

Power Pack
HP-60-A
Parts Manual

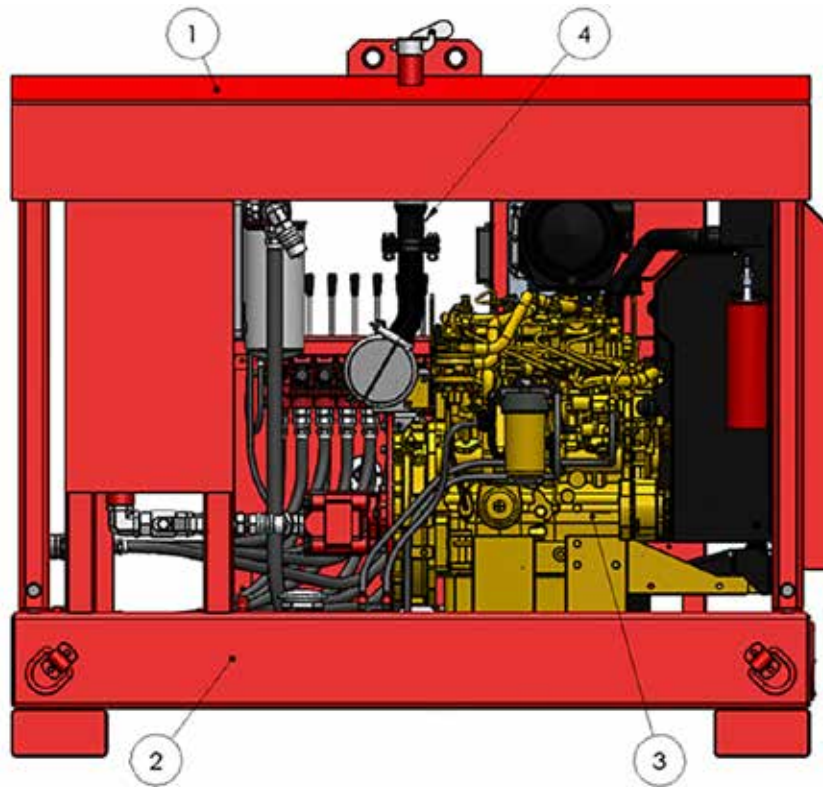
Parts Manual



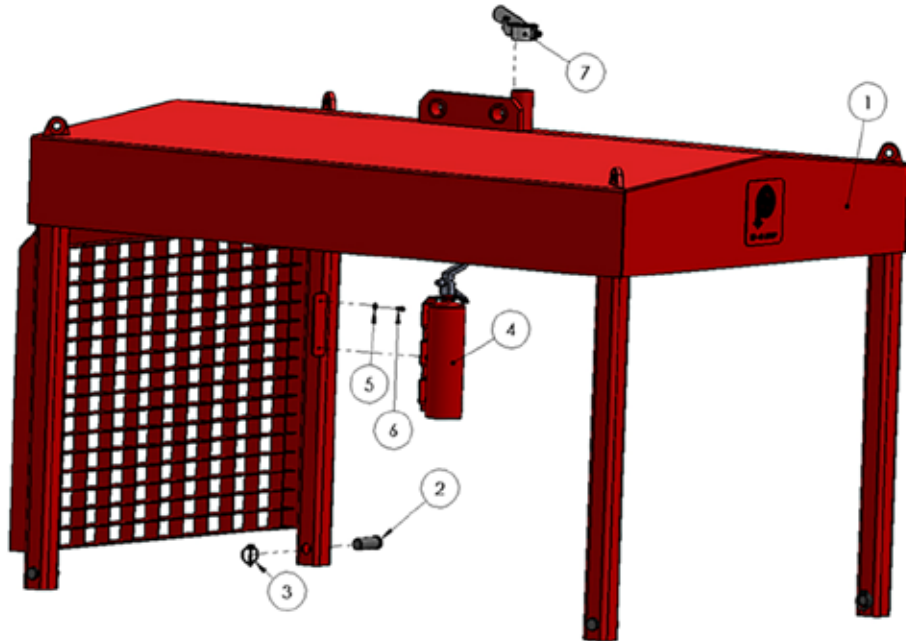


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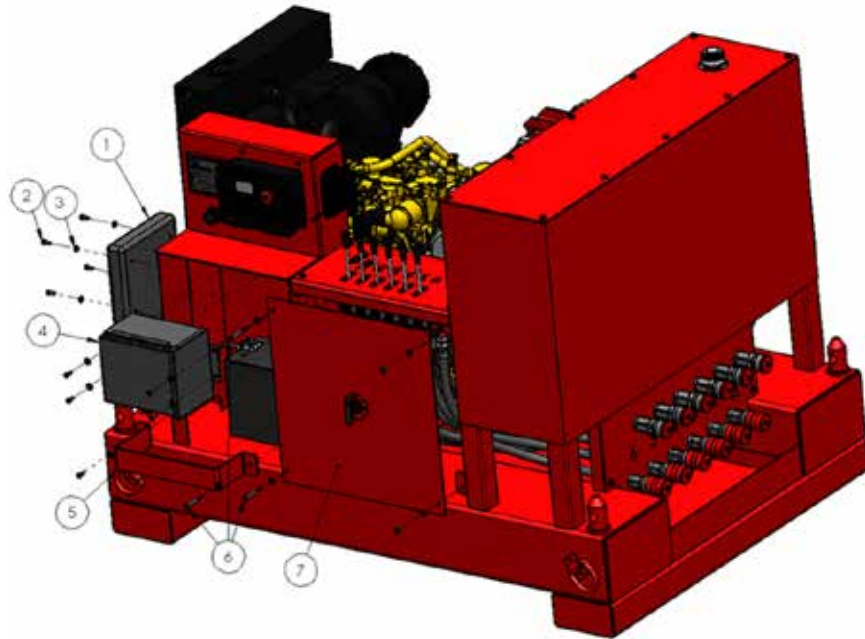
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MAIN ASSEMBLY


