

PARTS CATALOG – PR SERIES

PR0030 (HIGH PROFILE)
SERIAL # 400 000 & UP

PR0035 (LOW PROFILE)
SERIAL # 300 000 TO 300 179 AND 500 000 & UP

PR0040 (RUNNING BOARD)
SERIAL # 600 000 & UP



TABLE OF CONTENTS

PR SERIES RAIL APU

Mounting/Engine/Engine Mount (PR0030 High Profile)	1
Mounting/Engine/Engine Mount (PR0035 Low Profile)	2
Mounting/Enclosure/Engine/Engine Mount (PR0040 Running Board)	3

FUEL SYSTEM

Injector/Fuel Filter/Solenoid/Pick-Up	4
---	---

COOLANT SYSTEM (APU ENGINE)

Water Pump/Thermostat/Heat Exchanger	5
--	---

LOCOMOTIVE WATER HEATING SYSTEM

Water Pump/Heat ExchangerImmersion Heater	6
---	---

OIL/LUBRICATION SYSTEM (APU ENGINE)

Reservoir Tanks/Filter Head/Filter	7
--	---

LOCOMOTIVE OIL HEATING SYSTEM

Pump/Immersion Tank/Heater	10
----------------------------------	----

EXHAUST SYSTEM

Muffler/Header Pipes	11
----------------------------	----

AIR INTAKE SYSTEM

Filter/Hoses	12
--------------------	----

GENERATOR 240V AC	13
-------------------------	----

ELECTRICAL SYSTEM

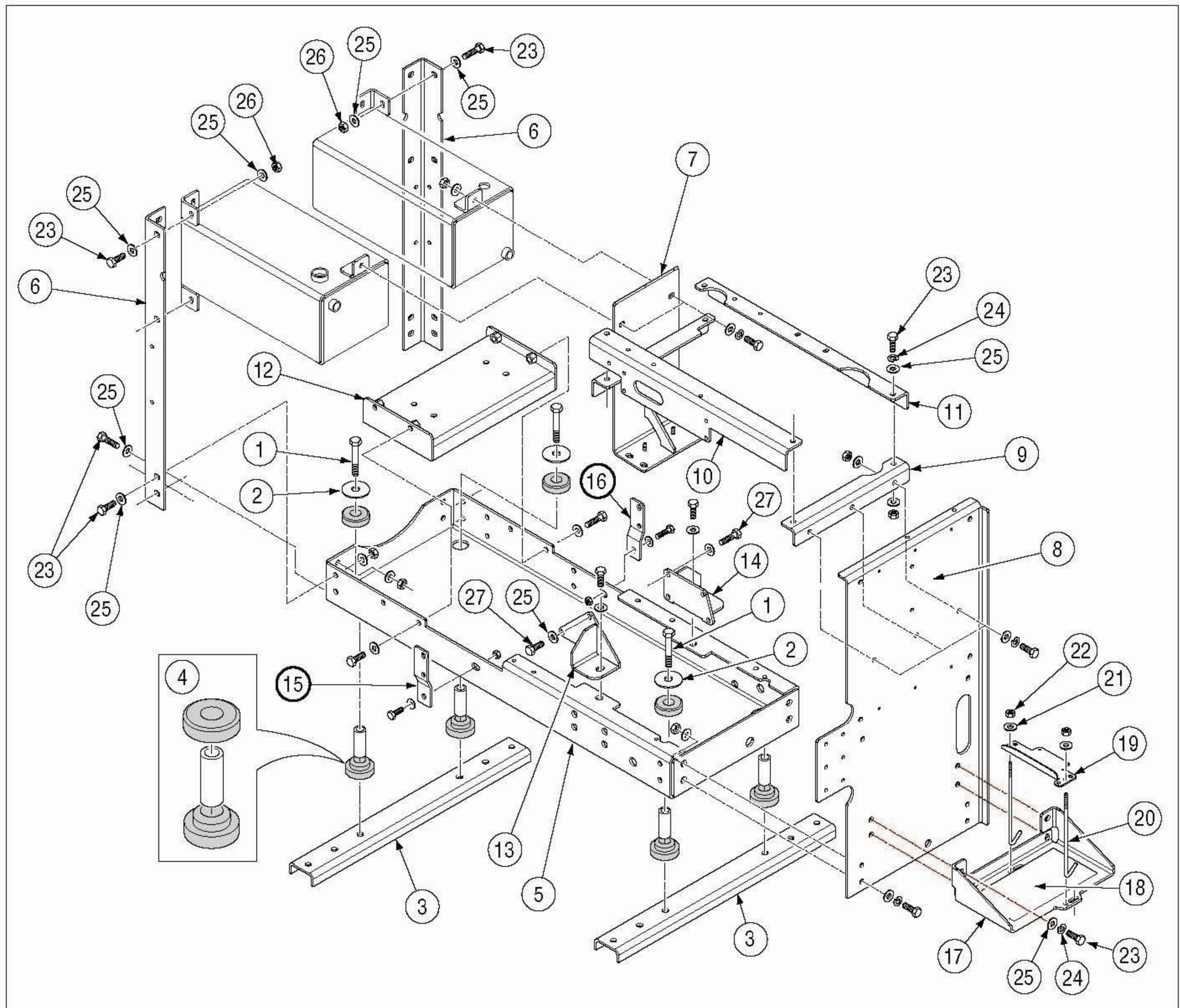
Battery	14
PR Series Controller	15
APU/Control Harness Interface	16

BATTERY CHARGER	17
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OPTIONAL EQUIPMENT	18
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NUMERIC PARTS INDEX	20
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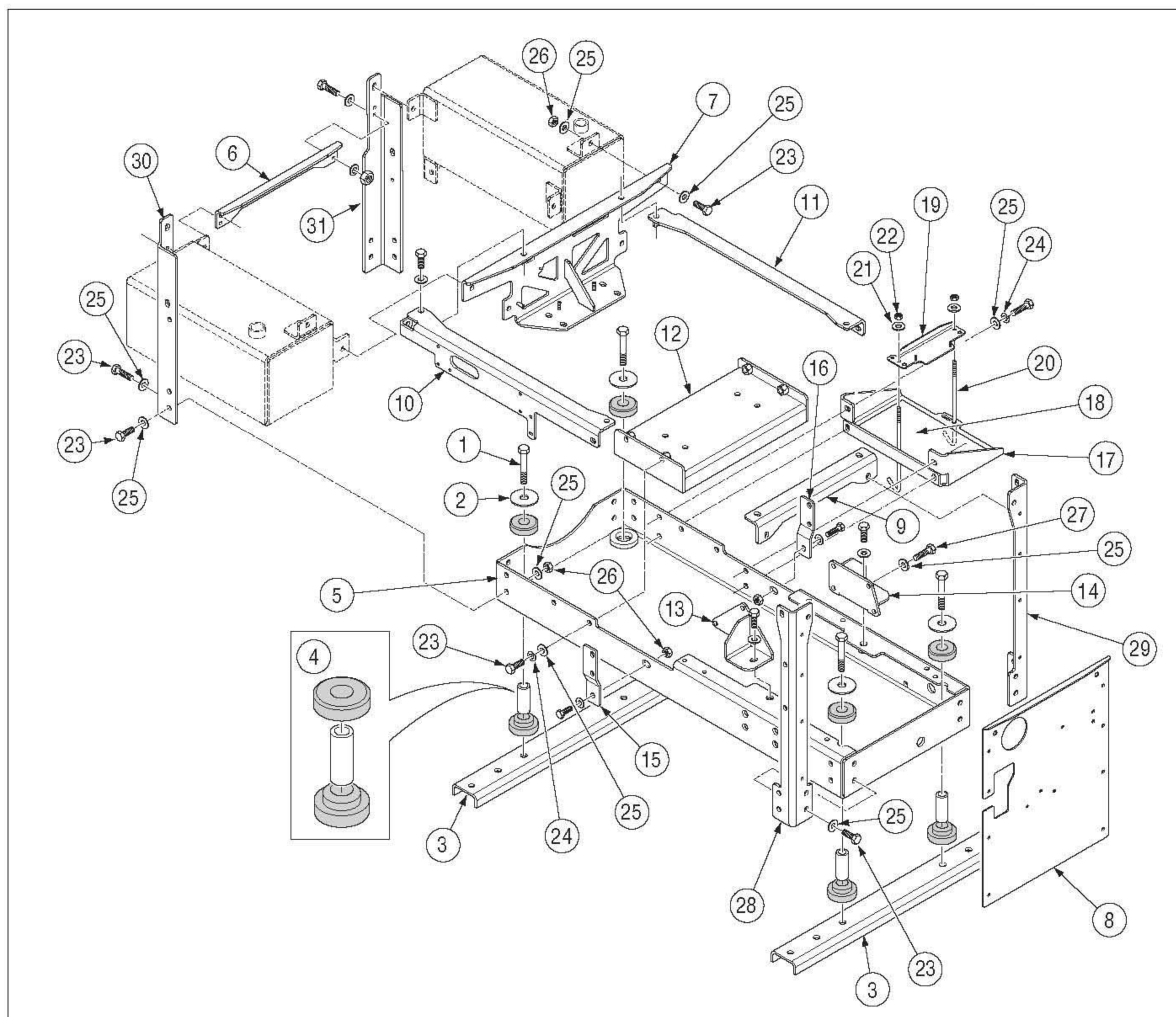
PR SERIES RAIL APU HIGH PROFILE UNIT (PR0030)



ITEM	PART#	DESCRIPTION	REQ.
1	89-168-01K	Bolt, 10/pkg	n/a
2	89-167-01K	Washer, 10/pkg	n/a
3	89-040-05K	Mounting Channel, 1/pkg	2
4	89-391-70K	Isolator Mounts, 4/pkg	4
5	82-725-51K	Frame, Base	1
6	82-726-01K	Frame, Rear Vertical	2
7	82-386-10K	Frame, Cross Member	1
8	82-729-01K	Frame, Front Plate	1
9	82-380-10K	Frame, Front Horizontal	1
10	82-382-10K	Frame, Mid Horizontal, LHS	1
11	82-383-10K	Frame, Mid Horizontal, RHS	1
12	82-451-01K	Base, Generator	1
13	86-210-01K	Engine Mount, Front, LHS	1
14	86-211-01K	Engine Mount, Front, RHS	1

ITEM	PART#	DESCRIPTION	REQ.
15	82-452-01K	Bracket, Mid Support, LHS	1
16	82-453-01K	Bracket, Mid Support, RHS	1
17	86-703-01K	Bracket, Battery Mount	1
18	82-934-07K	Foam Pad, Battery	1
19	86-704-01K	Cross Brace, Battery	1
20	86-705-01K	Hold Down Rod, Battery, 1/pkg	2
21	25-016-01K	Washer, Flat, 10/pkg	n/a
22	25-021-01K	Nut, Nyloc®, 10/pkg	n/a
23	25-045-01K	Bolt, 10/pkg	n/a
24	25-051-01K	Washer, Lock, 10/pkg	n/a
25	25-052-01K	Washer, Flat, 10/pkg	n/a
26	25-053-01K	Nut, Nyloc®, 10/pkg	n/a
27	25-422-01K	Bolt, Metric, 10/pkg	n/a

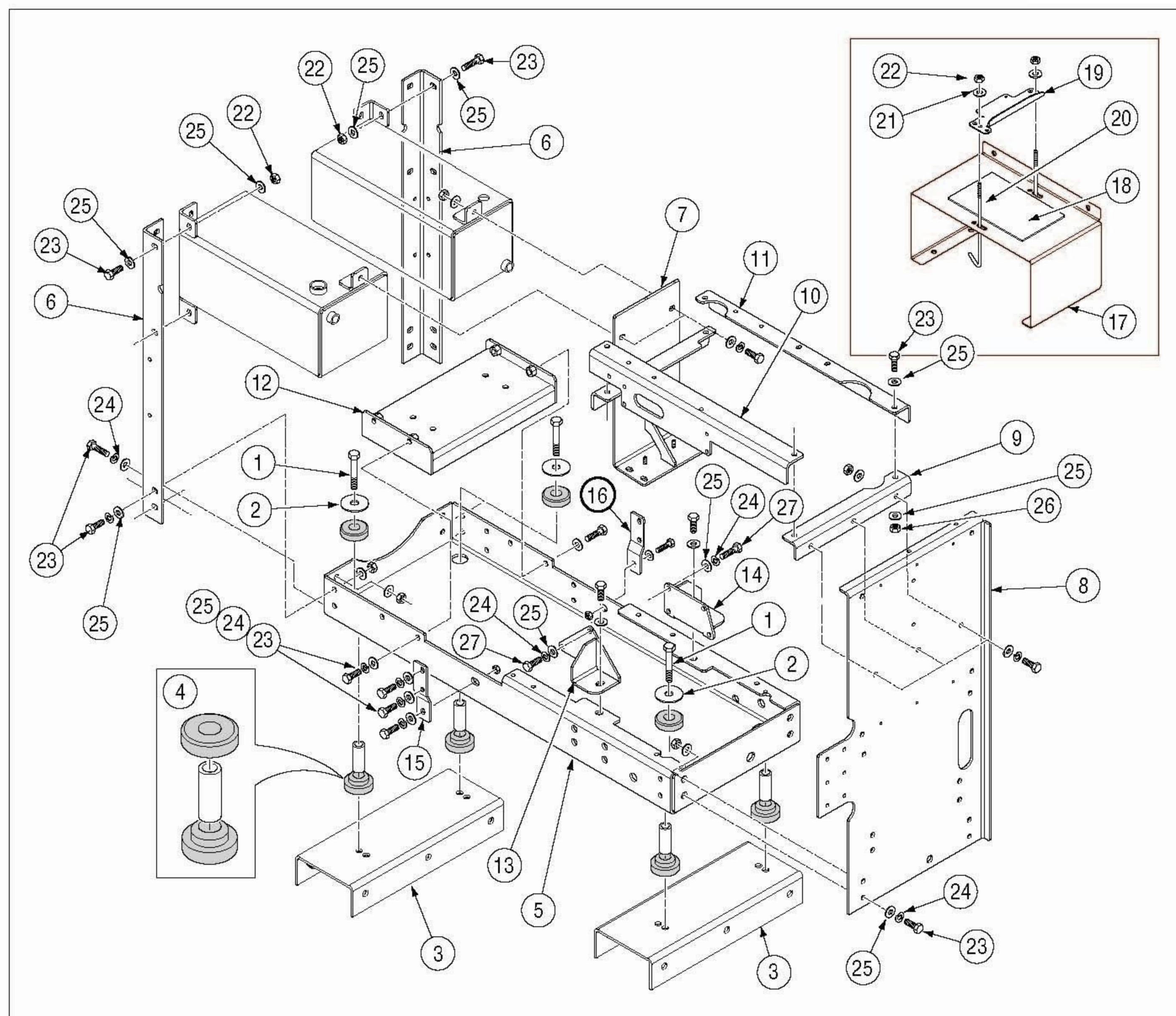
**PR SERIES RAIL APU
LOW PROFILE UNIT (PR0035)**



ITEM	PART#	DESCRIPTION	REQ.
1	89-168-01K	Bolt, 10/pkg	n/a
2	89-167-01K	Washer, 10/pkg	n/a
3	89-040-05K	Mounting Channel, 1/pkg	2
4	89-391-70K	Isolator Mounts, 4/pkg	4
5	82-725-51K	Frame, Base	1
6	86-688-01K	Frame, Rear Horizontal	1
7	86-685-01K	Frame, Cross Member	1
8	86-689-01K	Frame, Front Plate	1
9	86-682-01K	Frame, Front Horizontal	1
10	86-683-01K	Frame, Mid Horizontal, LHS	1
11	86-684-01K	Frame, Mid Horizontal, RHS	1
12	82-451-01K	Base, Generator	1
13	86-210-01K	Engine Mount, Front, LHS	1
14	86-211-01K	Engine Mount, Front, RHS	1
15	82-452-01K	Bracket, Mid Support, LHS	1
16	82-453-01K	Bracket, Mid Support, RHS	1

