



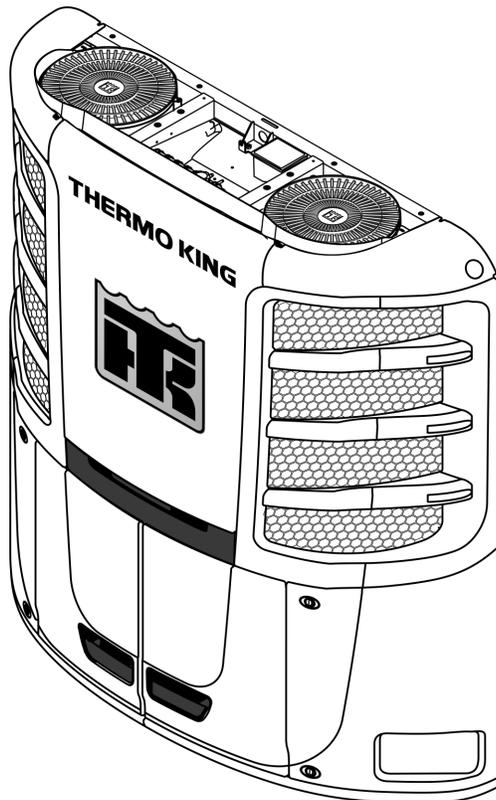
*Parts Manual*

# PRECEDENT S-700

TK 55845-2-PM (Rev. 0.0)

# PRECEDENT S-700

TK 55845-0.0



Printed: February 6, 2014

Copyright © 2014 - Thermo King Corp. - Minneapolis, MN U.S.A.

Printed in U.S.A.

# General Information

## Tables of Contents

This Parts Manual contains a numerical table of contents listing each assembly name, its associated Grid number and page number. The numerical table of contents is arranged numerically by Grid number. There are references in a parts list referring to other Grid numbers; the numerical table of contents is arranged to facilitate finding the referenced illustrations.

## Assemblies and Subassemblies

When parts are indented in the description list, they are preceded with an asterisk (\*). This indicates that the part(s) is available separately or included in an assembly.

### GRID NO. 67D6

#### SWITCH PANEL ASSEMBLY

REF	PART#	DESCRIPTION	QTY
	45-1239	PANEL - assy, switch	1
1	99-1960	*PANEL	1
	99-6280	**NAMEPLATE - panel	1
2	33-743	*GASKET	1

**For example:** The Switch Panel Nameplate (99-6280) is available separately, available as part of the Switch Panel (99-1960) and with the Panel Assembly (45-1239).

## ABBREVIATIONS: *The following abbreviations appear in Parts Manuals.*

<b>A</b> AC .....alternating current	<b>E</b> exp .....expansion	<b>P</b> pcb .....printed circuit board
A/R .....as required	ext .....external	pkg .....package
accum.....accumulator	<b>F</b> F.....Fahrenheit	ph .....phase
adj .....adjusting	fill.....fillister	pos .....positive
al .....aluminum	fi .....fuel injection	psi .....pounds per square inch
alt .....alternator	fl .....flare	<b>R</b> rad .....radiator
A or amp.....ampere	fpt.....female pipe thread	rcvr .....receiver
assy.....assembly	ft .....feet	ref .....reference
<b>B</b> bd .....board	ftg .....fitting	reg .....regulator
brg .....bearing	<b>G</b> gal .....gallon	req .....required
brkr .....breaker	<b>H</b> hex .....hexagon	rpm.....revolutions per minute
brkt .....bracket	hh .....hexagon head	<b>S</b> sec.....second
<b>C</b> C .....Celsius	hd .....head	sld .....solder
cw.....clockwise	hp .....horsepower	soc hd.....socket head
ccw.....counter-clockwise	hsg .....housing	sol .....solenoid
cam .....camshaft	<b>I</b> id .....inside diameter	spl .....special
cm .....centimeters	in .....inch (2.54 cm)	sq .....square
compr .....compressor	incl.....includes	ss .....stainless steel
cond .....condenser	inj .....injection	std .....standard
conn .....connecting, connector	int .....internal	stl .....steel
cyl.....cylinder	int th .....internal tooth	suct.....suction
<b>D</b> def .....defrost	<b>K</b> kW .....kiloWatt	sw.....switch
deg .....degree	<b>L</b> L.....Liter (Litre)	<b>T</b> term.....terminal
dehyd .....dehydrator	liq .....liquid	temp .....temperature
dia .....diameter	lg .....long	thk .....thick
DC.....direct current	<b>M</b> M.....Meter	TSA .....Transport Solutions Americas
disch.....discharge	mm .....millimeter	<b>U</b> us .....undersize
diff .....differential	mpt.....male pipe thread	<b>V</b> vib .....vibrasorber
<b>E</b> EMI.....Extended	mod .....modulating	V.....Volt
Maintenance Interval	<b>N</b> neg .....negative	<b>W</b> W.....watt
EMEIA.....Europe, Middle East, India and Africa	No .....number	w/ .....with
eng .....engine	NS .....not supplied	w/o.....without
exch.....exchanger	NSS.....not sold separately	
	os .....oversized	
	od .....outside diameter	

# Contents

Title	Grid	Page
PRECEDENT S-700 REFERENCE SHEET.....	19U52 .....	6
COMPRESSOR GASKET SET (30-243, X430).....	131F1 .....	78
Cargo Watch HARNESSSES AND SENSORS.....	189C0 .....	134
COMPRESSOR OIL FILTER KIT (20-184).....	212B7 .....	82
COMPRESSOR - X430 LS C5.....	223C5 .....	72
STATUS/TEMPERATURE/FUEL LEVEL DISPLAYS.....	226E6 .....	128
COMPRESSOR OIL BOTTLE.....	242D0 .....	80
FLUSH MOUNT CONTROLLER.....	256H4 .....	132
AIR CLEANER GROUP S-600/700.....	260E1 .....	36
FUEL FILTER & HOSES S-600/700.....	260E2 .....	32
MUFFLER GROUP.....	260E3 .....	38
ENGINE GASKETS (TK488CR).....	260E5 .....	28
CONDENSER FANS GROUP.....	261A0 .....	58
COMPRESSOR GROUP - X430 (LS C5).....	261A9 .....	70
CONTROL BOX - ECU S-600/S-700.....	261B0 .....	94
EVAPORATOR AND PANELS.....	261B1 .....	154
REFRIGERATION EVAPORATOR.....	261B2 .....	68
CONDENSER COIL MOUNTING.....	261B3 .....	84
CONDENSER FRAME & EVAPORATOR HOUSING.....	261B6 .....	142
EVAPORATOR BLOWER GROUP.....	261B7 .....	62
CONTROL BOX - BLOWER & FANS.....	261B8 .....	92
COOLING SYSTEM.....	261B9 .....	42
TOP DOOR.....	261C0 .....	146
DRIVE GROUP.....	261C3 .....	44
GENERATOR GROUP.....	261C6 .....	54
FUEL TANK (22 IN DIAMETER, 50 GALLON ALUMINUM).....	261C9 .....	158
GRILLE GROUP.....	261D1 .....	150
FRONT DOORS.....	261D3 .....	148
PANEL GROUP.....	261D5 .....	152
NAMEPLATES, S-600/S-700.....	261D6 .....	164
BATTERY CHARGER, S-600/S-700 (OPTIONAL).....	261D7 .....	120
EVAPORATOR HEATERS.....	261D8 .....	118
STANDBY MOTOR (Smart Power).....	261D9 .....	56
POWER RECEPTACLE BOX.....	261E2 .....	100
HIGH VOLTAGE BOX.....	261E3 .....	96
HARNESS - CONTROL 30.....	261F1 .....	110
HARNESS - GENERATOR.....	261F4 .....	114
RECEIVER TANK.....	261G1 .....	86
FUEL HEATER & BLOCK HEATER (OPTIONAL).....	261G2 .....	124
MAIN HARNESS S-600/S-700 (control box).....	261G4 .....	102
MAIN HARNESS S-600/S-700 (outside control box).....	261G5 .....	104
HARNESS - CONTROL 50.....	261G6 .....	112
REB ANTENNA & BATTERY.....	261G7 .....	130
3-WAY VALVE ASSEMBLY.....	261H1 .....	88
TRANSFORMER BOX.....	261H3 .....	98
EVAPORATOR BULKHEAD (OPTIONAL).....	261H4 .....	140
AIR CHUTE (OPTIONAL).....	264H3 .....	138

# Contents

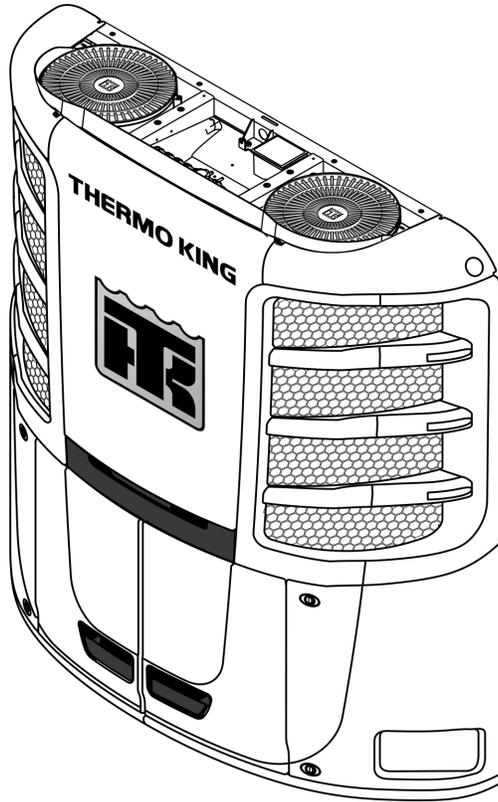
<b>Title</b>	<b>Grid</b>	<b>Page</b>
FUEL TANK (22 IN DIAMETER, 75, 110 & 120 GALLON ALUMINUM).....	267F7 .....	162
HARNESS - BATTERY CHARGER (OPTIONAL).....	267F9 .....	122
DOOR SWITCH TRAILER (CargoLink).....	267G9 .....	126
CONTROL BOX C-600/S-700.....	267H9 .....	90
HARNESS - HMI.....	270B7 .....	106
FILTER KIT, TRAILER (Precedent S-600/C-600/S-700).....	272D5 .....	30
DOORS, GRILLES & PANELS.....	272E8 .....	144
ENGINE ASSEMBLY (TK488CR).....	272F1 .....	10
CYLINDER HEAD & VALVE COVER (TK488CR).....	272F2 .....	12
FLYWHEEL HOUSING & OIL SUMP (TK488CR).....	272F3 .....	14
OIL FILTER & GEAR CASE (TK488CR).....	272F4 .....	16
INTAKE SYSTEM (TK488CR).....	272F5 .....	18
EXHAUST SYSTEM (TK488CR).....	272F6 .....	20
COOLING SYSTEM (TK488CR).....	272F7 .....	22
FUEL INJECTION SYSTEM (TK488CR).....	272F8 .....	24
STARTER & ELECTRICAL COMPONENTS (TK488CR).....	272F9 .....	26
BELT GROUP S-700 (Smart Power, compressor end).....	272H0 .....	50
ENGINE MOUNT S-700.....	272H4 .....	40
BELT GROUP S-700.....	272H5 .....	46
REFRIGERATION CONDENSER.....	272H6 .....	64
BATTERY GROUP S-700.....	272H8 .....	116
BELT GROUP S-700 (Smart Power / battery charger, coolant pump end).....	272H9 .....	52
HARNESS - FANS & BLOWER.....	275B3 .....	108
SOLENOID AND TUBING.....	275B8 .....	66
ALTERNATOR - 120A, S-700 (OPTIONAL).....	275C2 .....	136

# Contents

Title

Grid

Page



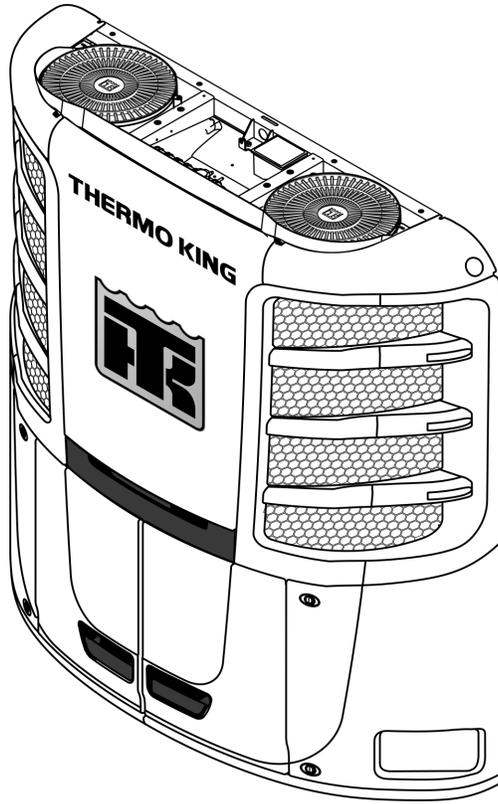
# PRECEDENT S-700 REFERENCE SHEET



# 19U52

Revised  
02/04/14

<b>B/M</b>	<b>DESCRIPTION</b>	<b>DATE</b>
901816	System PRECEDENT S-700	2/14
070005	PRECEDENT S-700	2/14
070025	Severe Duty Filter	2/14
070031	Fuel Tank 50 gallon (w/ anti siphon w/ USFLS)	2/14
070033	Fuel Tank 50 gallon (heat chamber w/ USFLS)	11/12
070034	Fuel Tank 50 gallon (polished w/ USFLS)	11/12
070073	Battery Charger	12/13
070233	Smart Power Package 12HP-230V & Battery Charger	12/13
070234	Smart Power Package 19HP-460V & Battery Charger	12/13
070142	Fuel Heater	11/12
070143	Block Heater	10/12
070147	Severe Duty Filter	1/14
070153	Severe Duty Filter	1/14
070160	Kit Rear Controller	11/12
070166	Remote Rear Receptacle 12HP-230V & 19HP-460V	12/13
070177	Arctic Package	12/13
070179	Battery Cable Smooth Post	2/14
070199	REB iBox + 3rd Party 2-Way	12/13
070201	REB iBox + T-Mobile	12/13
070203	REB GPS + WIFI + cellular	2/14
070204	REB GPS + WIFI + cellular	12/13
070205	Fuel Tank 30 gallon (w/ USFLS)	12/13
070206	Fuel Tank 75 gallon (w/ USFLS)	12/13
070207	Fuel Tank 110 gallon (w/ USFLS)	12/13
070209	Alternator 65 amp	12/13
070211	Smart Power Package 12HP-230V 37 amp	10/12
070212	Smart Power Package 12HP-460V 37 amp	2/14
070213	Smart Power Package 19HP-460V 37 amp	2/14
070214	Smart Power Package 12HP-230V 65 amp	2/14
070215	Smart Power Package 12HP-460V 65 amp	2/14
070216	Smart Power Package 19HP-460V 65 amp	2/14
070217	Smart Power Package 12HP-230V Battery Charger	2/14
070218	Smart Power Package 12HP-460V Battery Charger	2/14



**PRECEDENT S-700 REFERENCE SHEET****19U52**Revised  
02/04/14

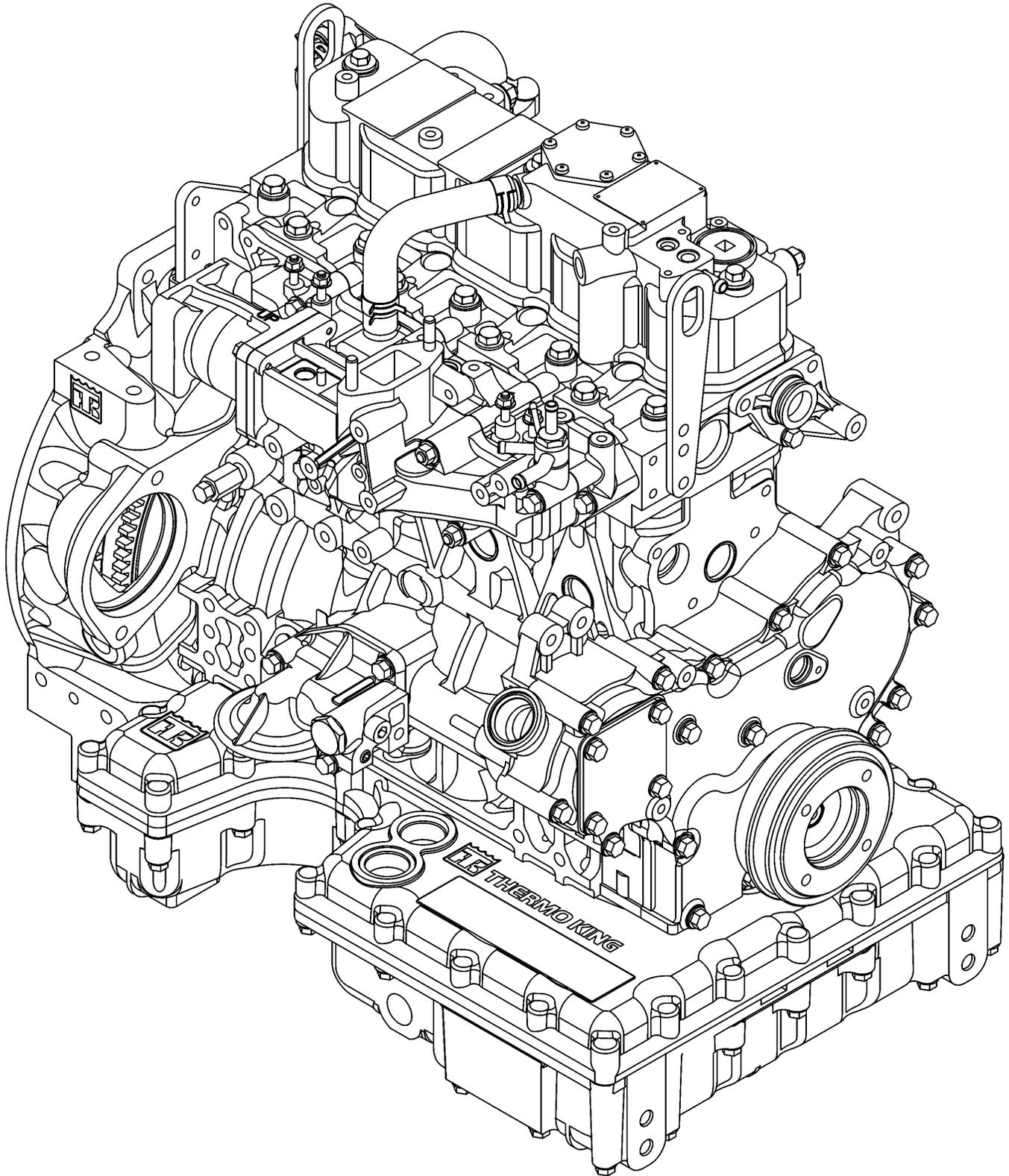
<b>B/M</b>	<b>DESCRIPTION</b>	<b>DATE</b>
070221	Smart Power Package 19HP-460V Battery Charger	2/14
070227	Prep Package 37 amp	2/14
070232	Supplemental Power w/12HP-460V Smartpower	2/14
070233	Supplemental Power w/12HP-230V Smartpower	2/14
070234	Supplemental Power w/19HP-460V Smartpower	2/14
070243	Remote Light Status	2/14
070246	REB iBox + GPS + cellular	2/14
070261	Smart Power Package	2/14
070269	Supplemental Power w/12HP-460V Smartpower	2/14
070275	Battery Cable Smooth Post	12/13
070290	Chrome Package	2/14
070298	Black Doors, Grilles & Panels	12/13
069117	CAN Harness	12/13
700248	Switch Single Door	10/12
700250	Switch Dual Doors Single Zone	10/12
702131	Remote Light Status - Fuel Combo	10/12
702390	Remote Light Status - Triple Combo	10/12
720491	HMI CargoWatch Sensor 10 ft	10/12
720492	HMI CargoWatch Sensor 20 ft	11/12
720493	HMI CargoWatch Sensor 40 ft	11/12
720494	HMI CargoWatch Sensor 60 ft	11/12
720495	HMI CargoWatch Sensor 80 ft	11/12
704114	HMI CargoWatch Sensor 20 ft (w/ high accuracy sensor)	12/13
704115	HMI CargoWatch Sensor 40 ft (w/ high accuracy sensor)	12/13
704116	HMI CargoWatch Sensor 60 ft (w/ high accuracy sensor)	12/13
808851	Unit Mounting Bolts	12/13

272F1



ENGINE ASSEMBLY (TK488CR)

Revised  
12/24/13



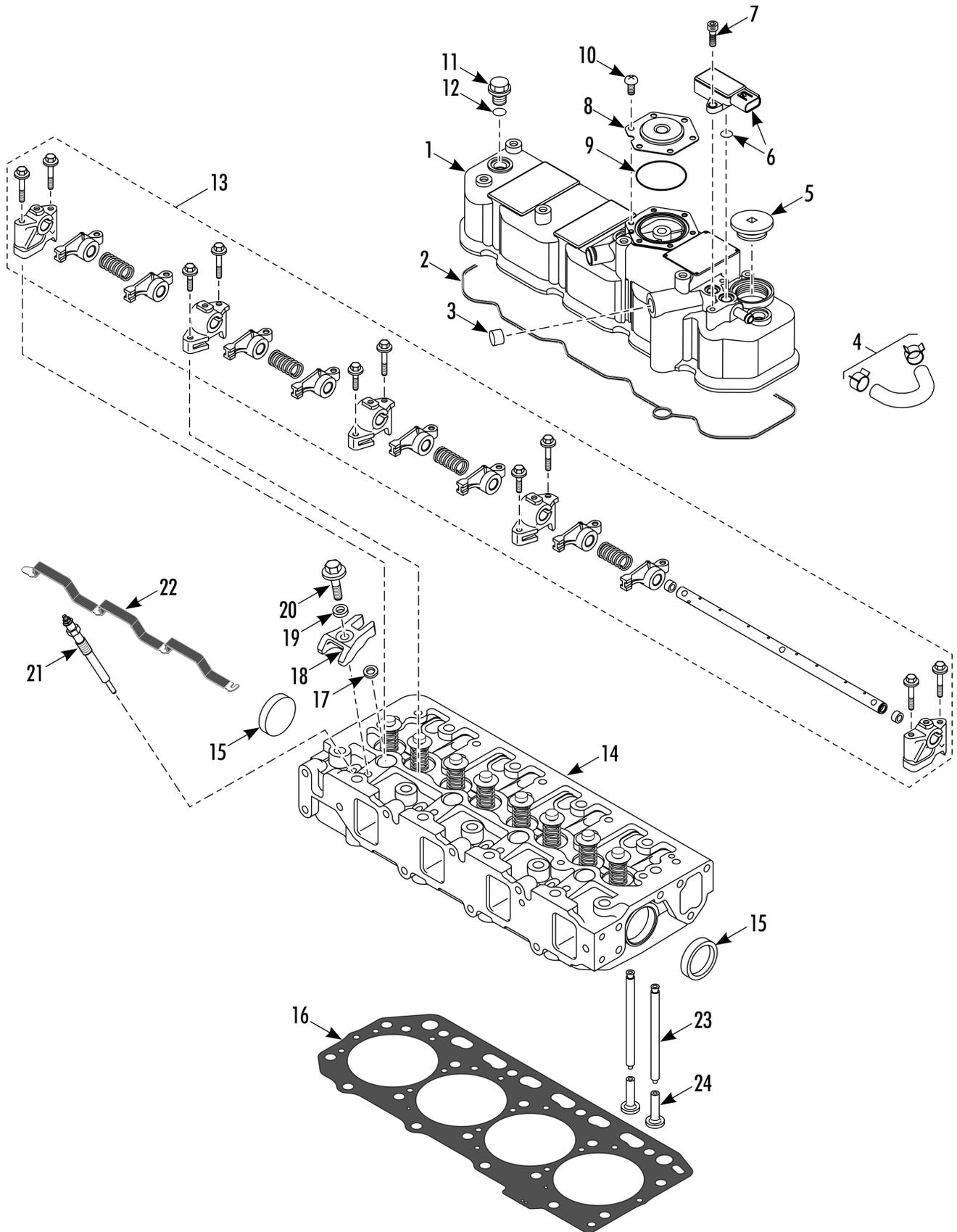
# ENGINE ASSEMBLY (TK488CR)