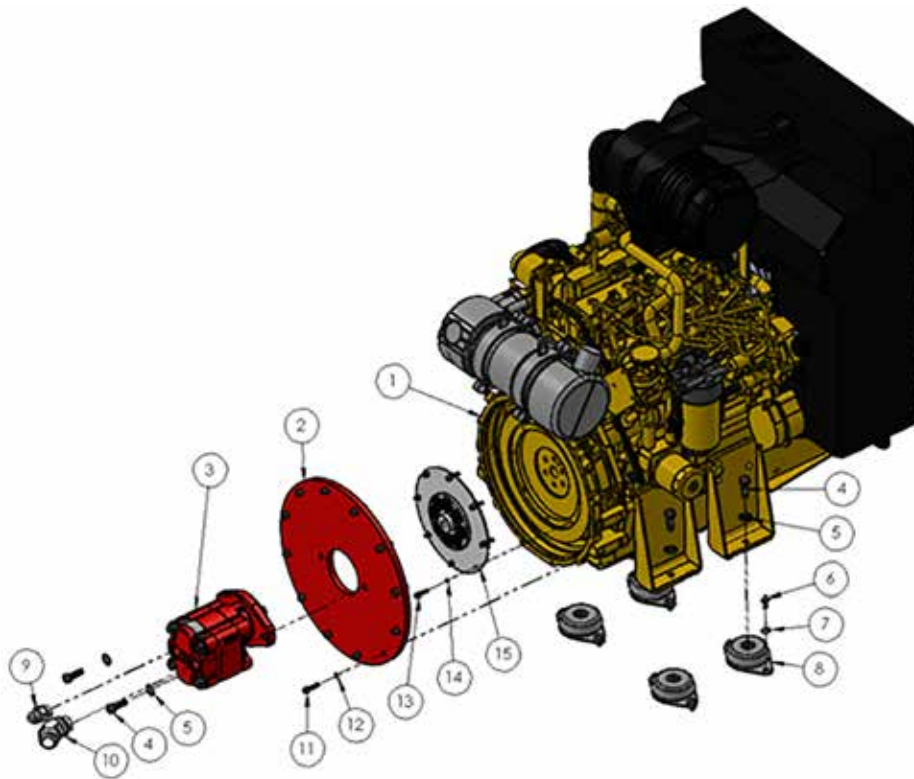
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100210	HP-60 ROOF ASSEMBLY	1
2	8100192	HP-60 BASE	1
3	8100352	CAT 2.2 ENGINE ASSEMBLY	1
4	8100354	EXHAUST ASSEMBLY	1

MAIN ASSEMBLY


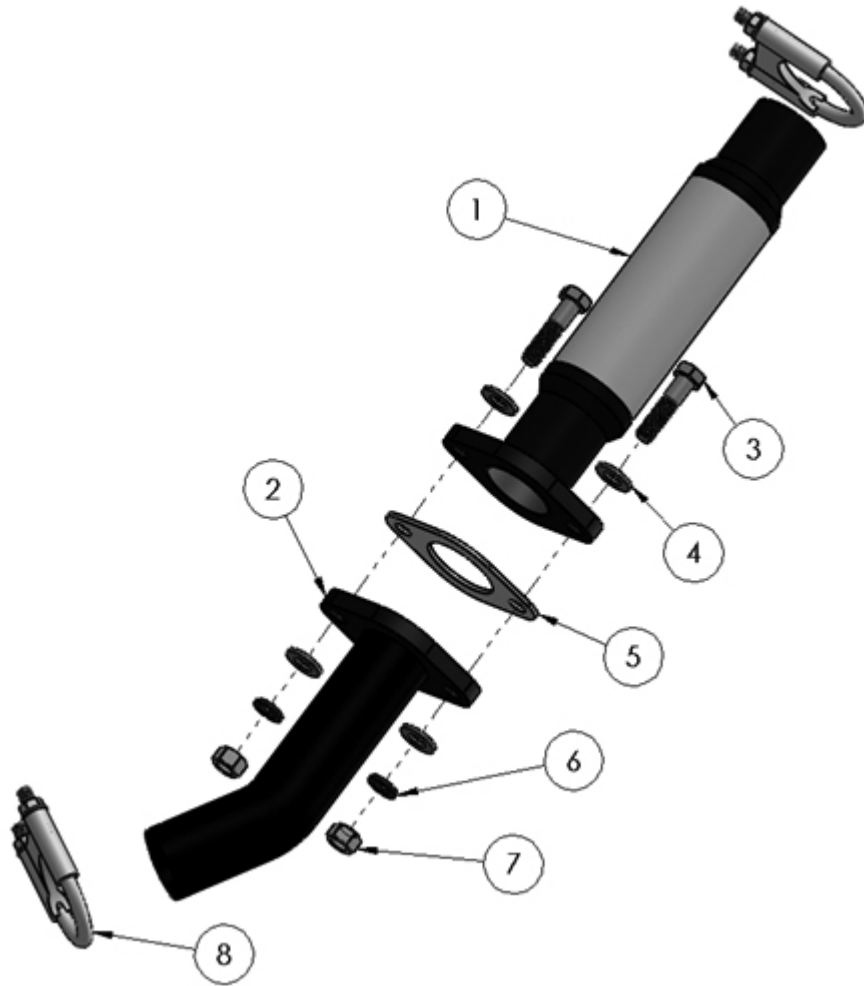
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100210	HP-60 ROOF ASSEMBLY	1
2	8100293	HP-60 LEG CLEVIS PIN	4
3	8100294	CLEVIS LINCH PIN	4
4	8100289	FIRE EXTINGUISHER, B,C CLASS 2.5 LB	1
5	8100316	¼" BELLEVILLE WASHER	2
6	8100096	BUTTON HEAD HEX SCREW ¼-20 X 5/8"	2
7	8100371	2" EXHAUST RAIN CAP	1

MAIN ASSEMBLY


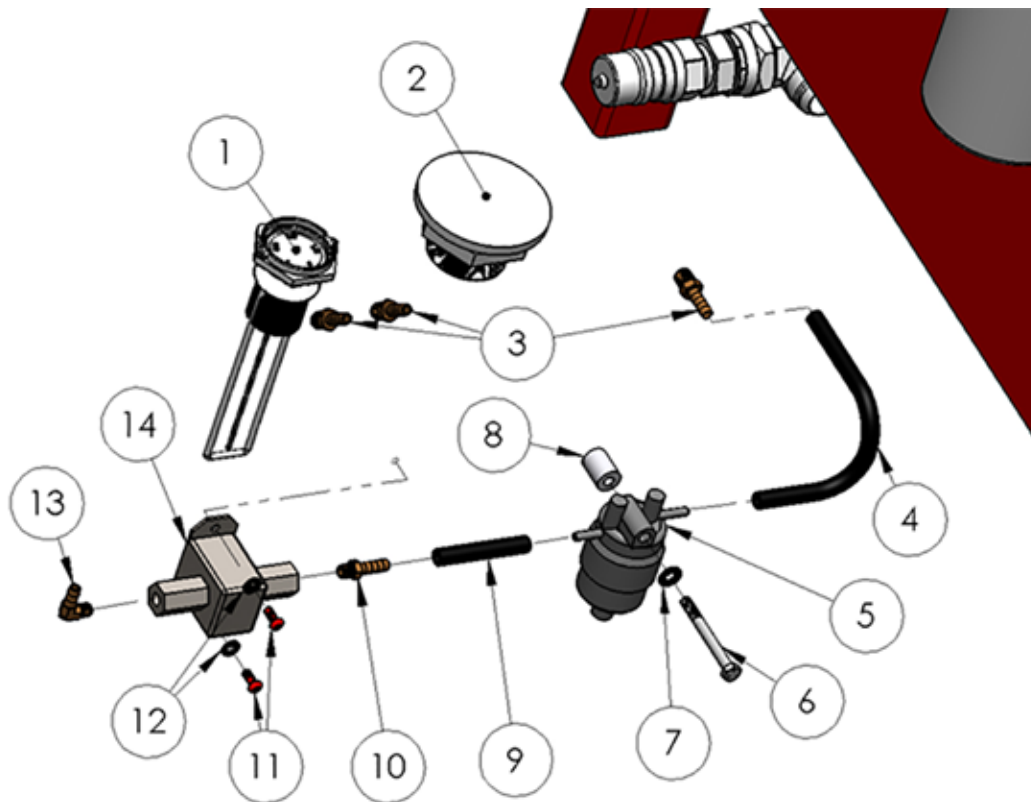
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100368	MANUAL-PAK	1
2	8100312	5/16" X 3/4" HEX BOLT	11
3	8100067	5/16" BELLEVILLE WASHERS	14
4	8100340	STORAGE BOX	1
5	8100208	MAIN BATTERY BRACKET	1
6	8100317	5/16-18" X 2.75" HEX BOLT	3
7	8100221	HOSE COVER PANEL	1