ITEM	PART#	DESCRIPTION	REQ.
17	86-703-01K	Bracket, Battery Mount	1
18	82-934-07K	Foam Pad, Battery	1
19	86-704-01K	Cross Brace, Battery	1
20	86-705-01K	Hold Down Rod, Battery, 1/pkg	2
21	25-016-01K	Washer, Flat, 10/pkg	n/a
22	25-021-01K	Nut, Nyloc®, 10/pkg	n/a
23	25-045-01K	Bolt, 10/pkg	n/a
24	25-051-01K	Washer, Lock, 10/pkg	n/a
25	25-052-01K	Washer, Flat, 10/pkg	n/a
26	25-053-01K	Nut, Nyloc®, 10/pkg	n/a
27	25-422-01K	Bolt, Metric, 10/pkg	n/a
28	86-680-01K	Frame, Front Vertical, LHS	1
29	86-681-01K	Frame, Front Vertical, RHS	1
30	86-686-01K	Frame, Rear Vertical, RHS	1
31	86-687-01K	Frame, Rear Vertical, LHS	1

PR SERIES RAIL APU RUNNING BOARD UNIT (PR0040)

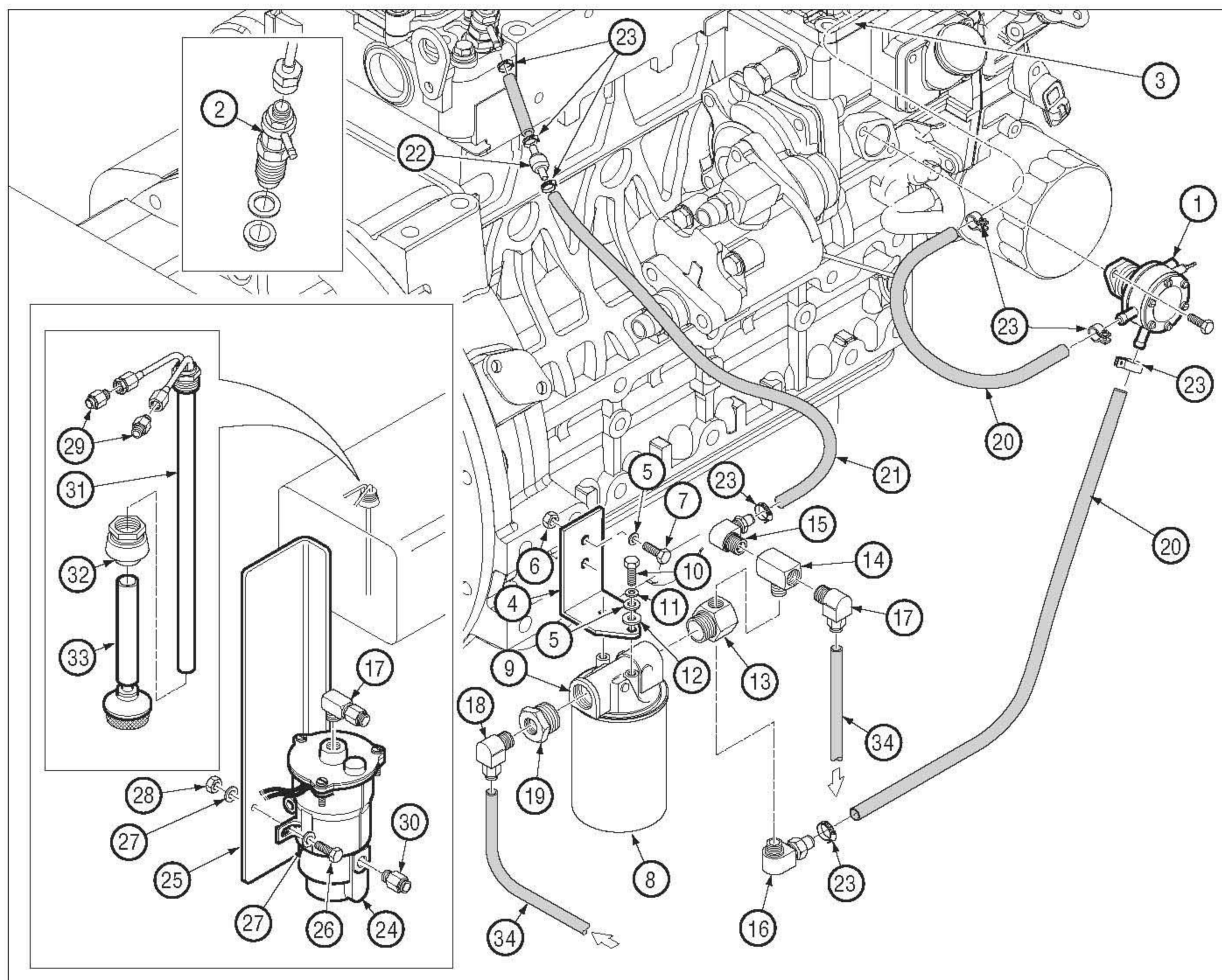


ITEM	PART#	DESCRIPTION	REQ.
1	89-168-01K	Bolt, 10/pkg	n/a
2	89-167-01K	Washer, 10/pkg	n/a
3	82-240-20K	Mounting Channel, 1/pkg	2
4	89-391-70K	Isolator Mounts, 4/pkg	4
5	82-725-60K	Frame, Base	1
6	82-726-01K	Frame, Rear Vertical	2
7	82-386-10K	Frame, Cross Member	1
8	82-729-20K	Frame, Front Plate	1
9	82-380-10K	Frame, Front Horizontal	1
10	82-382-20K	Frame, Mid Horizontal, LHS	1
11	82-383-10K	Frame, Mid Horizontal, RHS	1
12	82-451-01K	Base, Generator	1
13	86-210-01K	Engine Mount, Front, LHS	1
14	86-211-01K	Engine Mount, Front, RHS	1
15	82-452-01K	Bracket, Mid Support, LHS	1

ITEM	PART#	DESCRIPTION	REQ.
16	82-453-01K	Bracket, Mid Support, RHS	1
17	82-636-20K	Bracket, Battery Mount	1
18	82-934-07K	Foam Pad, Battery	1
19	86-704-01K	Cross Brace, Battery	1
20	86-705-01K	Hold Down Rod, Battery, 1/pkg	2
21	25-016-01K	Washer, Flat, 10/pkg	n/a
22	25-021-01K	Nut, Nyloc®, 10/pkg	n/a
23	25-045-01K	Bolt, 10/pkg	n/a
24	25-051-01K	Washer, Lock, 10/pkg	n/a
25	25-052-01K	Washer, Flat, 10/pkg	n/a
26	25-053-01K	Nut, Nyloc®, 10/pkg	n/a
27	25-422-01K	Bolt, Metric, 10/pkg	n/a

NOTE: Enclosure – Not shown.
Contact IMPCO Ecotrans for details.

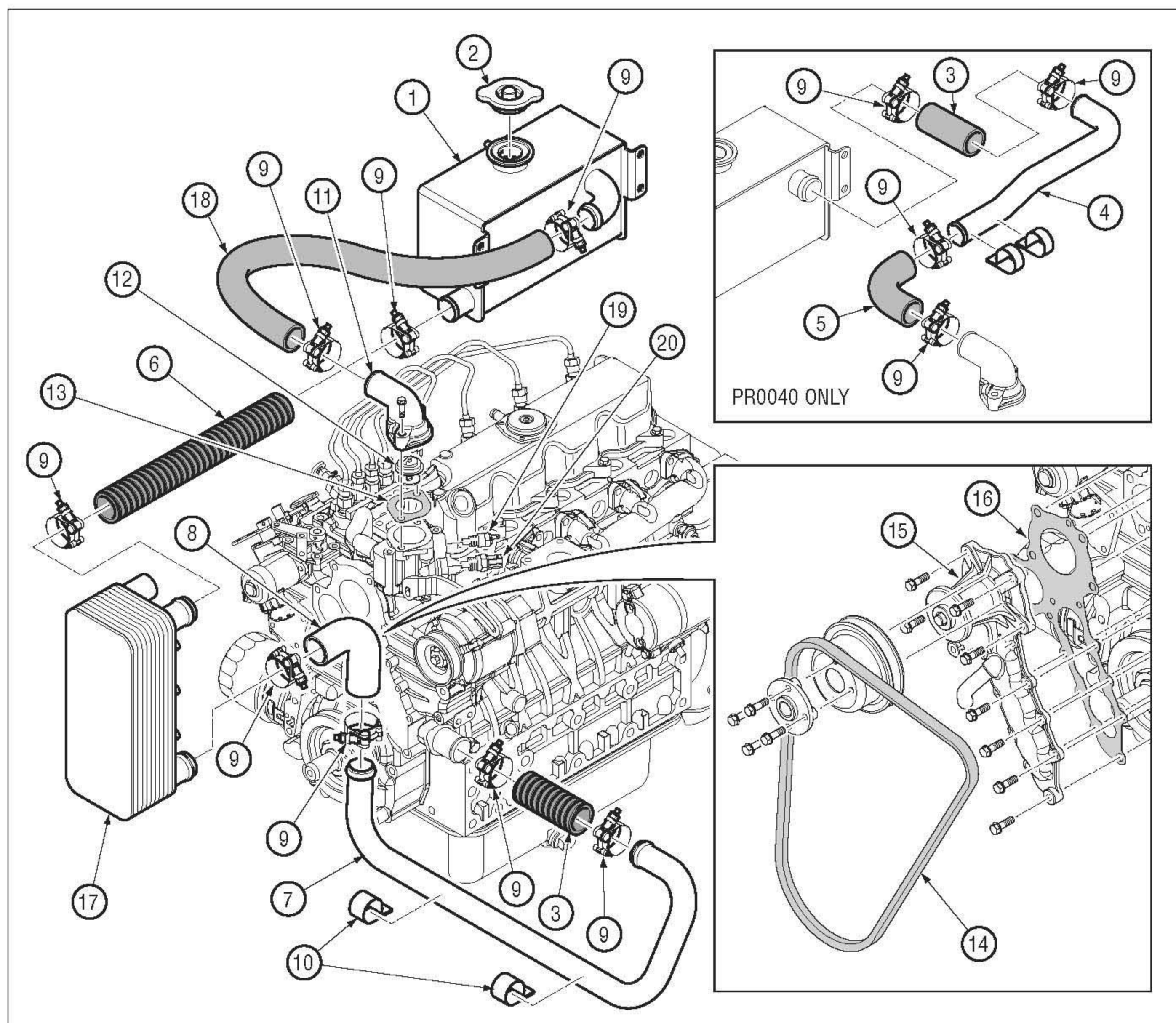
PR SERIES RAIL APU FUEL SYSTEM – APU ENGINE



ITEM	PART#	DESCRIPTION	REQ.
1	94-101-01K	Fuel Pump, APU Engine	1
2	94-102-01K	Fuel Injector, 1/pkg	1
3	94-103-01K	Fuel Injection Pump, APU Engine	1
4	82-243-01K	Bracket, Fuel Filter, PR0030 & 35	1
	82-243-02K	Bracket, Fuel Filter, PR0040	1
5	25-016-01K	Washer, Flat, 10/pkg	n/a
6	25-021-01K	Nut, Nyloc®, 10/pkg	n/a
7	25-023-01K	Bolt, 10/pkg	n/a
8	89-277-01K	Filter, Fuel	1
9	89-276-01K	Filter Head, Fuel	1
10	25-033-01K	Bolt, 10/pkg	n/a
11	25-013-01K	Washer, Lock, 10/pkg	n/a
12	25-155-01K	Washer, Flat, 10/pkg	n/a
13	82-419-01K	Fitting, Constant Bleed Valve	1
14	89-711-17K	Fitting, T	1
15	89-711-16K	Fitting, Elbow, Hose	1
16	89-711-12K	Fitting, Elbow, Hose	1
17	89-711-14K	Fitting, Tube, Elbow	1
18	89-711-15K	Fitting, Tube, Elbow	1
19	89-711-13K	Fitting, Adaptor	1

ITEM	PART#	DESCRIPTION	REQ.
20	86-690-01K	Fuel Line, Filter to Fuel Pump	1
21	86-691-01K	Fuel Line, Engine Return to Check Valve, c/w loom	1
22	96-101-25K	Check Valve, Fuel Return	1
23	27-005-01K	Clamp, Fuel Hose, 10/pkg	n/a
24	89-432-01K	Fuel Pump, Transfer	1
25	89-377-01K	Bracket, Fuel Pump, Transfer	1
26	25-004-01K	Bolt, 10/pkg	n/a
27	25-093-01K	Washer, Flat, 10/pkg	n/a
28	25-015-01K	Nut, Nyloc®, 10/pkg	n/a
29	89-711-19K	Fitting, Tube, Straight	1
30	89-711-20K	Fitting, Tube, Straight	1
31	89-164-01K	Fuel Pick-up	1
32	89-165-01K	Flange, Fuel Pick-up	1
33	89-155-01K	Fuel Suction Assembly	1
34	82-741-01K	Fuel Line, M.E. Supply & Return	1

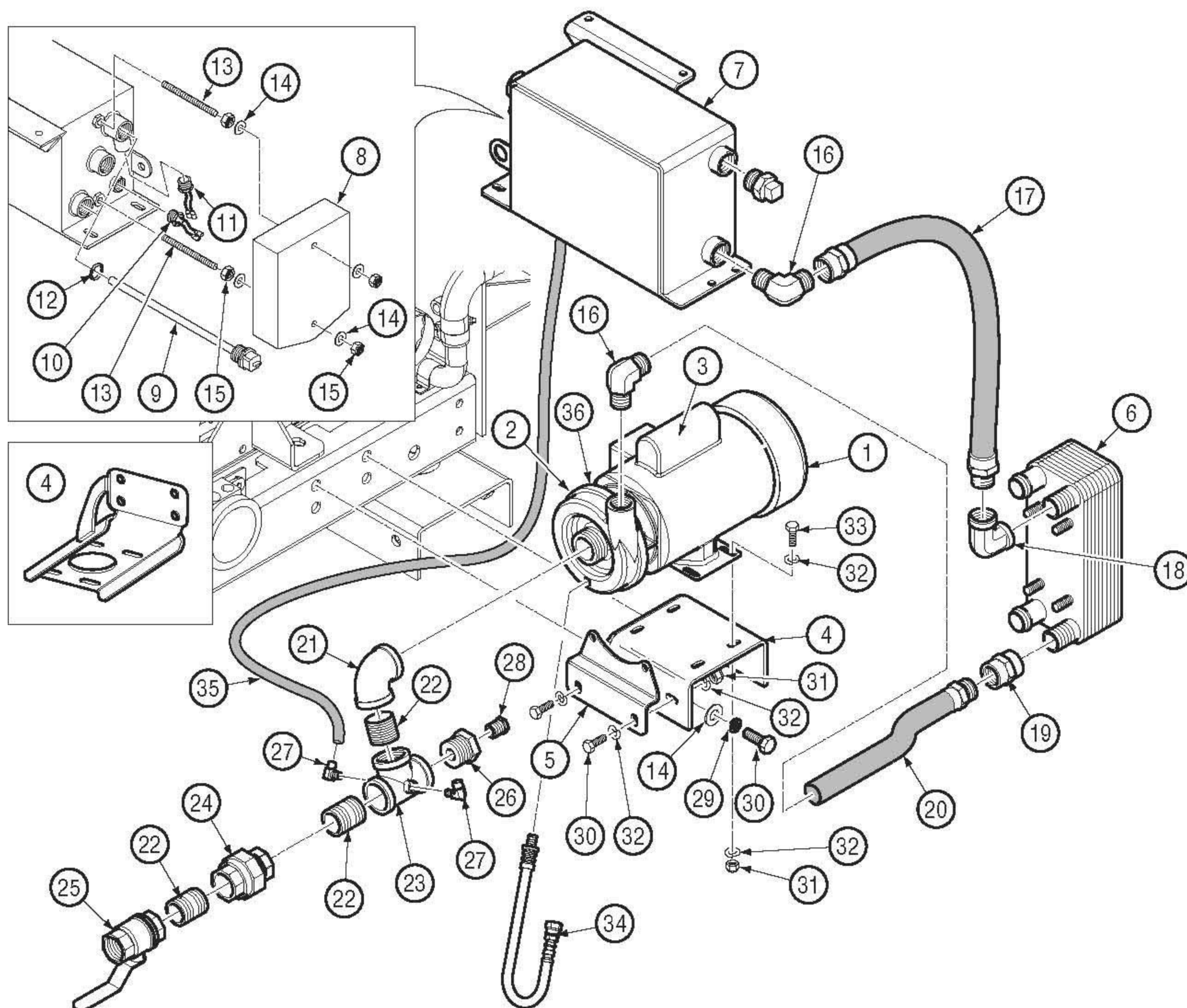
PR SERIES RAIL APU COOLANT SYSTEM – APU ENGINE



ITEM	PART#	DESCRIPTION	REQ.
1	89-001-01K	Tank, Coolant, PR0030/PR0035	1
	89-001-20K	Tank, Coolant, PR0040	1
2	80-053-00K	Rad Cap	1
3	82-330-02K	Hose, Coupling	2
4	86-751-30K	Tube, CT to Engine, PR0040	1
5	82-330-50K	Hose, Elbow	1
6	82-330-04K	Hose, CT to HE, PR0030/PR0035	1
	82-330-07K	Hose, CT to HE, PR0040	1
7	86-751-01K	Tube, Engine to HE, PR0030/PR0035	1
	86-751-20K	Tube, Engine to HE, PR0040	1
8	82-330-06K	Hose, Pipe to HE	1
9	27-052-60K	Clamp, Hose, 10/pkg	n/a
10	86-777-01K	Clamp, P, 10/pkg	n/a
11	94-108-01K	Thermostat Housing, APU Engine	1