# 272F1

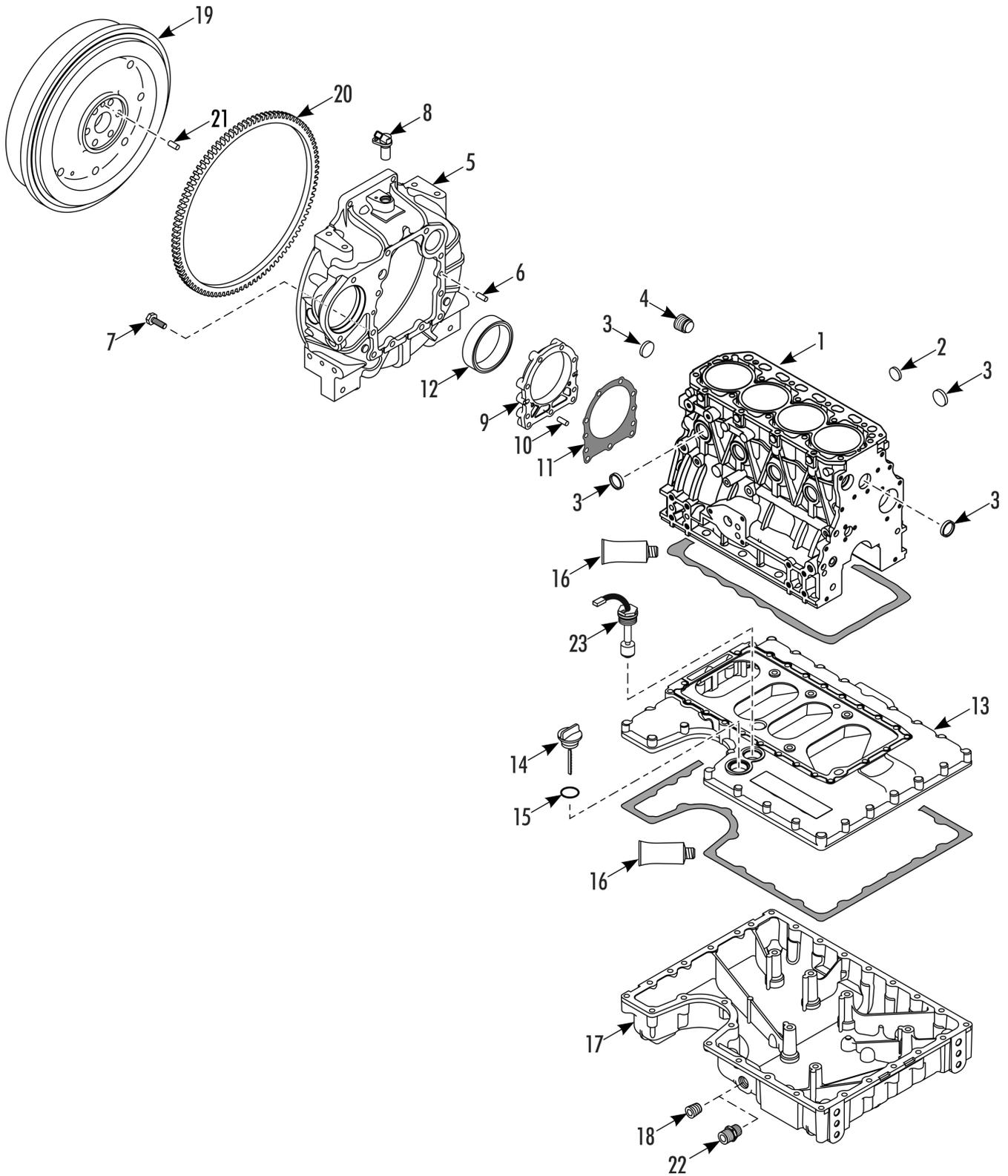
Revised  
12/24/13

REF	PART NO.	DESCRIPTION	QTY
	101-382	ENGINE - TK488CR S-600	1
	101-407	ENGINE - TK488CR S-700	1



**CYLINDER HEAD & VALVE COVER (TK488CR)****272F2**Revised  
01/09/14

<b>REF</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
1	13-1990	COVER - valve	1
2	33-4958	*GASKET - valve cover	1
3	11-6624	*PLUG	1
4	13-1261	*HOSE - exhaust (manifold to catalytic converter)	1
5	11-8923	*PLUG	1
6	42-533	*SENSOR - pressure ( inc o-ring)	1
7	55-9223	*SCREW - sensor	2
8	NSS	*PLATE - breather	1
9	33-2762	*O-RING	1
10	51-598	*SCREW - plate	6
11	11-5103	KNOB - valve cover	3
12	33-3512	O-RING	3
13	13-332	SHAFT ASSEMBLY (rocker arm)	1
14	12-1043	HEAD - cylinder (inc valves & springs)	1
15	11-6567	*PLUG - frost (40 mm)	2
16	33-5056	GASKET - head	1
17	33-4966	GASKET - injector	4
18	13-1266	RETAINER - injector	4
19	51-1151	WASHER	4
20	55-6191	SCREW - injector	4
21	42-543	GLOW PLUG	4
22	42-532	CONNECTOR - glow plug	1
23	13-2023	ROD - push	8
24	NSS	TAPPET	8



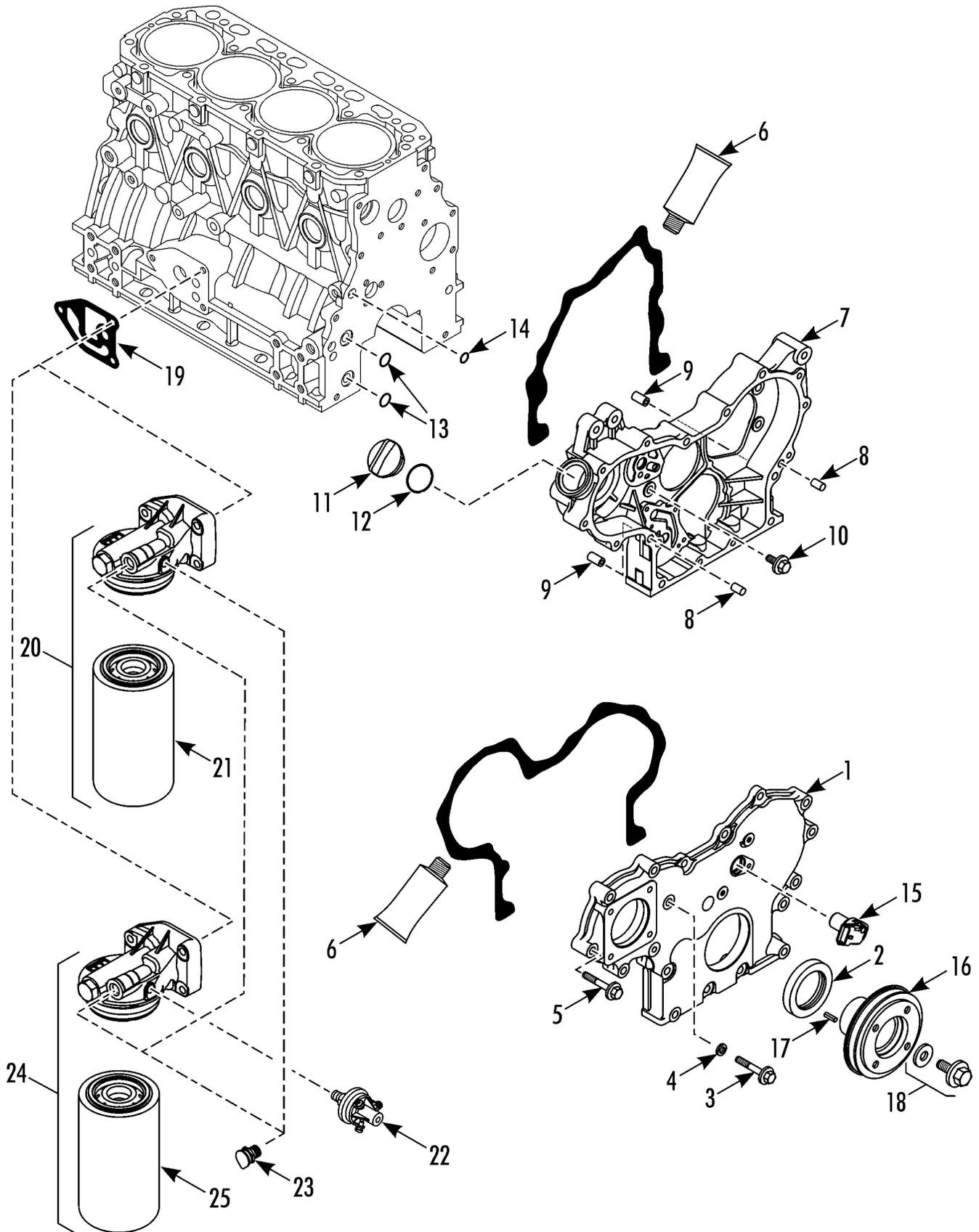
# FLYWHEEL HOUSING & OIL SUMP (TK488CR)



# 272F3

Revised  
02/05/14

REF	PART NO.	DESCRIPTION	QTY
1	NSS	BLOCK ASSY, CYLINDER	1
2	11-5499	PLUG - frost (30 mm)	8
3	51-1188	PLUG - frost (50 mm)	4
4	55-6229	PLUG	1
5	12-1040	HOUSING - flywheel	1
6	55-5816	PIN - housing	2
7	55-6537	SCREW - housing (25mm)	6
	55-8856	SCREW - housing (30 mm)	4
8	42-530	SENSOR - flywheel, rpm	1
	55-9223	SCREW - sensor	1
9	11-8924	CASE - oil seal	1
	51-1149	SCREW - case (30 mm)	6
	55-6191	SCREW - case (35 mm)	3
10	55-5816	PIN - dowel	2
11	33-2969	GASKET - case	1
12	33-2974	SEAL - oil (rear)	1
13	12-1041	OIL PAN (top)	1
	55-5809	SCREW - oil base (45 mm)	19
14	13-1270	DIPSTICK - oil	1
15	33-4090	O-RING	1
16	203-348	GASKET - liquid	A/R
17	12-1042	OIL PAN (bottom)	1
18	55-8437	*PLUG - oil drain	1
	55-6246	SCREW - oil base (25mm)	2
	55-5809	SCREW - oil base (45 mm)	17
	55-6237	SCREW - oil base (85 mm)	13
	51-1150	SCREW - oil base (120 mm)	4
19	12-1034	FLYWHEEL ASSY	1
20	13-1138	*GEAR	1
	55-8864	SCREW - flywheel	6
21	55-5816	PIN	1
22	13-1063	FITTING - oil drain w/cap	1
23	41-4470	SWITCH - oil level	1



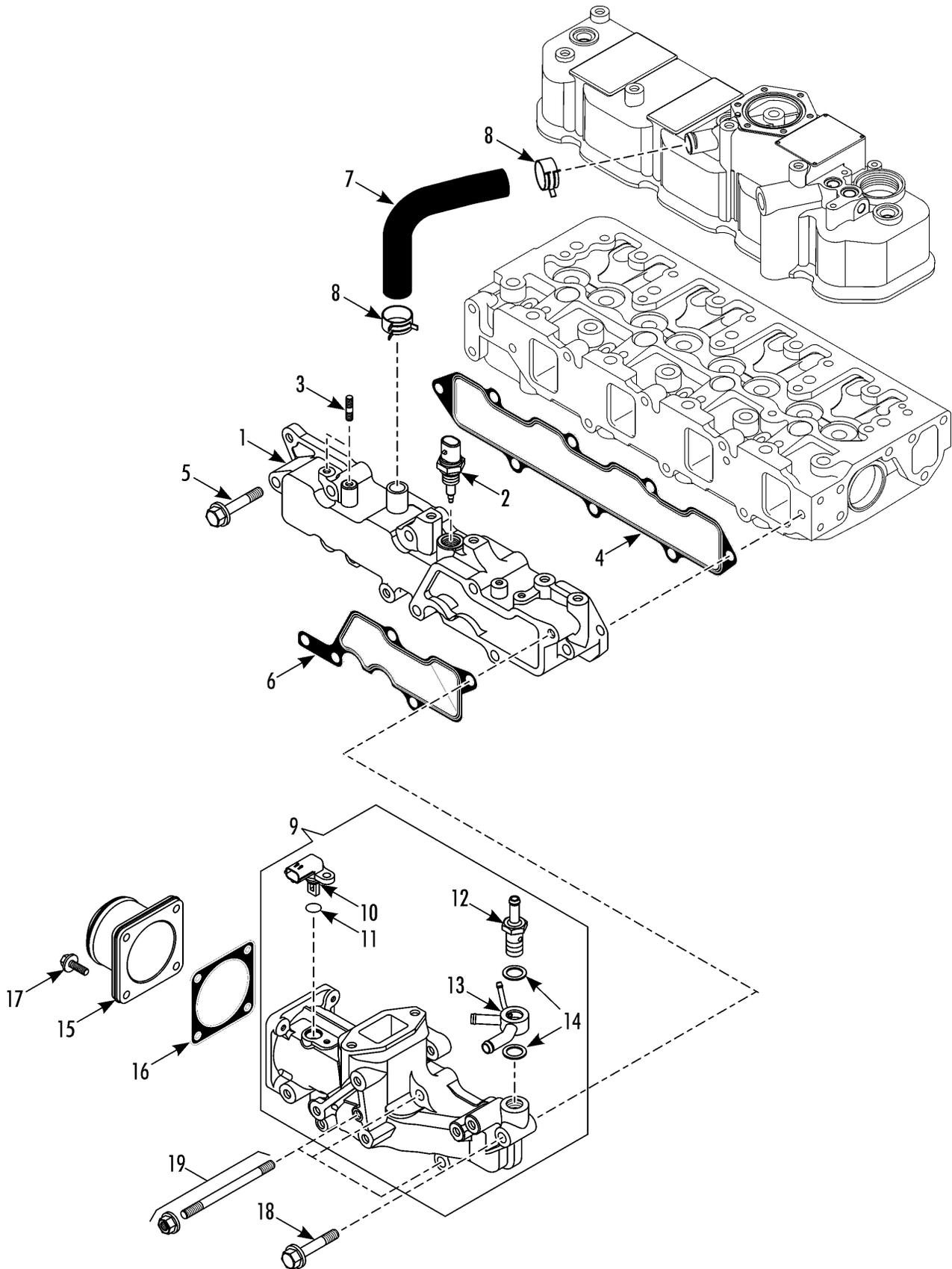
# OIL FILTER & GEAR CASE (TK488CR)



# 272F4

Revised  
02/04/14

REF	PART NO.	DESCRIPTION	QTY
1	13-1989	COVER - gear case (includes seal)	1
2	33-4088	*SEAL - oil	1
3	55-6191	SCREW - case (35 mm)	1
4	55-4622	WASHER - seal	1
5	55-6191	SCREW - case (35 mm)	1
	55-5772	SCREW - case (40 mm)	9
	55-6248	SCREW - case (60 mm)	3
	55-6237	SCREW - case (85 mm)	4
6	203-348	GASKET - liquid	A/R
7	NSS	CASE - gear	1
8	55-5816	PIN - dowel	2
9	55-6234	PIN - dowel	2
10	55-8441	SCREW - case (16 mm)	3
11	11-5091	CAP - oil fill	1
12	33-1954	O-RING - cap	1
13	33-3821	O-RING - gear case (16 mm)	2
14	33-3512	O-RING - gear case (20 mm)	1
15	42-535	SENSOR - camshaft	1
	55-9223	SCREW - sensor	1
16	13-353	PULLEY - crankshaft	1
17	11-6719	KEY	1
18	55-6250	SCREW - pulley	1
	55-6249	WASHER	1
19	33-2931	GASKET - oil filter head	1
20	13-2072	FILTER & HEAD ASSEMBLY (EMI 3000)	1
21	11-9959	*FILTER - oil (EMI 3000, see 272D5)	1
	55-8857	SCREW - filter head	3
22	41-7063	SWITCH - oil pressure	1
23	11-9447	FITTING - oil inlet (ESOC)	1
24	13-2074	FILTER & HEAD ASSEMBLY (severe duty)	1
25	11-9961	*FILTER - oil (severe duty, see 272D5)	1



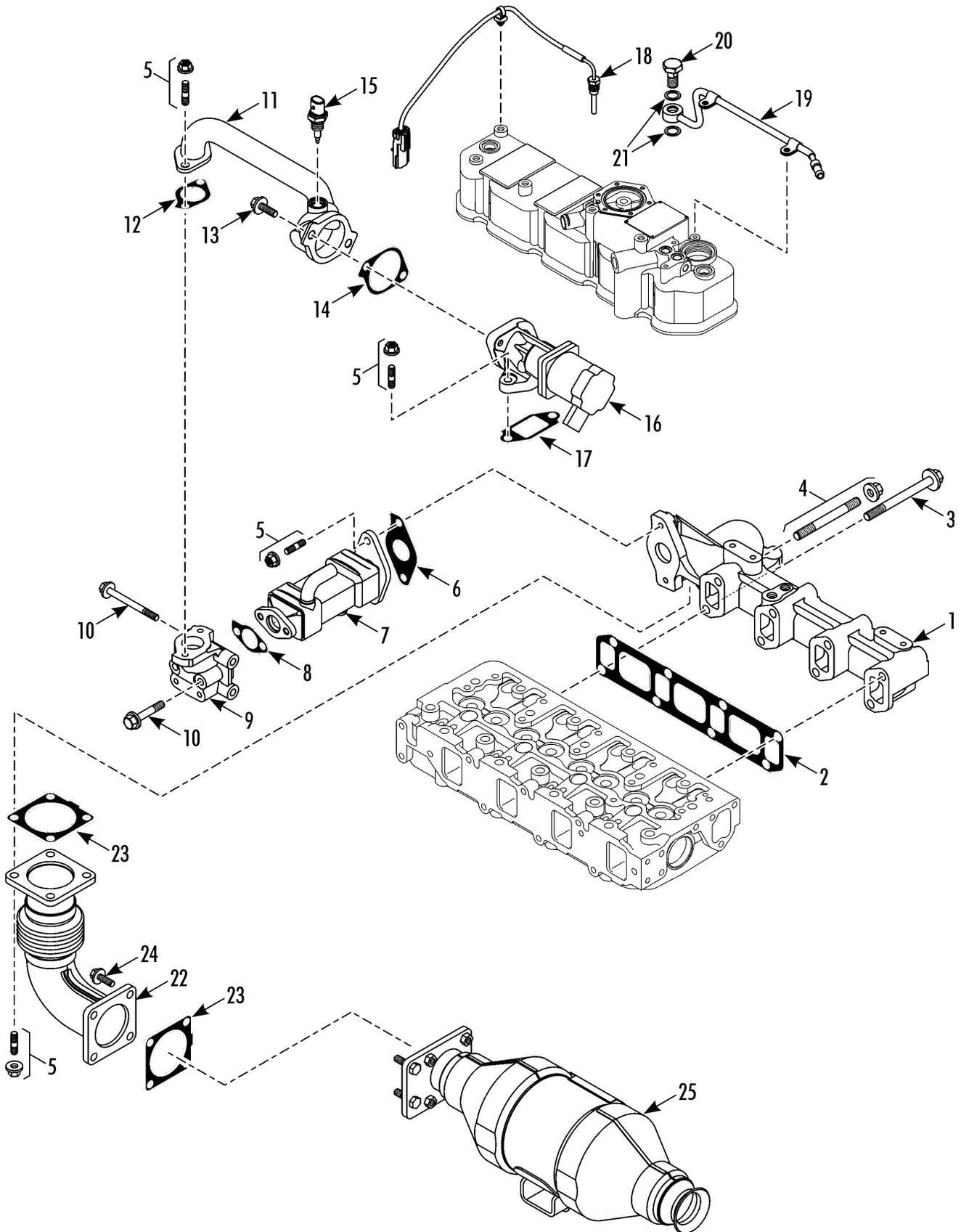
# INTAKE SYSTEM (TK488CR)



# 272F5

Revised  
01/23/14

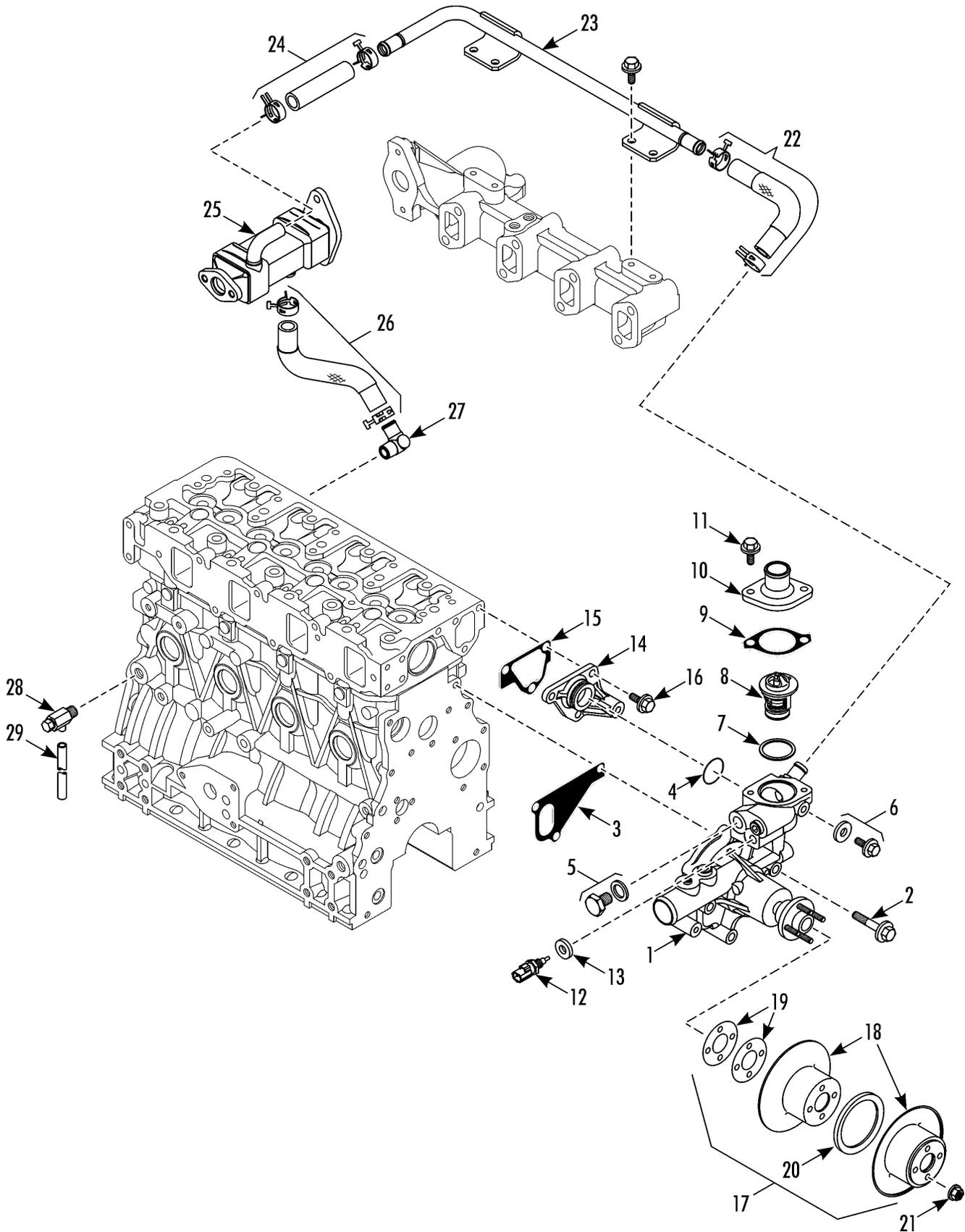
REF	PART NO.	DESCRIPTION	QTY
1	13-1992	MANIFOLD - intake	1
2	42-539	*SENSOR - air temperature	1
3	55-5138	*STUD	4
4	33-4961	GASKET - manifold	1
5	55-6193	SCREW - manifold (50 mm)	5
6	33-4962	GASKET - collector	1
7	13-1991	HOSE - breather	1
8	55-8442	CLIP	2
9	13-2014	COLLECTOR - intake	1
10	42-537	*SENSOR - air temperature, ambient	1
11	33-5197	*O-RING - sensor	1
	55-5859	STUD	1
	55-4750	*NUT	1
12	13-2077	*JOINT - fuel	1
13	13-2078	*BANJO - fuel	1
14	33-2970	*WASHER - seal	2
15	13-2016	JOINT - intake	1
16	33-4969	GASKET - intake joint	1
17	55-5811	SCREW - joint	4
18	55-6193	SCREW - collector (50 mm)	1
	55-8869	SCREW - collector (75 mm)	1
19	51-2698	STUD - collector	3
	51-594	NUT	3



**EXHAUST SYSTEM (TK488CR)****272F6**Revised  
01/19/14

REF	PART NO.	DESCRIPTION	QTY
1	13-2017	MANIFOLD - exhaust	1
2	33-4960	GASKET - exhaust manifold	1
3	51-2699	SCREW - manifold (80 mm)	5
	51-2708	SCREW - manifold (100 mm)	1
4	51-2700	STUD - manifold (80 mm)	2
	51-2710	NUT	2
5	51-2709	STUD	10
	51-594	NUT	10
6	33-4964	GASKET - EGR cooler	1
7	13-1258	COOLER - EGR	1
	203-799	Soot Scrubber (see note)	1
	204-2379	TOOL - heated cleaning bath	1
8	33-4968	GASKET - EGR cooler	1
9	13-2020	ELBOW - EGR	1
10	55-6236	SCREW - elbow (55 mm)	2
	51-2718	SCREW - elbow (80 mm)	2
11	13-2079	TUBE - EGR	1
12	33-4965	GASKET - EGR tube	1
13	55-6246	SCREW - EGR tube (25 mm)	2
14	33-4963	GASKET - EGR-V in	1
15	42-536	SENSOR - EGR gas temperature	1
16	13-1253	VALVE - EGR	1
17	33-4967	GASKET - EGR-V out	1
18	42-534	SENSOR - exhaust temperature	1
19	13-2018	TUBE - exhaust P	1
20	51-2272	SCREW - pipe joint	1
21	33-1975	GASKET (12mm, round)	2
22	13-1674	TUBE - exhaust	1
23	33-5150	GASKET - exhaust	2
24	51-2719	SCREW - converter	4
25	13-1673	CATALYST - oxidation	1

Refer to Parts Bulletin 1503 for EGR Cooler Cleaning Process 203-799 - Soot Scrubber TM