CAT 2.2 ENGINE ASSEMBLY


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8000843	CAT 2.2 ENGINE	1
2	8000941	C2.2 HAYES COUPLER	1
3	8000819	PARKER 31P GEAR PUMP	1
4	8100313	1/2-13 X 1.5" HEX BOLT	6
5	8100367	1/2" BELLEVILLE LOCK WASHER	6
6	8100314	3/8-16 X 3/4" HEX BOLT	8
7	8100315	3/8" BELLEVILLE WASHER	8
8	8000952	VIBRATION MOUNT VSCM-1	4
9	203124	3/4" JIC MALE TO 3/4" SAE MALE	1
10	8100303	45° ELBOW - 16 SAE M TO 20 JIC M	1
11	8001263	3/8-16 X 1.25" SHCS	12
12	8001268	3/8 HC SPLIT LOCKWASHER	12
13	8001269	5/16 HC SPLIT LOCKWASHER	8
14	8100232	5/16-18 X 1 SHCS	8
15	N/A (PART OF #2)	HAYES COUPLER INTERMEDIATE PLATE	1

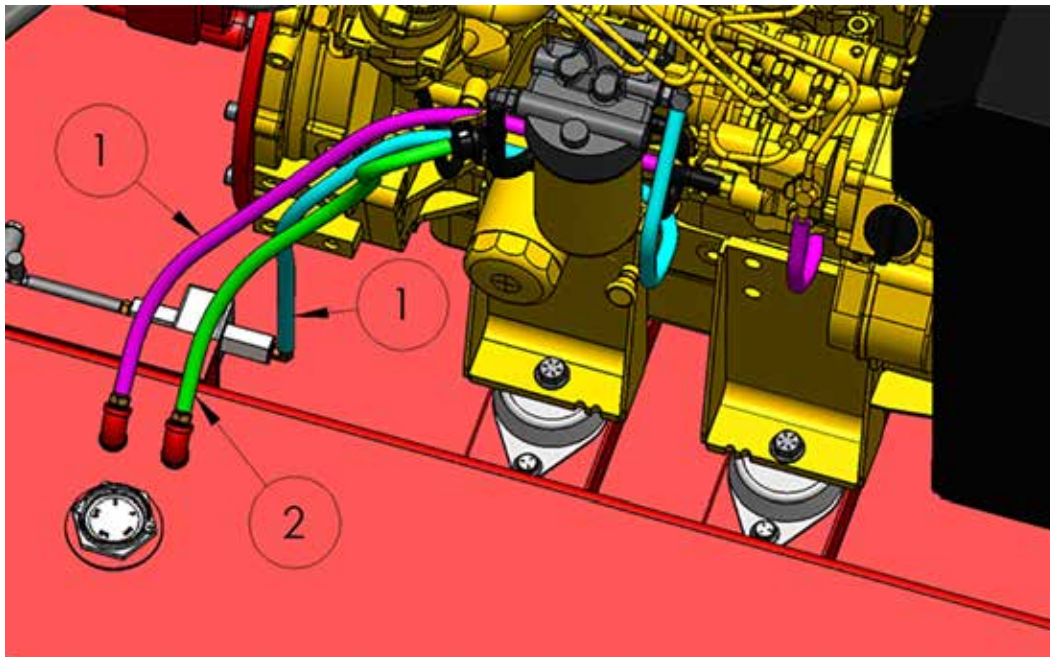
EXHAUST ASSEMBLY


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100133	EXHAUST UPPER SUBASSEMBLY	1
2	8100132	LOWER EXHAUST SUBASSEMBLY	1
3	8100336	½-13 X 2" HEX BOLT	2
4	8100167	½" FLAT WASHER	4
5	8100126	HP-60 EXHAUST GASKET	1
6	1133895	½" SPLIT LOCKWASHER	2
7	8100168	½-13 HEX NUT	2
8	8100128	2" EXHAUST CLAMP	2

FUEL SYSTEM


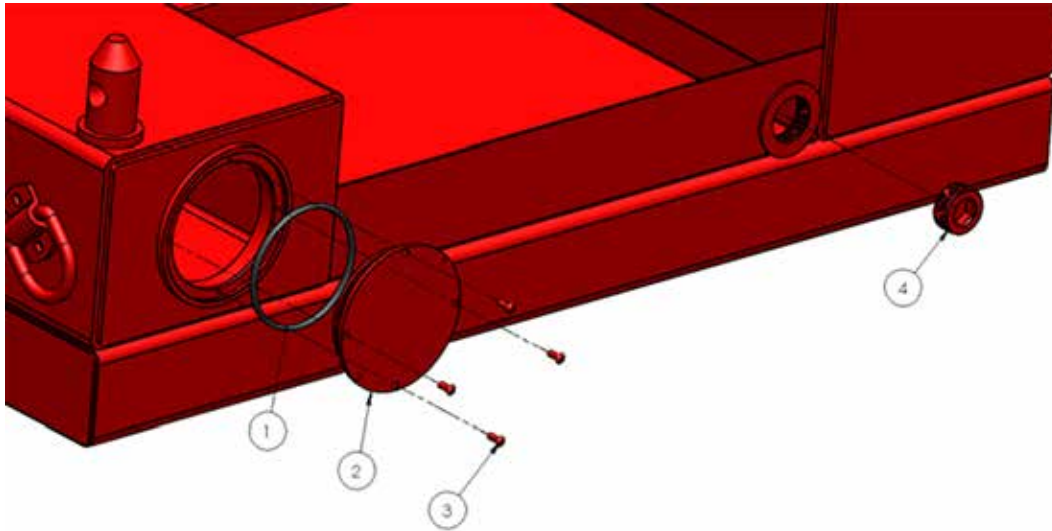
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100072	FUEL GAUGE, 8" LONG	1
2	8100295	FUEL FILLER VENT CAP ASSEMBLY, 2" NPT	1
3	8100062	1/4" NPTF X 5/16 HOSE BARB	3
4	8100139	FUEL SUPPLY LINE - 5/16" X 10" LONG	1
5	N/A	CAT 2.2 PRIMARY FUEL FILTER	1
6	8100347	5/16-18" X 3.25" HEX BOLT	1
7	8100067	5/16" BELLVILLE LOCK WASHER	1
8	8100318	FUEL SEPARATOR SPACER	1
9	8100138	FUEL LINE - 5/16" X 3" LONG	1
10	8100060	1/8" NPTF X 5/16" HOSE BARB	1
11	8100096	BUTTON HEAD HEX SCREW - 1/4"-20 X 5/8"	2
12	8100316	1/4" BELLEVILLE LOCK WASHER	2
13	8100061	1/8" NPTF X 5/16 90° HOSE BARB	1
14	N/A	CAT 2.2 FUEL PUMP	1