ITEM	PART#	DESCRIPTION	REQ.
12	94-107-01K	Thermostat, APU Engine	1
13	94-008-01K	Gasket, Thermostat, APU Engine	1
14	94-104-01K	Belt, Pump, Coolant/Alternator	1
15	94-105-01K	Pump, Coolant, APU Engine	1
16	94-106-01K	Gasket, Pump, Coolant APU Engine	1
17	89-213-03K	Heat Exchanger	1
18	82-345-02K	Hose, CT to Engine, PR0030/PR0035	1
19	94-116-01K	Overheat Sensor, APU Engine	1
20	94-118-01K	Temperature Sender, APU Engine	1

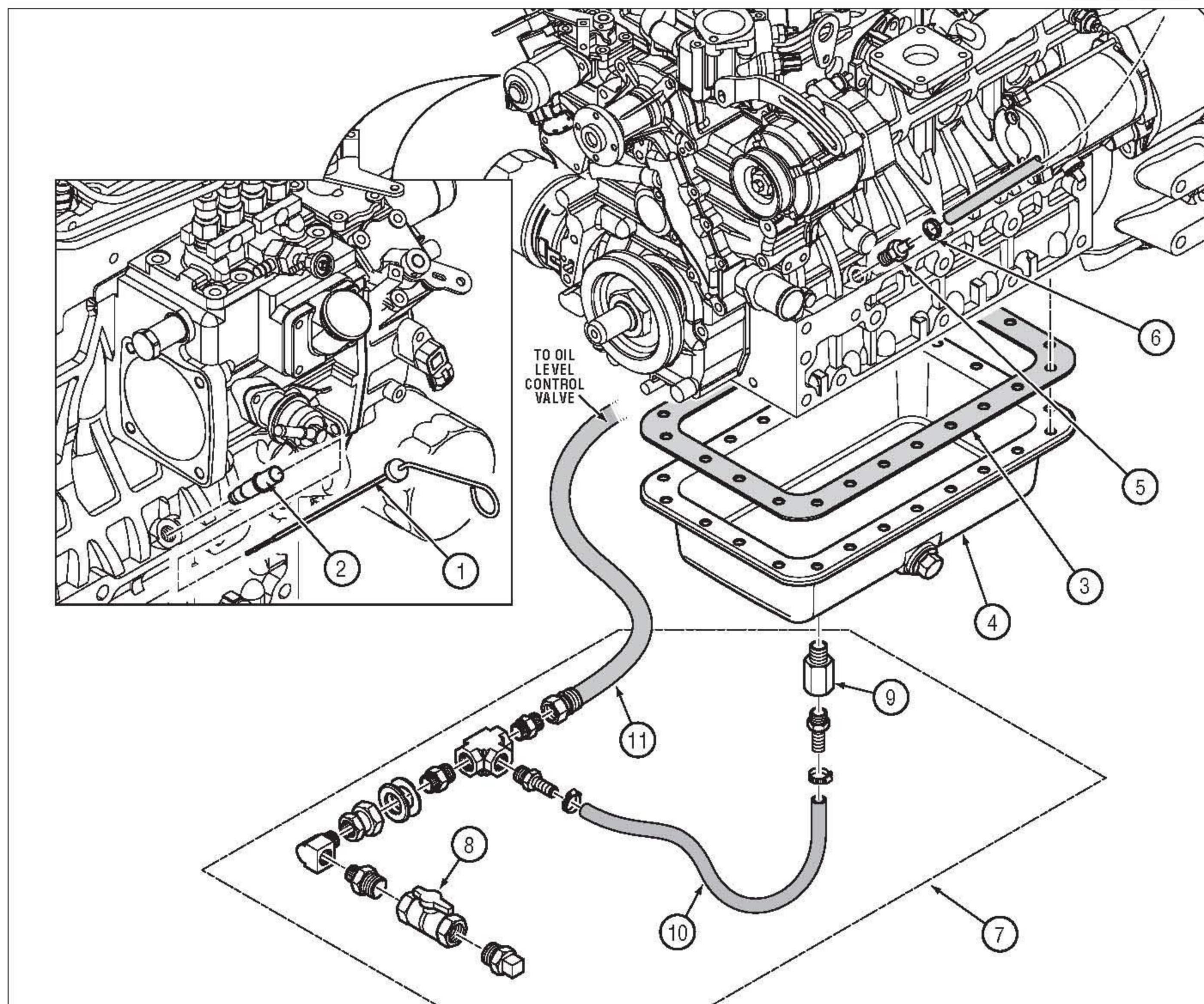
PR SERIES RAIL APU LOCOMOTIVE WATER HEATING SYSTEM



ITEM	PART#	DESCRIPTION	REQ.
1	89-202-02K	Water Pump, Electric	1
2	89-284-03K	Pump Head	1
3	89-204-01K	Electric Motor	1
4	86-143-01K	Bracket, Mount, Water Pump, PR0030/PR0040	1
	89-203-01K	Bracket, Mt., Water Pump, PR0035	1
5	89-249-01K	Bracket Support, PR0030/PR0040	1
6	89-213-03K	Heat Exchanger	1
7	86-760-01K	Tank, Water Heater	1
8	82-449-50K	Guard, c/w gasket	1
9	89-350-01K	Heater Element	3
10	89-158-01K	Sensor, Temperature	1
11	89-159-01K	Sensor, Overheat	1
12	89-457-01K	O-Ring, Heater Element 10/pkg	n/a
13	25-451-02K	Bolt, 10/pkg	n/a
14	25-052-01K	Washer, Flat, 10/pkg	n/a
15	25-053-01K	Nut, Nyloc®, 10/pkg	n/a
16	86-769-01K	Fitting, Elbow	1
17	86-753-30K	Hose, HE to WT, PR0030	1
	86-754-01K	Hose, HE to WT, PR0035	1
	86-754-20K	Hose, HE to WT, PR0040	1

ITEM	PART#	DESCRIPTION	REQ.
18	89-711-30K	Fitting, Elbow	1
19	89-007-01K	Coupling	1
20	86-753-01K	Hose, HE to WP, PR0035	1
	86-753-10K	Hose, HE to WP, PR0030	1
21	82-266-02K	Fitting, Elbow	1
22	89-416-01K	Fitting, Nipple	3
23	86-757-01K	Fitting, T	1
24	89-736-01K	Fitting, Union	1
25	89-417-02K	Valve, Ball	1
26	86-756-01K	Fitting, Reducer	1
27	89-739-02K	Fitting, Elbow	2
28	89-281-01K	Sensor, Temperature, WTS1	1
29	25-051-01K	Washer, Lock, 10/pkg	n/a
30	25-045-01K	Bolt, 10/pkg	n/a
31	25-021-01K	Nut, Nyloc®, 10/pkg	n/a
32	25-016-01K	Washer, Flat, 10/pkg	n/a
33	25-023-01K	Bolt, 10/pkg	n/a
34	86-758-01K	Hose, WP Drain	1
35	86-759-01K	Hose, WH Tank Drain, PR0035	1
	86-759-10K	Hose, WH Tank Drain, PR0030	1
36	89-758-02K	Seal, Water Pump	1

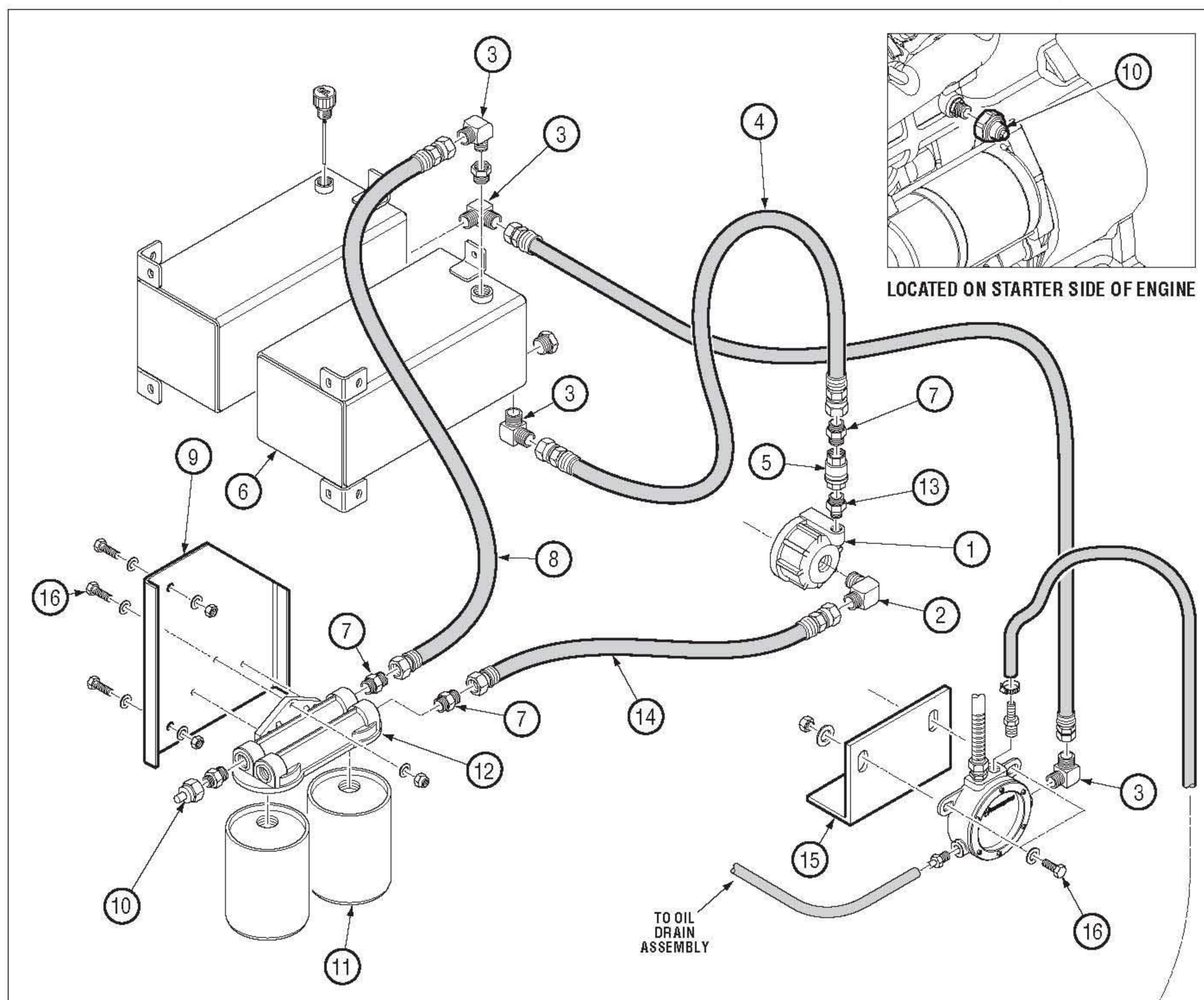
PR SERIES RAIL APU OIL/LUBRICATION SYSTEM – APU ENGINE



ITEM	PART#	DESCRIPTION	REQ.
1	94-126-01K	Dip Stick	1
2	89-100-04K	Dipstick Guide	1
3	94-010-01K	Gasket, Oil Pan	1
4	94-011-01K	Oil Pan	1
5	89-100-04K	Fitting, Hose	1
6	89-824-01K	Clamp, Hose, 10/pkg	n/a
7	86-123-02K	Drain Assembly, Oil, PR0030/PR0035	1
	86-123-03K	Drain Assembly, Oil, PR0040	1
8	86-201-01K	Valve, Drain	1
9	86-111-01K	Fitting, Oil Pan	1
10	89-083-03K	Hose, Oil Drain	1

ITEM	PART#	DESCRIPTION	REQ.
11	86-718-30K	Hose, Oil Drain to OLC Valve, PR0030	1
	86-718-25K	Hose, Oil Drain to OLC Valve, PR0035	1
	86-723-10K	Hose, Oil Drain to OLC Valve, PR0040	1