# COOLING SYSTEM (TK488CR)

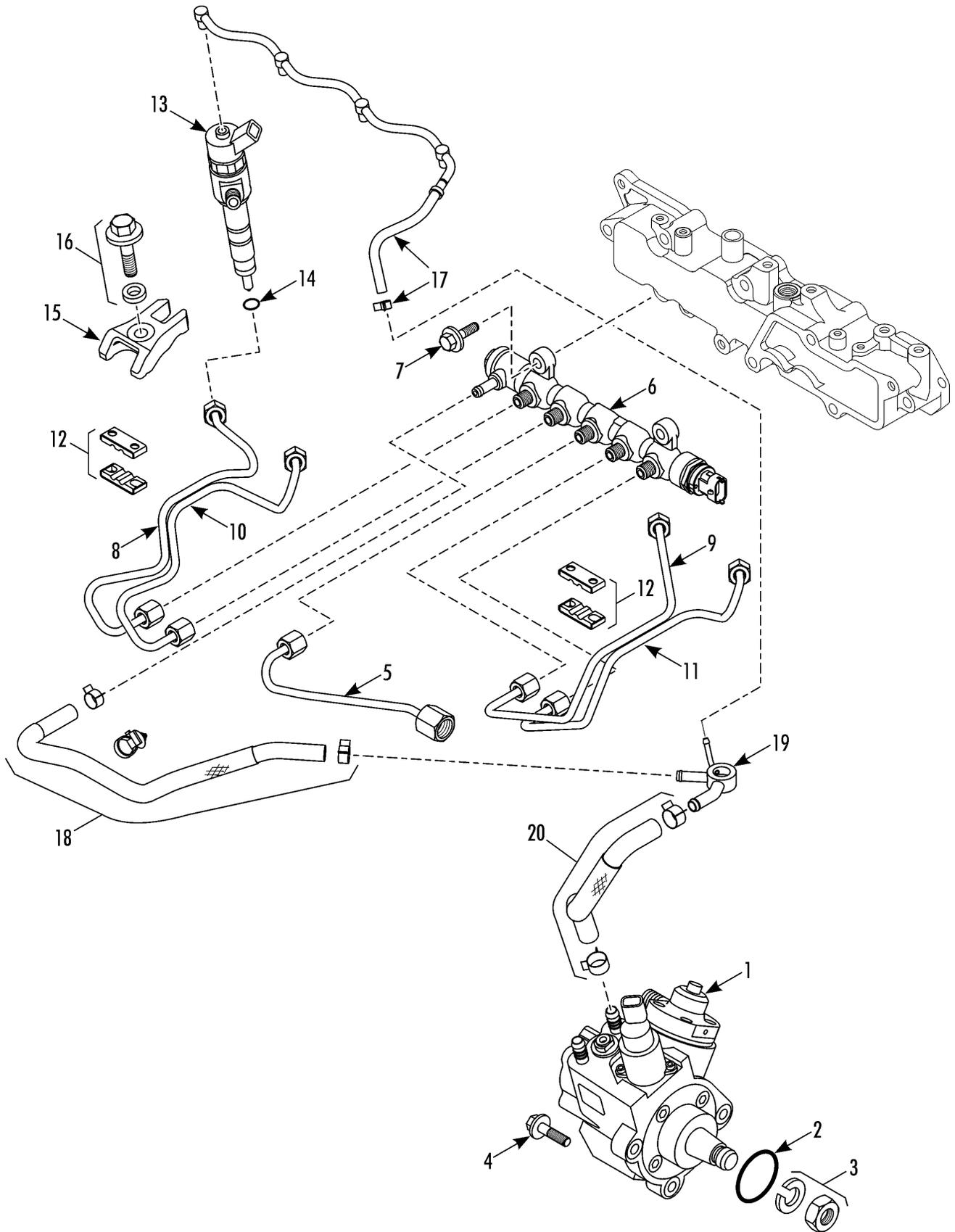


# 272F7

Revised  
10/28/13

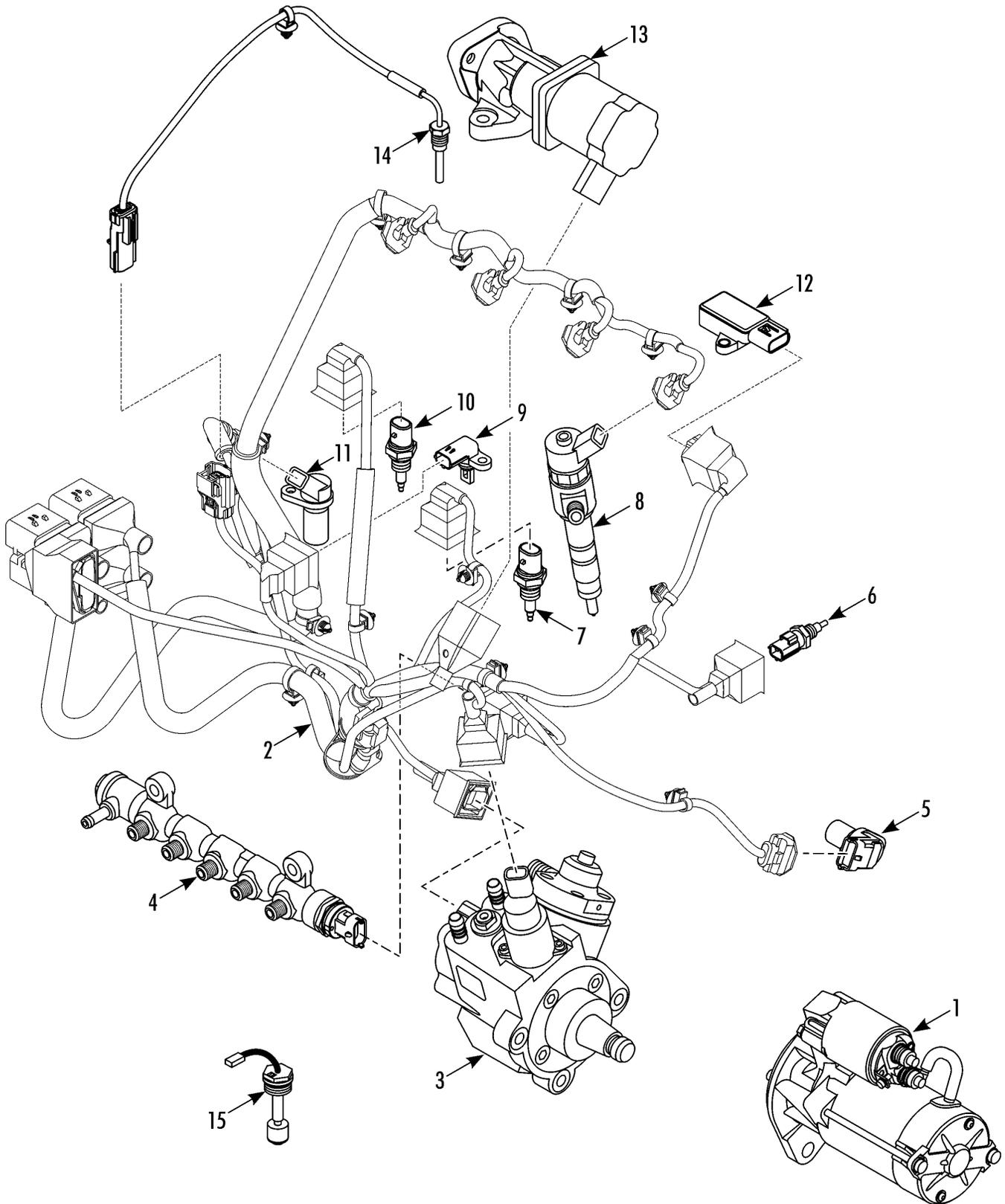
REF	PART NO.	DESCRIPTION	QTY
1	13-1259	PUMP - coolant	1
2	55-6248	SCREW - pump (60 mm)	3
3	33-3096	GASKET - pump	1
4	33-3098	O-RING - joint	1
5	11-9256	PLUG	1
	33-1745	GASKET	1
6	55-8854	PLUG	1
	33-1524	GASKET	1
7	33-2768	GASKET - thermostat	1
8	13-385	THERMOSTAT (160 F, 71 C)	1
9	33-2767	GASKET - cover	1
10	11-8675	COVER - thermostat	1
11	55-5817	SCREW - cover	2
12	42-541	SENSOR - coolant	1
13	55-8620	GASKET - sensor	1
14	13-2026	JOINT	1
15	33-3097	GASKET	1
16	55-8441	SCREW - joint / tube (16 mm)	A/R
17	13-358	PULLEY - pump (inc 18 - 20)	1
18	77-1426	*PULLEY SET	1
19	77-2752	*SHIM - pulley (0.5 mm)	A/R
	77-1427	*SHIM - pulley (1 mm)	A/R
20	77-1428	*SPACER	1
21	55-5792	NUT - pulley	4
22	13-2041	HOSE - pump to tube	1
23	13-2027	TUBE - EGR (hose to hose)	1
24	13-2040	HOSE - tube to EGR	1
25	13-1258	COOLER - EGR (see 272F6)	1
26	13-2032	HOSE - EGR to engine	1
27	51-2727	ELBOW - hose to engine	1
28	11-8677	COCK - drain	1
29	13-360	HOSE - drain	1

Refer to Parts Bulletin 1503 for EGR Cooler Cleaning Process 203-799 - Soot Scrubber TM



**FUEL INJECTION SYSTEM (TK488CR)****272F8**Revised  
01/23/14

REF	PART NO.	DESCRIPTION	QTY
1	13-1252	PUMP - fuel high pressure	1
2	33-5171	O-RING - pump	1
3	11-5035	NUT - pump	1
	51-2720	LOCKWASHER	1
4	55-8857	SCREW - pump (30mm)	3
5	13-1329	TUBE - pump to rail	1
6	13-1256	RAIL - fuel (common)	1
7	55-6246	SCREW - rail (25mm)	2
8	13-1310	TUBE - fuel injection	1
9	13-1315	TUBE - fuel injection	1
10	13-1316	TUBE - fuel injection	1
11	13-1317	TUBE - fuel injection	1
12	13-1318	RETAINER - injection tube	4
	55-5792	NUT - retainer	4
13	13-1255	INJECTOR & GASKET	4
14	33-4966	*GASKET - injector	4
15	13-1266	RETAINER - injector	4
16	55-6191	SCREW - retainer (35 mm)	4
	51-1151	WASHER	4
17	13-1260	HOSE - injectors to banjo	1
18	13-1262	HOSE - common rail to banjo (inc clip & clamps)	1
19	13-2077	JOINT - fuel	1
20	13-1263	HOSE - banjo to fi pump	1



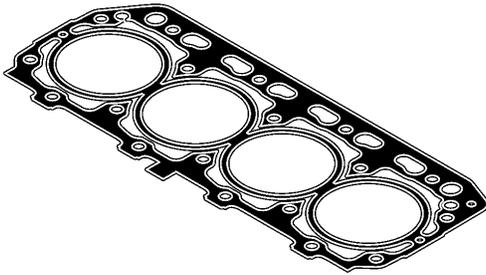
**STARTER & ELECTRICAL COMPONENTS  
(TK488CR)**



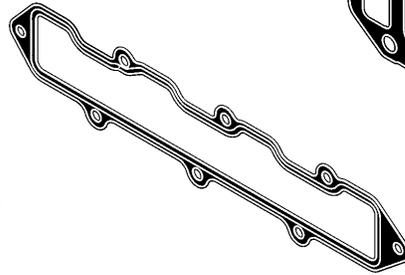
**272F9**

Revised  
02/05/14

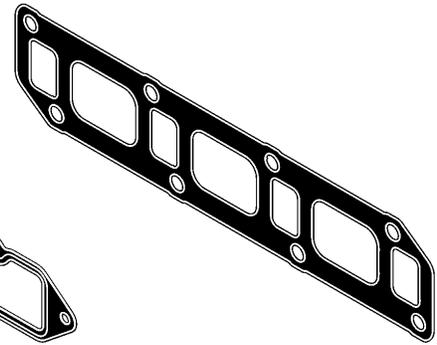
REF	PART NO.	DESCRIPTION	QTY
1	45-2177	STARTER	1
	845-2324	STARTER - remanufactured	1
	45-2324	STARTER - standard life	1
2	42-860	HARNESS - engine	1
3	13-1252	PUMP - fuel high pressure (see 272F8)	1
4	13-1256	RAIL - fuel (common, see 272F8)	1
5	42-535	SENSOR - camshaft (see 272F4)	1
6	42-541	SENSOR - coolant (see 272F7)	1
7	42-539	SENSOR - air temperature (see 272F5)	1
8	13-1255	INJECTOR & GASKET (see 272F8)	4
9	42-537	SENSOR - air temperature, ambient (see 272F5)	1
10	42-536	SENSOR - EGR gas temperature (see 272F6)	1
11	42-530	SENSOR - flywheel, rpm (272F3)	1
12	42-533	SENSOR - pressure (inc o-ring, see 272F2)	1
13	13-1258	COOLER - EGR (see 272F6)	1
14	42-534	SENSOR - exhaust temperature (see 272F6)	1
15	41-4470	SWITCH - oil level	1



1



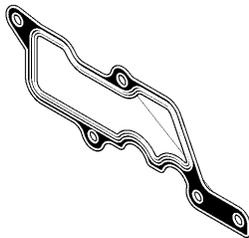
2



3



4



5



6



7



8



9



10



11



12



13



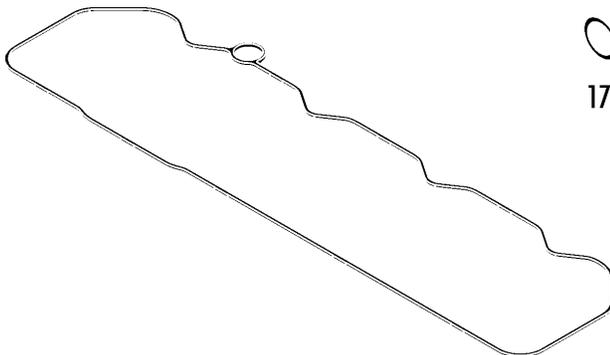
14



15



16



22



17



18



19



20



21



23



24

# ENGINE GASKETS (TK488CR)



# 260E5

Revised  
10/20/13

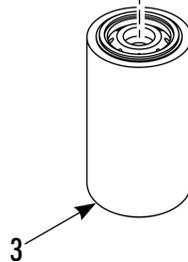
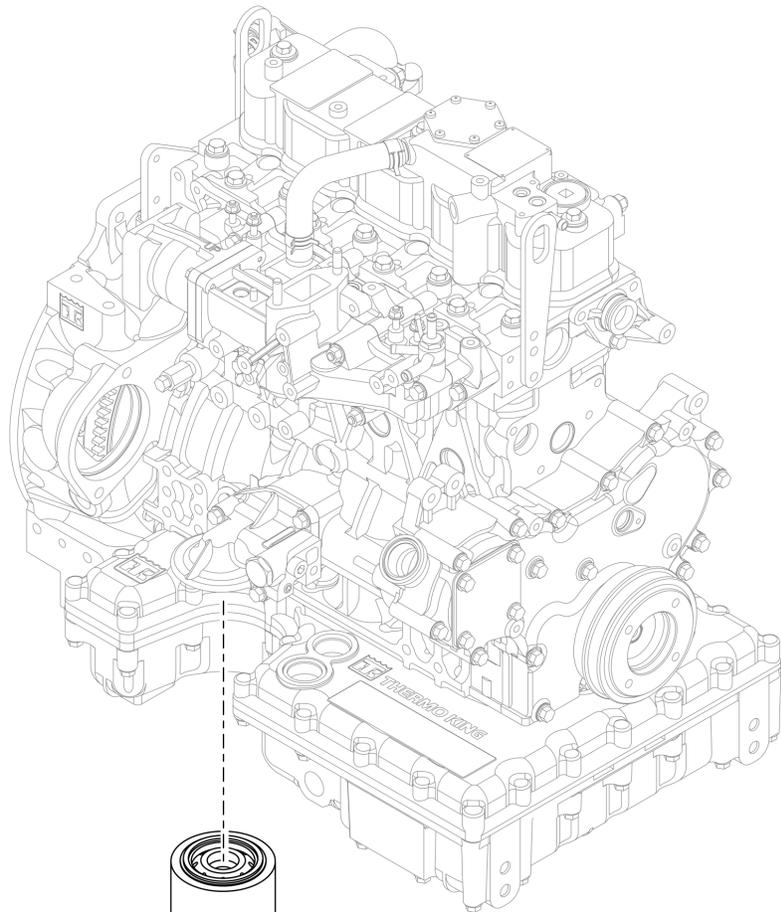
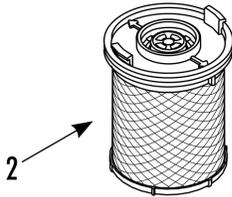
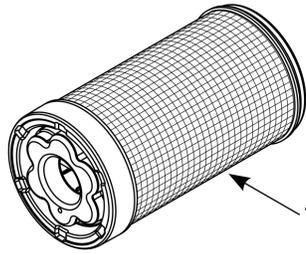
REF	PART NO.	DESCRIPTION	QTY
1	33-5056	GASKET - head	1
2	33-4961	GASKET - intake manifold	1
3	33-4960	GASKET - exhaust manifold	1
4	33-4959	GASKET - exhaust	2
5	33-4962	GASKET - collector	1
6	33-4964	GASKET - EGR cooler	1
7	33-4968	GASKET - EGR cooler	1
8	33-4963	GASKET - EGR-V in	1
9	33-4965	GASKET - EGR tube	1
10	33-4967	GASKET - EGR-V out	1
11	33-1524	GASKET - coolant pump	1
12	33-2969	GASKET - case	1
13	33-2931	GASKET - oil filter bracket	1
14	33-4090	O-RING - filler cap	1
15	33-3096	GASKET - coolant pump	1
16	33-3097	GASKET - thermostat housing	1
17	33-1745	WASHER - sealing	1
18	33-2767	GASKET - thermostat	1
19	33-3512	O-RING - gear housing	1
20	33-3821	O-RING - gear case (16 mm)	2
21	33-1954	O-RING - gear housing	1
	33-3098	O-RING - joint (coolant pump)	1
	33-2768	O-RING - thermostat	1
22	33-4958	GASKET - valve cover	1
23	33-4966	GASKET - injector	1
24	33-1975	GASKET - EXH P sensor	1

**272D5**



**FILTER KIT, TRAILER (Precedent S-600/C-600/S-700)**

Revised  
01/18/14



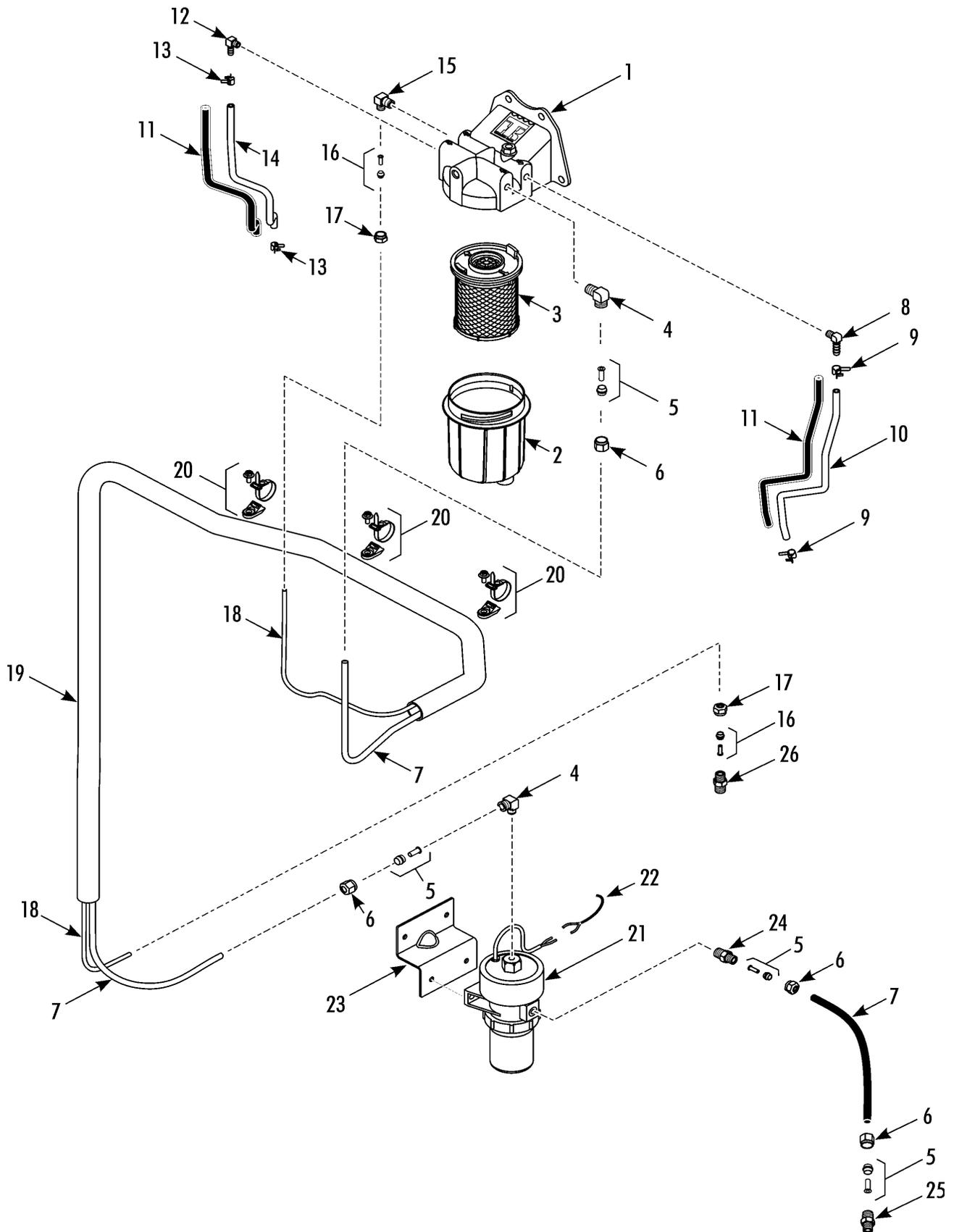
**FILTER KIT, TRAILER (Precedent S-600/C-600/S-700)**

Revised  
01/18/14



**272D5**

<b>REF</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
	10-457	KIT - filter set (S-600/C-600 EMI 3000)	1
1	11-9955	*ELEMENT - air filter (EMI 3000)	1
2	11-9957	*ELEMENT - fuel filter (EMI 3000)	1
3	11-9959	*FILTER - oil (EMI 3000)	1
	10-469	KIT - filter set (S-600, severe duty)	1
1	11-9956	*ELEMENT - air filter (severe duty)	1
2	11-9958	*ELEMENT - fuel filter (severe duty)	1
3	11-9961	*FILTER - oil (severe duty)	1



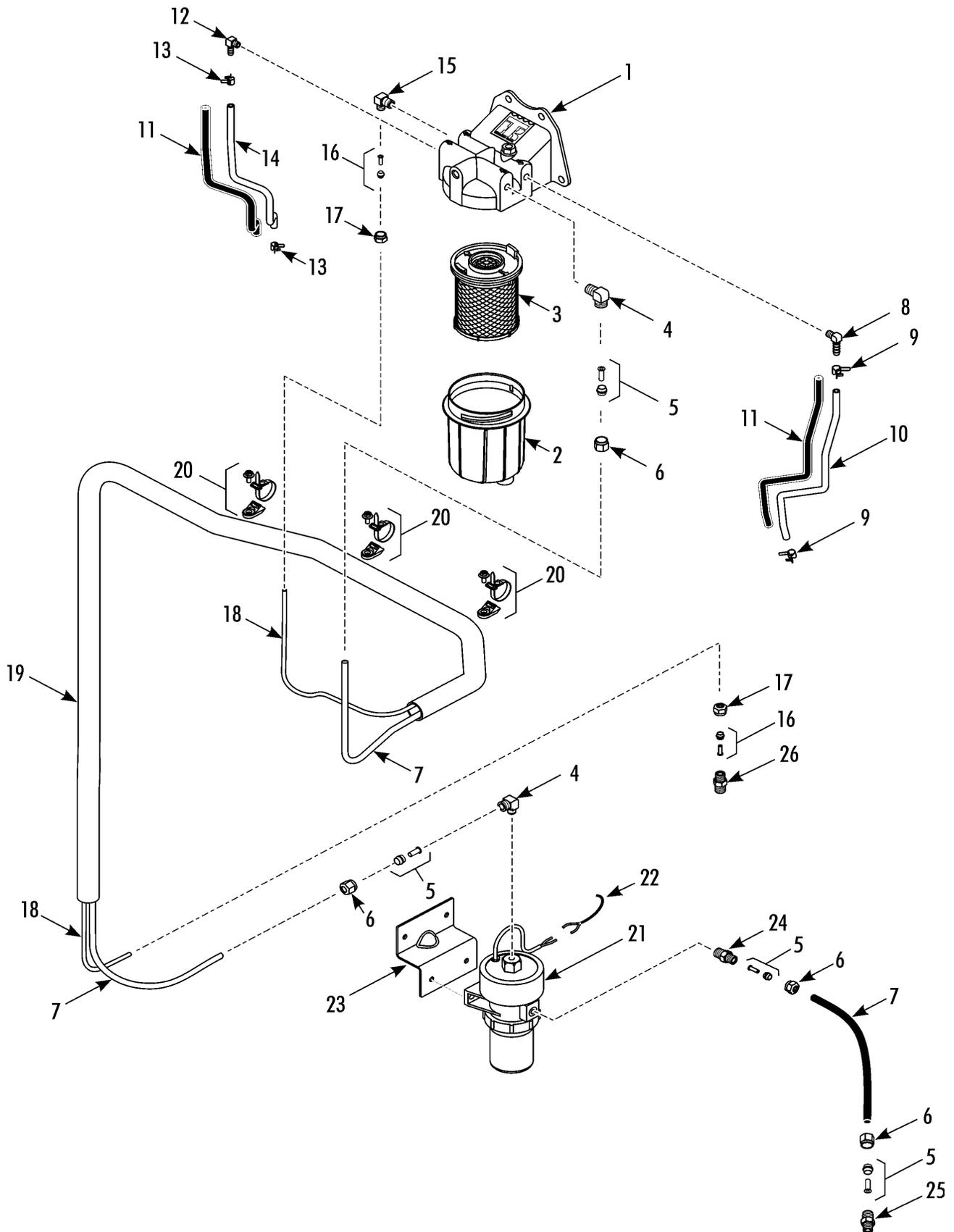
# FUEL FILTER & HOSES S-600/700



# 260E2

Revised  
02/05/14

REF	PART NO.	DESCRIPTION	QTY
1	13-1301	HEAD ASSEMBY - fuel filter	1
2	13-1164	*BOWL	1
3	11-9957	*ELEMENT - fuel filter (EMI 3000)	1
	11-9958	ELEMENT - fuel filter (severe duty)	1
	51-2770	SCREW - head	4
4	13-1230	ELBOW - hose (3/8)	2
5	10-242	KIT - sleeve & eyelet (3/8)	4
6	11-4941	NUT - hose (3/8)	4
7	11-4372	HOSE (3/8 od x 35 ft lg)	A/R
8	13-1222	ELBOW - hose (9.8 od)	1
9	51-2302	CLAMP - hose (16 mm)	2
10	13-1249	HOSE (9.8 mm in x 25 ft lg)	A/R
11	13-1286	TUBE - cover (corrugated 25 ft)	A/R
12	13-1225	ELBOW - hose	1
13	51-2301	CLAMP - hose (14 mm)	2
14	13-1250	HOSE (7.9 mm id x 25 ft lg)	A/R
15	13-1251	ELBOW - hose (1/4)	1
16	10-243	KIT - sleeve & eyelet (1/4)	2
17	11-4841	NUT - hose (1/4)	2
18	11-4367	HOSE (1/4 od x 35 ft)	1
19	51-2281	TUBE - cover (corrugated)	1
	55-2330	BANDWRAP	9
20	51-2300	MOUNT - bandwrap	3
	51-2220	BANDWRAP - mounting	3
	51-2758	SCREW - bandwrap	3
	55-4607	FLATWASHER	3
	55-7007	NUT	3
21	42-351	PUMP - fuel w/ strainer	1
	10-378	*KIT - bowl & gasket	1
	10-458	**KIT - stainer & o-ring	1
	51-2201	SCREW - pump	2
	55-7075	FLATWASHER	4
	55-7008	NUT	2