FUEL SYSTEM ADDITIONAL FUEL LINES



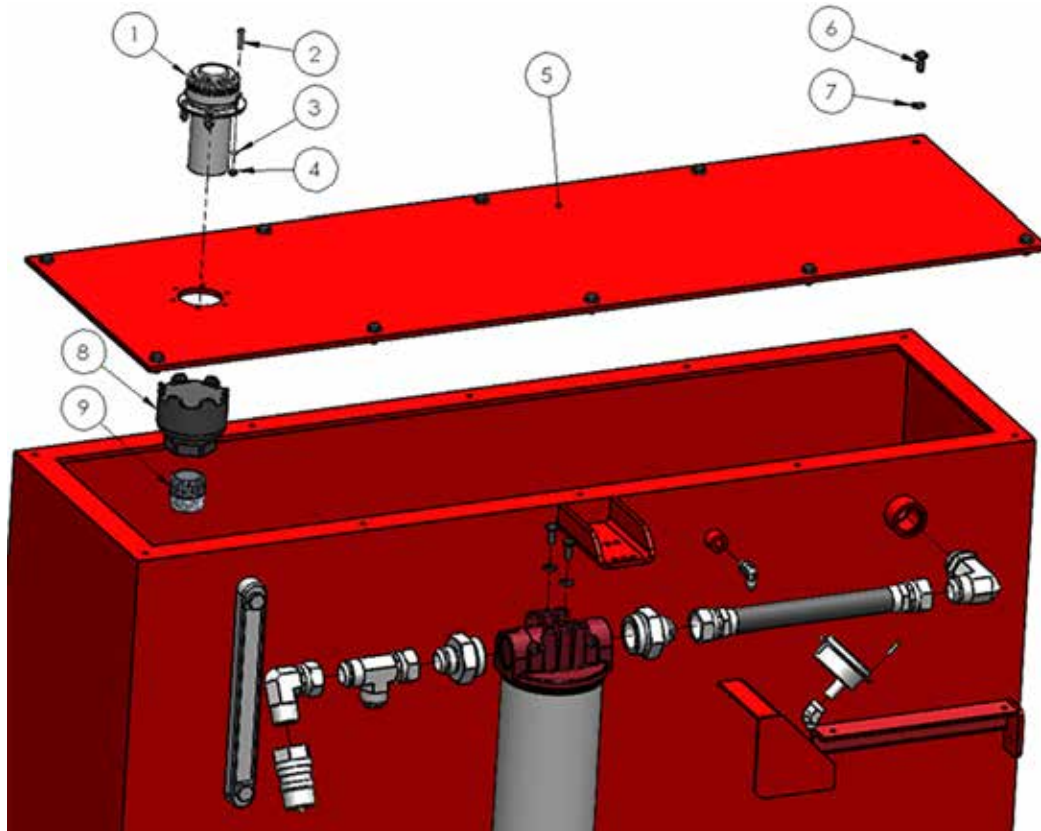
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100140	FUEL SUPPLY 3/ RETURN LINE 1 (38")	2
2	8100141	FUEL RETURN LINE 2 (20")	1

FUEL TANK CLEANOUT



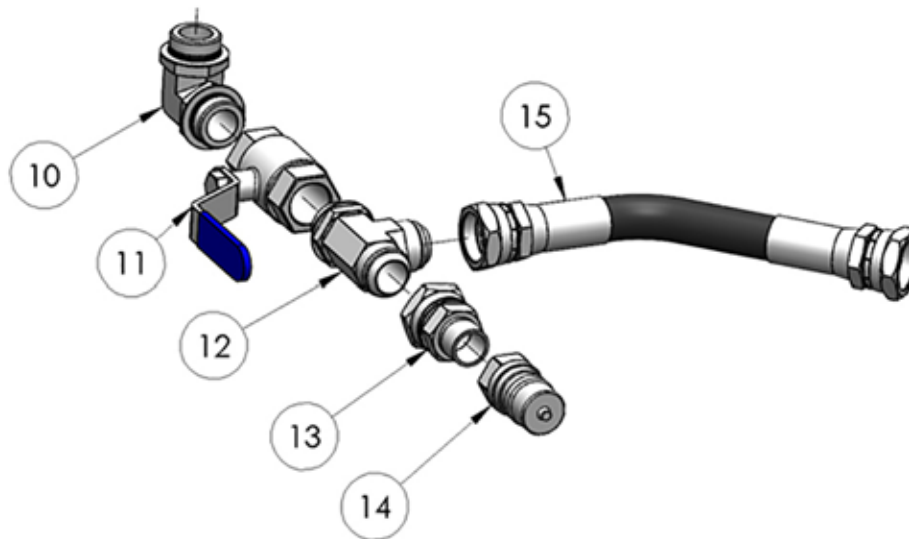
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100064	351 O-RING	1
2	8100033	CLEANOUT COVER	1
3	8100096	1/4-20 X 5/8" BUTTON HEAD CAP SCREW	4
4	8100338	DRAIN PLUG - 1.5" NPT	1

HYDRAULIC TANK FITTINGS



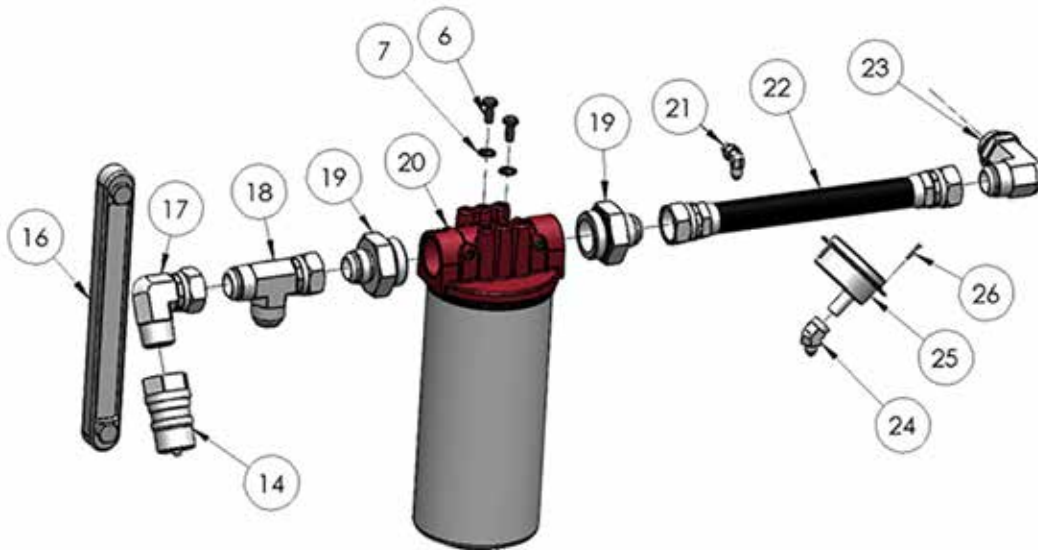
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100310	FILLER PORT F HYDRAULIC TANK	1
2	8100387	10-24 X 7/8" SHCS STAINLESS STEEL	6
3	8100389	#10 WASHER, STAINLESS STEEL	6
4	8100388	10-24 LOCKNUT, STAINLESS STEEL	6
5	8100209	HYDRAULIC TANK LID	1
6	8100312	5/16" X 3/4" HEX BOLT	12
7	8100067	5/16" BELLEVILLE WASHERS	12
8	8100077	IN-TANK HYDRAULIC STRAINER	1
9	8100123	NIPPLE - 1-1/4" MALE NPT	1