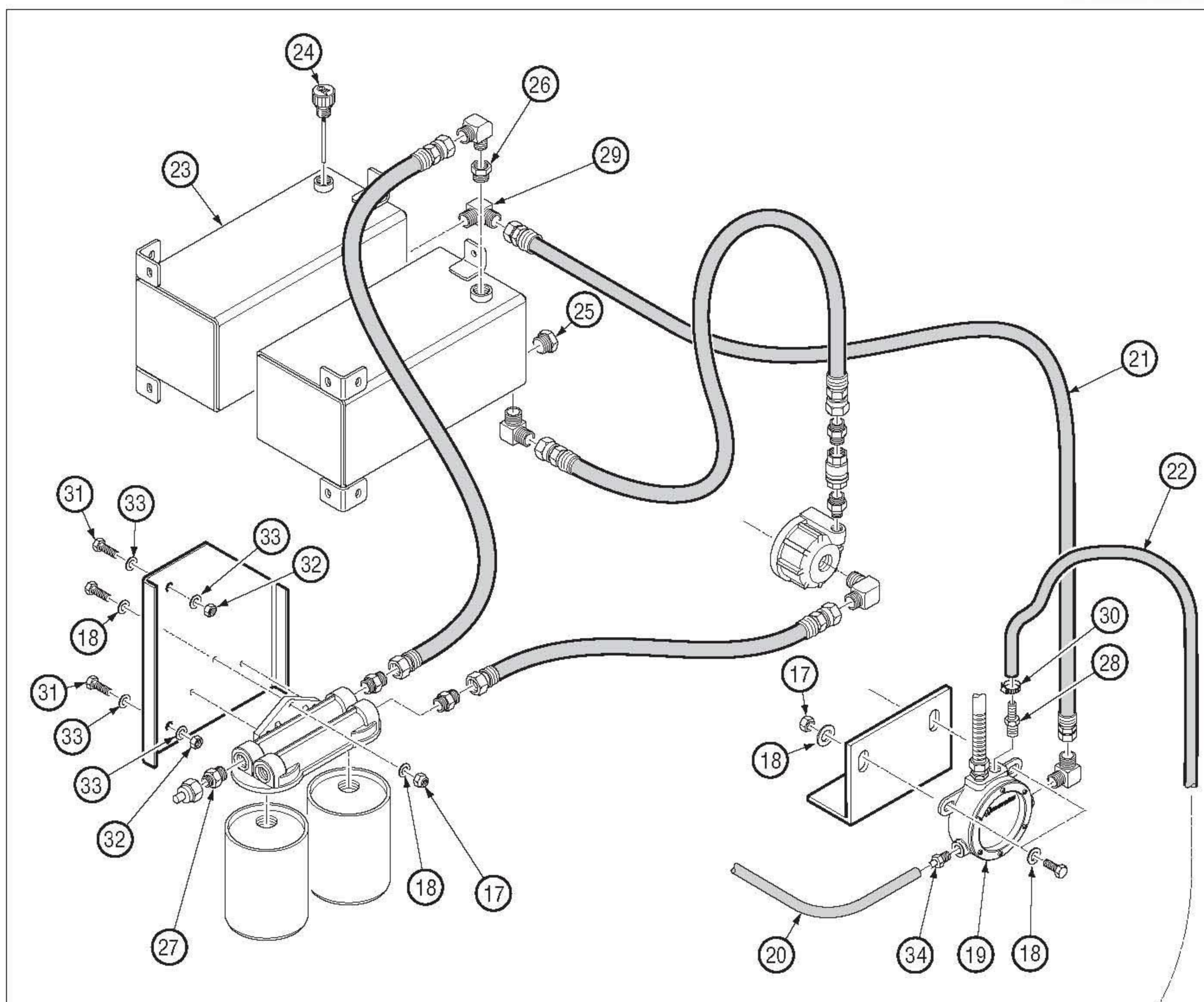
PR SERIES RAIL APU OIL/LUBRICATION SYSTEM – APU ENGINE



ITEM	PART#	DESCRIPTION	REQ.
1	89-745-01K	Adaptor, Filter, Engine	1
2	89-748-01K	Fitting, Elbow	1
3	89-711-05K	Fitting, Elbow	4
4	86-717-10K	Hose, Oil Adp. To Pressure Tank, PR0030	1
	86-717-01K	Hose, Oil Adp. To Pressure Tank, PR0035	1
	86-717-20	Hose, Oil Adpt.to Pressure Tank, PR0040	1
5	82-673-02K	Check Valve, Pressure Line	1
6	82-728-01K	Tank, Pressure, Oil, PR0030	1
	86-700-00K	Tank, Pressure, Oil, PR0035	1
	82-728-20K	Tank, Pressure, Oil, PR0040	1
7	89-748-06K	Fitting, Adaptor, Straight	3
8	86-718-10K	Hose, Pressure Tank to Filter Head, PR0030	1
	86-718-01K	Hose, Pressure Tank to Filter Head, PR0035	1
	86-718-20K	Hose, Pressure Tank to Filter Head, PR0040	1

ITEM	PART#	DESCRIPTION	REQ.
9	82-242-01K	Bracket, Oil Filter Head, PR0030	1
	82-224-01K	Bracket, Oil Filter Head, PR0040	1
10	96-949-00K	Sensor, Oil	2
11	89-728-01K	Filter, Oil	2
12	89-746-01K	Filter Head, Oil	1
13	86-129-01K	Fitting, Adaptor, Straight	1
14	82-510-06K	Hose, Oil Filter Head to Adaptor, PR0030	1
	86-719-01K	Hose, Oil Filter Head to Adaptor, PR0035	1
	86-719-20K	Hose, Oil Filter Head to Adaptor, PR0040	1
15	82-436-01K	Bracket, OLCV (Oil Level Control Valve)	1
16	25-023-01K	Bolt, 10/pkg	n/a

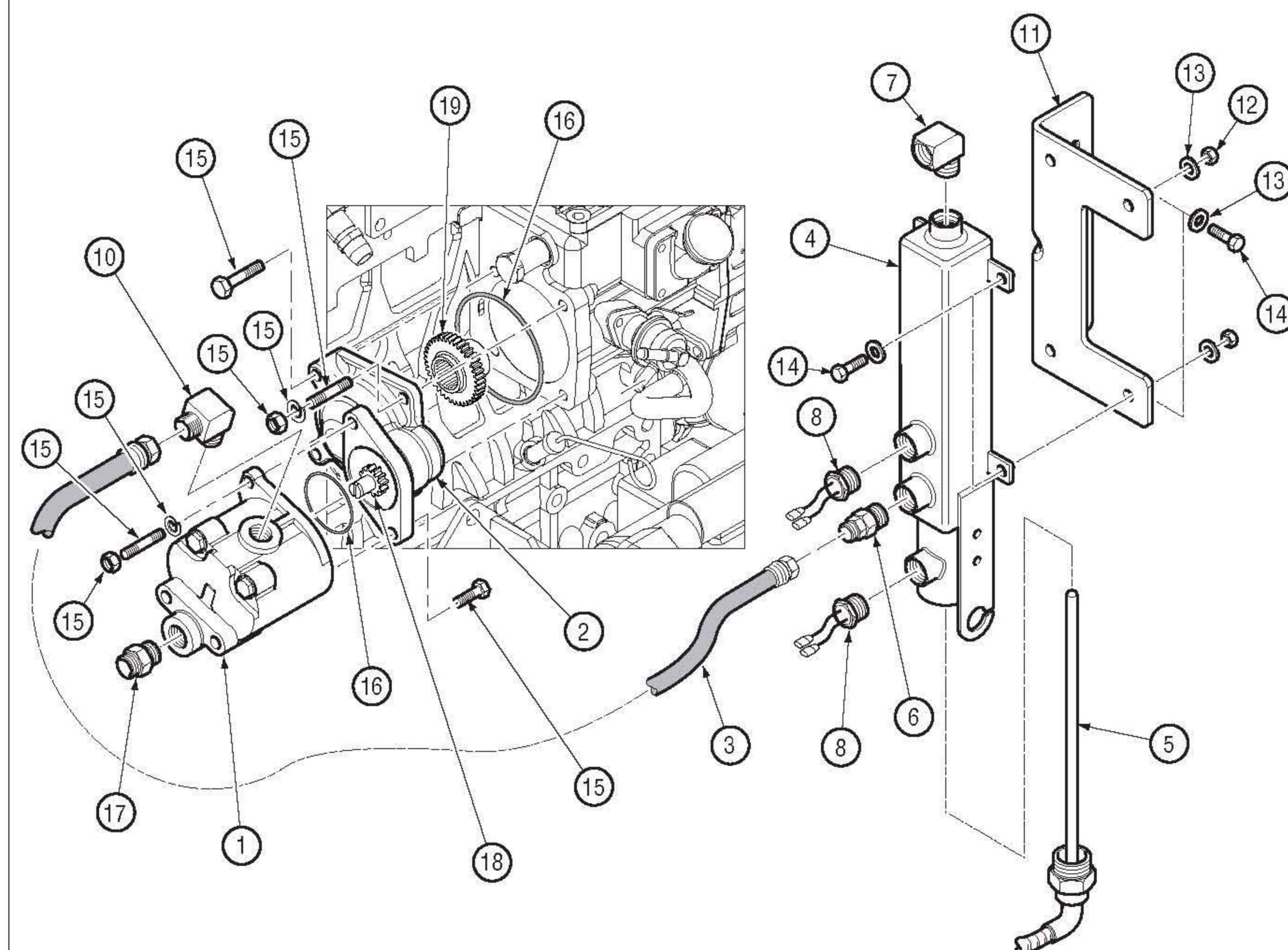
PR SERIES RAIL APU OIL/LUBRICATION SYSTEM – APU ENGINE



ITEM	PART#	DESCRIPTION	REQ.
17	25-021-01K	Nut, Nyloc®, 10/pkg	n/a
18	25-016-01K	Washer, Flat, 20/pkg	n/a
19	86-320-01K	OLCV (Oil Level Control Valve)	1
20	See Page 7 Item 11	Hose, OLV to Oil Drain	1
21	86-722-10K	Hose, OLCV to Make-Up Tank, PR0030/PR0040	1
	86-722-02K	Hose, OLCV to Make-Up Tank, PR0035	1
22	89-083-03K	Hose, OLCV to Engine Crankcase	1
23	82-727-01K	Tank, Oil Make-Up, PR0030/PR0040	1
	86-701-00K	Tank, Oil Make-Up, PR0035	1
24	89-210-50K	Breather/Dipstick, Make-Up Tank	1
25	89-748-05K	Fitting, Plug	1
26	89-711-27K	Fitting, Reducer	1
27	89-711-11K	Fitting, Reducer	1

ITEM	PART#	DESCRIPTION	REQ.
28	86-202-01K	Fitting, Hose Barb	1
29	82-339-01K	Fitting, Street, PR0030/PR0040 ONLY	1
30	89-824-01K	Clamp, Hose, 10/pkg	n/a
31	25-451-02K	Bolt, 10/pkg	n/a
32	25-053-01K	Nut, Nyloc®, 10/pkg	n/a
33	25-052-01K	Washer, Flat, 10/pkg	n/a
34	86-202-01K	Fitting, Hose Barb, PR0030/PR0040	1
	89-748-01K	Fitting, Elbow, PR0035	

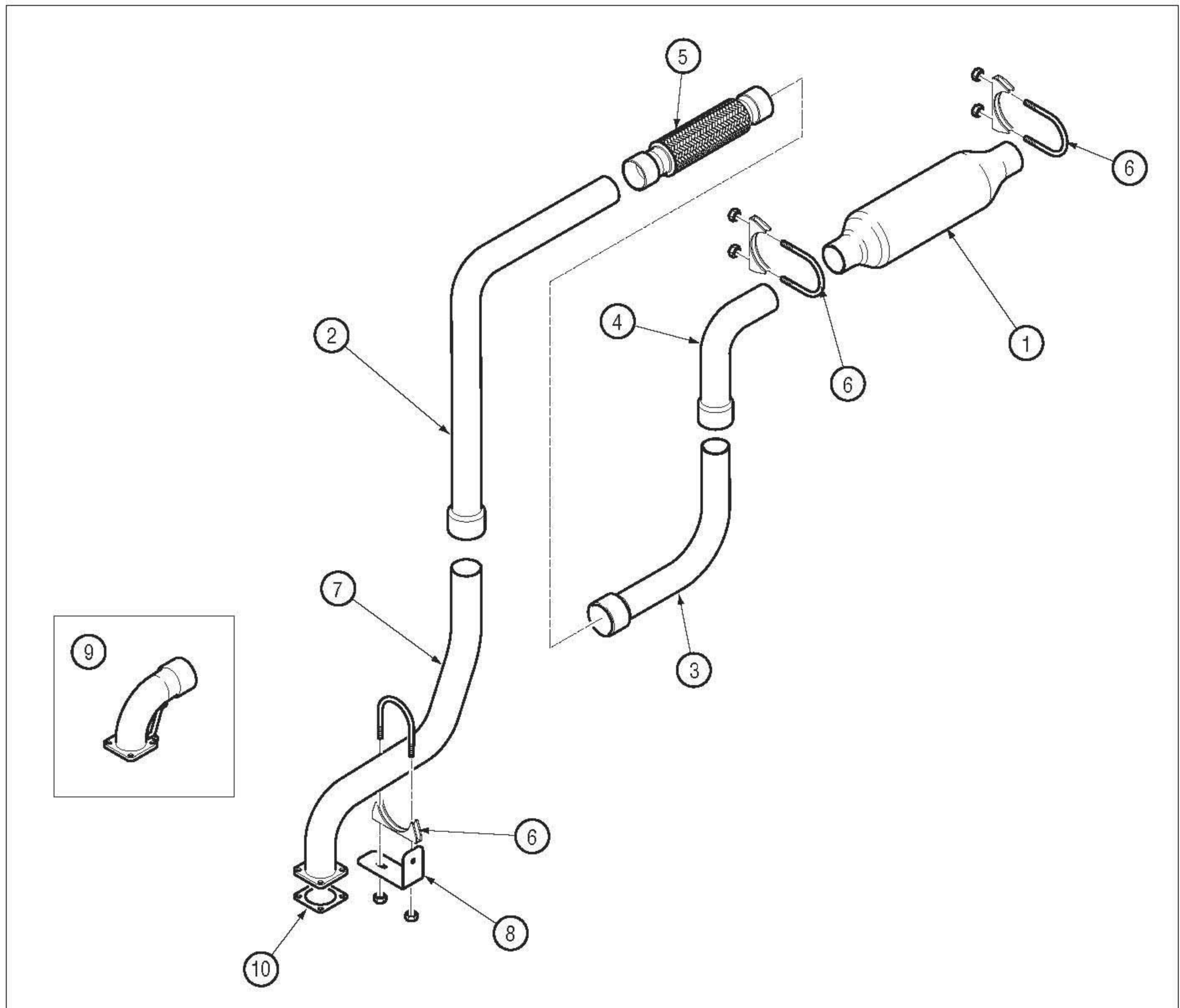
PR SERIES RAIL APU LOCOMOTIVE OIL HEATING SYSTEM



ITEM	PART#	DESCRIPTION	REQ.
1	86-725-01K	Pump, Locomotive Oil System	1
2	94-120-05K	Pump Holder	1
3	86-724-10K	Hose, Oil Pump to Oil Heater, PR0030	1
	86-724-01K	Hose, Oil Pump to Oil Heater, PR0035	1
	86-724-20K	Hose, Oil Pump to Oil Heater, PR0040	1
4	86-417-01K	Tank, Oil Heater, PR0030/PR0040	1
	86-417-50K	Tank, Oil Heater, PR0035	1
5	89-345-01K	Element, Oil Heater	1
6	89-242-01K	Fitting, Tank Inlet	1
7	82-339-01K	Fitting, Tank Outlet, PR0030/PR0040	1
8	82-222-01K	Switch, Oil Overhaet	1
9	82-223-01K	Switch, Temperature	1