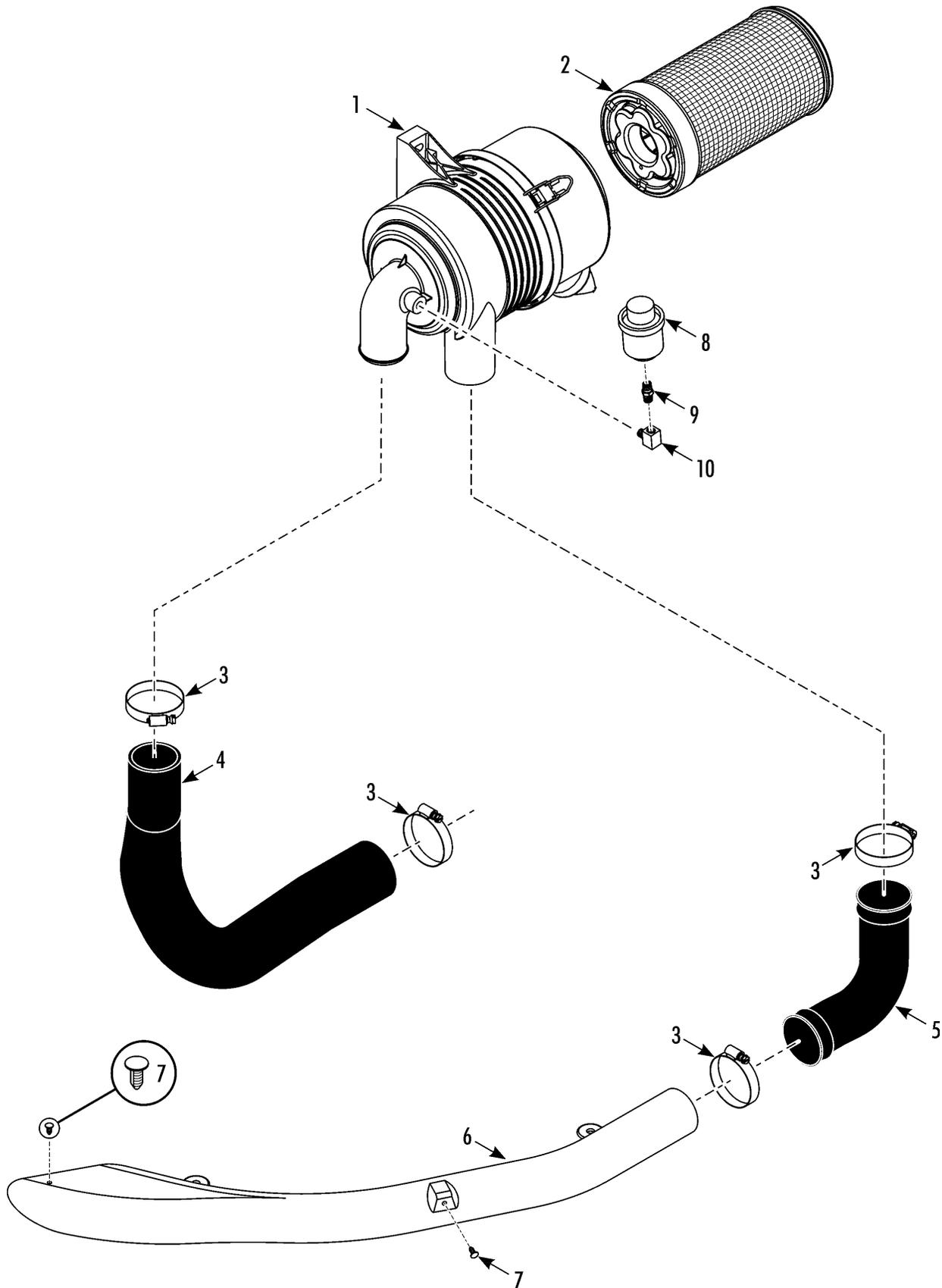
# FUEL FILTER & HOSES S-600/700



# 260E2

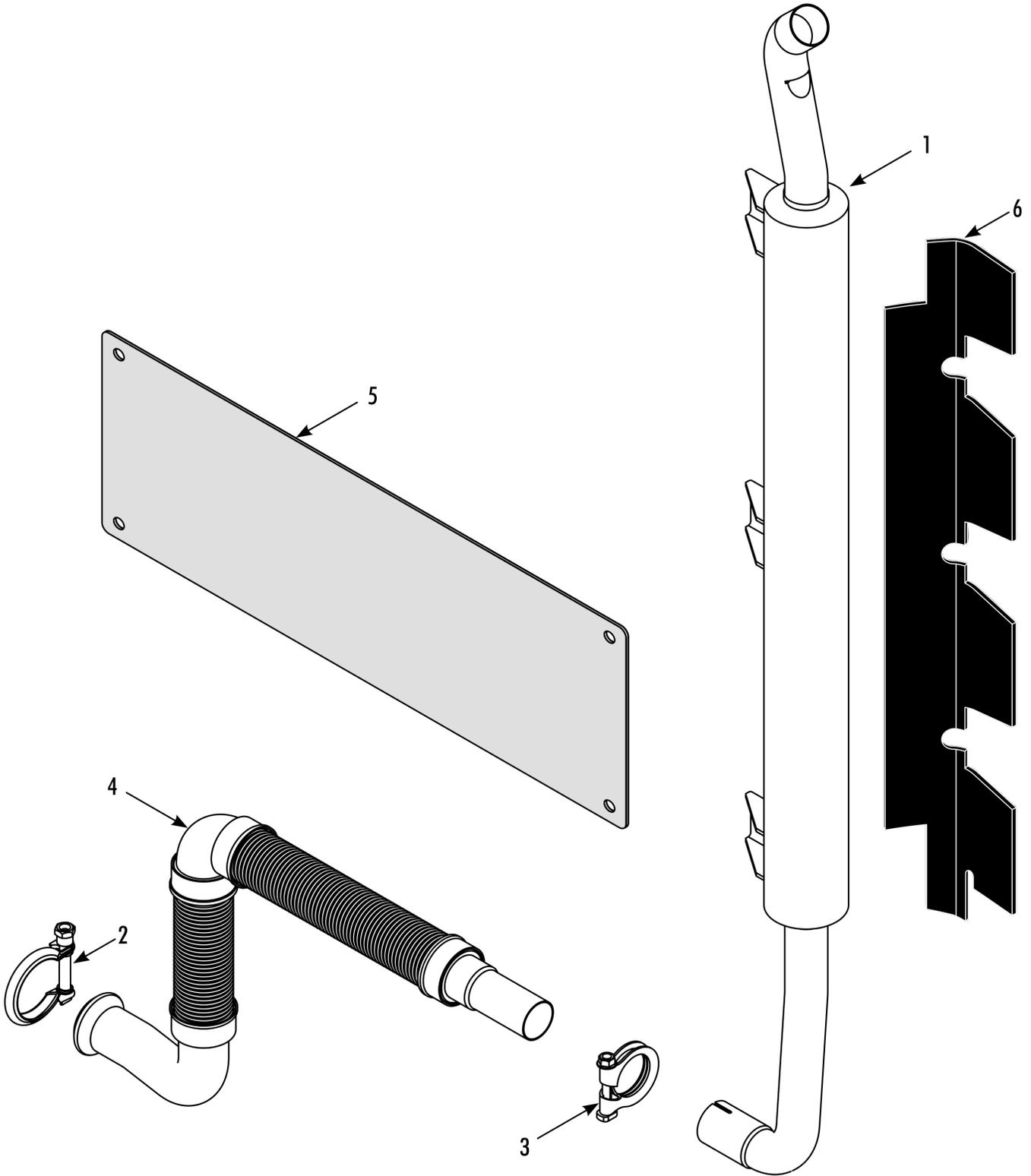
Revised  
02/05/14

REF	PART NO.	DESCRIPTION	QTY
22	42-717	HARNES - fuel pump	1
	41-130	TERMINAL - splice	4
23	92-9683	BRACKET - pump	1
24	13-1223	CONNECTOR - pump inlet	1
25	13-1230	CONNECTOR - fuel tank supply	1
26	13-1231	CONNECTOR - fuel tank return	1



**AIR CLEANER GROUP S-600/700****260E1**Revised  
12/17/13

<b>REF</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
1	12-967	FILTER - air cleaner (EMI 3000)	1
	12-980	FILTER - air cleaner (severe duty, see 272D5)	1
2	11-9955	ELEMENT - air filter (EMI 3000)	1
	11-9956	ELEMENT - air filter (severe duty, see 272D5)	1
	51-2776	SCREW - filter	2
3	55-1636	CLAMP - hose (1.12 to 3.0 in)	4
4	13-1226	TUBE - outlet to engine	1
5	13-1227	TUBE - inlet, elbow	1
6	13-1228	DUCT - air intake	1
	51-2760	SCREW - duct	2
7	91-8167	FASTENER	2
8	11-7757	INDICATOR - air restrictor (optional)	1
9	11-7828	FITTING	1
10	55-460	ELBOW	1



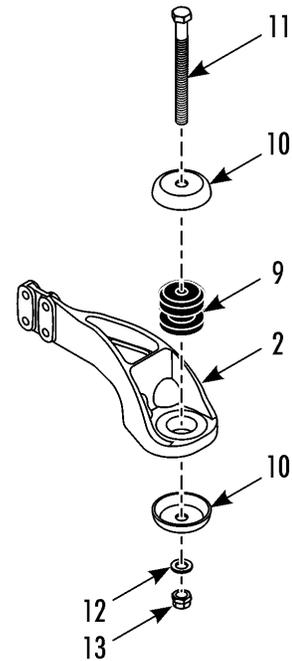
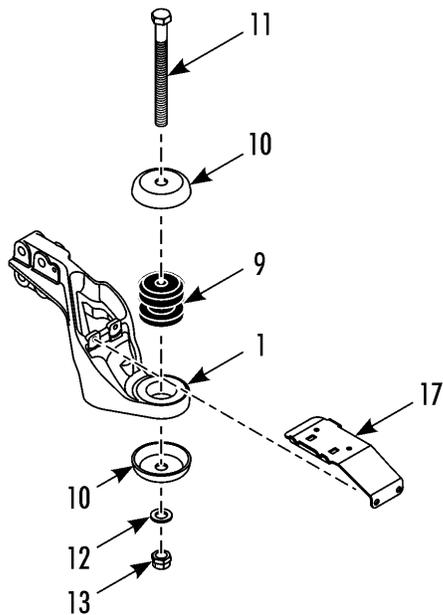
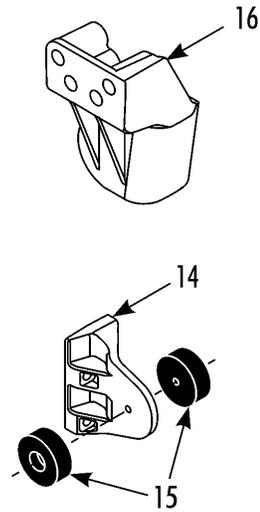
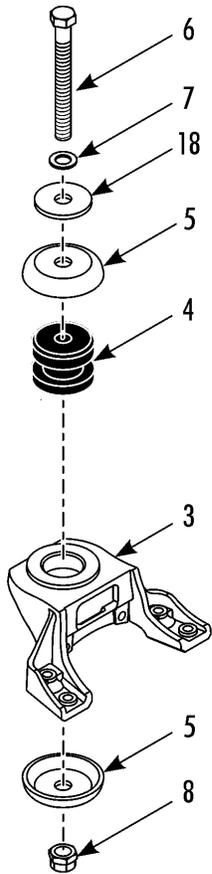
Revised  
01/30/14

# MUFFLER GROUP



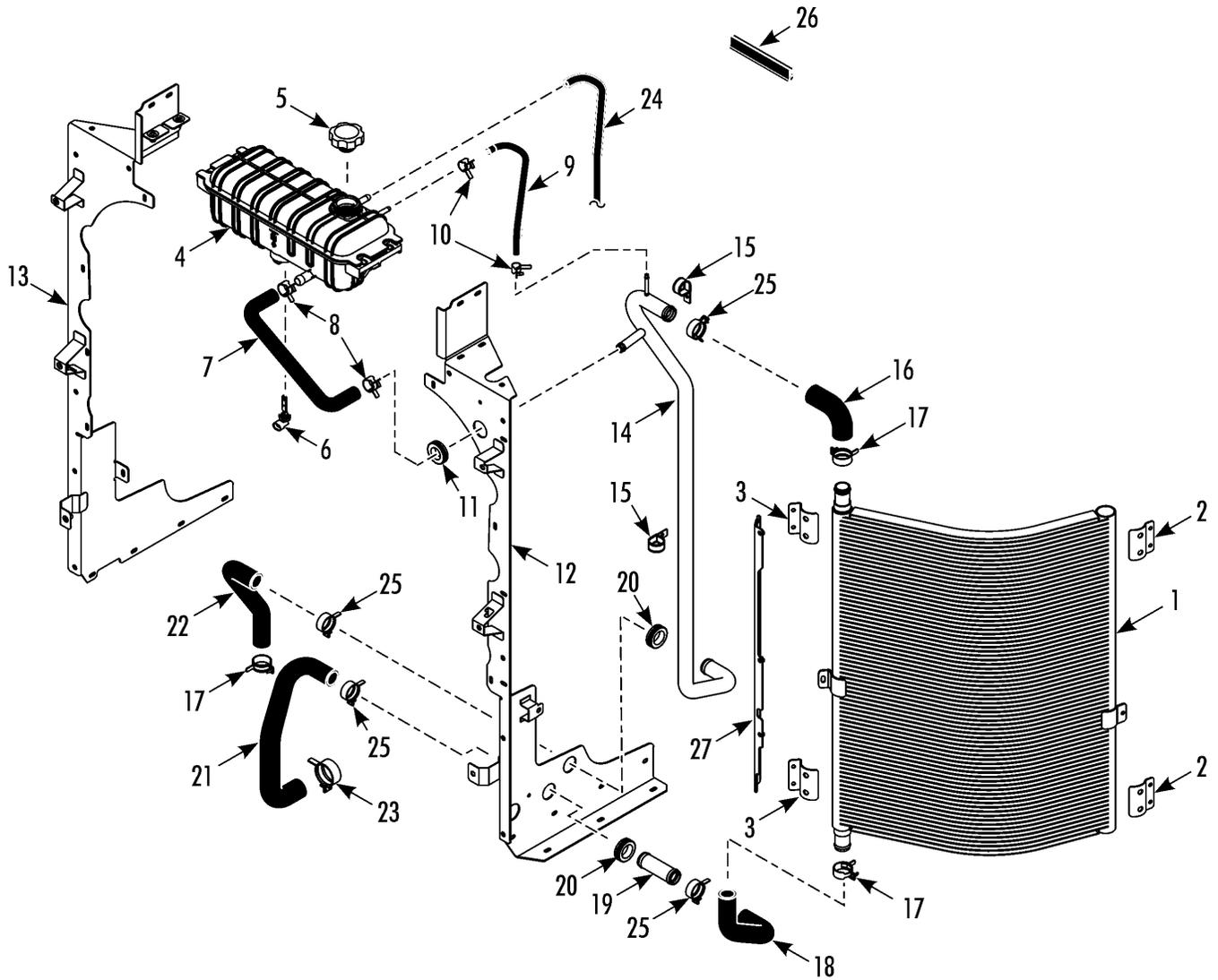
# 260E3

REF	PART NO.	DESCRIPTION	QTY
1	12-998	MUFFLER	1
	51-2760	SCREW - muffler	3
2	13-1217	CLAMP - v-band	1
3	91-4611	CLAMP - muffler	1
4	13-1218	TUBE - exhaust	1
	203-453	SEALER - exhaust	A/R
	51-2760	SCREW - tube	4
	55-7085	FLATWASHER	4
	55-7825	NUT	4
5	13-1220	SHIELD - manifold (metal)	1
	51-189	SCREW - shield	4
	13-1675	SHIELD - manifold (foil)	1
	51-2613	SCREW - shield	6
6	33-5129	INSULATION - muffler	1



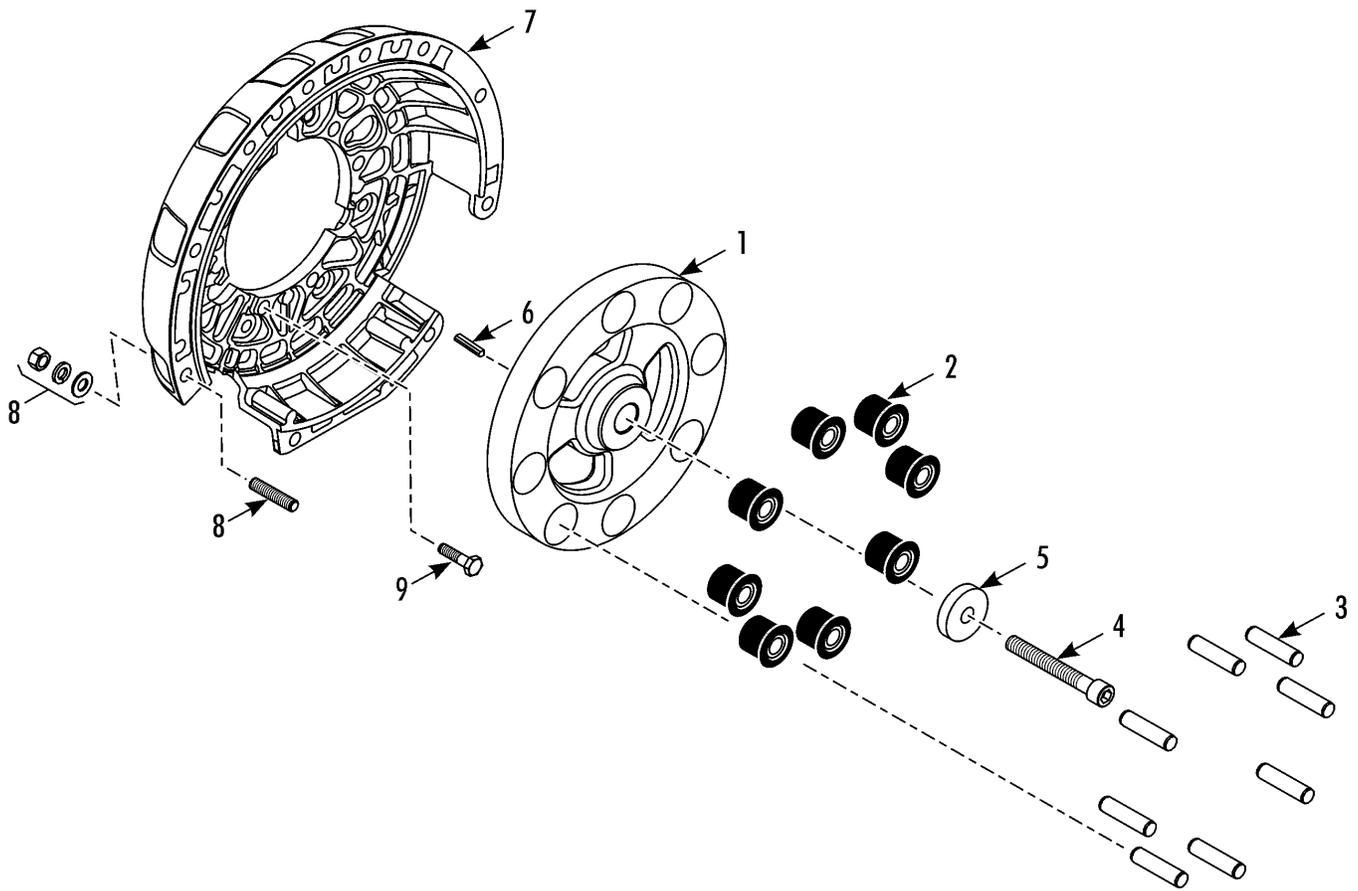


REF	PART NO.	DESCRIPTION	QTY
1	13-1291	BRACKET - engine (front, roadside)	1
2	13-1292	BRACKET - engine (rear, roadside)	1
	55-5589	SCREW - bracket (M10 X 50)	3
	55-7004	SCREW - bracket (M10 X 30)	4
	55-7072	FLATWASHER	7
3	13-1209	BRACKET - engine (rear)	1
	55-5595	SCREW - bracket (M12 X 50)	2
	55-6158	SCREW - bracket (M12 X 40)	4
	55-7072	FLATWASHER	6
4	13-1717	MOUNT - vibration (rear)	1
5	13-1764	CUP - snubbing	2
6	51-2207	SCREW - mount (M22 X 200)	1
7	51-2307	FLATWASHER	1
8	51-2638	NUT	1
9	13-2116	MOUNT - vibration (front)	2
10	13-1208	CUP - snubbing	4
11	51-2273	SCREW - mount (M16 X 180)	2
12	51-152	FLATWASHER	2
13	51-1004	NUT	2
14	13-1213	BLADE - snubber	1
	108-2109	SCREW - blade	4
15	13-1214	SNUBBER	2
	55-7074	SCREW - snubber	1
	55-7007	NUT	1
16	13-1212	CAGE - snubber	1
	55-7168	SCREW - cage	4
17	93-555	BRACKET - harness	1
	55-5955	SCREW - bracket	3
	55-4638	FLATWASHER	3
18	13-1776	WASHER - special	1



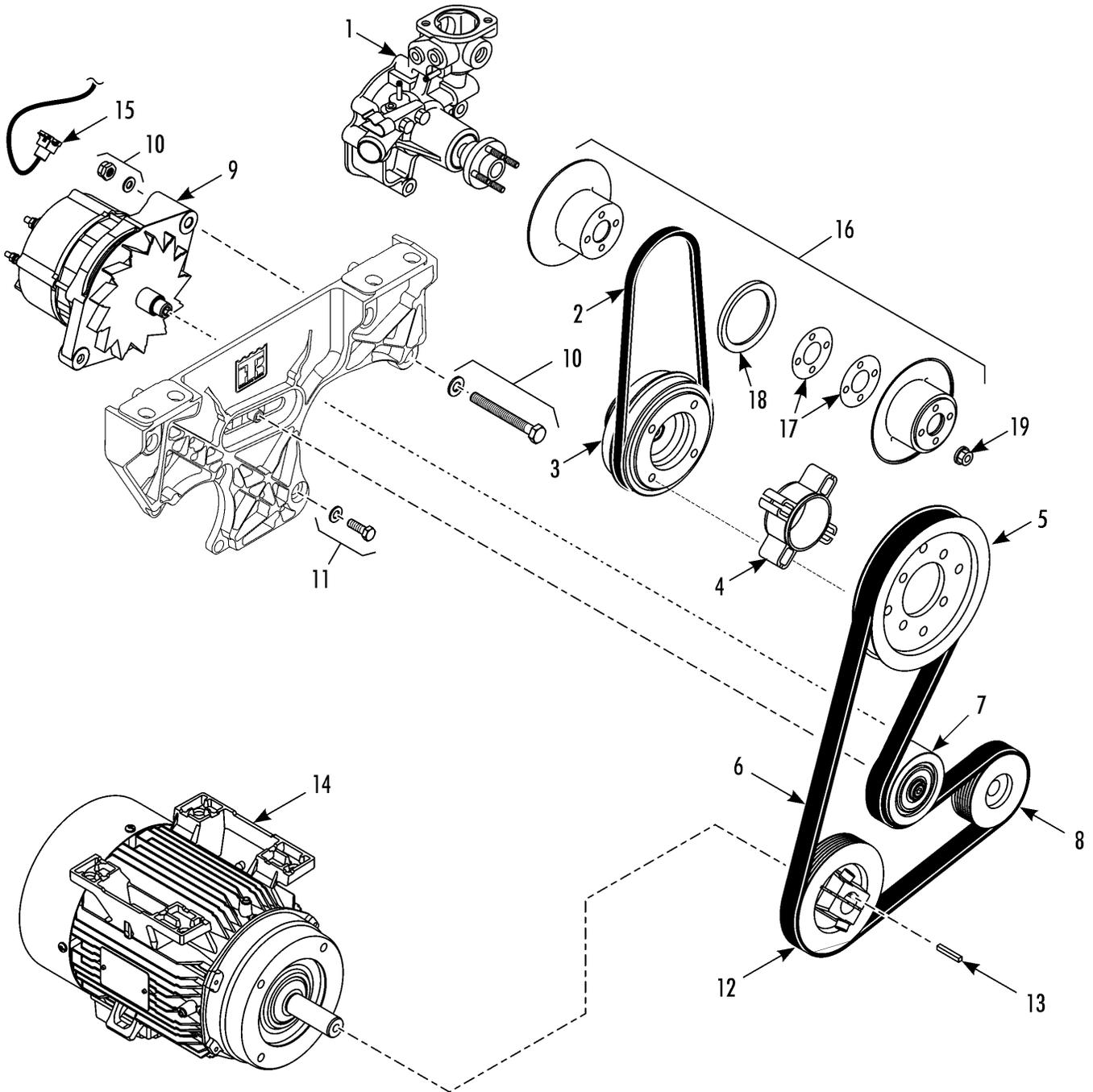


REF	PART NO.	DESCRIPTION	QTY
1	12-976	RADIATOR	1
2	92-9847	BRACKET - radiator (outside)	2
3	92-9845	BRACKET - radiator (center)	2
	51-2758	SCREW - bracket	8
4	13-1165	TANK - expansion	1
5	13-990	*CAP - expansion tank (15 psi)	1
6	42-292	*SWITCH - coolant level	1
	51-2766	SCREW - tank	4
7	13-1468	HOSE - expansion tank (outlet)	1
8	13-1148	CLAMP - hose (25 mm)	2
9	13-1469	HOSE - expansion tank (bleed)	1
10	51-2302	CLAMP - hose (16 mm)	2
11	33-1084	GROMMET - hose	1
12	98-9013	SUPPORT - coil (roadside, see 261B3)	1
13	98-9012	SUPPORT - coil (curbside, see 261B3)	1
14	13-1199	TUBE - radiator (inlet)	1
15	55-7504	CLAMP - tube	2
	51-2197	SCREW - clamp	2
16	13-1200	HOSE - radiator (inlet)	1
17	51-1739	CLAMP - hose (36 mm)	3
18	13-1198	HOSE - radiator (outlet)	1
19	13-1201	TUBE - radiator (outlet)	1
20	33-2023	GROMMET - tube	2
21	13-1216	HOSE - inlet (radiator to pump)	1
22	13-1215	HOSE - outlet (pump to radiator)	1
23	51-2209	CLAMP - hose (44 mm)	1
24	99-1655	HOSE - overflow	1
25	51-2514	CLAMP - hose (38 mm)	4
26	33-4979	EXTRUSION - rubber	1
27	92-9853	BRACKET - radiator	1