HYDRAULIC TANK FITTINGS



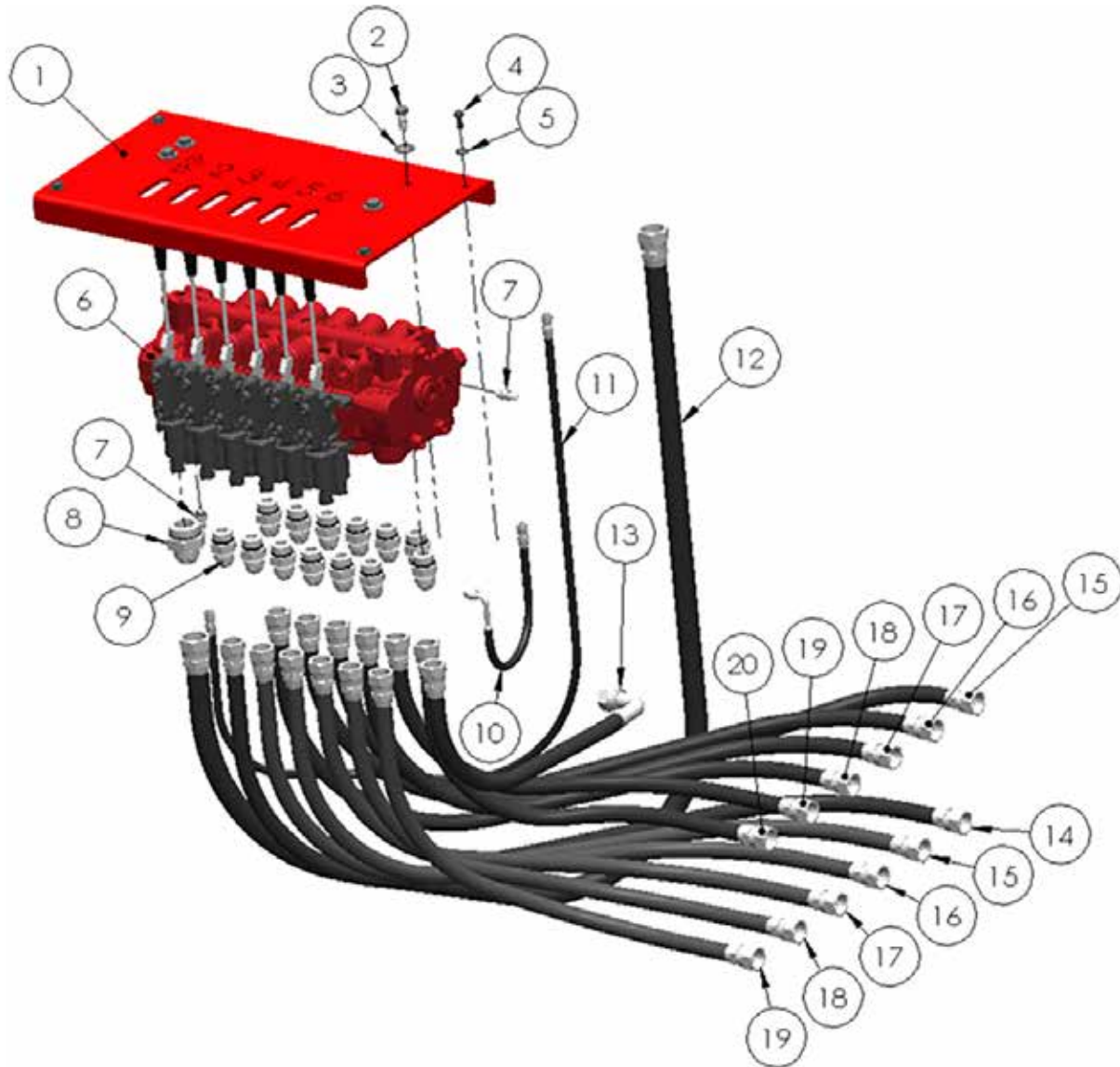
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
10	8100301	20 SAE M X 20 SAE M 90°	1
11	8100079	20 SAE BALL VALVE	1
12	8100302	RUN TEE - 20 SAE M X 20 JIC M X 20 JIC M	1
13	8100349	ADAPTER - 20 JIC F TO 16 NPT M	1
14	8100322	ISO B QUICK DISCONNECT, MALE 1" X 1" NPT F	2
15	8100386	SUCTION HOSE, 1-1/4" JIC F, 15" LONG	1

HYDRAULIC TANK FITTINGS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
16	8100309	SIGHTGLASS F HYDRAULIC TANK - 10"	1
17	8100328	90° ELBOW, 16 NPT M X 16 JIC F SWIVEL	1
18	8100304	RUN TEE - 16 JIC F SWIVEL X 16 JIC M X 16 JIC M	1
19	8100115	20 SAE M by 16 JIC M	2
20	8100047	HYDAC MF180 FILTER	1
21	8100307	4 SAE M TO 4 JIC M SHORT 90°	1
22	8100332	HYD HOSE - 1" X 12.5"	1
23	8100306	16 SAE M TO 16 JIC M LONG 90°	1
24	8100308	45° ELBOW - 4 NPT F X 4 SAE M	1
25	8100090	PRESSURE GAUGE, 5KSI WOMAK 233.55	1
26	8100229	6-32 X 3/4 FLAT HEAD SCREW	3
N/A	8100372	DUST COVER FOR QD #8100322	2

**DIRECTIONAL CONTROL VALVE & HOSES
4 & 6 BANK UNIT**



DIRECTIONAL CONTROL VALVE & HOSES

4 BANK UNIT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100207	DCV MOUNTING PLATE - FOUR BANK	1
2	8100068	7/16-20 X 1" HEX BOLT	4
3	8100069	7/16" BELLEVILLE WASHERS	4
4	8100312	5/16" X 3/4" HEX BOLT	4
5	8100067	5/16" BELLEVILLE WASHERS	4
6	8000946	HYDAC DX6 DCV 4 BANK	1
7	55123	4 SAE M TO 4 JIC M	2
8	8100115	20 SAE M BY 16 JIC M	1
9	203124	3/4" JIC MALE TO 3/4" ORB MALE	9
10	8100334	HYD HOSE - 1/4" X 16" W/ SHORT 90° (GAUGE)	1
11	8100333	HYD HOSE - 1/4" X 54" (PILOT DRAIN)	1
12	8100331	HYD HOSE - 1" X 72" (DCV OUTLET)	1
13	8100325	HYD HOSE - 3/4" X 26" W/ MED 90° (DCV INLET)	1
14	8100329	HYD HOSE - 3/4" X 50", 1B	1
15	8100102	HYD HOSE - 3/4" X 46", 1A & 2B	2
16	8100327	HYD HOSE - 3/4" X 40", 2A & 3B	2
17	8100106	HYD HOSE - 3/4" X 36", 3A & 4B	2
18	8100105	HYD HOSE - 3/4" X 32", 4A	1