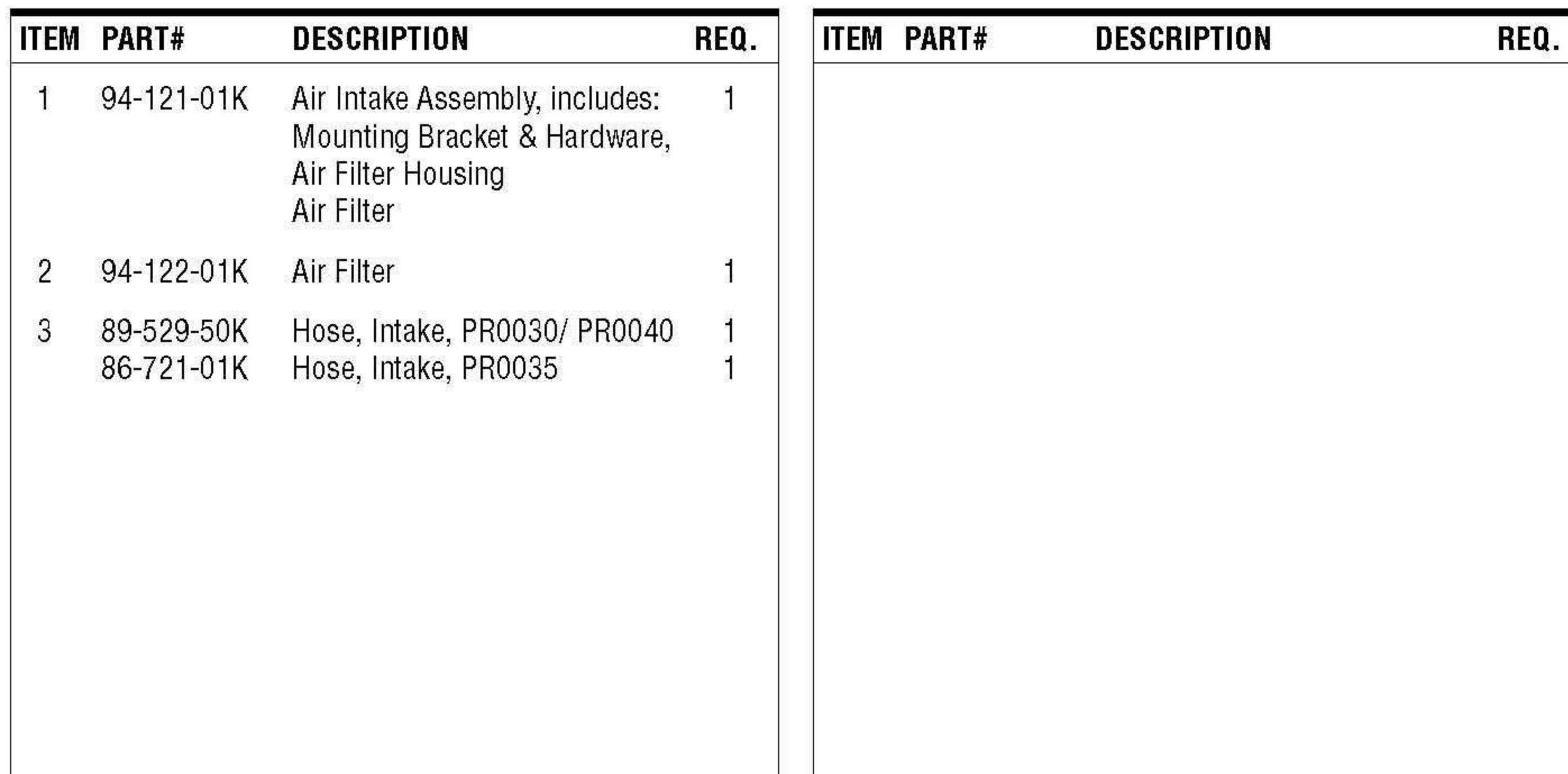
ITEM	PART#	DESCRIPTION	REQ.
10	89-711-21K	Fitting, Adapter, PR0030/PR0040	1
	89-711-02K	Fitting, Adaptor, PR0035	1
11	86-419-10K	Bracket, Heater Tank Mounting, PR0030/PR0035	1
	82-931-01K	Bracket, Heater Tank Mounting, PR0040	1
12	25-021-01K	Nut, Nyloc®, 10/pkg	n/a
13	25-016-01K	Washer, Flat, 10/pkg	n/a
14	25-024-01K	Bolt, 10/pkg	n/a
15	86-715-60K	Mounting Hardware, Oil Pump	n/a
16	94-120-20K	Seal Kit, Includes 3 O-Rings	1
17	89-711-10K	Fitting, Inlet	1
18	86-728-01K	Gear, APU Oil Pump Drive	1
19	86-727-01K	Gear, Oil Pump Driven	1

PR SERIES RAIL APU
EXHAUST SYSTEM – APU ENGINE

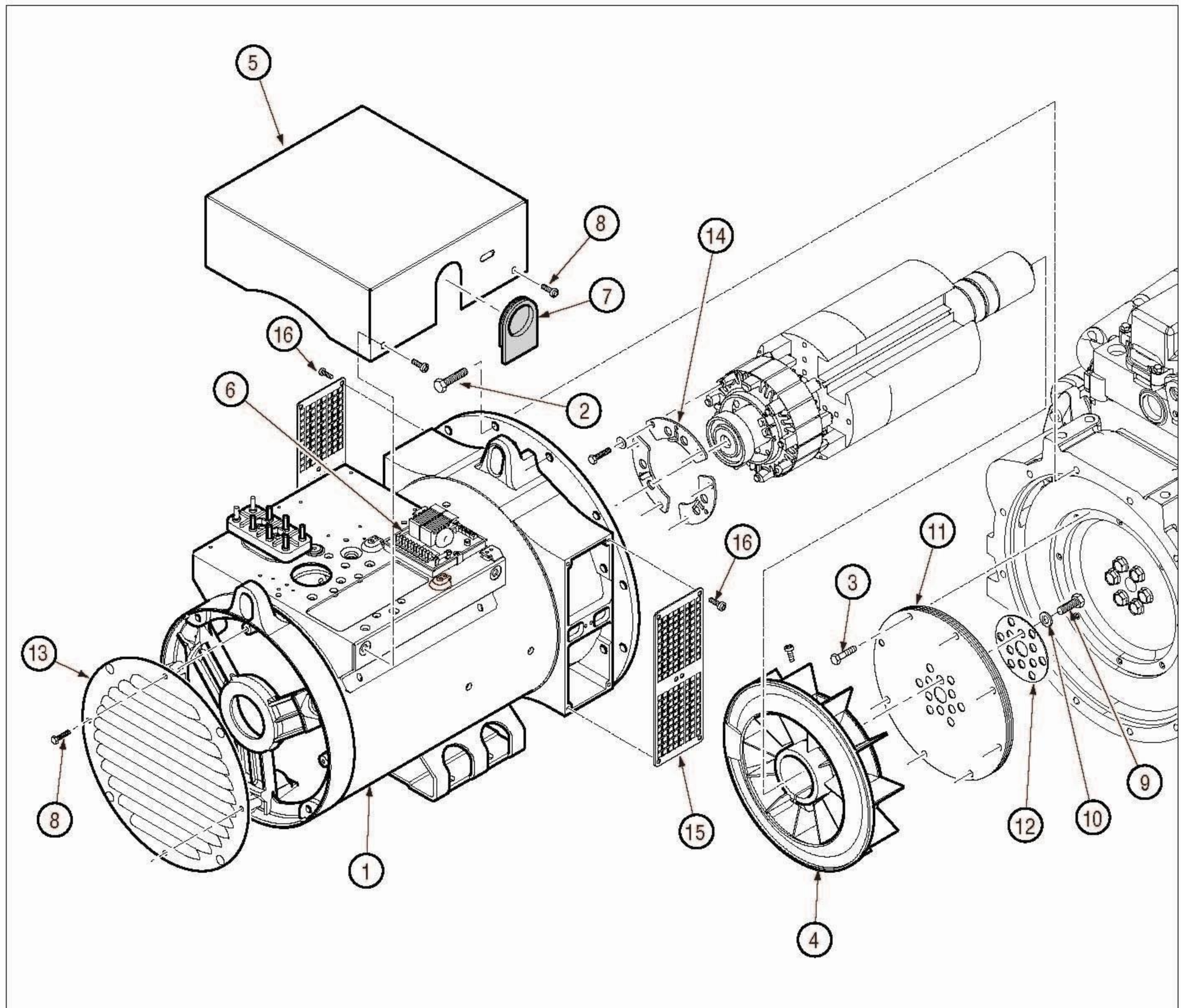


ITEM	PART#	DESCRIPTION	REQ.
1	82-320-01K	Muffler, Exhaust	1
2	89-866-05K	Exhaust, Vertical Tube	1
3	89-866-06K	Exhaust, Horizontal Tube	1
4	89-866-13K	Exhaust, Elbow	1
5	89-887-01K	Exhaust, Expansion Joint	1
6	89-889-01K	Exhaust, Clamps	1
7	86-141-01K	Exhaust Pipe, Engine, PR0030	1
8	86-140-01K	Bracket, Exhaust Pipe, PR0030	1
9	86-710-01K	Exhaust Pipe, Engine, PR0035/PR0040	1
10	94-119-01K	Gasket, Exhaust Pipe	1

ITEM	PART#	DESCRIPTION	REQ.



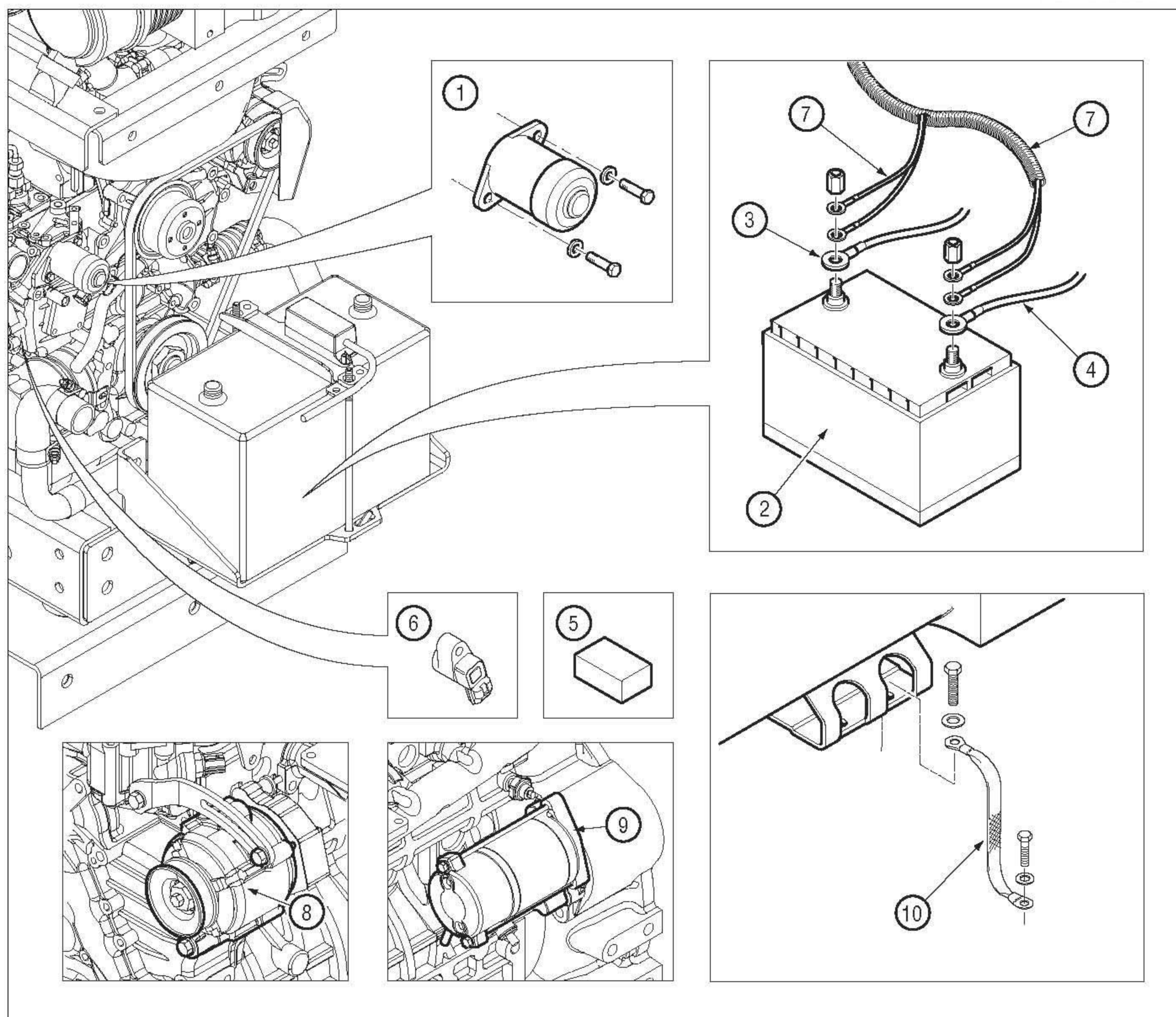
PR SERIES RAIL APU
GENERATOR 120/240V AC



ITEM	PART#	DESCRIPTION	REQ.
1	89-230-02K	120/240 VAC Generator	1
2	25-143-01K	Bolt, Gen. to Engine, 12/pkg	n/a
3	25-262-01K	Bolt, Gen Shaft to Engine, 8/pkg	n/a
4	89-230-22K	Fan	1
5	89-230-23K	Cover, Regulator	1
6	89-230-21K	Regulator, Electrical	1
7	89-230-29K	Grommet	1
8	89-230-28K	Screws, Covers, 20/pkg	n/a
9	89-230-31K	Bolt, 10/pkg	n/a
10	89-230-32K	Washer, Lock, 10/pkg	n/a
11	89-230-30K	Drive Plate Set	1

ITEM	PART#	DESCRIPTION	REQ.
12	89-230-24K	Back Plate	1
13	89-230-27K	Cover, Air Intake	1
14	89-230-33K	Diode Pack, 1/pkg	3
15	89-230-25K	Cover, Air Outlet	2
16	89-230-26K	Screw, Air Outlet Cover, 10/pkg	n/a

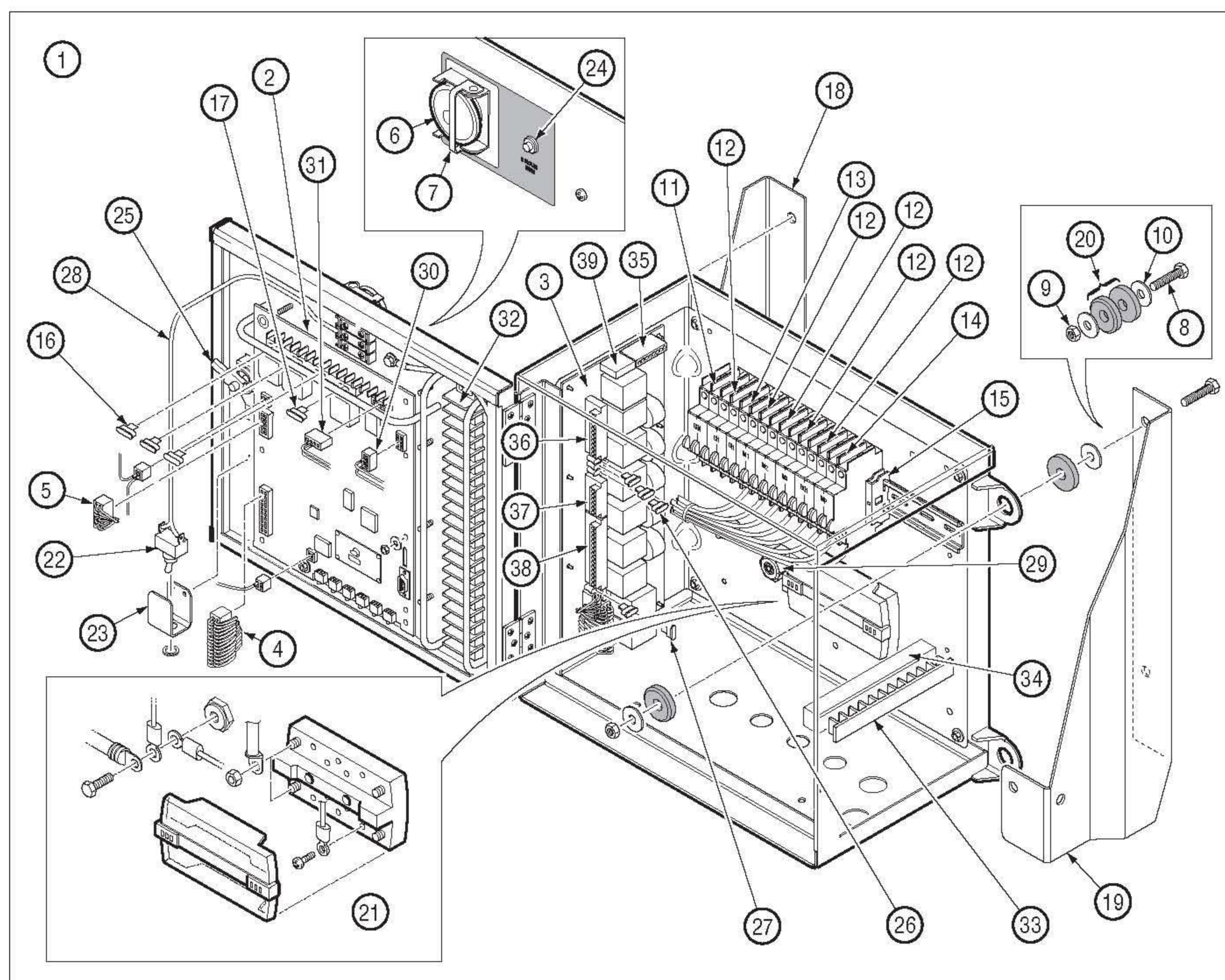
PR SERIES RAIL APU ELECTRICAL SYSTEM – APU ENGINE



ITEM	PART#	DESCRIPTION	REQ.
1	89-124-01K	Fuel Solenoid, c/w Wiring	1
2	N/A	Battery, 12 Volt <i>Not available as a spare part. See Service Manual for Specifications.</i>	1
3	82-711-15K	Cable, Battery Positive to Engine Starter	1
4	82-712-15K	Cable, Battery Negative to Engine Ground	1
5	94-114-01K	ECU, Engine Control Module	1
6	94-117-01K	Sensor, Engine RPM <i>Note: Refer to inset on page 7 for location of this part.</i>	1
7	N/A	<i>Note: Refer to page 16. Item 8</i>	