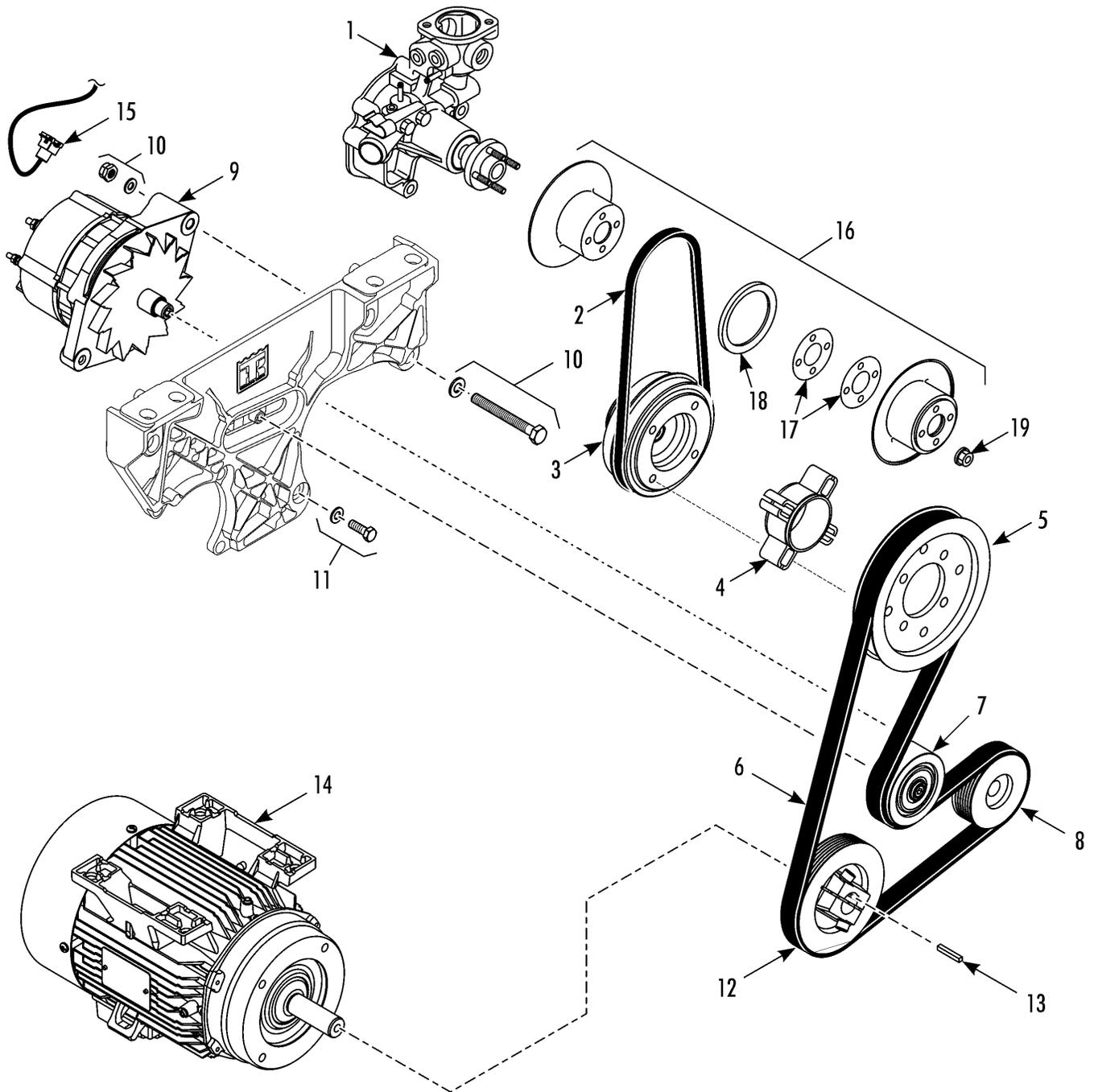


REF	PART NO.	DESCRIPTION	QTY
1	77-3045	COUPLER - compressor (inc bushings)	1
2	77-3044	*BUSHING - drive (set of 8)	1
	204-1114	ADHESIVE - bushing	1
3	51-814	PIN - drive	8
4	51-220	SCREW - coupling	1
5	55-9300	SPACER	1
6	55-9024	KEY - compressor	1
	204-972	TOOL - keyway alignment	1
7	12-975	FLANGE - compressor	1
8	55-1525	STUD - flange to engine	10
	55-8318	NUT	10
	55-375	LOCKWASHER	10
	55-402	FLATWASHER	10
9	55-1469	SCREW - flange to compressor	6
	55-896	FLATWASHER	6





REF	PART NO.	DESCRIPTION	QTY
1	13-1259	PUMP - coolant (see 272F7)	1
2	78-1340	BELT - pump	1
3	13-353	PULLEY - crankshaft (see 272F4)	1
	55-6250	SCREW - pulley	1
	55-6249	WASHER	1
4	70-4124	SPACER - pulley	1
5	77-3129	PULLEY - engine/alternator & generator	1
	55-5589	SCREW - pulley	4
	51-144	FLATWASHER	4
6	78-1857	BELT - alternator & generator	1
7	78-1843	TENSIONER - belt (smooth)	1
8	77-3142	PULLEY - alternator	1
9	45-2254	ALTERNATOR - 37 amp	1
	41-8461	ALTERNATOR - 37 amp (Standard Life Plus)	1
	845-2254	ALTERNATOR - 37 amp (remanufactured)	1
	45-2256	ALTERNATOR - 65 amp	1
	41-8463	ALTERNATOR - 65 amp (Standard Life Plus, CW)	1
	845-2256	ALTERNATOR - 65 amp (remanufactured)	1
	41-9925	ALTERNATOR - 120 amp (see 275C2)	1
10	108-2022	SCREW - alternator (M10)	1
	55-7072	FLATWASHER	2
	55-7005	NUT	1
11	55-5424	SCREW - alternator (M8)	1
	55-7069	FLATWASHER	1
12	77-3056	PULLEY - generator	1
	51-1005	SCREW - pulley	2
	55-4613	FLATWASHER	2
13	55-3264	KEY	1
14	104-802	GENERATOR (see 261C6)	1
15	42-865	HARNESS - alternator	1
	44-9607	*CONNECTOR - alternator	1
16	13-358	PULLEY - coolant pump	1
17	77-1427	*SHIM (1 mm)	A/R



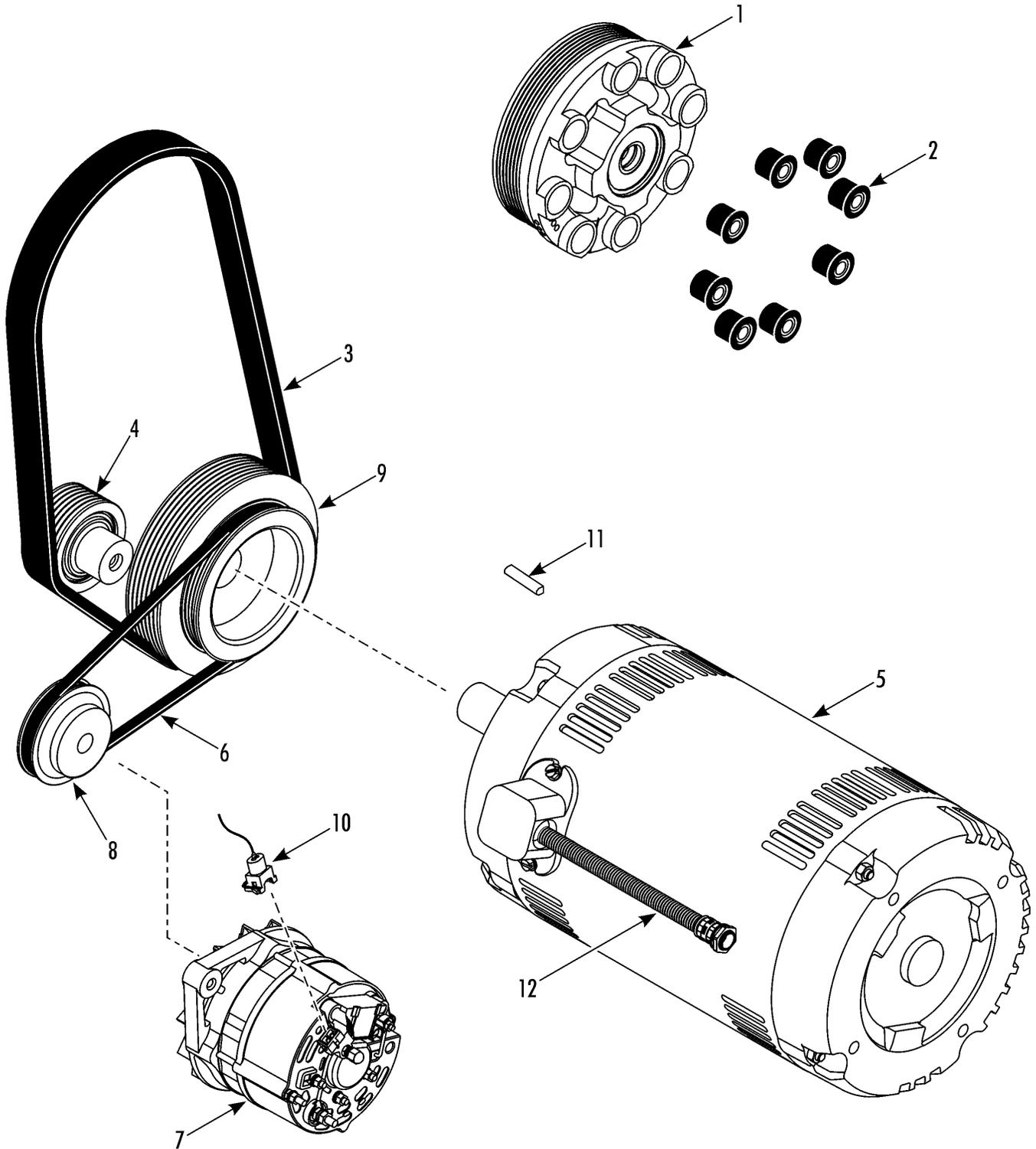
Revised  
01/18/14

**BELT GROUP S-700**



**272H5**

<b>REF</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
	77-2752	*SHIM (0.5 mm)	A/R
18	77-1428	*SPACER	1
19	55-5792	NUT	4



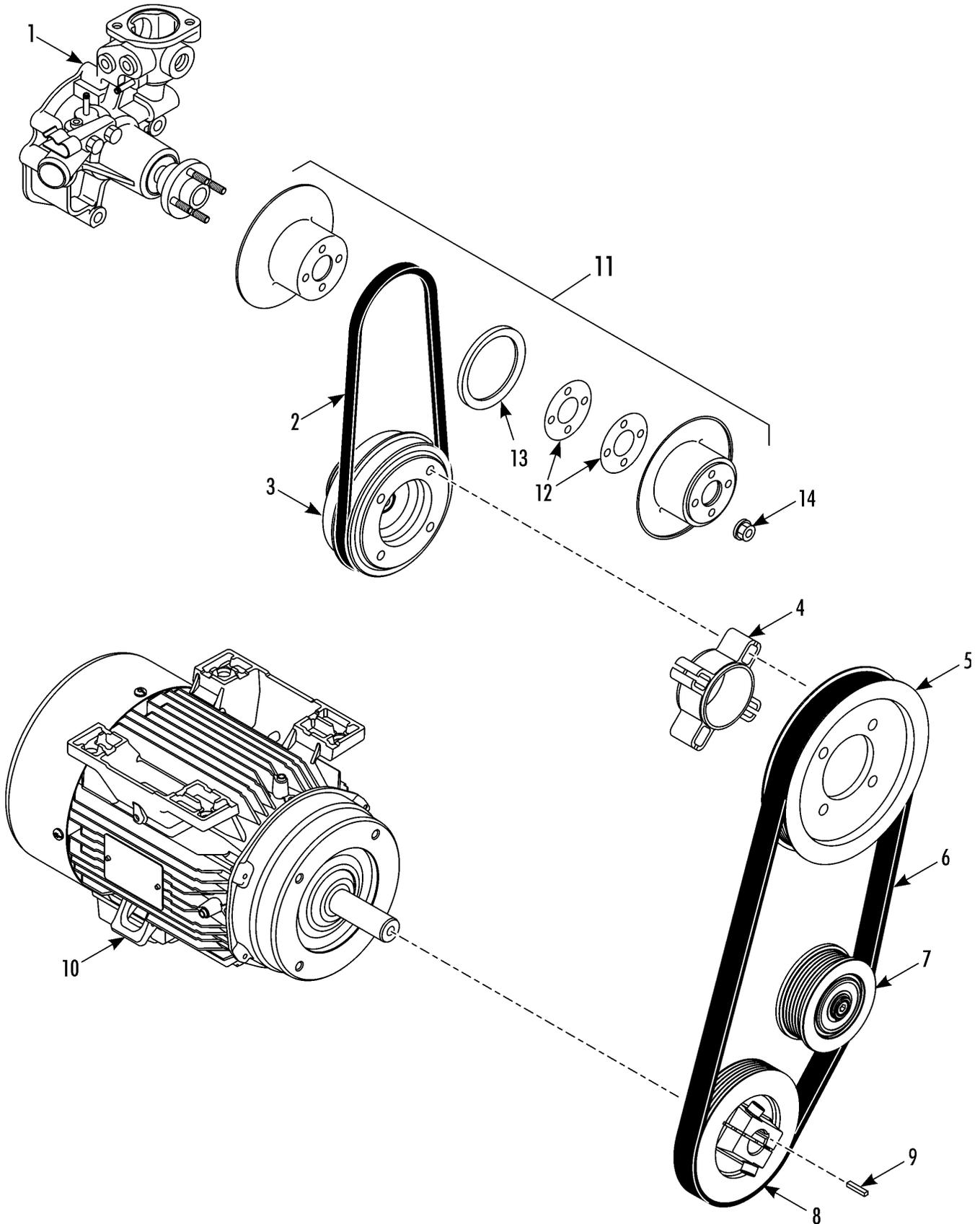
**BELT GROUP S-700 (Smart Power, compressor end)**

Revised  
01/24/14



**272H0**

REF	PART NO.	DESCRIPTION	QTY
1	107-396	CLUTCH	1
2	77-3043	*BUSHING (set of 8)	1
	204-1114	*ADHESIVE - bushing	A/R
	51-220	SCREW - clutch	1
	55-9300	SPACER	1
	55-9024	KEY	1
3	78-1845	BELT - motor to clutch (12 hp)	1
	78-1861	BELT - motor to clutch (19 hp)	1
4	78-1900	TENSIONER (grooved, see 261D9)	1
5	104-825	MOTOR - standby (12 hp, see 261D9)	1
	104-826	MOTOR - standby (19 hp, see 261D9)	1
	42-853	*SENSOR - rpm	1
6	78-1864	BELT - alternator (12 hp)	1
	78-1863	BELT - alternator (19 hp)	1
7	45-2498	ALTERNATOR - 37 amp	1
	45-2257	ALTERNATOR - 65 amp	1
	41-9925	ALTERNATOR - 120 amp	1
	55-8751	SCREW - pivot (M10)	1
	55-7005	NUT (M10)	1
	55-7167	SCREW - adjust (M8)	1
	55-2769	WASHER (M8)	1
8	77-3142	PULLEY - alternator (units w/ 12 hp motor)	1
	77-3085	PULLEY - alternator (units w/ 19 hp motor)	1
9	77-3074	PULLEY - standby motor (12 hp, see 261D9)	1
	77-3084	PULLEY - standby motor (19 hp, see 261D9)	1
10	42-854	HARNESS - alternator	1
11	55-5944	KEY	1



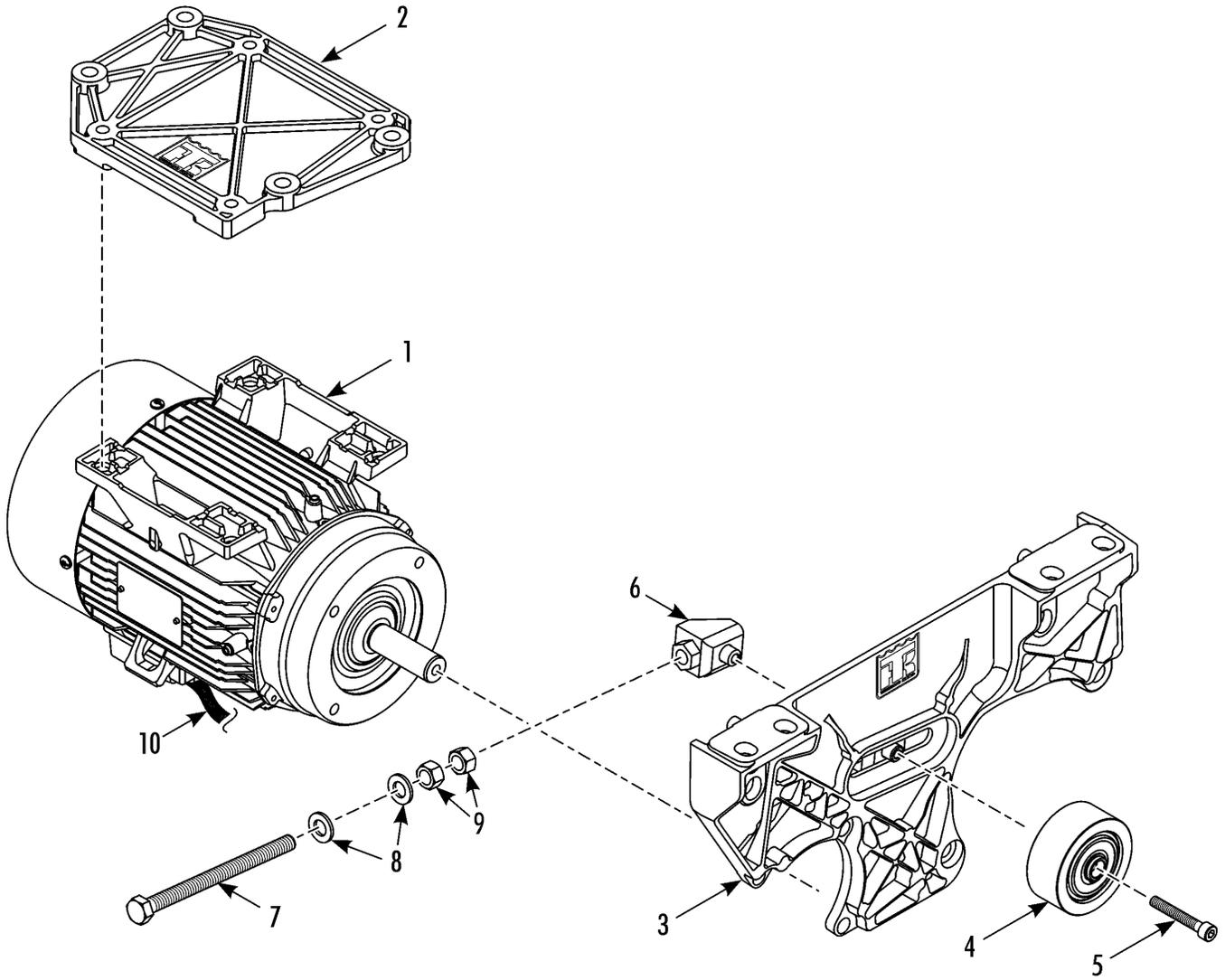
Revised  
01/24/14

**BELT GROUP S-700 (Smart Power / battery  
charger, coolant pump end)**



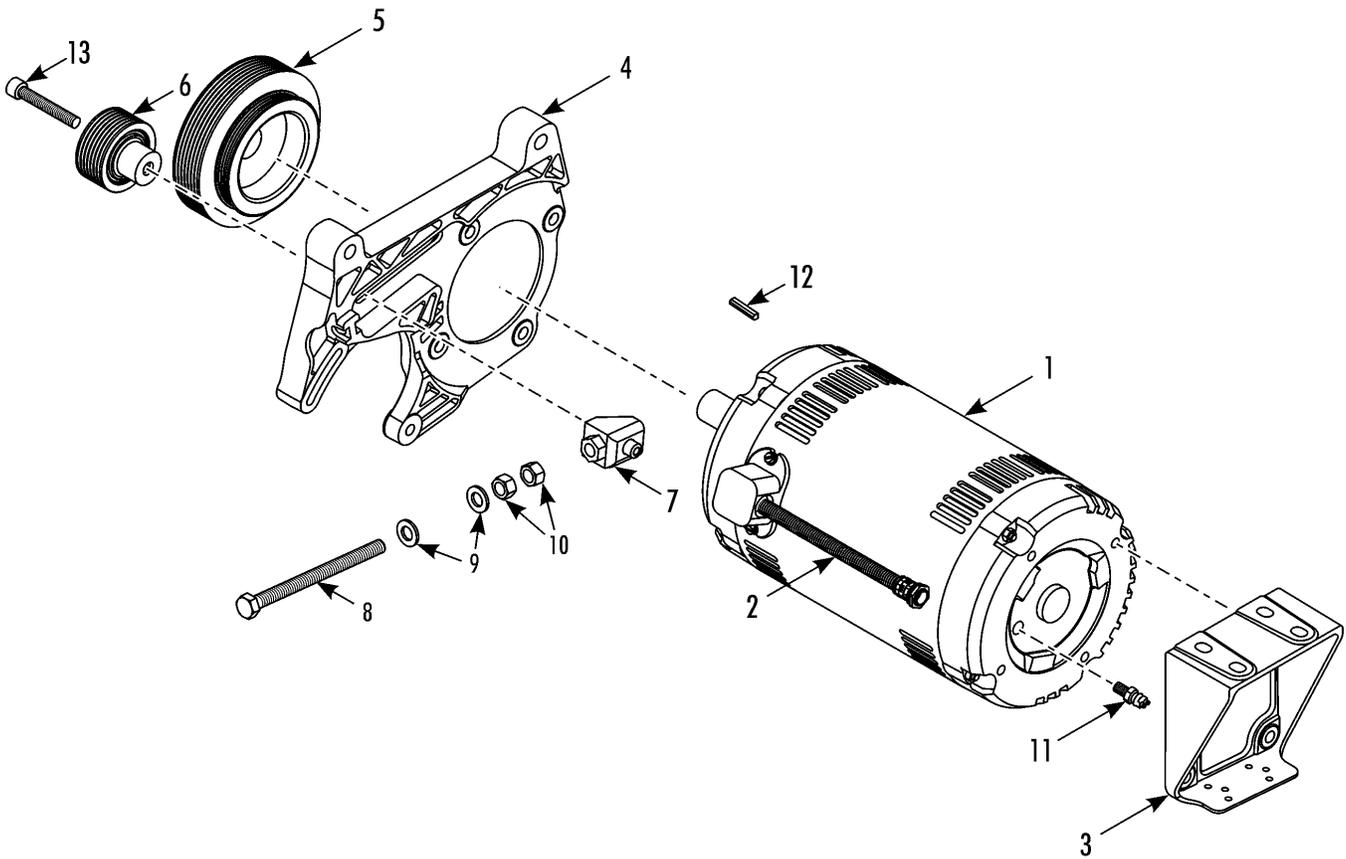
**272H9**

<b>REF</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
1	13-1259	PUMP - coolant (see 272F7)	1
2	78-1340	BELT - pump	1
3	13-353	PULLEY - crankshaft	1
4	13-1204	SPACER - pulley	1
5	77-3129	PULLEY - engine/alternator & generator	1
	55-5589	SCREW - pulley	4
	51-144	FLATWASHER	4
6	78-1856	BELT - generator	1
7	78-1842	TENSIONER - belt (grooved)	1
	55-7069	FLATWASHER	1
8	77-3056	PULLEY - generator	1
	51-1005	SCREW - pulley	2
	55-4613	FLATWASHER	2
9	55-3264	KEY - generator	1
10	104-802	GENERATOR (see 261C6)	1
11	13-358	PULLEY - coolant pump	1
12	77-1427	*SHIM (1 mm)	A/R
	77-2752	*SHIM (0.5 mm)	A/R
13	77-1428	*SPACER	1
14	55-5792	NUT	4