DIRECTIONAL CONTROL VALVE & HOSES

6 BANK UNIT

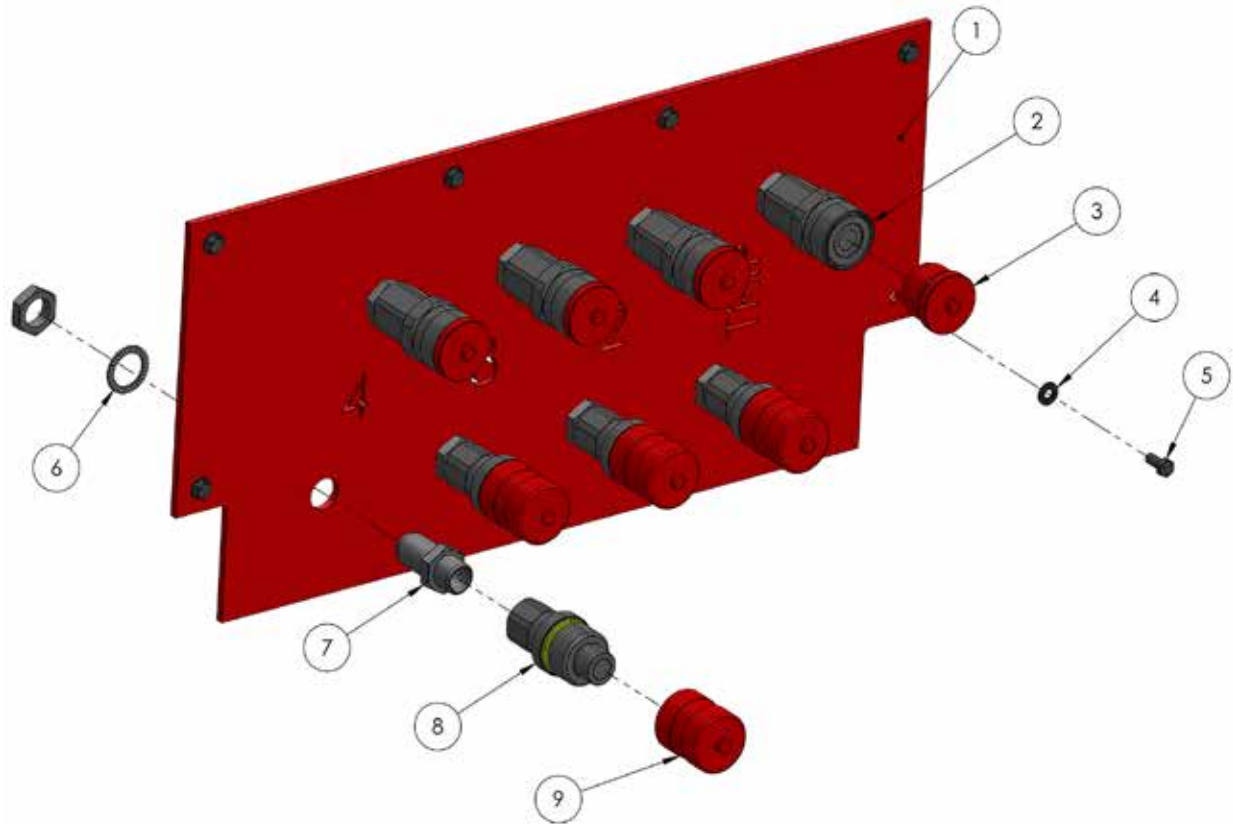
Refer to the image on page 14

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100206	DCV MOUNTING PLATE - SIX BANK	1
2	8100068	7/16-20 X 1" HEX BOLT	4
3	8100069	7/16" BELLEVILLE WASHERS	4
4	8100312	5/16" X 3/4" HEX BOLT	4
5	8100067	5/16" BELLEVILLE WASHERS	4
6	8100154	HYDAC DX6 DCV 6 BANK	1
7	55123	4 SAE M TO 4 JIC M	2
8	8100115	20 SAE M BY 16 JIC M	1
9	203124	12 SAE M TO 12 JIC M	13
10	8100334	HYD HOSE - 1/4" X 16" W/ SHORT 90° (GAUGE)	1
11	8100333	HYD HOSE - 1/4" X 54" (PILOT DRAIN)	1
12	8100331	HYD HOSE - 1" X 72" (DCV OUTLET)	1
13	8100325	HYD HOSE - 3/4" X 26" W/ MED 90° (DCV INLET)	1
14	8100330	HYD HOSE - 3/4" X 54", 1B	1
15	8100329	HYD HOSE - 3/4" X 50", 1A & 2B	2
16	8100102	HYD HOSE - 3/4" X 46", 2A & 3B	2
17	8100327	HYD HOSE - 3/4" X 40", 3A & 4B	2
18	8100106	HYD HOSE - 3/4" X 36", 4A & 5B	2
19	8100105	HYD HOSE - 3/4" X 32", 5A & 6B	2
20	8100326	HYD HOSE - 3/4" X 28", 6A	1

All hydraulic hoses are available to order
as a kit, including hoses from
"Hydraulic Components" section:

