
21	4641156	1	Wire Assy, Black & Red
22	4641157	1	Wire Assy., 20 Ga., Brn, 8-1/2"
23	2800068	4	Zip Tie, 7-1/2"
24	2800278	8	Zip Tie, 14"
25	3200417	1	Elbow, 3/4" F. JIC to 3/4" M. JIC
26	3200458	1	Elbow, 3/4" O-Ring to 3/4" M. JIC (45 deg)
27	4643016	2	Hose Assembly, 3/4" x 70"
28	1800537	1	Label, HOT
29	1801707	1	Decal, Caution, Fan
30	2504465	2	Hose Clamp, 1-1/4" x 3/4" Wide
31	4600167	1	Heat Shield Mat, 6x22"
32	2900039	1	5/16"-18 Nylock Hex Nut
33	2900022	2	Flat Washer, 5/16" SAE
34	2900494	1	Cap Screw, Hex Hd., 5/16-18 x 2"

CP40BVXL HYDRAULIC SCHEMATIC #4646270



CP40BVXL Electric Schematic #4646270



FOR EASE OF ASSEMBLY, ATTACH WIRES TO STOP SWITCH
BEFORE INSTALLING IN PANEL.

EQUIPMENT AND PARTS WARRANTY

Diamond Products warrants all equipment manufactured by it against defects in workmanship or materials for a period of one (1) year from the date of shipment to Customer.

The responsibility of Diamond Products under this Warranty is limited to replacement or repair of defective parts at Diamond Products' Elyria, Ohio factory, or at a point designated by it, of such parts as shall appear to us upon inspection at such parts, to have been defective in material or workmanship, with expense for transportation and labor borne by Customer.

In no event shall Diamond Products be liable for consequential or incidental damages arising out of the failure of any Product to operate properly.

Integral units such as engines, electric motors, batteries, transmissions, etc., are excluded from this Warranty and are subject to the prime manufacturer's warranty.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND ALL SUCH OTHER WARRANTIES ARE HEREBY DISCLAIMED.

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