REF	PART NO.	DESCRIPTION	QTY
1	104-802	GENERATOR	1
	55-5424	SCREW - generator (M8)	3
	55-7069	FLATWASHER	3
	55-4680	SCREW - generator (M10)	4
	55-7072	FLATWASHER	4
2	93-273	PLATE - generator	1
	55-4680	SCREW - plate	4
	55-7072	FLATWASHER	4
3	98-9091	BRACKET - generator	1
	55-9726	SCREW - bracket	8
	55-5914	FLATWASHER	8
4	78-1843	TENSIONER - belt	1
5	51-2210	SCREW - tensioner (M8)	1
6	92-9662	SLIDER - tensioner	1
7	51-2384	SCREW - slider (M12)	1
8	55-5914	FLATWASHER	2
9	55-8471	NUT	2
10	42-755	HARNESS - generator (see 261F4)	1



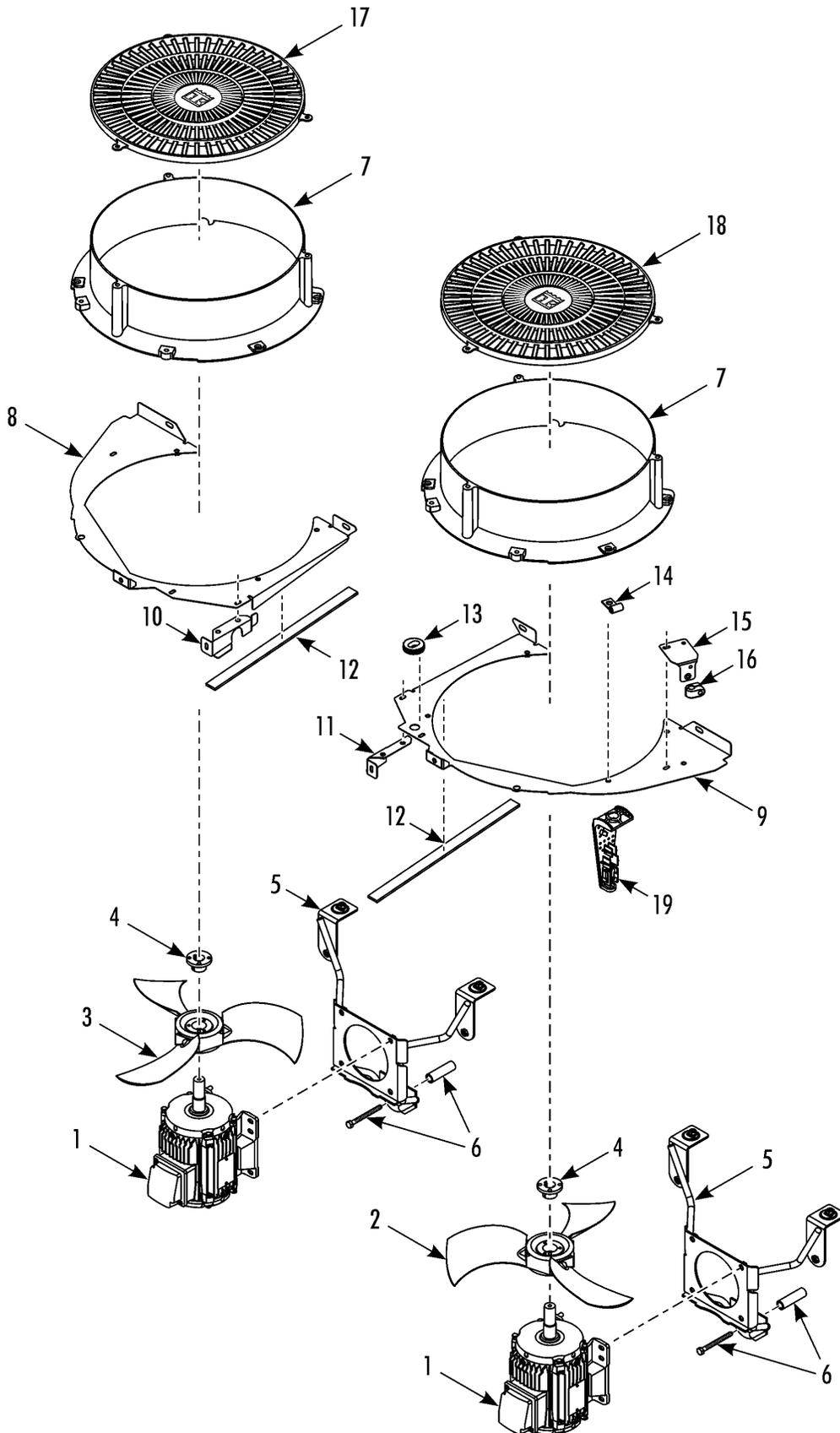
# STANDBY MOTOR (Smart Power)



# 261D9

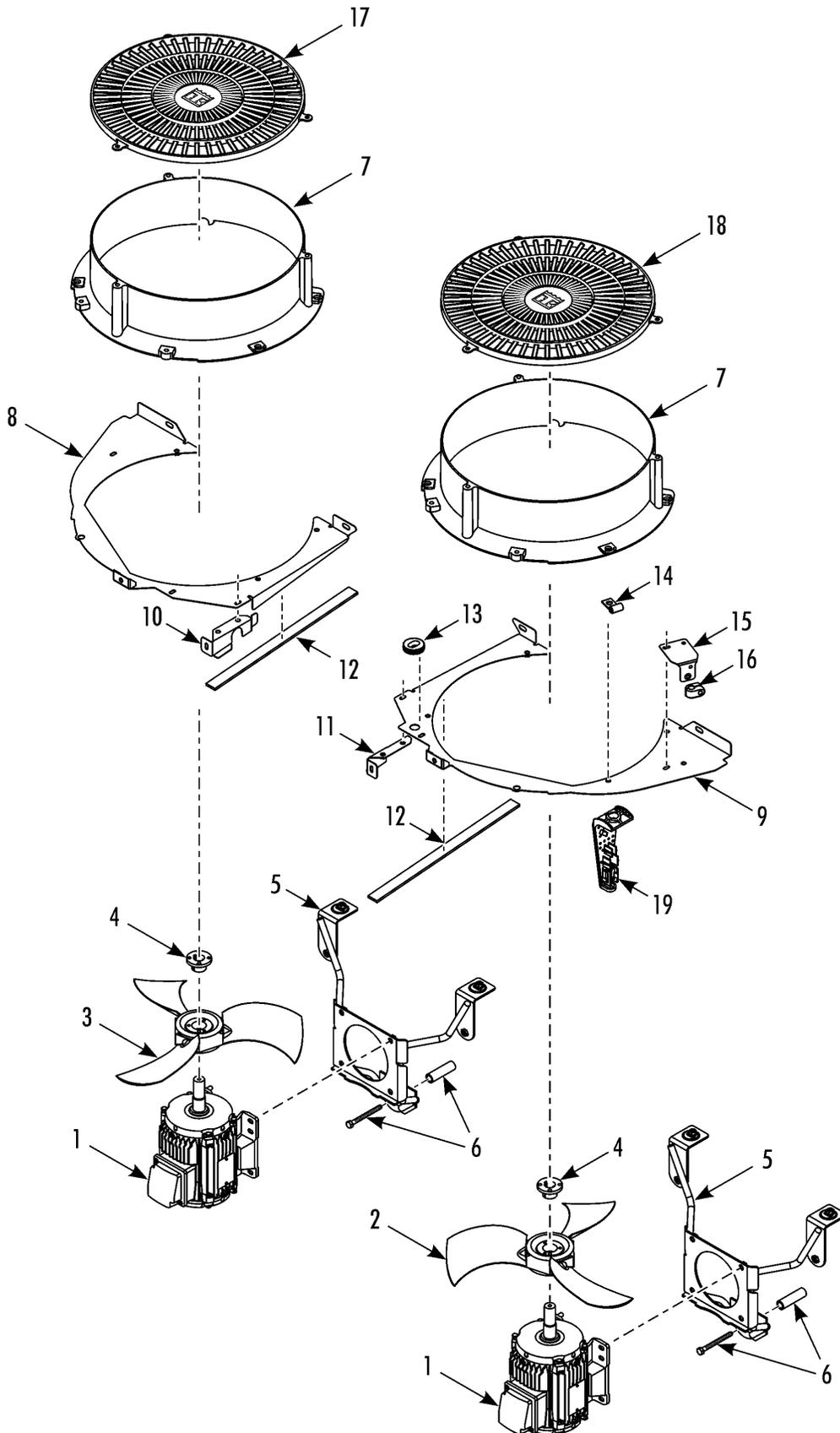
Revised  
01/24/14

REF	PART NO.	DESCRIPTION	QTY
1	104-825	MOTOR - standby (12 hp)	1
	104-826	MOTOR - standby (19 hp)	1
	51-140	SCREW - motor	7
	55-5914	FLATWASHER	7
2	42-729	CONDUIT - harness (25 ft)	A/R
	51-2309	FITTING - conduit (M25)	1
	51-2247	FITTING - conduit (M32)	1
	51-2253	WASHER - sealing	1
	51-2251	NUT	1
	33-4942	O-RING	1
	3	92-9880	MOUNT - motor (opposite drive end)
51-140		SCREW - mount	4
55-5914		FLATWASHER	4
4	92-9881	MOUNT - motor (drive end)	1
	51-2310	SCREW - mount	2
5	77-3074	PULLEY - standby motor (12 hp)	1
	77-3084	PULLEY - standby motor (S-600, 19 hp)	1
	77-3139	PULLEY - standby motor (S-700, 19 hp)	1
	55-9724	SCREW - pulley	2
	55-4613	FLATWASHER	2
	78-1900	KIT - tensioner (grooved)	1
6	13-1982	*TENSIONER - belt	1
7	93-1185	*SLIDER - tensioner	1
8	51-2384	SCREW - slider (M12)	1
9	55-5914	FLATWASHER	2
10	55-8471	NUT	2
11	42-853	SENSOR - rpm	1
12	55-5944	KEY	1
13	55-8586	SCREW - tensioner (M10)	1
	55-4625	FLATWASHER	1





REF	PART NO.	DESCRIPTION	QTY
1	104-804	MOTOR - condenser	2
	42-1280	*PROTECTOR - thermal	1
	51-2776	SCREW - motor	8
2	78-1879	FAN - condenser (roadside, CCW)	1
3	78-1825	FAN - condenser (curbside, CW)	1
4	77-3073	*BUSHING - fan	2
5	93-774	BRACKET - motor (condenser)	2
	51-2770	SCREW - bracket	8
6	51-2593	BUSHING - bulkhead	2
	51-891	SCREW - bushing (90 mm)	2
	55-2904	WASHER	2
7	78-1841	ORIFICE - fan	2
	51-2759	SCREW - orifice	8
	108-1850	WASHER	8
8	93-1217	PANEL - fan (top, curbside)	1
9	93-1218	PANEL - fan (top, roadside)	1
	93-234	PANEL - fan (top, roadside, S-700)	1
	51-2758	SCREW - panel (16 mm)	5
	51-2770	SCREW - panel (20 mm)	4
	51-953	WASHER	9
10	92-9672	SHIELD - condenser (curbside)	1
11	92-9671	SHIELD - condenser (roadside)	1
	51-2758	SCREW - shield	4
12	99-8562	STRIP - sealing (25 ft, cut to length)	A/R
13	33-4923	GROMMET	1
14	51-176	CLAMP - harness (before Oct 13)	1
15	93-235	BRACKET - sensor (before Oct 13)	1
	51-2758	SCREW - bracket (before Oct 13)	1
16	55-6388	CLAMP - sensor (before Oct 13)	1
	51-2766	SCREW - clamp (before Oct 13)	1
17	92-9673	GRILLE - fan guard (curbside, CW)	1
18	93-395	GRILLE - fan guard (roadside, CCW)	1
	51-2759	SCREW - grille	6



# CONDENSER FANS GROUP



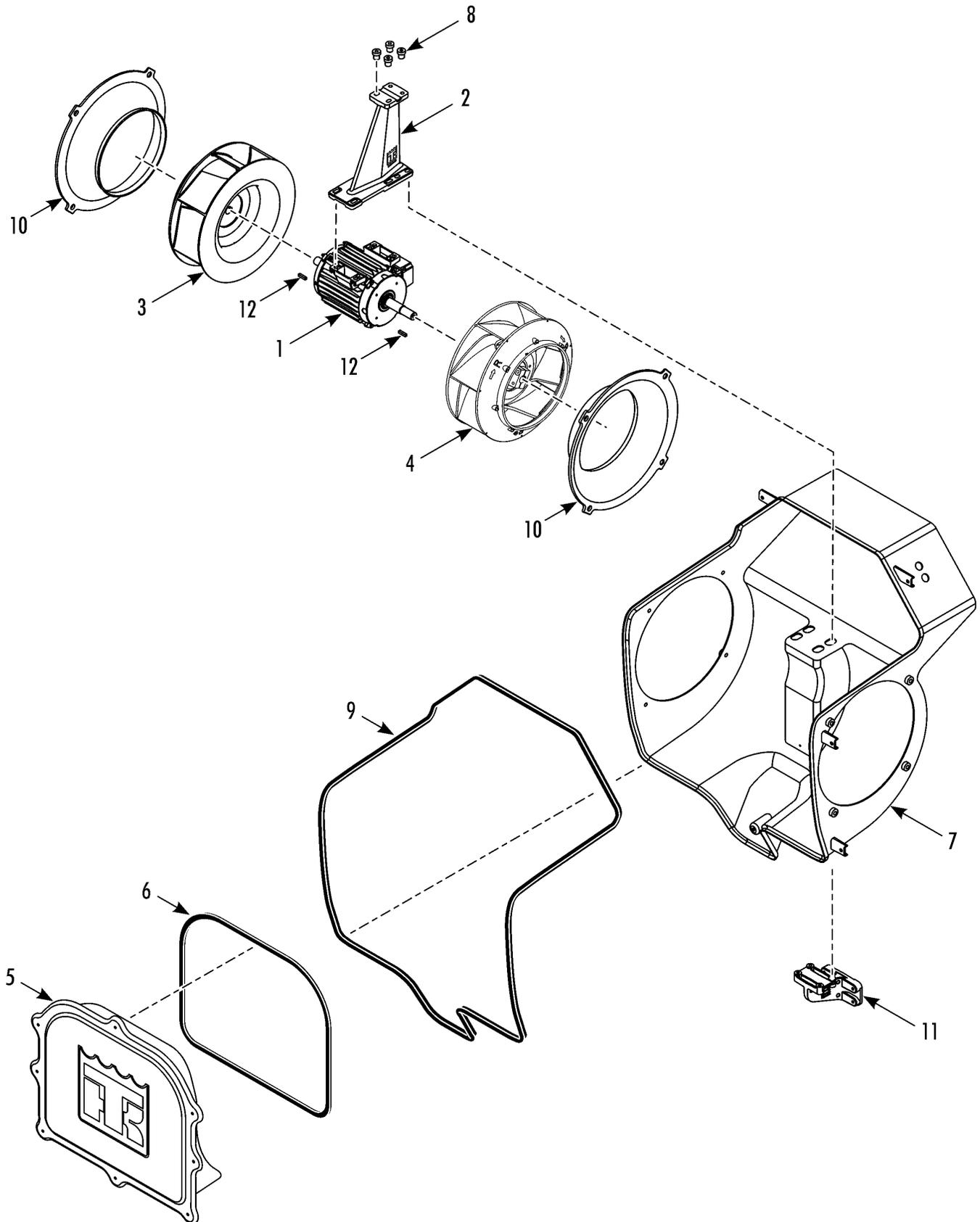
# 261A0

Revised  
01/18/14

---

REF	PART NO.	DESCRIPTION	QTY
19	93-1442	BRACKET - sensor (Oct 13 & after)	1

---



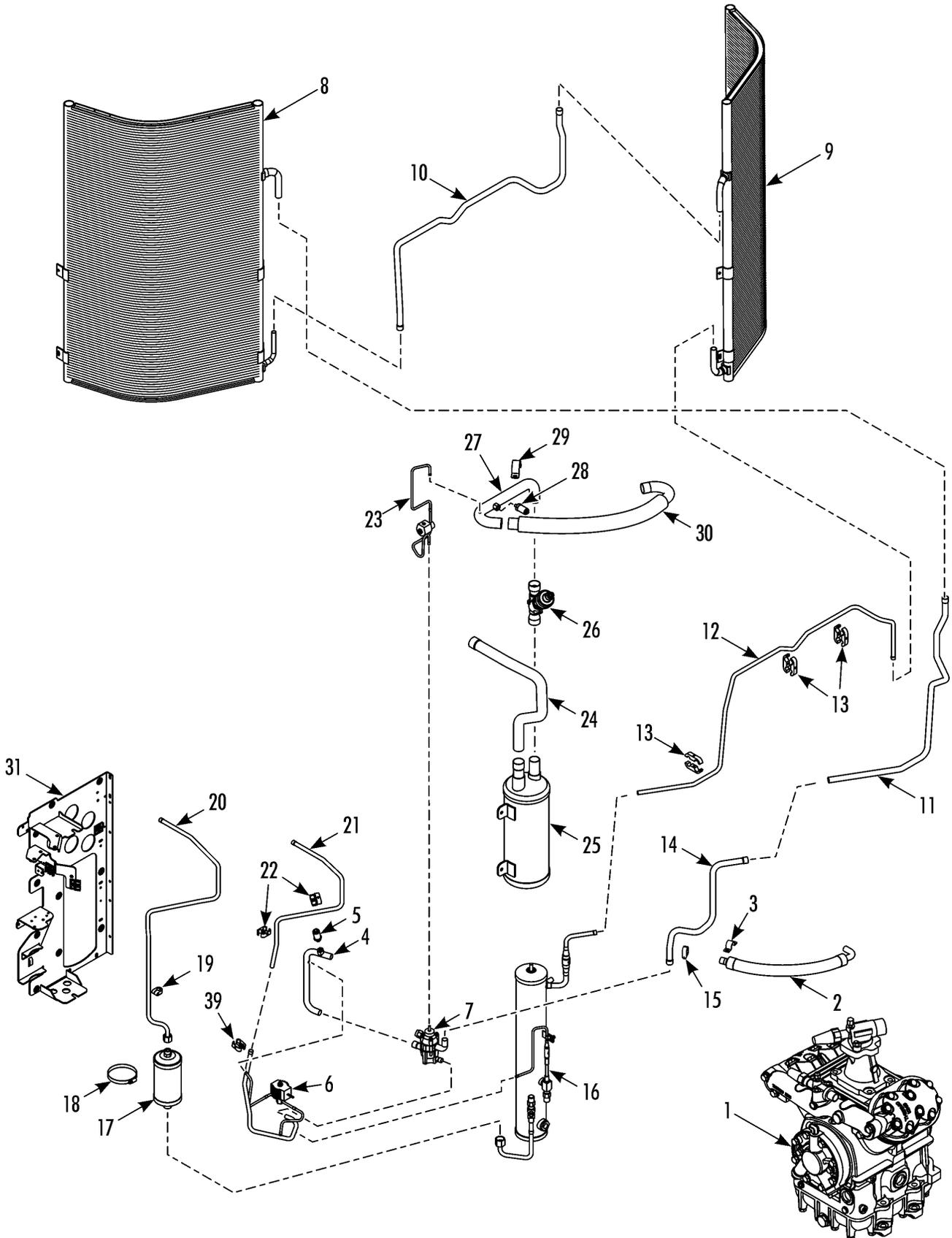
# EVAPORATOR BLOWER GROUP



# 261B7

Revised  
01/24/14

REF	PART NO.	DESCRIPTION	QTY
1	104-809	MOTOR - evaporator blower (S-600, C-600)	1
	104-823	MOTOR - evaporator blower (S-600M, S-700)	1
	42-1278	*PROTECTOR - thermal (high speed)	1
	42-1279	*PROTECTOR - thermal (low speed)	1
	55-7828	SCREW - motor	4
	55-7085	FLATWASHER	4
2	92-9686	BRACKET - motor	1
	51-1119	SCREW - bracket	4
	55-4184	WASHER	4
	55-7825	NUT	4
3	78-1819	BLOWER - evaporator (curbside)	1
4	78-1818	BLOWER - evaporator (roadside)	1
	55-8137	SCREW - blower	4
	55-7085	FLATWASHER	4
5	98-9133	DOOR - access	1
6	33-4924	*SEAL - access door	1
7	98-8972	HOUSING - evaporator blower	1
8	51-2225	BUSHING - evaporator blower (top)	4
9	98-8973	INLET - spinning	2
	51-2200	SCREW - inlet	12
	51-953	WASHER	12
12	55-3264	KEY - motor	2
11	92-9687	BRACKET - housing	1
	55-8137	SCREW - bracket	4
	51-953	WASHER	4



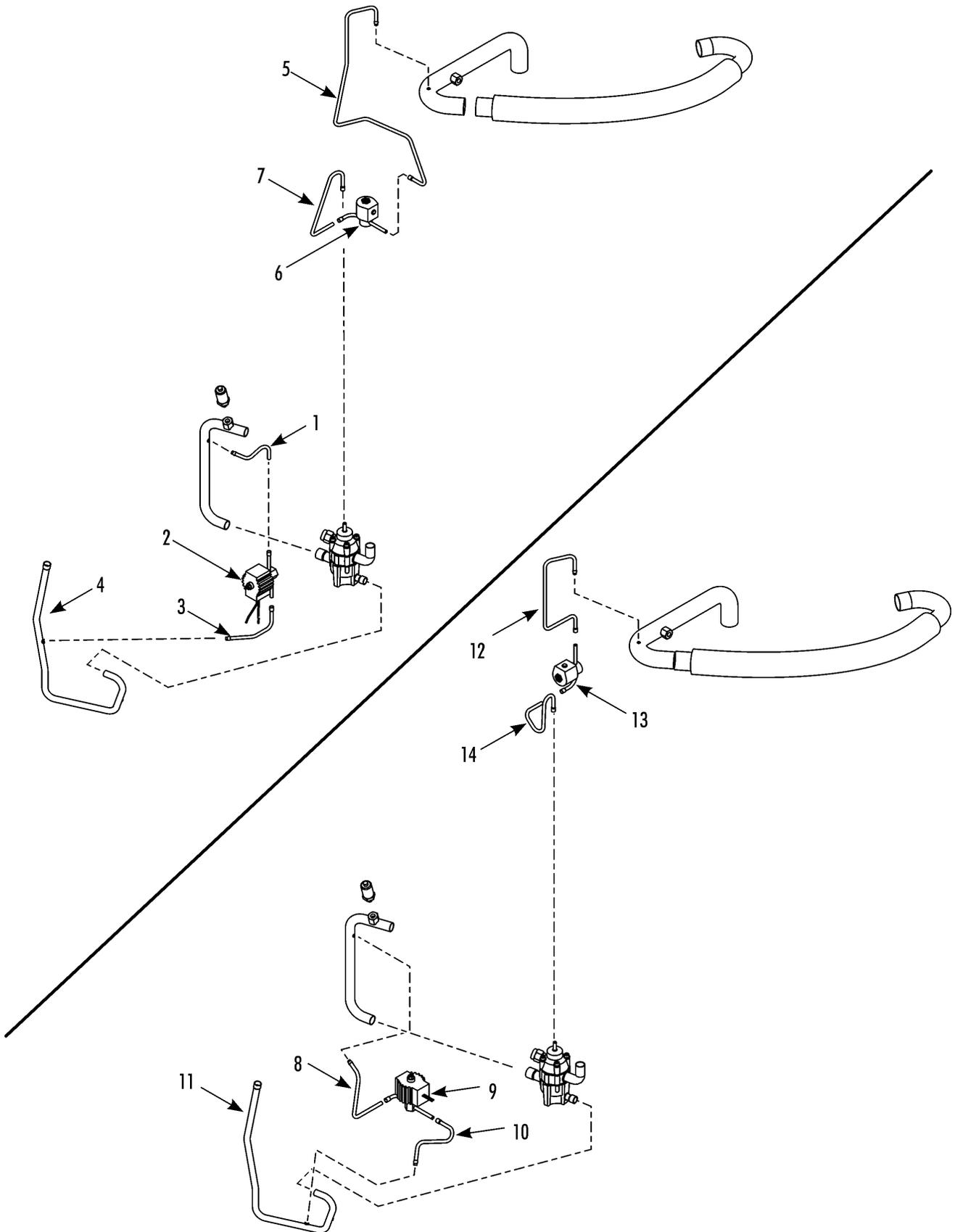
## REFRIGERATION CONDENSER



272H6

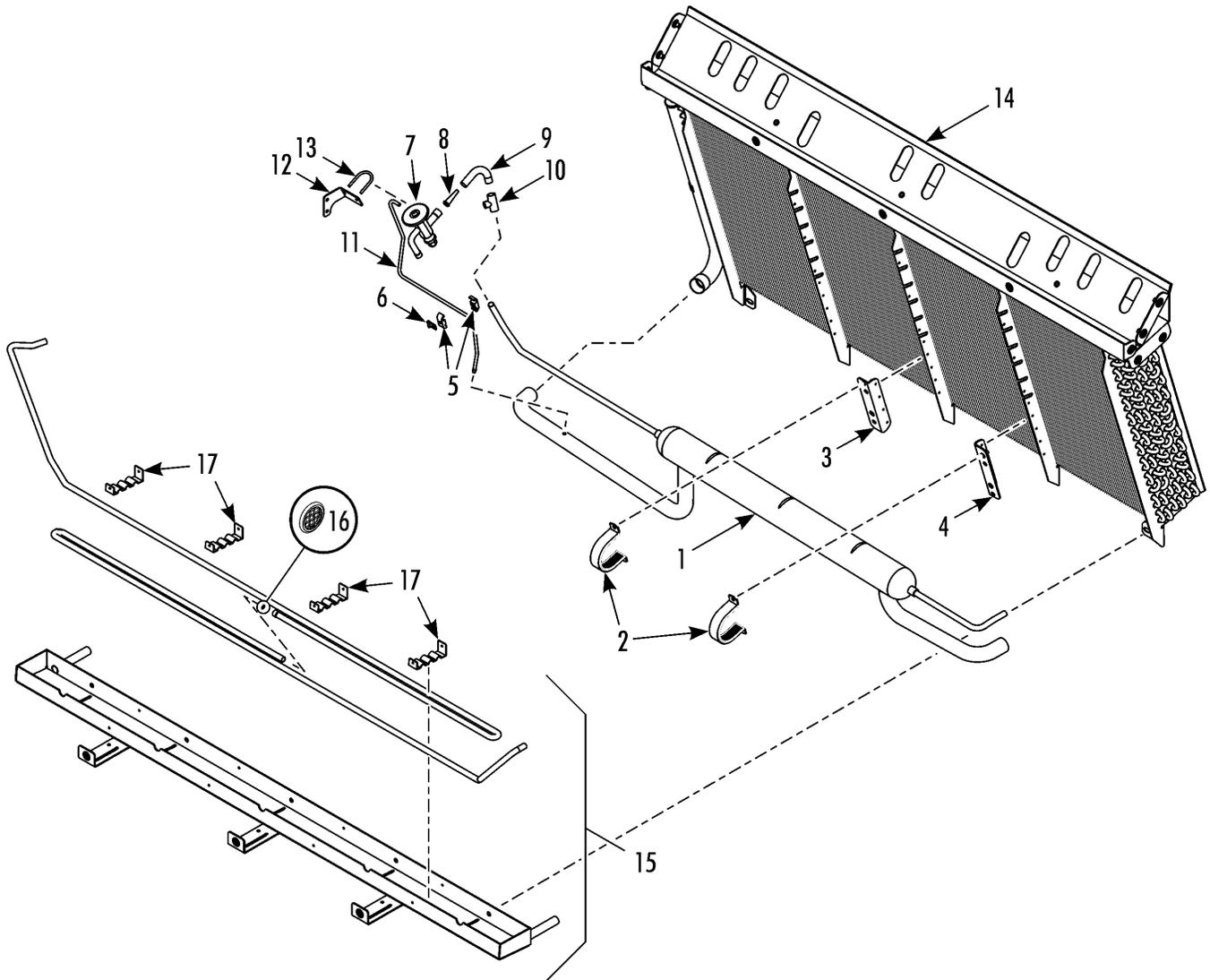
Revised  
01/30/14

REF	PART NO.	DESCRIPTION	QTY
1	8102-900	COMPRESSOR - X430 LS C5 (see 261A9)	1
2	61-6428	VIBRASORBER - discharge	1
3	93-270	CLAMP - vibrasorber	1
4	61-5980	TUBE - discharge to 3-way valve	1
5	42-1309	TRANSDUCER - discharge (500 psi)	1
6	61-6626	SOLENOID - hot gas bypass (see 275B8)	1
7	61-5978	VALVE - 3-way (see 261H1)	1
8	67-2752	COIL - condenser (curbside)	1
9	67-2751	COIL - condenser (roadside)	1
10	61-5967	TUBE - coil to coil	1
11	61-5969	TUBE - receiver to curbside coil	1
12	61-5968	TUBE - roadside coil to receiver	1
13	91-3171	CLAMP - tube	6
14	61-5979	TUBE - 3-way to condenser	1
15	91-372	CLAMP - tube	1
16	67-2687	TANK - receiver (see 261G1)	1
17	61-600	DEHYDRATOR	1
18	55-2688	CLAMP - dehydrator	1
19	91-759	CLAMP - tube	3
20	61-5988	TUBE - dehydrator to exchanger	1
21	61-6066	TUBE - joint to evaporator (hot gas)	1
22	55-6730	CLAMP - tube	4
23	61-6168	SOLENOID - pilot	1
24	61-5976	TUBE - exchanger to accumulator	1
25	67-2714	TANK - accumulator	1
26	61-3764	VALVE - throttling (electronic)	1
	40-947	*KIT - valve repair (incl motor, piston & connector)	1
27	61-5977	TUBE - accumulator to vibrasorber	1
28	42-1310	TRANSDUCER - suction (200 psi)	1
29	93-269	CLAMP - vibrasorber	1
30	61-5901	VIBRASORBER - suction	1
31	93-1194	BRACKET - refrigeration	1