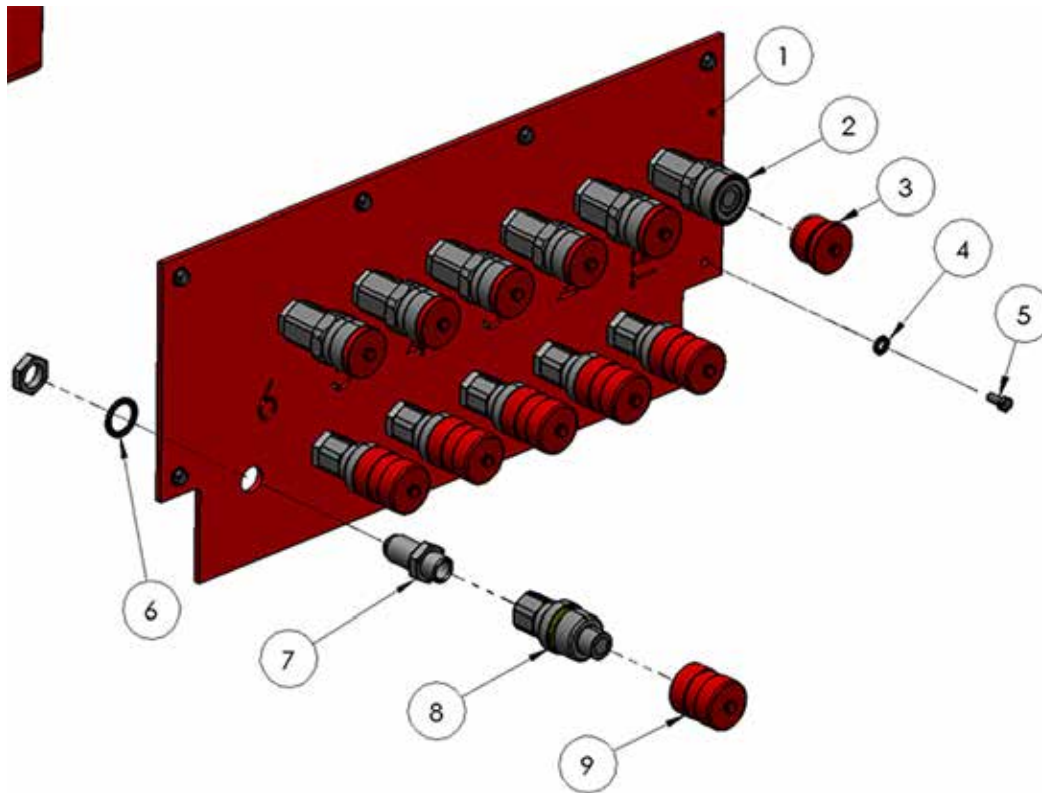
PART NUMBER	DESCRIPTION
8100361	HP-60 HOSE KIT - 4 BANK
8100362	HP-60 HOSE KIT - 6 BANK

QUICK DISCONNECT MANIFOLD 4 BANK UNIT



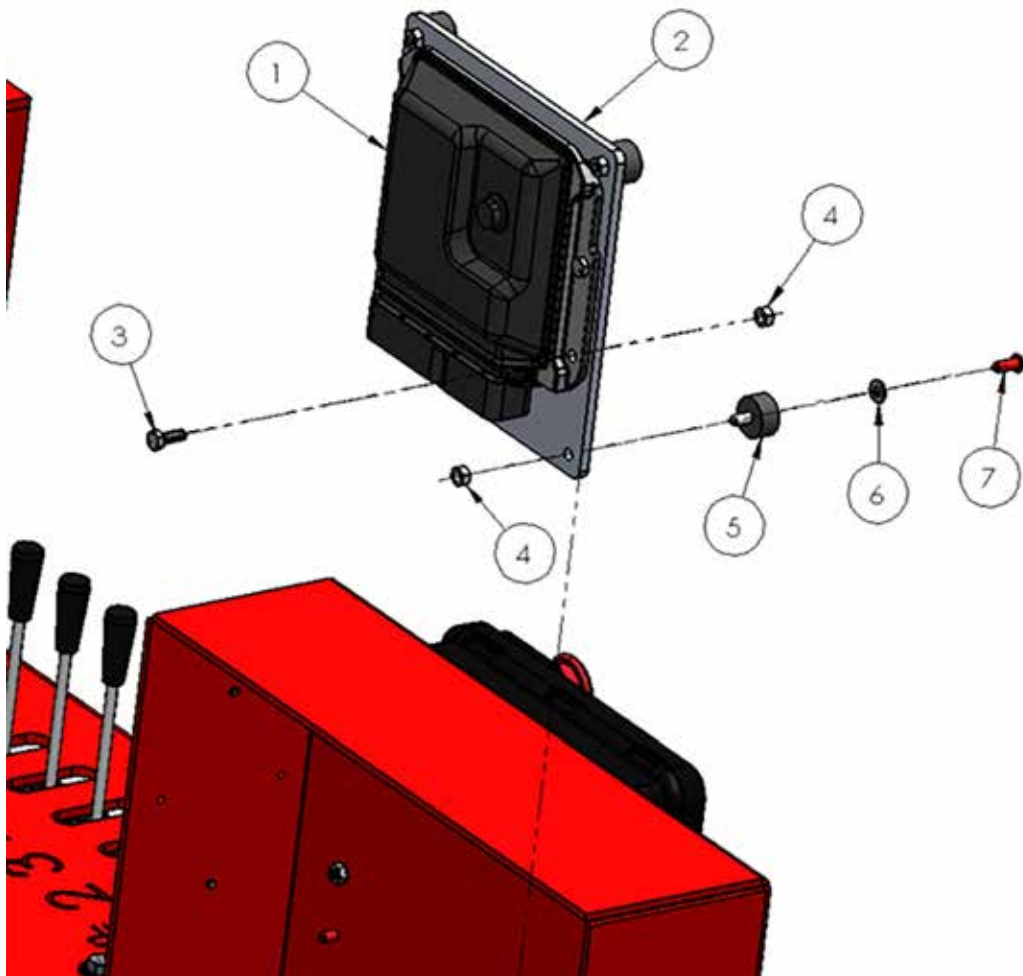
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100170	QD MANIFOLD - FOUR BANKS	1
2	8100296	QUICK DISCONNECT FEMALE, STUCCHI VEP15P, 3/4 NPT	4
3	8100298	DUST CAP, STUCCHI VEP15R FOR FEMALE	4
4	8100312	5/16" X 3/4" HEX BOLT	6
5	8100067	5/16" BELLEVILLE WASHERS	6
6	8100311	27MM SCHNORR WASHER MCMaster #90895A224	8
7	8100038	BULKHEAD FITTINGS - 3/4 JIC M X 3/4 NPT M	8
8	8100297	QUICK DISCONNECT MALE, STUCCHI VEP15P, 3/4 NPT	4
9	8100299	DUST CAP, STUCCHI VEP15R FOR MALE	4

QUICK DISCONNECT MANIFOLD 6 BANK UNIT



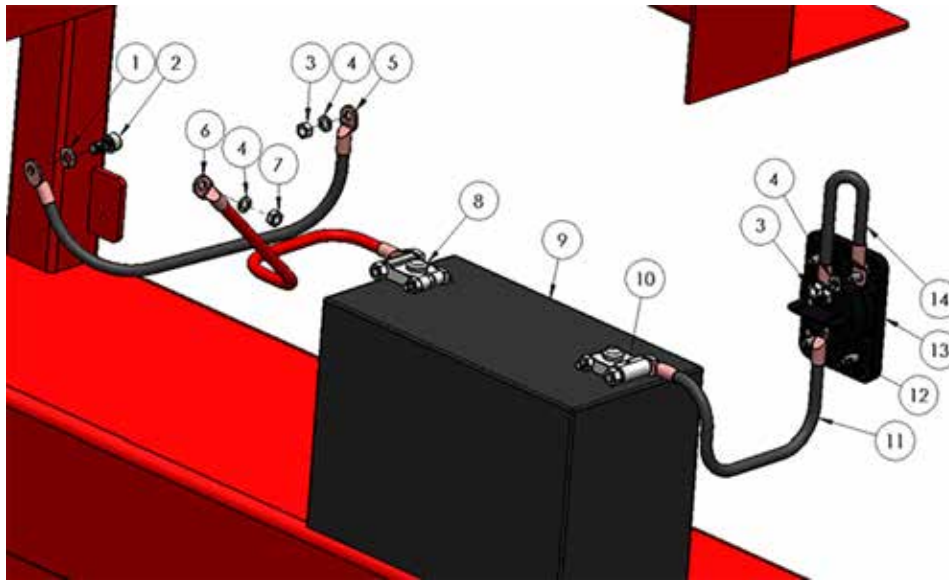
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100171	QD MANIFOLD - SIX BANKS	1
2	8100296	QUICK DISCONNECT FEMALE, STUCCHI VEP15P, 3/4 NPT	6
3	8100298	DUST CAP, STUCCHI VEP15R FOR FEMALE	6
4	8100312	5/16" X 3/4" HEX BOLT	6
5	8100067	5/16" BELLEVILLE WASHERS	6
6	8100311	27MM SCHNORR WASHER MCMaster #90895A224	12
7	8100038	BULKHEAD FITTINGS - 3/4 JIC M X 3/4 NPT M	12
8	8100297	QUICK DISCONNECT MALE, STUCCHI VEP15P, 3/4 NPT	6
9	8100299	DUST CAP, STUCCHI VEP15R FOR MALE	6