ITEM	PART#	DESCRIPTION	REQ.
8	94-112-01K	Alternator, 12 VDC	1
9	94-113-01K	Starter, 12 VDC	1
10	89-483-01K	Ground Strap	1

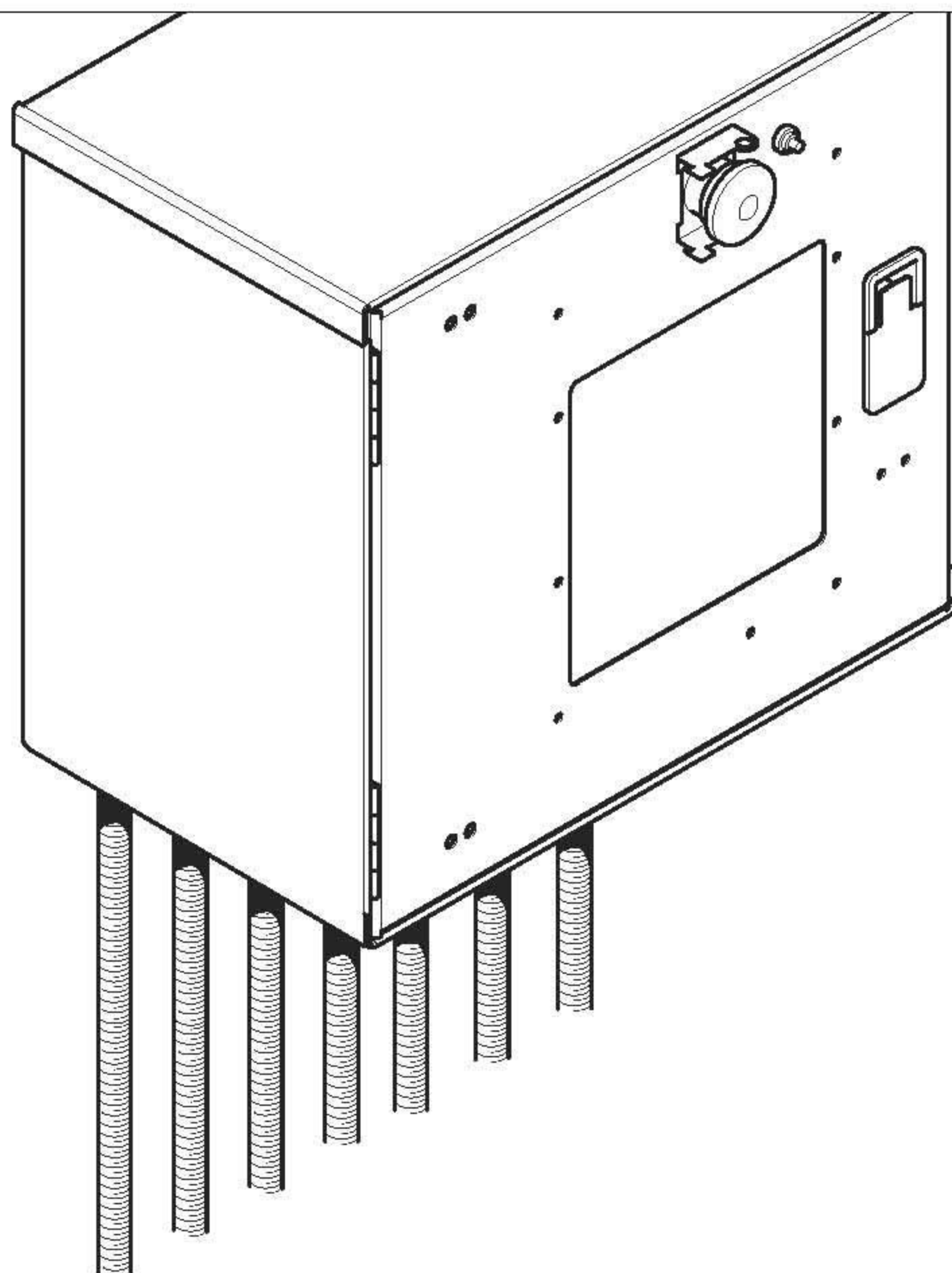
PR SERIES RAIL APU ELECTRICAL SYSTEM – PR SERIES CONTROLLER



ITEM	PART#	DESCRIPTION	REQ.
1	82-995-10K	PR Series Controller, Complete	1
2	82-682-10K	APU DC Control Board	1
	82-682-15K	APU DC Control Board, RS232 Communication Enabled <i>Used with Locomotive data recording systems</i>	1
3	82-683-10K	APU AC Control Board	1
4	82-689-01K	Harness, 24 Pin	1
5	82-688-01K	Harness, 12 Pin	1
6	RK0005	Switch, Emergency, ON/OFF	1
7	82-373-01K	Lockout, Switch	1
8	25-025-01K	Bolt, 10/pkg	n/a
9	25-021-01K	Nut, Nyloc®, 10/pkg	n/a
10	25-016-01K	Washer, Flat, 10/pkg	n/a
11	89-160-28K	Breaker, 60 Amp, Generator	1
12	89-160-03K	Breaker, 20 Amp, CH / WH / BC	5
13	89-160-02K	Breaker, 15 Amp, Single Pole, OH	1
14	89-160-27K	Breaker, 15 Amp, Water Pump	1
15	89-695-10K	Clamp, Breakers, Din Rail	2
16	89-625-01K	Fuse, 40 Amp, 10/pkg	n/a
17	26-086-01K	Fuse, 20 Amp, 10/pkg	n/a
18	82-932-01K	Bracket, Mounting LH	1

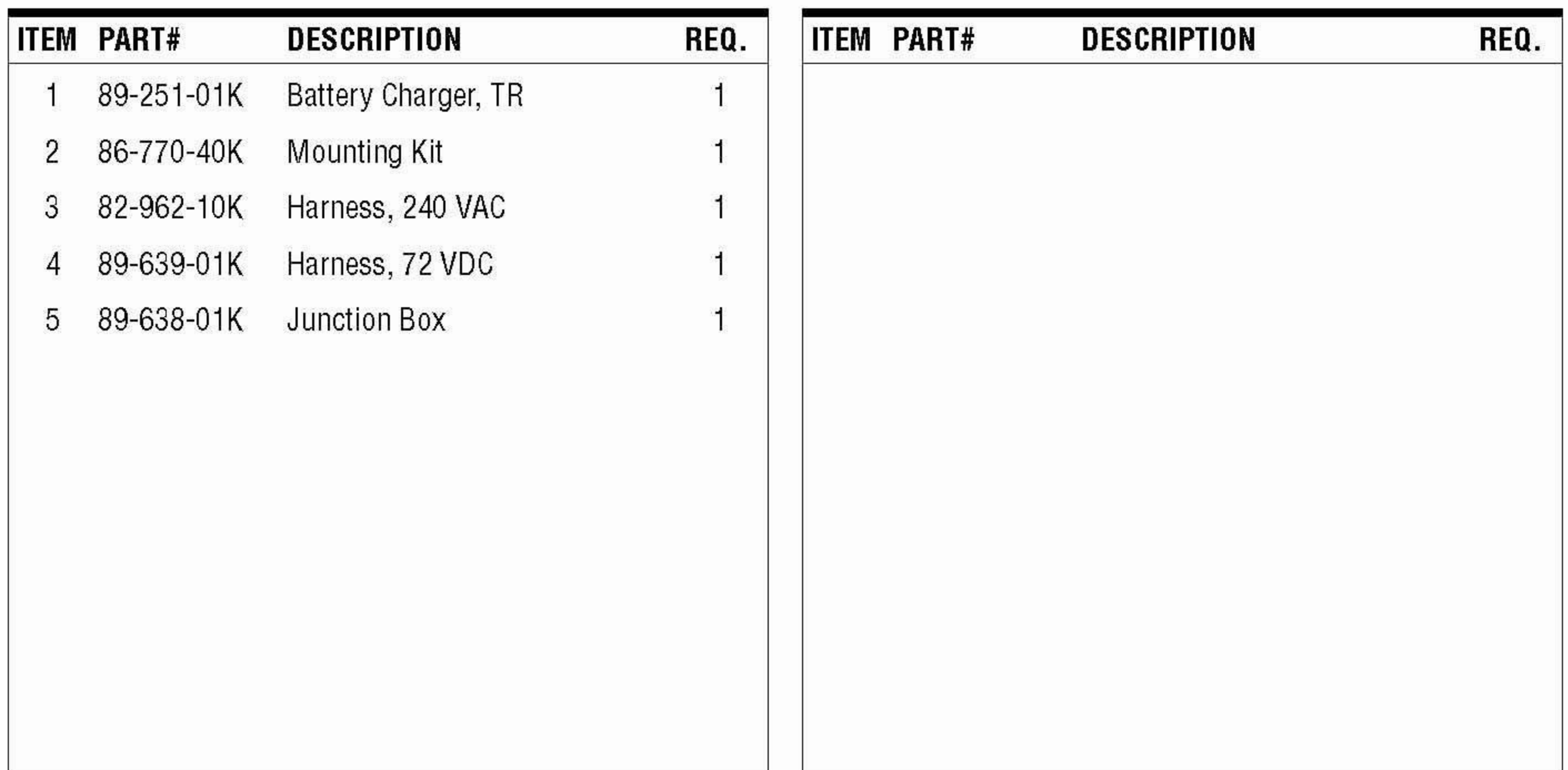
ITEM	PART#	DESCRIPTION	REQ.
19	82-933-01K	Bracket, Mounting RH	1
20	89-253-01K	Isolator, Rubber Mount, 1/pkg	4
21	89-160-17K	Busbar Assembly	1
22	82-705-01K	Switch, Manual/Enable	1
23	82-704-01K	Bracket, Switch, Manual/Enable	1
24	82-706-01K	Switch, 2 Hour Run	2
25	89-427-01K	Latch, Access Door	1
26	89-625-12K	Fuse, 2 Amp, Mini, 10/pkg	n/a
27	89-625-11K	Fuse, 5 Amp, Mini, 10/pkg	n/a
28	82-633-10K	Harness, Auto/Switch	1
29	25-544-01K	Stand-off, Electrical	2
30	82-632-10K	Harness, 240VAC, Sensing	1
31	82-631-10K	Harness, 74 VDC, Sensing	1
32	26-185-01K	Terminal Block, 20 Pole	1
33	26-182-01K	Terminal Block, 12 Pole	1
34	26-182-02K	Terminal Block, Cover	1
35	89-096-15K	Terminal Block, 10 Pole	1
36	TBD	Terminal Block, 8 Pole	1
37	TBD	Terminal Block, 6 Pole	1
38	TBD	Terminal Block, 14 Pole	1
39	TBD	Terminal Block, 3 Pole	1