REF	PART NO.	DESCRIPTION	QTY
1	61-5982	TUBE - inlet	1
2	61-4941	SOLENOID - hot gas	1
	42-1470	*COIL	1
3	61-5983	TUBE - outlet	1
4	61-6065	TUBE - 3-way to joint (hot gas)	1
5	61-5989	TUBE - solenoid to suction tube	1
6	61-5781	SOLENOID - pilot	1
	41-1521	*COIL	1
7	61-5990	TUBE - solenoid to 3-way valve	1
8	61-6716	TUBE - inlet	1
9	61-6626	SOLENOID - hot gas	1
	42-1470	*COIL	1
10	61-6717	TUBE - outlet	1
11	61-6715	TUBE - 3-way to joint (hot gas)	1
12	61-6718	TUBE - solenoid to suction tube	1
13	61-6168	SOLENOID - pilot	1
	41-1521	*COIL	1
14	61-6719	TUBE - solenoid to 3-way valve	1



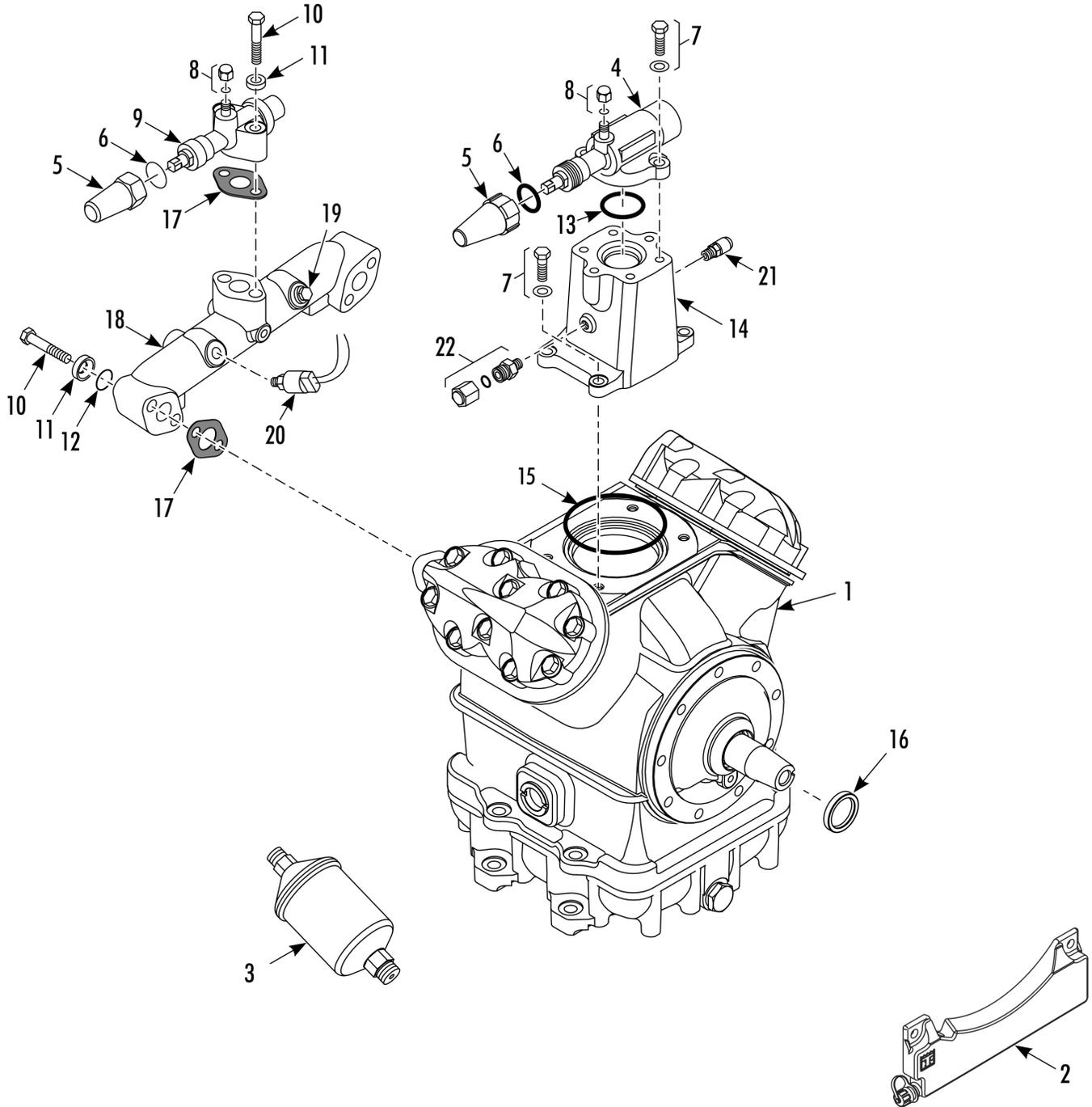
## REFRIGERATION EVAPORATOR



261B2

Revised  
01/27/14

REF	PART NO.	DESCRIPTION	QTY
1	67-2728	HEAT EXCHANGER	1
2	92-6491	CLAMP - heat exchanger	2
	51-2200	SCREW - clamp	4
3	92-9655	BRACKET - clamp (curbside)	1
	55-9698	*INSERT - threaded (M6)	5
4	92-9656	BRACKET - clamp (roadside)	1
	55-9698	*INSERT - threaded (M6)	5
	51-1183	RIVET - bracket	8
5	55-7600	CLAMP - tube	2
	51-2254	SCREW - clamp	1
	55-7075	FLATWASHER	2
	55-7008	NUT	2
6	51-2257	CLAMP (1/8)	1
7	61-6283	VALVE - expansion	1
8	66-4441	SCREEN - expansion valve (outlet)	1
9	61-6062	TUBE - joint to expansion valve	1
10	66-620	TEE	1
11	61-6063	TUBE - equalizer	1
12	92-9660	BRACKET - valve	1
	51-2202	SCREW - bracket	3
13	51-2378	U-BOLT	1
	55-2001	FLATWASHER	2
	55-4560	NUT	2
14	67-2727	COIL - evaporator (S-600/C-600, see 261B1)	1
	67-2878	COIL - evaporator (S-700, see 261B1)	1
15	67-2793	PAN - defrost drain (inc drain pan, tubes & brackets)	1
16	61-6223	*SCREEN - filter	1
17	92-9658	*BRACKET - defrost tube	4
	51-1183	*RIVET - bracket	8



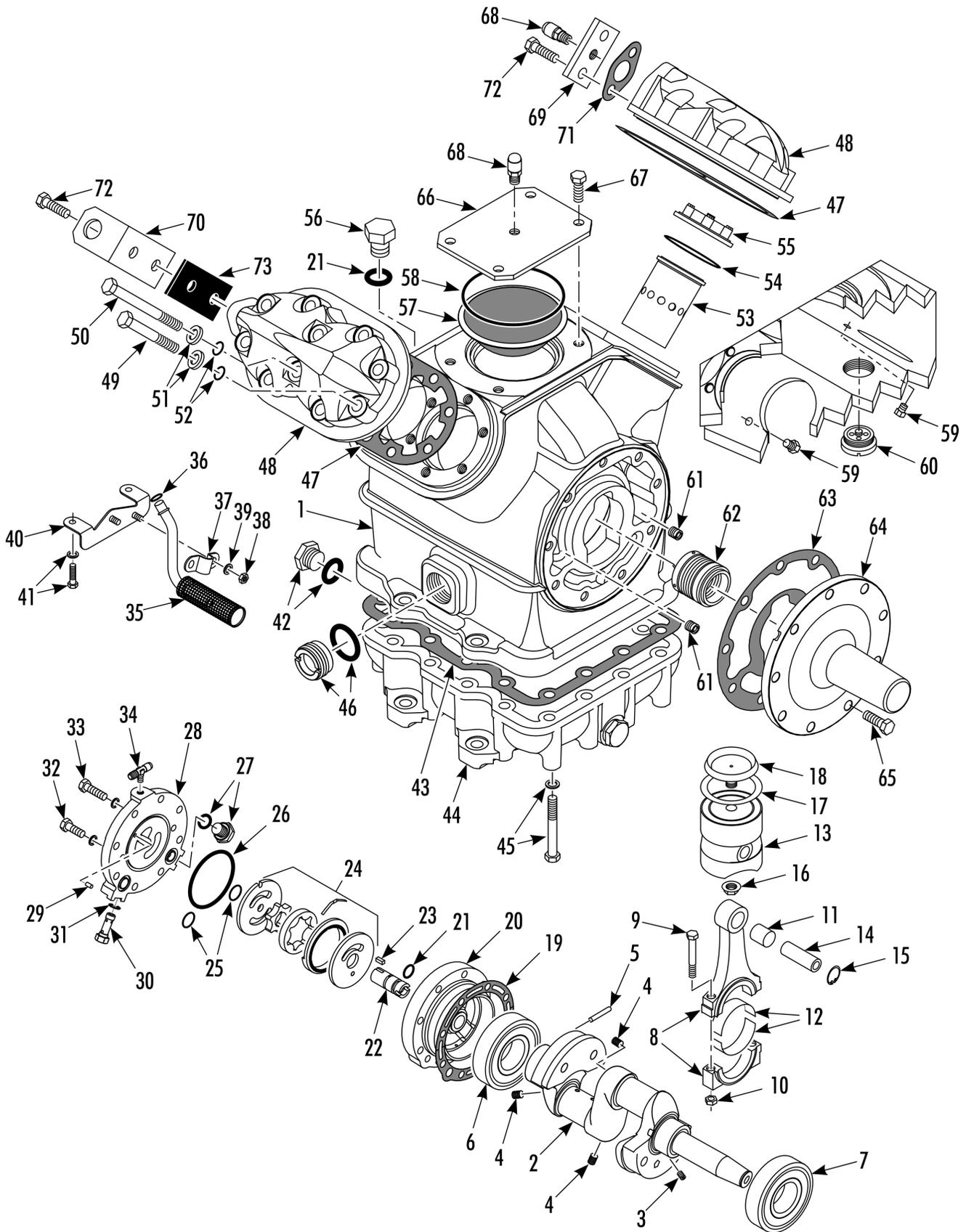
# COMPRESSOR GROUP - X430 (LS C5)



# 261A9

Revised  
02/05/14

REF	PART NO.	DESCRIPTION	QTY
1	8102-900	COMPRESSOR - X430 LS C5 (new exchange, dry, see 223C5)	1
2	22-1315	BOTTLE - oil collection (see 242D0)	1
3	66-7800	FILTER - oil (see 212B7)	1
4	66-5318	VALVE - suction	1
5	66-3015	*CAP - service valve (incl gasket)	1
6	33-350	**GASKET - cap	1
7	55-9106	SCREW - valve & adapter	6
	55-896	FLATWASHER	6
8	55-1983	CAP - flare	2
	33-768	GASKET - flare	2
9	66-129	VALVE - discharge (incl 5 & 6)	1
10	55-6822	SCREW - discharge valve & manifold	6
11	55-6804	WASHER - sealing	6
12	33-2019	O-RING - manifold	4
13	33-4615	O-RING - suction valve	1
14	61-5658	ADAPTER - suction valve	1
15	33-1221	O-RING - adapter	1
16	33-3004	SEAL - oil (large shaft, 1-3/16 dia)	1
17	33-2805	GASKET - manifold & valve	3
18	22-1269	MANIFOLD - discharge	1
19	51-1498	PLUG - pipe (7/16 - 20)	1
20	42-708	SWITCH - hpco	1
	33-4277	GASKET - plug & switch	1
21	11-2886	VALVE (Schrader)	2
	11-7777	*CORE - valve	1
	55-5672	*CAP - valve	1
	203-385	SEALER - thread	A/R
22	66-8928	ADAPTER - o-ring seal	1
	33-1461	O-RING - cap	1
	66-9387	CAP - adapter	1



# COMPRESSOR - X430 LS C5

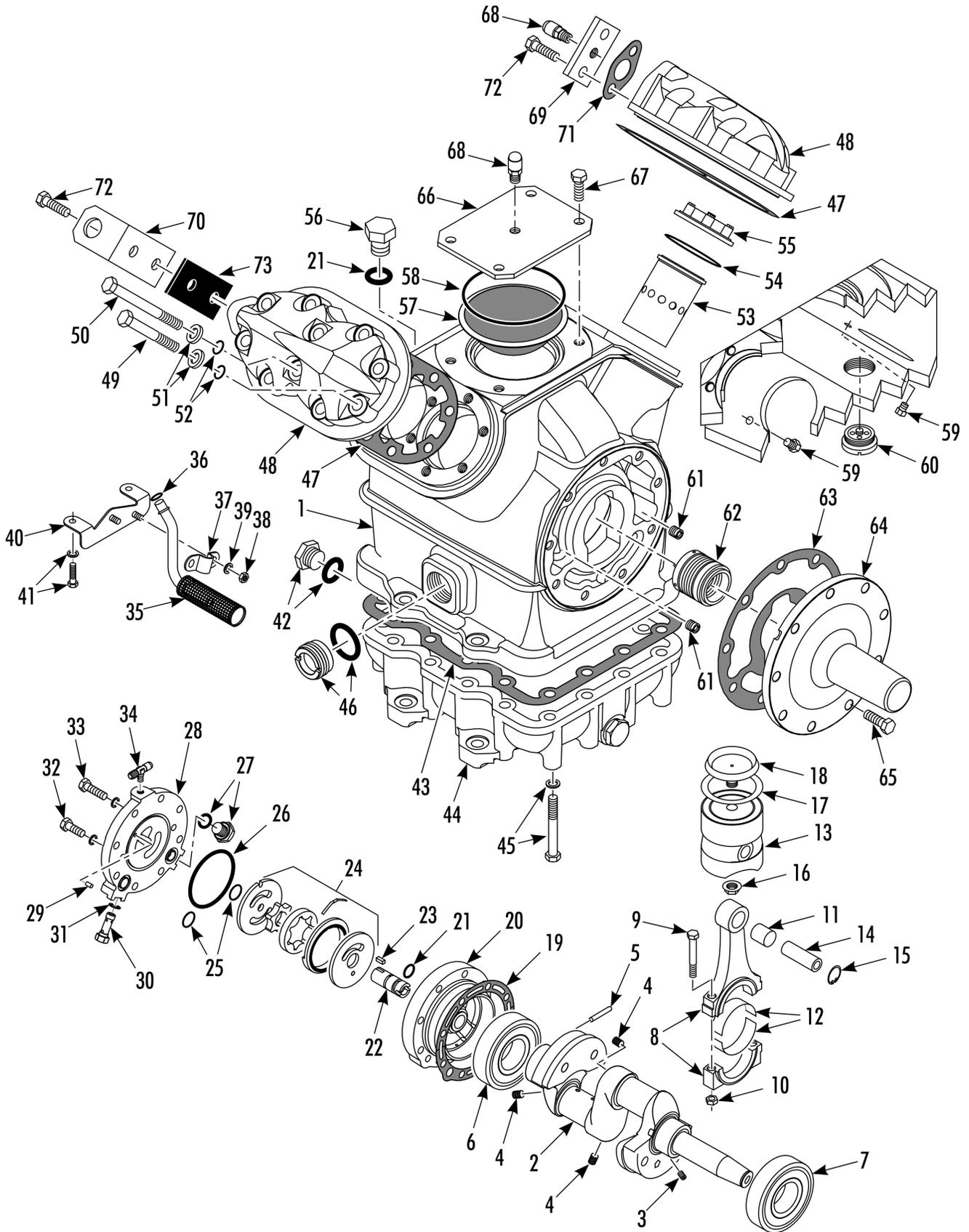


# 223C5

Revised  
08/17/13

REF	PART NO.	DESCRIPTION	QTY
	8102-900	COMPRESSOR - X430 LS C5 (new exchange, dry)	1
	8102-927	COMPRESSOR - X430 LS C5 (EMEIA, dry, reman)	1
1	NSS	*BODY - compressor	1
2	22-1027	*CRANKSHAFT	1
	55-1409	**RIVET - counterweight	A/R
3	22-123	*PLUG - oil metering	1
4	55-4720	*PLUG	3
5	55-4213	*PIN - dowel	1
6	77-169	*BEARING - ball	1
7	77-2872	*BEARING - ball (C5)	1
8	22-639	*ROD - connecting	4
9	55-5062	**BOLT - connecting rod	2
10	51-666	**NUT (12 point)	2
11	11-475	**BUSHING - piston pin	1
12	22-1246	*BEARING SET - connecting rod (standard)	4
	22-1264	*BEARING SET (0.005 us)	4
	22-1265	*BEARING SET (0.010 us)	4
	22-1266	*BEARING SET (0.020 us)	4
	22-1267	*BEARING SET (0.030 us)	4
13	22-850	*PISTON	4
14	NSS	**PIN - piston	4
15	55-2122	**RING - retaining	8
16	51-115	**NUT	1
17	NSS	**REED - piston	1
18	NSS	**HEAD - piston	1
19	33-1549	*GASKET - pump end	1
20	22-1277	*HOUSING - oil pump	1
	55-4210	*PIN - dowel	1
21	33-1223	**O-RING	2
22	22-1149	*SHAFT - oil pump	1
23	55-9760	*KEY - shaft	1
24	22-1160	*PUMP - oil (incl items 21-23)	1
25	33-239	*O-RING	2

NOTE: This compressor does not contain compressor oil. Add one gallon of oil before running compressor. For R404A, R134a & R407C, use 203-513 oil. For R12, R22, R502, R403B, R402A & R401B, use 67-404 oil.



# COMPRESSOR - X430 LS C5

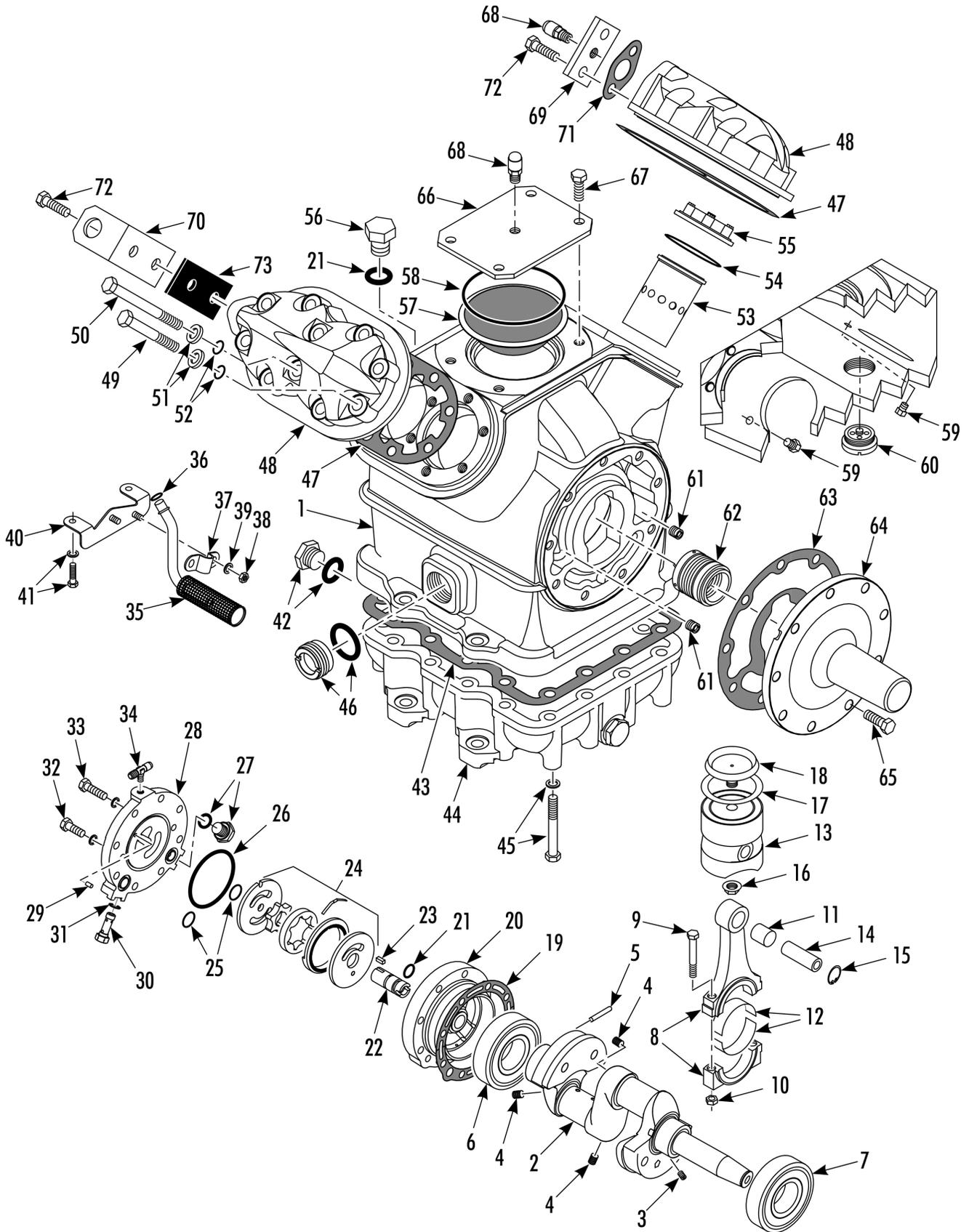


# 223C5

Revised  
08/17/13

REF	PART NO.	DESCRIPTION	QTY
26	33-1175	*O-RING	1
27	55-6752	*PLUG - oil pump cover	1
	33-2095	**O-RING	4
28	22-1278	*COVER - pump	1
29	55-4211	*PIN - dowel	1
30	22-784	*REGULATOR	1
31	33-672	**O-RING	1
32	55-681	*SCREW - cover to housing	2
	51-149	*FLATWASHER	2
33	55-183	*SCREW - pump	8
34	11-9001	*VALVE - tee	1
	203-393	*SEALER - thread	A/R
	55-1983	*CAP - valve	1
35	22-611	*SCREEN - oil pickup	1
36	33-2205	*O-RING	1
37	99-4848	*CLAMP - screen	1
38	55-291	*NUT	1
39	55-366	*LOCKWASHER	2
40	99-4849	*BRACKET - screen	1
41	55-165	*SCREW - bracket	2
	55-366	*LOCKWASHER	2
42	55-6751	*PLUG - magnetic	2
	33-2095	*O-RING	2
43	33-2515	*GASKET - oil sump	16
44	22-747	*SUMP - oil (two drain holes)	1
45	55-1417	*SCREW - oil sump	16
	55-896	*FLATWASHER	16
46	22-350	*SIGHT GLASS	3
	33-822	*O-RING	3
47	33-2552	*GASKET - cylinder head	2
48	22-789	*HEAD - cylinder	2
49	55-6805	*SCREW (2 in lg)	12
50	55-6806	*SCREW (2-5/8 in lg)	8

NOTE: This compressor does not contain compressor oil. Add one gallon of oil before running compressor. For R404A, R134a & R407C, use 203-513 oil. For R12, R22, R502, R403B, R402A & R401B, use 67-404 oil.