ENGINE CONTROL MODULE MOUNTING



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	N/A	CAT 2.2 ECM	1
2	8100222	ECM MOUNTING PLATE	1
3	8100406	1/4-20 X 3/4" SS HEX BOLT	4
4	8001054	1/4-20 HEX NUT	8
5	8100135	VIBRATION MOUNT	4
6	8100316	1/4" BELLEVILLE WASHER	4
7	8100096	1/4-20 X 5/8" BUTTON HEAD CAP SCREW	4

MAIN ELECTRICAL WIRES



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	207116	10MM SLW	1
2	221612	10MM - 1.5 X 20MM SHCS	1
3	910-HN-31-18	5/16-18 HEX NUT	2
4	8001049	5/16" SLW	3
5	8100344	MAIN ENGINE GROUND WIRE	1
6	8100343	STARTER POSITIVE WIRE	1
7	8100094	M8 X 1.25MM HEX NUT	1
8	8100160	POSITIVE BATTERY TERMINAL	1
9	8100070	31P BATTERY	1
10	8100161	NEGATIVE BATTERY TERMINAL	1
11	8100346	HP-60 BATTERY TO DISCONNECT WIRE	1
12	8100337	5/16-18 X 1" BUTTON HEAD CAP SCREW	4
13	8100044	MAIN BATTERY DISCONNECT	1
14	8100345	DISCONNECT TO BODY GROUND WIRE	1

RECEIVER AND DIAGNOSTIC PORT



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	8100339	12-24 X 1/2" SHCS	2
2	8100390	#12 HIGH COLLAR LOCKWASHER	2
3	8100383	HP60 RECEIVER WIRING HARNESS F/ REMOTE START & 4 VALVES	1
4	8100283	POWER PACK NAMEPLATE	1
5	8100335	M6 X 12MM BUTTON HEAD SCREW	4
6	8100385	DEUTSCH PANEL NUT LOCKWASHER	1
7	8100384	DEUTSCH PANEL NUT - 1.5-18 UNEF	1
8	8100416	CAT DIAGNOSTIC PORT CAP	1

SPARE PARTS KIT

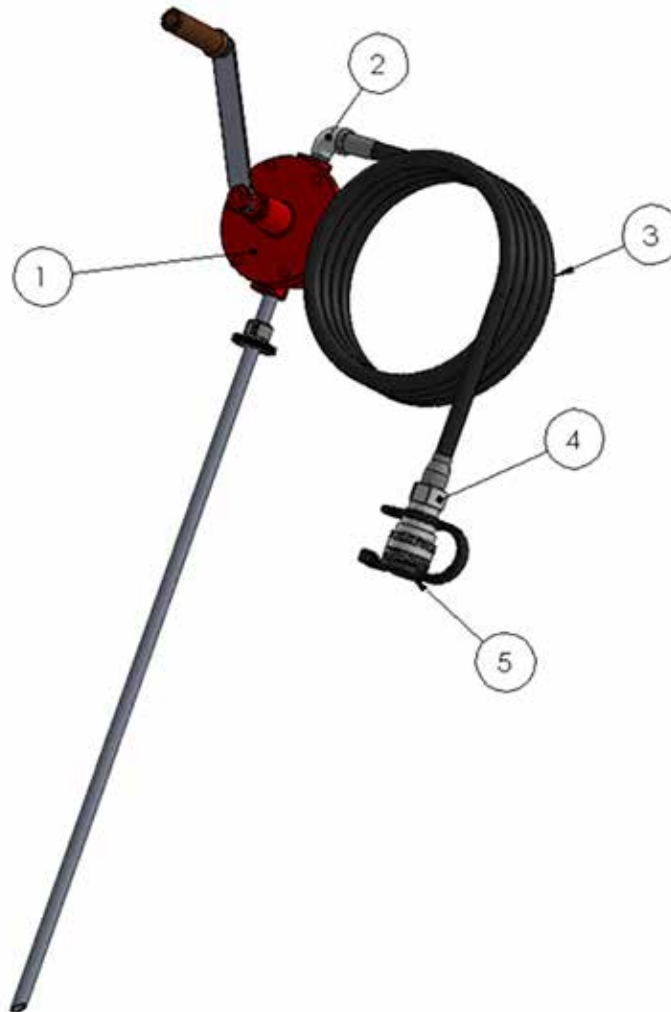

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100393	5A Mini ATM Fuse	1
2	8100394	10A Mini ATM Fuse	1
3	8100395	20A Mini ATM Fuse	1
4	8100396	40A Mini ATM Fuse	1
5	8100397	20A ATO Fuse	1
6	8100398	25A ATO Fuse	1
7	8100399	60A Maxi Fuse	1
8	8100064	351 O-RING	1
9	N/A	AA Batteries	2
10	90862	6MM Hex Key	1



150' HOSE BUNDLE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100298	DUST CAP, STUCCHI VEP15R FOR FEMALE	1
2	8100299	DUST CAP, STUCCHI VEP15R FOR MALE	1
3	8100296	QUICK DISCONNECT FEMALE, STUCCHI VEP15P, 3/4 NPT	1
4	8100297	QUICK DISCONNECT MALE, STUCCHI VEP15P, 3/4 NPT	1
5	8100144	NIPPLE - 3/4" MALE JIC (#12) X 3/4" MALE NPT	2
6	8100076	3/4" HYDRAULIC HOSE, 3KSI, 50' LONG W/ 3/4" JIC F	6
7	8100075	3/4" JIC MALE UNION	4
8	8100080	3/4" JIC PLUG	2

**MANUAL HYDRAULIC TRANSFER PUMP
ASSEMBLY**


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8100401	HYDRAULIC TRANSFER HAND PUMP	1
2	8100402	3/4" STREET EL	1
3	8100403	3/4" HOSE, 3/4" NPT X 1" NPT, 6' LONG, LOW PRESSURE	1
4	8100323	ISO B QUICK DISCONNECT, FEMALE	1
5	8100404	DUST CAP FOR FEMALE ISO B 8100323	1