K9.9 RAIL APU ELECTRICAL SYSTEM – APU/CONTROL HARNESS INTERFACE

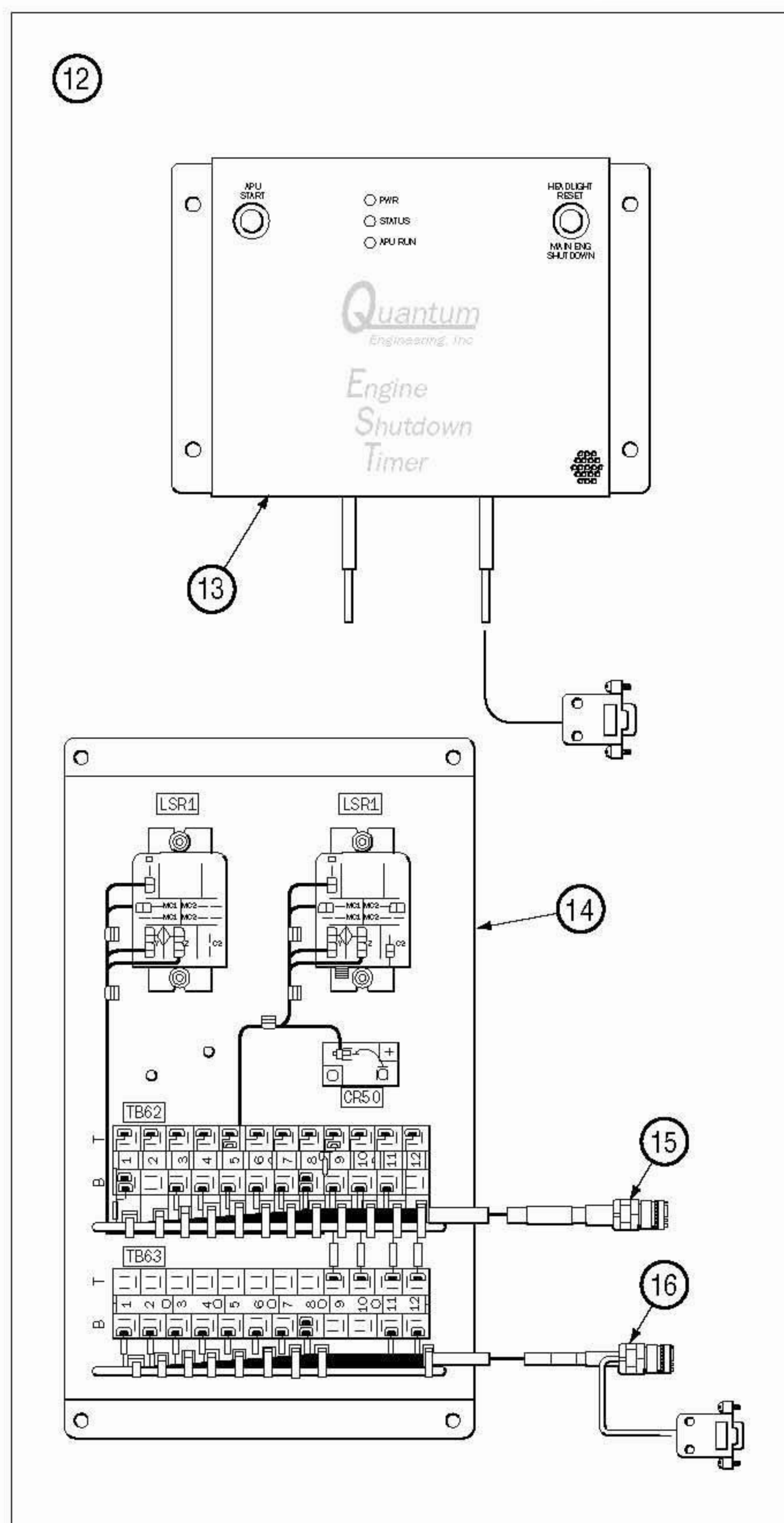
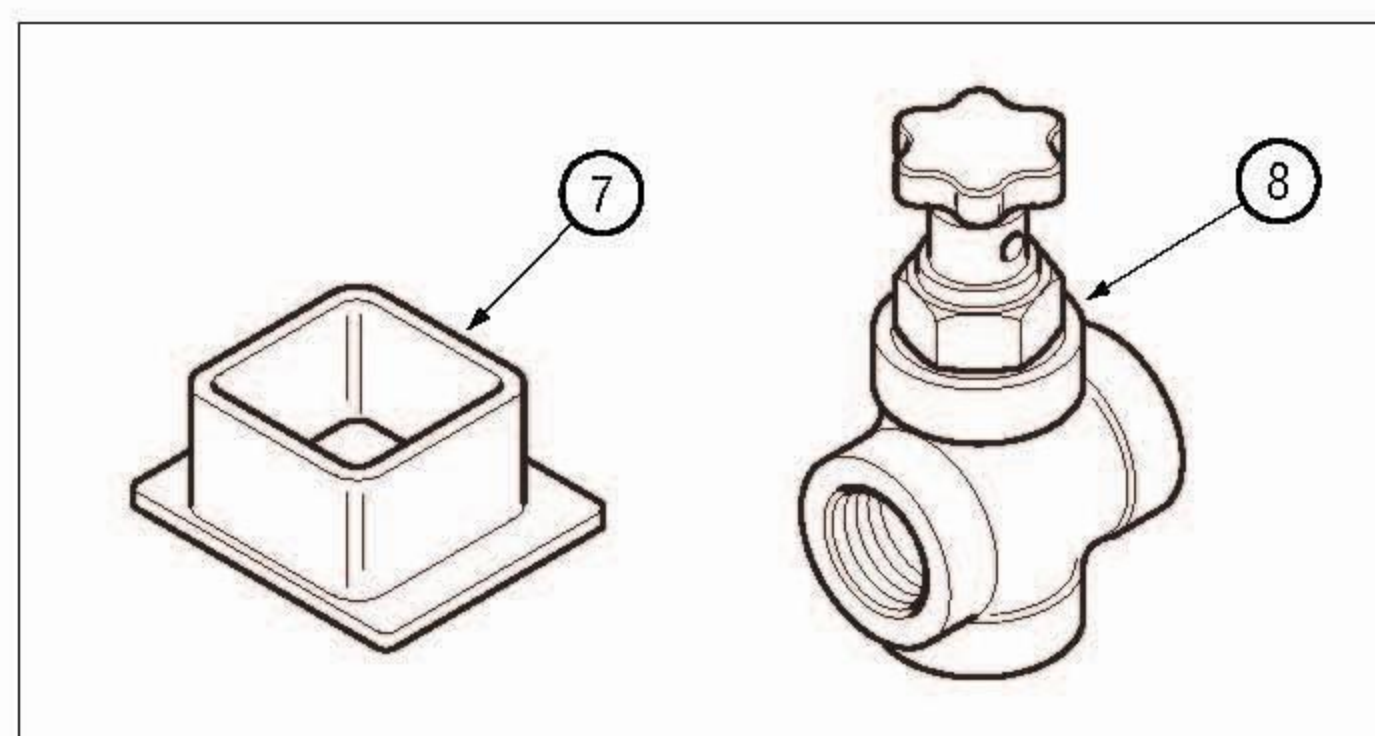
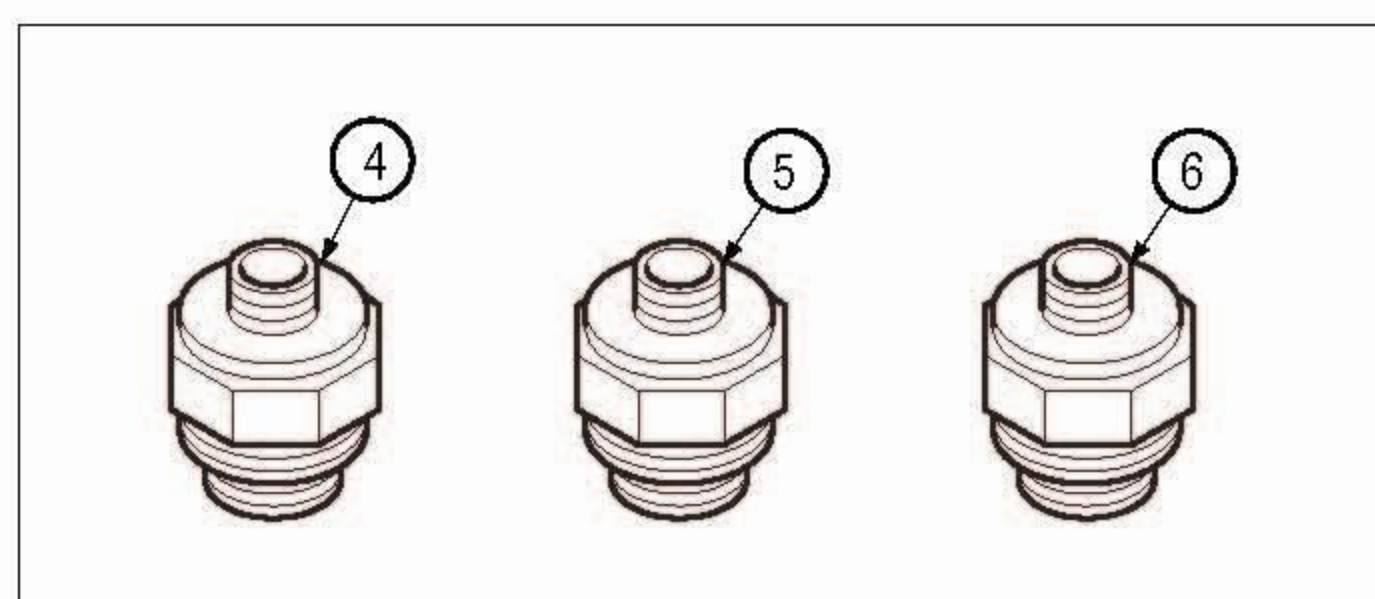
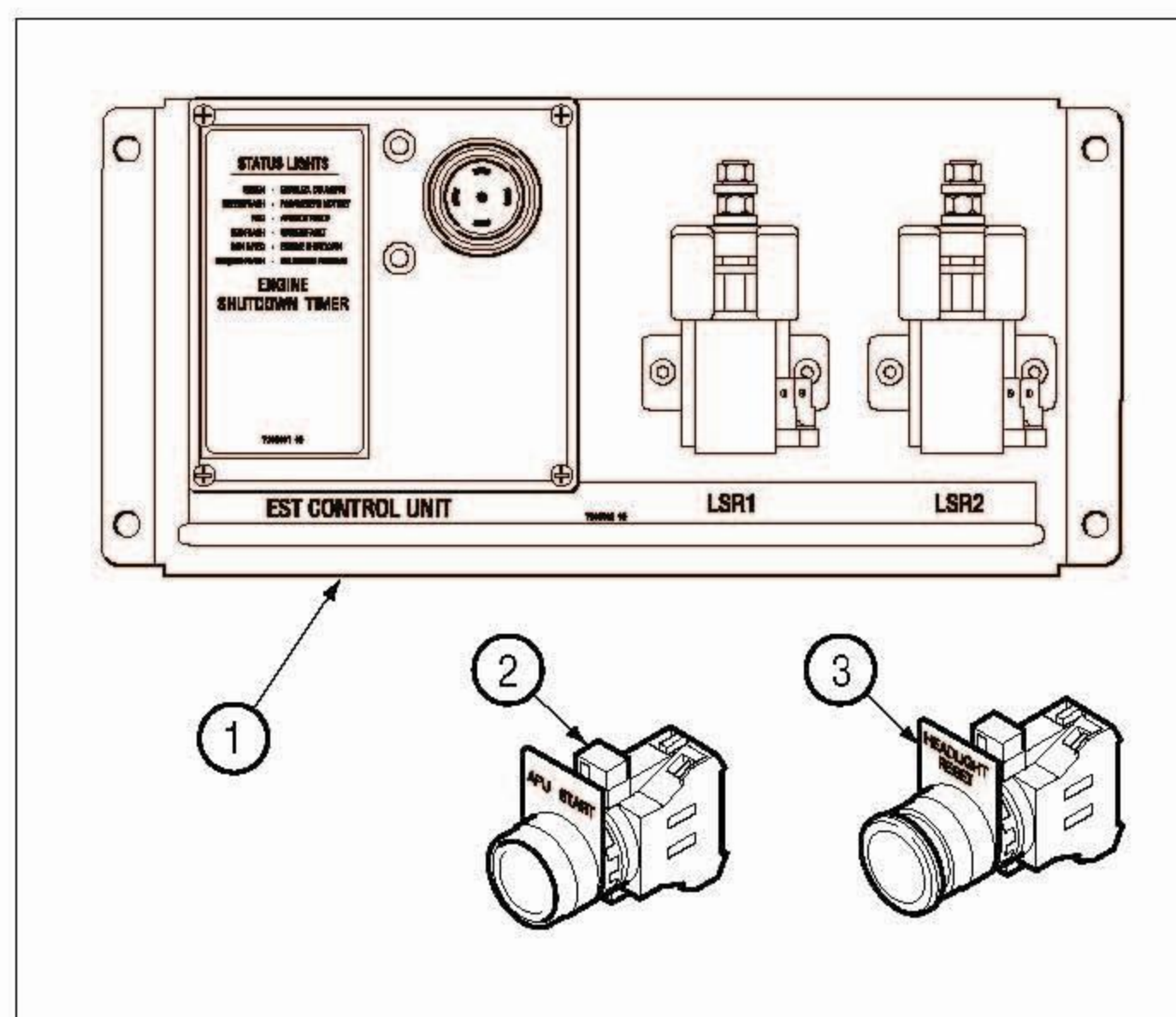


ITEM	PART#	DESCRIPTION	REQ.
1	82-963-15K	Harness, APU Control to Engine ECU - PR0030	1
	82-963-10K	Harness, APU Control to Engine ECU - PR0035	1
	82-963-20K	Harness, APU Control to Engine ECU - PR0040	1
2	82-964-15K	Harness, APU Control to 240 Generator - PR0030	1
	82-964-10K	Harness, APU Control to 240 Generator - PR0035	1
	82-964-20K	Harness, APU Control to 240 Generator - PR0040	1
3	82-967-15K	Harness, APU Control to Water Pump - PR0030	1
	82-967-10K	Harness, APU Control to Water Pump - PR0035	1
	App. Specific	Harness, APU Control to Water Pump - PR0040	1
4	82-965-15K	Harness, APU Control to Water Heaters - PR0030	1
	82-965-10K	Harness, APU Control to Water Heaters - PR0035	1
	82-965-20K	Harness, APU Control to Water Heaters - PR0040	1

ITEM	PART#	DESCRIPTION	REQ.
5	82-232-15K	Harness, APU Control to Oil Heater - PR0030	1
	82-232-10K	Harness, APU Control to Oil Heater - PR0035	1
	82-232-20K	Harness, APU Control to Oil Heater - PR0040	1
6	82-961-15K	Harness, APU Control to 74 VDC BC - PR0030	1
	82-961-10K	Harness, APU Control to 74 VDC BC - PR0035	1
	82-961-20K	Harness, APU Control to 74 VDC BC - PR0040	1
7	82-962-15K	Harness, APU Control to 240 VAC BC - PR0030	1
	82-962-10K	Harness, APU Control to 240 VAC BC - PR0035	1
	82-962-20K	Harness, APU Control to 240 VAC BC - PR0040	1
8	82-966-15K	Harness, APU Control to 12 VDC Battery - PR0030	1
	82-966-10K	Harness, APU Control to 12 VDC Battery - PR0035	1
	82-966-20K	Harness, APU Control to 12 VDC Battery - PR0040	1



PR SERIES RAIL APU OPTIONAL EQUIPMENT



ITEM	PART#	DESCRIPTION	REQ.
1	89-576-01K	EST (Engine Shutdown Timer), Q-Tron NLA, Use 89-980-01K (item 11)	-
2	89-581-01K	Switch, APU Start (Cab)	-
3	89-582-01K	Switch, Headlight Reset	-
4	89-281-01K	Sensor, Temperature, WTS1	-
5	89-282-01K	Sensor, Temperature, WTS2	-
6	89-382-01K	Sensor, Temperature, Cab	-
7	89-846-01K	Square Electrical Grommet	-
8	89-716-01K	Valve, Water Dump	-
9	RK0083	Cab Heater (Not Shown)	-

ITEM	PART#	DESCRIPTION	REQ.
10	89-945-01K	Alarm Beacon (Not Shown)	-
11	89-048-01K	Bracket, Alarm Beacon (Not Shown)	-
12	82-980-01K	EST (Engine Shutdown Timer) Quantum, Complete	-
13	82-982-01K	EST Module	-
14	82-982-10K	EST, Interface Panel, Quantum	-
15	82-982-20K	Cable, 74 VDC, 15ft., Quantum	-
16	82-982-30K	Cable, 12 VDC, 15ft., Quantum	-



ITEM	PART#	DESCRIPTION	REQ.
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NUMERIC PARTS INDEX



PART#	DESCRIPTION	PAGE#	PART#	DESCRIPTION	PAGE#
225-004-01K	Bolt, 10/pkg	4	82-386-10K	Frame, Cross Member	1, 3
25-013-01K	Washer, Lock, 10/pkg	4	82-419-01K	Fitting, Constant Bleed Valve	4
25-015-01K	Nut, Nyloc®, 10/pkg	4	89-427-01K	Latch, Access Door	15
25-016-01K	Washer, Flat, 10/pkg	1, 2, 3, 4, 6, 9, 10, 15	82-436-01K	Bracket, OLCV (Oil Level Control Valve)	8
25-021-01K	Nut, Nyloc®, 10/pkg	1, 2, 3, 4, 6, 9, 10, 15	82-449-50K	Guard, c/w gasket	6
25-023-01K	Bolt, 10/pkg	4, 6, 8	82-451-01K	Base, Generator	1, 2, 3
25-024-01K	Bolt, 10/pkg	10	82-452-01K	Bracket, Mid Support, LHS	1, 2, 3
25-025-01K	Bolt, 10/pkg	15	82-453-01K	Bracket, Mid Support, RHS	1, 2, 3
25-033-01K	Bolt, 10/pkg	4	82-510-06K	Hose, Oil Filter Head to Adaptor, PR0030	8
25-045-01K	Bolt, 10/pkg	1, 2, 3, 6	82-631-10K	Harness, 74 VDC, Sensing	15
25-051-01K	Washer, Lock, 10/pkg	1, 2, 3, 6	82-632-10K	Harness, 240VAC, Sensing	15
25-052-01K	Washer, Flat, 10/pkg	1, 2, 3, 6, 9	82-633-10K	Harness, Auto/Switch	15
25-053-01K	Nut, Nyloc®, 10/pkg	1, 2, 3, 6, 9	82-636-20K	Bracket, Battery Mount	3
25-093-01K	Washer, Flat, 10/pkg	4	82-673-02K	Check Valve, Pressure Line	8
25-143-01K	Bolt, Gen. to Engine, 12/pkg	13	82-682-15K	APU DC Control Board, RS232 Communication Enabled	15
25-155-01K	Washer, Flat, 10/pkg	4	82-682-10K	APU DC Control Board	15
25-262-01K	Bolt, Gen Shaft to Engine, 8/pkg	13	82-683-10K	APU AC Control Board	15
25-422-01K	Bolt, Metric, 10/pkg	1, 2, 3	82-684-01K	Harness, Modem, MT2000	19
25-451-02K	Bolt, 10/pkg	6, 9	82-686-10K	Power Pack, Modem, MT2000	19
25-544-01K	Stand-off, Electrical	15	82-688-01K	Harness, 12 Pin	15
26-086-01K	Fuse, 20 Amp, 10/pkg	15	82-689-01K	Harness, 24 Pin	15
26-182-01K	Terminal Block, 12 Pole	15	82-704-01K	Bracket, Switch, Manual/Enable	15
26-182-02K	Terminal Block, Cover	15	82-705-01K	Switch, Manual/Enable	15
26-185-01K	Terminal Block, 20 Pole	15	82-706-01K	Switch, 2 Hour Run	15
27-005-01K	Clamp, Fuel Hose, 10/pkg	4	82-711-15K	Cable, Battery Positive to Engine Starter	14
27-052-60K	Clamp, Hose, 10/pkg	5	82-712-15K	Cable, Battery Negative to Engine Ground	14
80-053-00K	Rad Cap	5	82-725-51K	Frame, Base	1, 2
82-222-01K	Switch, Oil Overhaet	10	82-725-60K	Frame, Base	3
82-223-01K	Switch, Temperature	10	82-726-01K	Frame, Rear Vertical	1, 3
82-224-01K	Bracket, Oil Filter Head, PR0040	8	82-727-01K	Tank, Oil Make-Up, PR0030/PR0040	9
82-232-10K	Harness, APU Control to Oil Heater - PR0035	16	82-728-01K	Tank, Pressure, Oil, PR0030	8
82-232-15K	Harness, APU Control to Oil Heater - PR0030	16	82-728-20K	Tank, Pressure, Oil, PR0040	8
82-232-20K	Harness, APU Control to Oil Heater - PR0040	16	82-729-01K	Frame, Front Plate	1
82-240-20K	Mounting Channel, 1/pkg	3	82-729-20K	Frame, Front Plate	3
82-242-01K	Bracket, Oil Filter Head, PR0030	8	82-741-01K	Fuel Line, M.E. Supply & Return	4
82-243-01K	Bracket, Fuel Filter, PR0030 & 35	4	82-931-01K	Bracket, Heater Tank Mounting, PR0040	10
82-243-02K	Bracket, Fuel Filter, PR0040	4	82-932-01K	Bracket, Mounting LH	15
82-266-02K	Fitting, Elbow	6	82-933-01K	Bracket, Mounting RH	15
82-320-01K	Muffler, Exhaust	11	82-934-07K	Foam Pad, Battery	1, 2, 3
82-330-02K	Hose, Coupling	5	82-961-10K	Harness, APU Control to 74 VDC BC - PR0035	16
82-330-04K	Hose, CT to HE, PR0030/PR0035	5	82-961-15K	Harness, APU Control to 74 VDC BC - PR0030	16
82-330-06K	Hose, Pipe to HE	5	82-961-20K	Harness, APU Control to 74 VDC BC - PR0030	16
82-330-07K	Hose, CT to HE, PR0040	5	82-962-10K	Harness, 240 VAC	16, 17
82-330-50K	Hose, Elbow	5	82-962-15K	Harness, APU Control to 240 VAC BC - PR0030	16
82-339-01K	Fitting, Street, PR0030/PR0040 ONLY	9, 10	82-962-20K	Harness, APU Control to 240 VAC BC - PR0030	16
82-345-02K	Hose, CT to Engine, PR0030/PR0035	5	82-963-10K	Harness, APU Control to Engine ECU - PR0035	16
82-373-01K	Lockout, Switch	15			
82-380-10K	Frame, Front Horizontal	1, 3			
82-382-10K	Frame, Mid Horizontal, LHS	1			
82-382-20K	Frame, Mid Horizontal, LHS	3			
82-383-10K	Frame, Mid Horizontal, RHS	1, 3			

NUMERIC PARTS INDEX



PART#	DESCRIPTION	PAGE#	PART#	DESCRIPTION	PAGE#
82-963-15K	Harness, APU Control to Engine ECU - PR0030	16	86-683-01K	Frame, Mid Horizontal, LHS	2
82-963-20K	Harness, APU Control to Engine ECU - PR0040	16	86-684-01K	Frame, Mid Horizontal, RHS	2
82-964-10K	Harness, APU Control to 240 Generator - PR0035	16	86-685-01K	Frame, Cross Member	2
82-964-15K	Harness, APU Control to 240 Generator - PR0030	16	86-686-01K	Frame, Rear Vertical, RHS	2
82-964-20K	Harness, APU Control to 240 Generator - PR0040	16	86-687-01K	Frame, Rear Vertical, LHS	2
82-965-10K	Harness, APU Control to Water Heaters - PR0035	16	86-688-01K	Frame, Rear Horizontal	2
82-965-15K	Harness, APU Control to Water Heaters - PR0030	16	86-689-01K	Frame, Front Plate	2
82-965-20K	Harness, APU Control to Water Heaters - PR0040	16	86-690-01K	Fuel Line, Filter to Fuel Pump	4
82-966-10K	Harness, APU Control to 12 VDC Battery - PR0035	16	86-691-01K	Fuel Line, Engine Return to Check Valve, c/w loom	4
82-966-15K	Harness, APU Control to 12 VDC Battery - PR0030	16	86-700-00K	Tank, Pressure, Oil, PR0035	8
82-966-20K	Harness, APU Control to 12 VDC Battery - PR0040	16	86-701-00K	Tank, Oil Make-Up, PR0035	9
82-967-10K	Harness, APU Control to Water Pump - PR0035	16	86-703-01K	Bracket, Battery Mount	1, 2
82-967-15K	Harness, APU Control to Water Pump - PR0030	16	86-704-01K	Cross Brace, Battery	1, 2, 3
82-980-01K	EST (Engine Shutdown Timer) Quantum, Complete	18	86-705-01K	Hold Down Rod, Battery, 1/pkg	1, 2, 3
82-982-01K	EST Module	18	86-710-01K	Exhaust Pipe, Engine, PR0035/PR0040	11
82-982-10K	EST, Interface Panel, Quantum	18	86-715-60K	Mounting Hardware, Oil Pump	10
82-982-20K	Cable, 74 VDC, 15ft., Quantum	18	86-717-01K	Hose, Oil Adp. To Pressure Tank, PR0035	8
82-982-30K	Cable, 12 VDC, 15ft., Quantum	18	86-717-10K	Hose, Oil Adp. To Pressure Tank, PR0030	8
82-985-01K	Modem, MT3550	19	86-717-20	Hose, Oil Adpt.to Pressure Tank, PR0040	8
82-995-10K	PR Series Controller, Complete	15	86-718-01K	Hose, Pressure Tank to Filter Head, PR0035	8
82-996-10K	Harness, Modem MT3550	19	86-718-10K	Hose, Pressure Tank to Filter Head, PR0030	8
86-111-01K	Fitting, Oil Pan	7	86-718-20K	Hose, Pressure Tank to Filter Head, PR0040	8
86-123-02K	Drain Assembly, Oil, PR0030/PR0035	7	86-718-25K	Hose, Oil Drain to OLC Valve, PR0035	7
86-123-03K	Drain Assembly, Oil, PR0040	7	86-718-30K	Hose, Oil Drain to OLC Valve, PR0030	7
86-129-01K	Fitting, Adaptor, Straight	8	86-719-01K	Hose, Oil Filter Head to Adaptor, PR0035	8
86-140-01K	Bracket, Exhaust Pipe, PR0030	11	86-719-20K	Hose, Oil Filter Head to Adaptor, PR0040	8
86-141-01K	Exhaust Pipe, Engine, PR0030	11	86-721-01K	Hose, Intake, PR0035	12
86-143-01K	Bracket, Mount, Water Pump, PR0030/PR0040	6	86-722-02K	Hose, OLCV to Make-Up Tank, PR0035	9
86-201-01K	Valve, Drain	7	86-722-10K	Hose, OLCV to Make-Up Tank, PR0030/PR0040	9
86-202-01K	Fitting, Hose Barb, PR0030/PR0040	9	86-723-10K	Hose, Oil Drain to OLC Valve, PR0040	7
86-210-01K	Engine Mount, Front, LHS	1, 2, 3	86-724-01K	Hose, Oil Pump to Oil Heater, PR0035	10
86-211-01K	Engine Mount, Front, RHS	1, 2, 3	86-724-10K	Hose, Oil Pump to Oil Heater, PR0030	10
86-320-01K	OLCV (Oil Level Control Valve)	9	86-724-20K	Hose, Oil Pump to Oil Heater, PR0040	10
86-417-01K	Tank, Oil Heater, PR0030/PR0040	10	86-725-01K	Pump, Locomotive Oil System	10
86-417-50K	Tank, Oil Heater, PR0035	10	86-727-01K	Gear, Oil Pump Driven	10
86-419-10K	Bracket, Heater Tank Mounting, PR0030/PR0035	10	86-728-01K	Gear, APU Oil Pump Drive	10
86-680-01K	Frame, Front Vertical, LHS	2	86-751-01K	Tube, Engine to HE, PR0030/PR0035	5
86-681-01K	Frame, Front Vertical, RHS	2	86-751-20K	Tube, Engine to HE, PR0040	5
86-682-01K	Frame, Front Horizontal	2	86-751-30K	Tube, CT to Engine, PR0040	5
			86-753-01K	Hose, HE to WP, PR0035	6
			86-753-10K	Hose, HE to WP, PR0030	6
			86-753-30K	Hose, HE to WT, PR0030	6
			86-754-01K	Hose, HE to WT, PR0035	6
			86-754-20K	Hose, HE to WT, PR0040	6
			86-756-01K	Fitting, Reducer	6
			86-757-01K	Fitting, T	6
			86-758-01K	Hose, WP Drain	6
			86-759-01K	Hose, WH Tank Drain, PR0035	6
			86-759-10K	Hose, WH Tank Drain, PR0030	6

NUMERIC PARTS INDEX



PART#	DESCRIPTION	PAGE#	PART#	DESCRIPTION	PAGE#
86-760-01K	Tank, Water Heater	6	89-281-01K	Sensor, Temperature, WTS1	6, 18
86-769-01K	Fitting, Elbow	6	89-282-01K	Sensor, Temperature, WTS2	18
86-770-40K	Mounting Kit	17	89-284-03K	Pump Head	6
86-777-01K	Clamp, P, 10/pkg	5	89-345-01K	Element, Oil Heater	10
89-001-01K	Tank, Coolant, PR0030/PR0035	5	89-350-01K	Heater Element	6
89-001-20K	Tank, Coolant, PR0040	5	89-377-01K	Bracket, Fuel Pump, Transfer	4
89-007-01K	Coupling	6	89-382-01K	Sensor, Temperature, Cab	18
89-040-05K	Mounting Channel, 1/pkg	1, 2	89-391-70K	Isolator Mounts, 4/pkg	1, 2, 3
89-048-01K	Bracket, Alarm Beacon	18	89-416-01K	Fitting, Nipple	6
89-083-03K	Hose, Oil Drain	7, 9	89-417-02K	Valve, Ball	6
89-096-15K	Terminal Block, 10 Pole	15	89-432-01K	Fuel Pump, Transfer	4
89-100-04K	Dipstick Guide	7	89-457-01K	O-Ring, Heater Element 10/pkg	6
89-100-04K	Fitting, Hose	7	89-483-01K	Ground Strap	14
89-124-01K	Fuel Solenoid, c/w Wiring	14	89-529-50K	Hose, Intake, PR0030/ PR0040	12
89-155-01K	Fuel Suction Assembly	4	89-576-01K	EST (Engine Shutdown Timer), Q-Tron	18
89-158-01K	Sensor, Temperature	6	89-581-01K	Switch, APU Start (Cab)	18
89-159-01K	Sensor, Overheat	6	89-582-01K	Switch, Headlight Reset	18
89-160-02K	Breaker, 15 Amp, Single Pole, OH	15	89-625-01K	Fuse, 40 Amp, 10/pkg	15
89-160-03K	Breaker, 20 Amp, CH / WH / BC	15	89-625-11K	Fuse, 5 Amp, Mini, 10/pkg	15
89-160-17K	Busbar Assembly	15	89-625-12K	Fuse, 2 Amp, Mini, 10/pkg	15
89-160-27K	Breaker, 15 Amp, Water Pump	15	89-638-01K	Junction Box	17
89-160-28K	Breaker, 60 Amp, Generator	15	89-639-01K	Harness, 72 VDC	17
89-164-01K	Fuel Pick-up	4	89-695-10K	Clamp, Breakers, Din Rail	15
89-165-01K	Flange, Fuel Pick-up	4	89-711-02K	Fitting, Adaptor, PR0035	10
89-167-01K	Washer, 10/pkg	1, 2, 3	89-711-05K	Fitting, Elbow	8
89-168-01K	Bolt, 10/pkg	1, 2, 3	89-711-10K	Fitting, Inlet	10
89-202-02K	Water Pump, Electric	6	89-711-11K	Fitting, Reducer	9
89-203-01K	Bracket, Mt., Water Pump, PR0035	6	89-711-12K	Fitting, Elbow, Hose	4
89-204-01K	Electric Motor	6	89-711-13K	Fitting, Adaptor	4
89-210-50K	Breather/Dipstick, Make-Up Tank	9	89-711-14K	Fitting, Tube, Elbow	4
89-213-03K	Heat Exchanger	5, 6	89-711-15K	Fitting, Tube, Elbow	4
89-230-02K	120/240 VAC Generator	13	89-711-16K	Fitting, Elbow, Hose	4
89-230-21K	Regulator, Electrical	13	89-711-17K	Fitting, T	4
89-230-22K	Fan	13	89-711-19K	Fitting, Tube, Straight	4
89-230-23K	Cover, Regulator	13	89-711-20K	Fitting, Tube, Straight	4
89-230-24K	Back Plate	13	89-711-21K	Fitting, Adapter, PR0030/PR0040	10
89-230-25K	Cover, Air Outlet	13	89-711-27K	Fitting, Reducer	9
89-230-26K	Screw, Air Outlet Cover, 10/pkg	13	89-711-30K	Fitting, Elbow	6
89-230-27K	Cover, Air Intake	13	89-716-01K	Valve, Water Dump	18
89-230-28K	Screws, Covers, 20/pkg	13	89-728-01K	Filter, Oil	8
89-230-29K	Grommet	13	89-736-01K	Fitting, Union	6
89-230-30K	Drive Plate Set	13	89-739-02K	Fitting, Elbow	6
89-230-31K	Bolt, 10/pkg	13	89-745-01K	Adaptor, Filter, Engine	8
89-230-32K	Washer, Lock, 10/pkg	13	89-746-01K	Filter Head, Oil	8
89-230-33K	Diode Pack, 1/pkg	13	89-748-01K	Fitting, Elbow	8, 9
89-242-01K	Fitting, Tank Inlet	10	89-748-05K	Fitting, Plug	9
89-249-01K	Bracket Support, PR0030/PR0040	6	89-748-06K	Fitting, Adaptor, Straight	8
89-251-01K	Battery Charger, TR	17	89-758-02K	Seal, Water Pump	6
89-253-01K	Isolator, Rubber Mount, 1/pkg	15	89-824-01K	Clamp, Hose, 10/pkg	7, 9
89-276-01K	Filter Head, Fuel	4	89-846-01K	Square Electrical Grommet	18
89-277-01K	Filter, Fuel	4	89-866-05K	Exhaust, Vertical Tube	11

NUMERIC PARTS INDEX

PART#	DESCRIPTION	PAGE#
89-866-06K	Exhaust, Horizontal Tube	11
89-866-13K	Exhaust, Elbow	11
89-887-01K	Exhaust, Expansion Joint	11
89-889-01K	Exhaust, Clamps	11
89-945-01K	Alarm Beacon	18
94-008-01K	Gasket, Thermostat, APU Engine	5
94-010-01K	Gasket, Oil Pan	7
94-011-01K	Oil Pan	7
94-101-01K	Fuel Pump, APU Engine	4
94-102-01K	Fuel Injector, 1/pkg	4
94-103-01K	Fuel Injection Pump, APU Engine	4
94-104-01K	Belt, Pump, Coolant/Alternator	5
94-105-01K	Pump, Coolant, APU Engine	5
94-106-01K	Gasket, Pump, Coolant APU Engine	5
94-107-01K	Thermostat, APU Engine	5
94-108-01K	Thermostat Housing, APU Engine	5
94-112-01K	Alternator, 12 VDC	14
94-113-01K	Starter, 12 VDC	14
94-114-01K	ECU, Engine Control Module	14
94-116-01K	Overheat Sensor, APU Engine	5
94-117-01K	Sensor, Engine RPM	14
94-118-01K	Temperature Sender, APU Engine	5
94-119-01K	Gasket, Exhaust Pipe	11
94-120-05K	Pump Holder	10
94-120-20K	Seal Kit, Includes 3 O-Rings	10
94-121-01K	Air Intake Assembly, includes:	12
94-122-01K	Air Filter	12
94-126-01K	Dip Stick	7
96-101-25K	Check Valve, Fuel Return	4
96-949-00K	Sensor, Oil	8
RK0005	Switch, Emergency, ON/OFF	15
RK0046	Cab Sensor Assembly, c/w Bracket	19
RK0083	Cab Heater	18



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