# COMPRESSOR - X430 LS C5

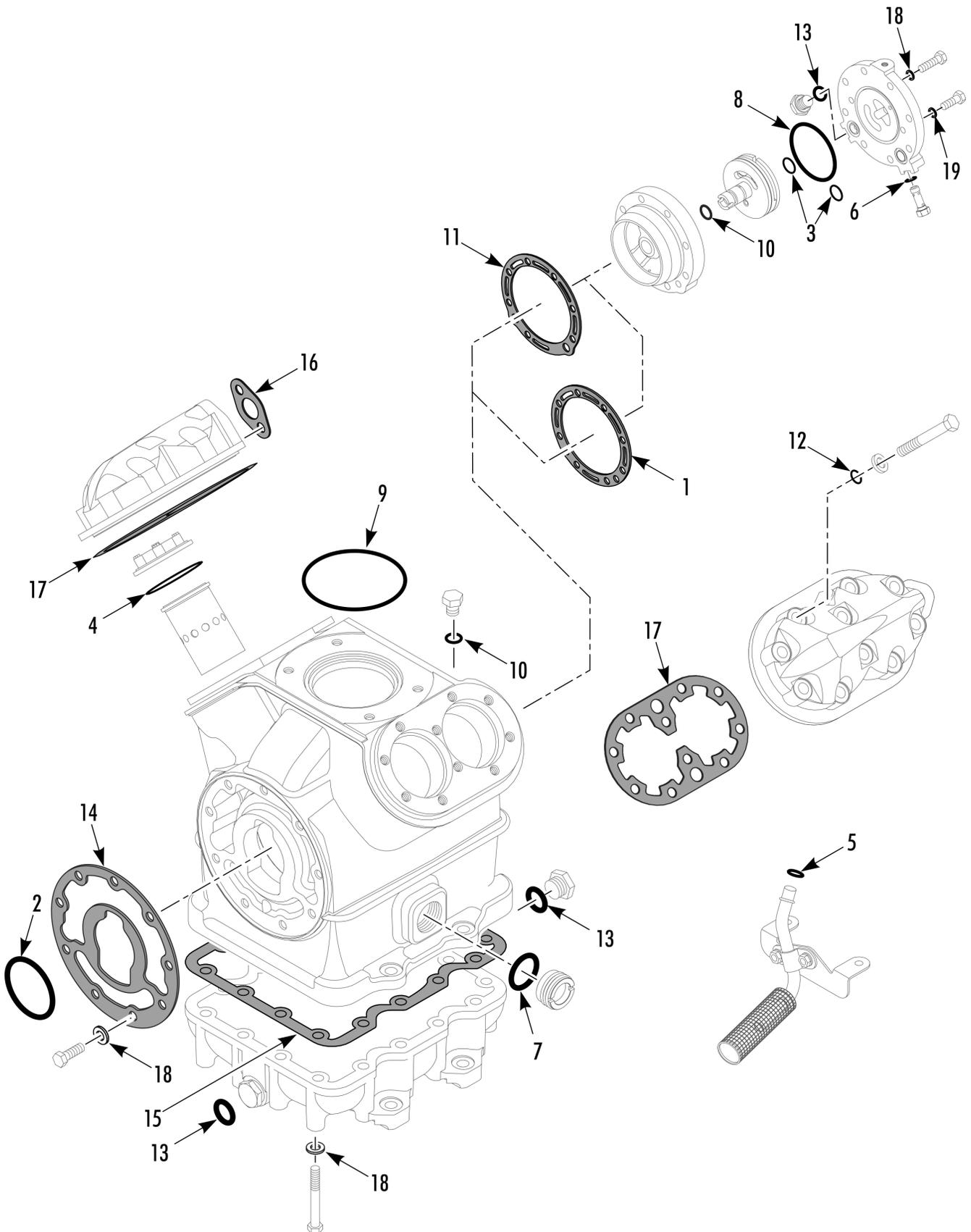


# 223C5

Revised  
08/17/13

REF	PART NO.	DESCRIPTION	QTY
51	55-6804	*WASHER - sealing	20
52	33-2019	*O-RING	20
53	22-656	*SLEEVE - cylinder	4
54	33-408	*O-RING	4
55	22-990	*PLATE - valve	4
56	55-6750	*PLUG - oil fill	1
	66-8043	*PLUG - oil fill (use with compr oil filter tube)	1
57	22-306	*SCREEN - suction	1
58	33-1221	*O-RING	1
59	22-653	*VALVE - check	2
60	22-787	*VALVE - check (oil return)	1
61	22-568	*VALVE - check	2
62	22-1101	*SEAL - crankshaft (for 1-3/16 dia crankshaft)	1
63	33-2513	*GASKET - drive end	1
64	22-671	*PLATE - crankshaft cover	1
65	55-9106	*SCREW - housing	9
	55-896	*FLATWASHER	9
66	99-6545	*PLATE - suction inlet	1
67	55-329	*SCREW - plate	4
68	11-2886	*VALVE (Schrader)	1
	11-7777	*CORE - valve	1
	55-5672	*CAP - valve	1
69	91-5630	*PLATE - cover	1
70	91-9858	*PLATE - cover (w/ lifting hole)	1
71	33-2805	*GASKET - manifold	1
72	55-329	*SCREW - plate	4
73	33-3103	*GASKET - manifold	1
	203-513	*OIL - compressor (use w/ R134a, R404A)	A/R
	67-404	OIL - compressor (R12, R22, R502, R403B, R402A & R401B)	A/R
	30-243	KIT - gasket	1

NOTE: This compressor does not contain compressor oil. Add one gallon of oil before running compressor. For R404A, R134a & R407C, use 203-513 oil. For R12, R22, R502, R403B, R402A & R401B, use 67-404 oil.



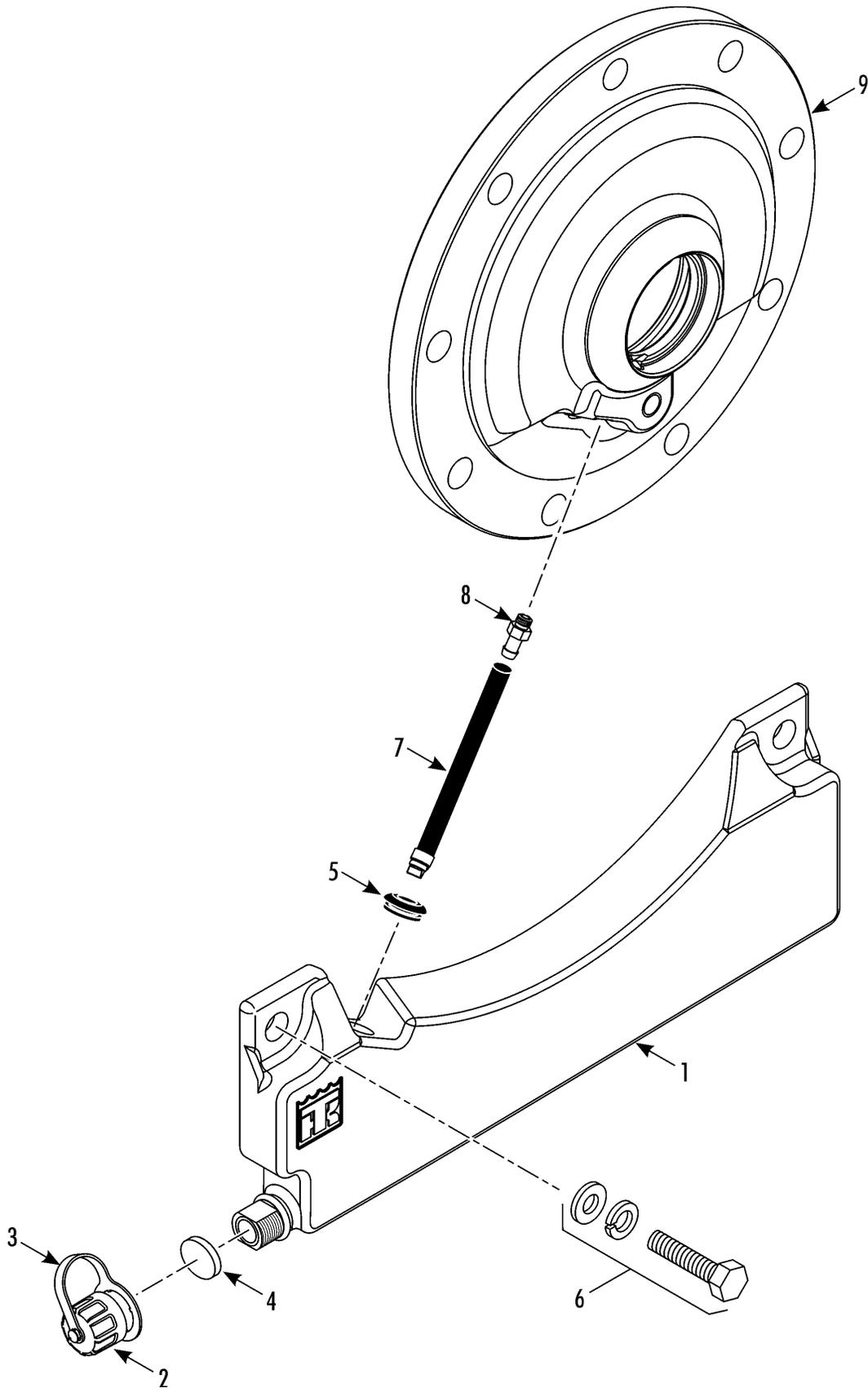
# COMPRESSOR GASKET SET (30-243, X430)



# 131F1

Revised  
01/29/14

REF	PART NO.	DESCRIPTION	QTY
	30-243	KIT - gasket	1
1	33-110	*GASKET - pump housing (X426)	1
2	33-235	*O-RING - dust seal	1
3	33-239	*O-RING - oil galley	2
4	33-408	*O-RING - cylinder sleeve	4
5	33-2205	*O-RING - oil pickup tube	1
6	33-672	*O-RING - regulator	1
7	33-822	*O-RING - sight glass	3
8	33-1175	*O-RING - oil pump cover	1
9	33-1221	*O-RING - throttling valve	1
10	33-1223	*O-RING - oil pump & oil fill	2
11	33-1549	*GASKET - pump housing (X430)	1
12	33-2019	*O-RING - cylinder head screw	24
13	33-2095	*O-RING - oil pump plug & drain plug	3
14	33-2513	*GASKET - drive plate	1
15	33-2515	*GASKET - oil sump	1
16	33-2805	*GASKET - manifold	2
17	33-2552	*GASKET - cylinder head	2
18	55-896	*WASHER - compressor seal (3/8)	A/R
19	55-895	*WASHER - oil pump	2



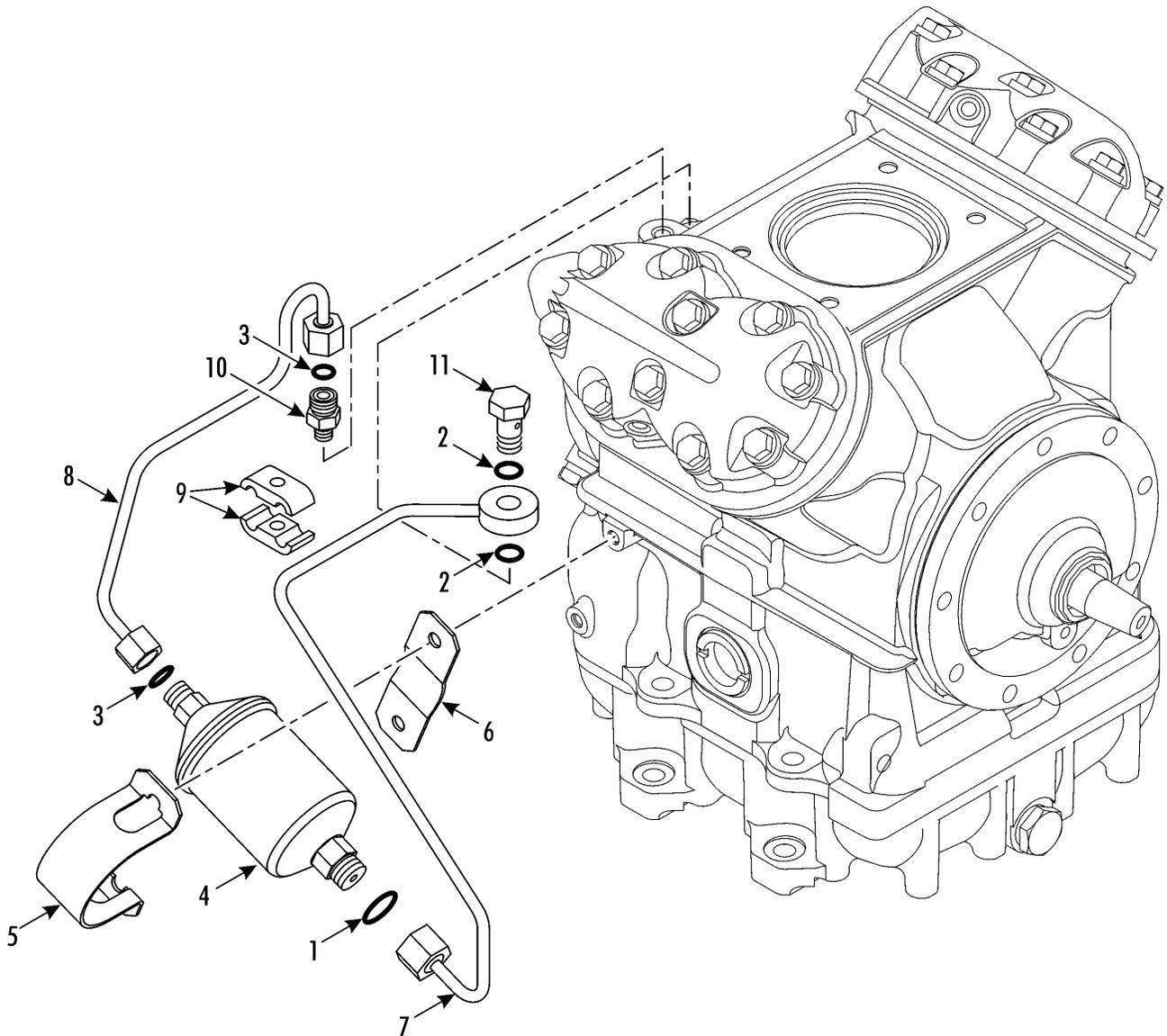
Revised  
12/13/13

# COMPRESSOR OIL BOTTLE



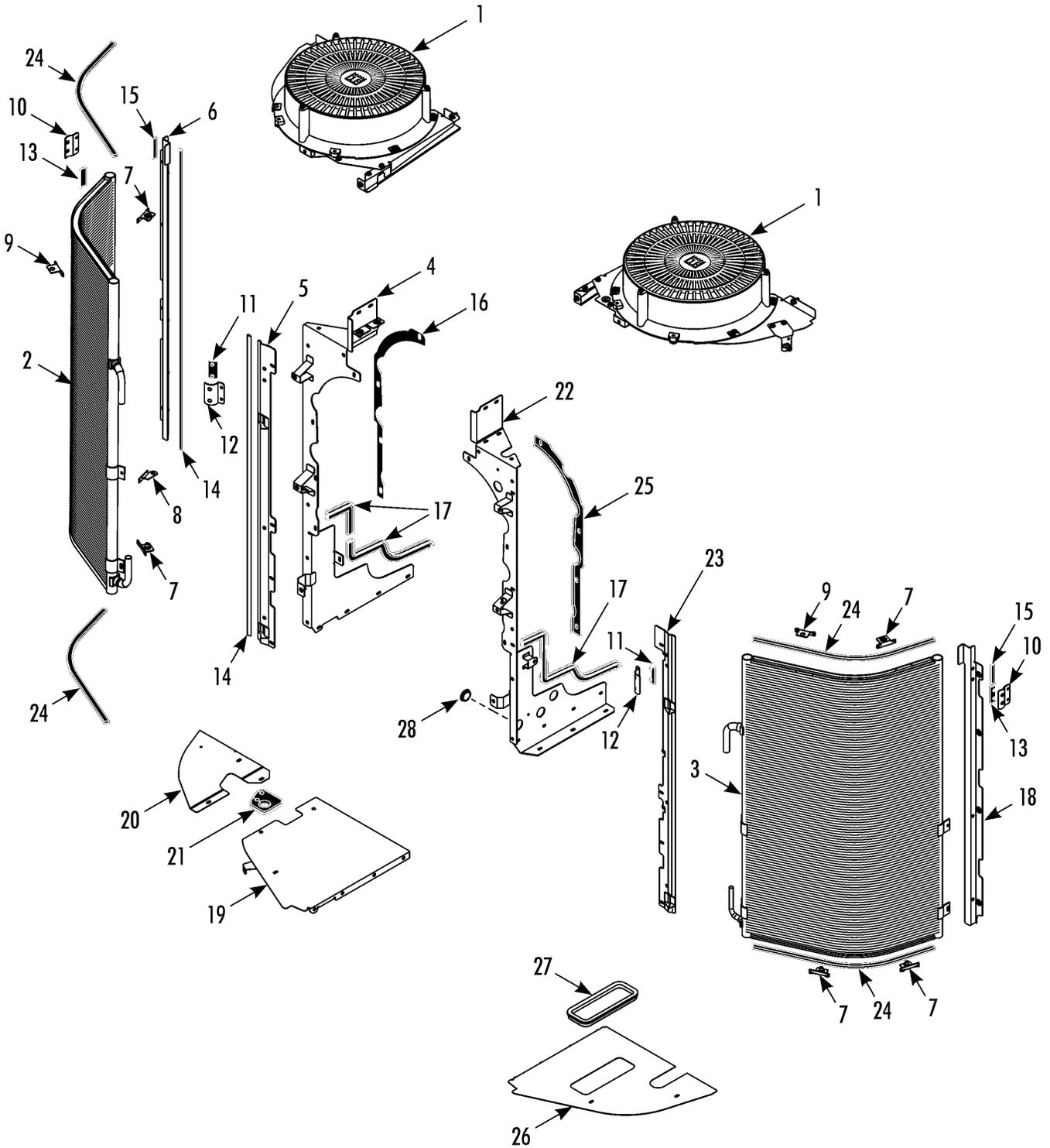
# 242D0

REF	PART NO.	DESCRIPTION	QTY
1	22-1315	BOTTLE - oil collection	1
2	22-1328	*CAP - bottle	1
3	51-2020	*TETHER - cap	1
4	51-2021	*WASHER - sealing	1
5	33-4631	*GROMMET	1
6	55-145	SCREW - tank	2
	55-411	FLATWASHER	2
	55-366	LOCKWASHER	2
7	22-1329	TUBE - oil	1
	22-1374	TUBE - oil (with check valve)	1
8	22-1042	FITTING - barb	1
9	22-1332	COVER - drive end (X430 LS, see 261A9)	1
10	12-1045	COVER - drive end (after 2/14, X430P)	1



**COMPRESSOR OIL FILTER KIT (20-184)****212B7**Revised  
11/16/12

<b>REF</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
	20-184	KIT - compressor oil filter	1
1	33-1015	*O-RING (3/8)	1
2	33-1223	*O-RING (9/16)	2
3	33-1461	*O-RING (5/16)	2
4	66-7800	*FILTER - oil	1
5	92-1893	*BRACKET - filter clamp	1
	55-8848	*SCREW - bracket	2
	55-790	*LOCKWASHER	2
	55-371	*FLATWASHER	2
6	91-8080	*BRACKET - filter	1
7	61-1453	*TUBE - outlet	1
8	61-1454	*TUBE - inlet	1
9	55-7119	*CLAMP	2
	55-544	*SCREW - clamp	1
	55-411	*FLATWASHER	1
	55-4118	*NUT	1
10	66-8928	*ADAPTER - oil pump	1
11	66-8043	*PLUG - oil return	1



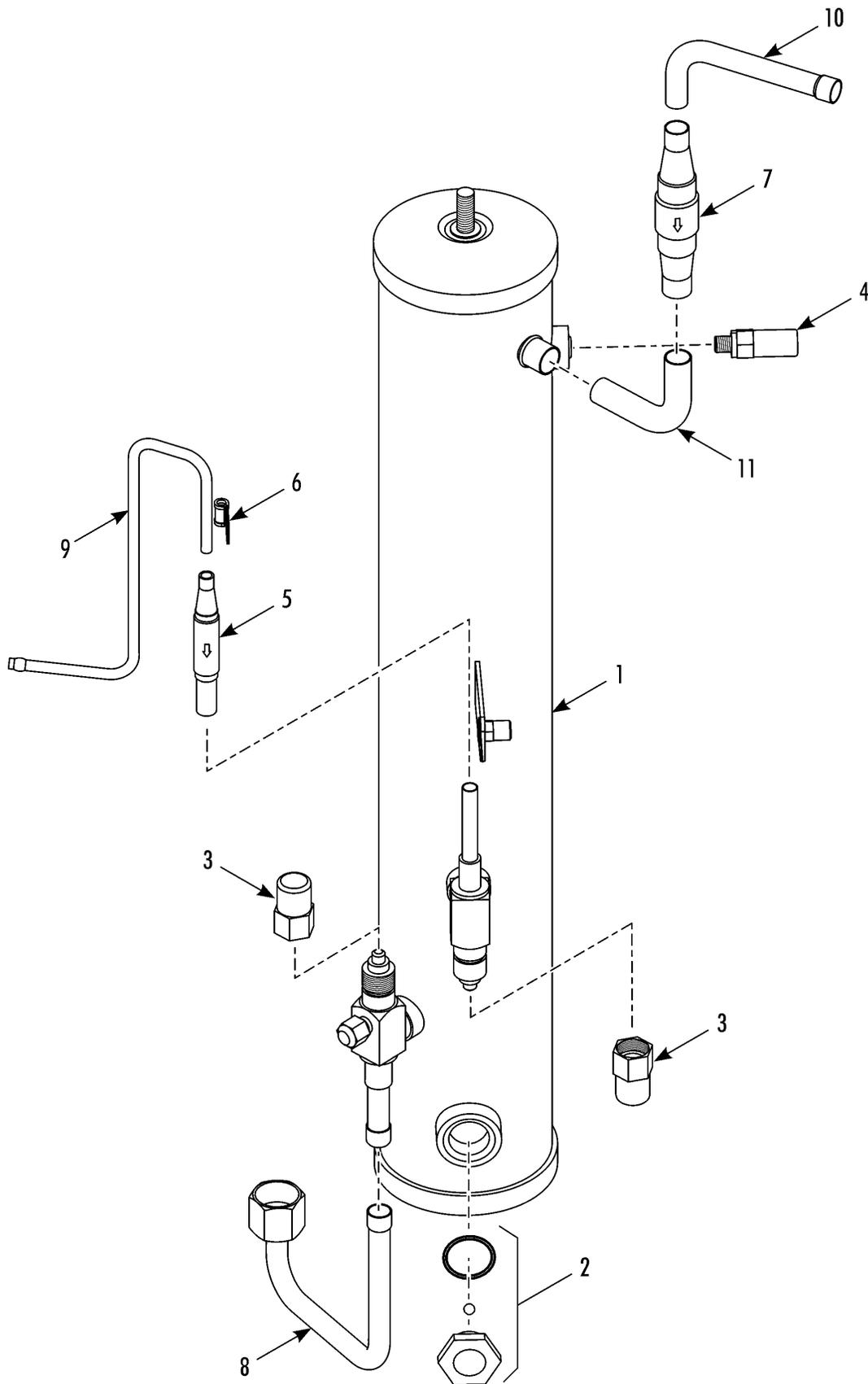
# CONDENSER COIL MOUNTING



# 261B3

Revised  
01/31/14

REF	PART NO.	DESCRIPTION	QTY
1	NSS	FAN - condenser (see 261A0)	2
2	67-2752	COIL - condenser (curbside)	1
3	67-2751	COIL - condenser (roadside)	1
4	98-9012	SUPPORT - coil (curbside)	1
5	92-9909	BRACKET - coil (curbside, center)	1
6	92-9856	BRACKET - coil (curbside, side)	1
	51-2758	SCREW - support & brackets	21
7	93-236	BRACKET - coil (top & bottom)	5
8	92-9843	BRACKET - coil (bottom)	1
9	92-9910	BRACKET - coil (top)	2
	55-3197	RIVET - bracket	8
10	92-9846	CLAMP - outside	2
11	33-4948	SUPPORT - rubber	5
12	92-9844	CLAMP - center	1
13	33-4947	SUPPORT - rubber	2
14	33-4950	SEAL - coil	2
15	33-5003	SEAL - coil	2
16	33-4973	SEAL - curbside	1
17	33-5063	EXTRUSION - rubber (25 ft, cut to length)	A/R
18	92-9855	BRACKET - coil (roadside)	1
19	93-237	PANEL - bottom (curbside, inside)	1
20	93-238	PANEL - bottom (curbside, outside)	1
	51-2758	SCREW - panel	8
21	33-4915	GROMMET - tube	1
22	98-9013	BRACKET - coil (roadside, center)	1
	51-2264	*INSERT - threaded (M6)	5
23	92-9854	SUPPORT - coil (roadside)	1
	51-2758	SCREW - support & brackets	36
24	33-5004	SEAL - coil (top & bottom)	4
25	33-4952	SEAL - roadside	1
26	92-9670	PANEL - bottom (roadside)	1
27	33-5005	SEAL - panel	1
28	51-1671	PLUG - button	1



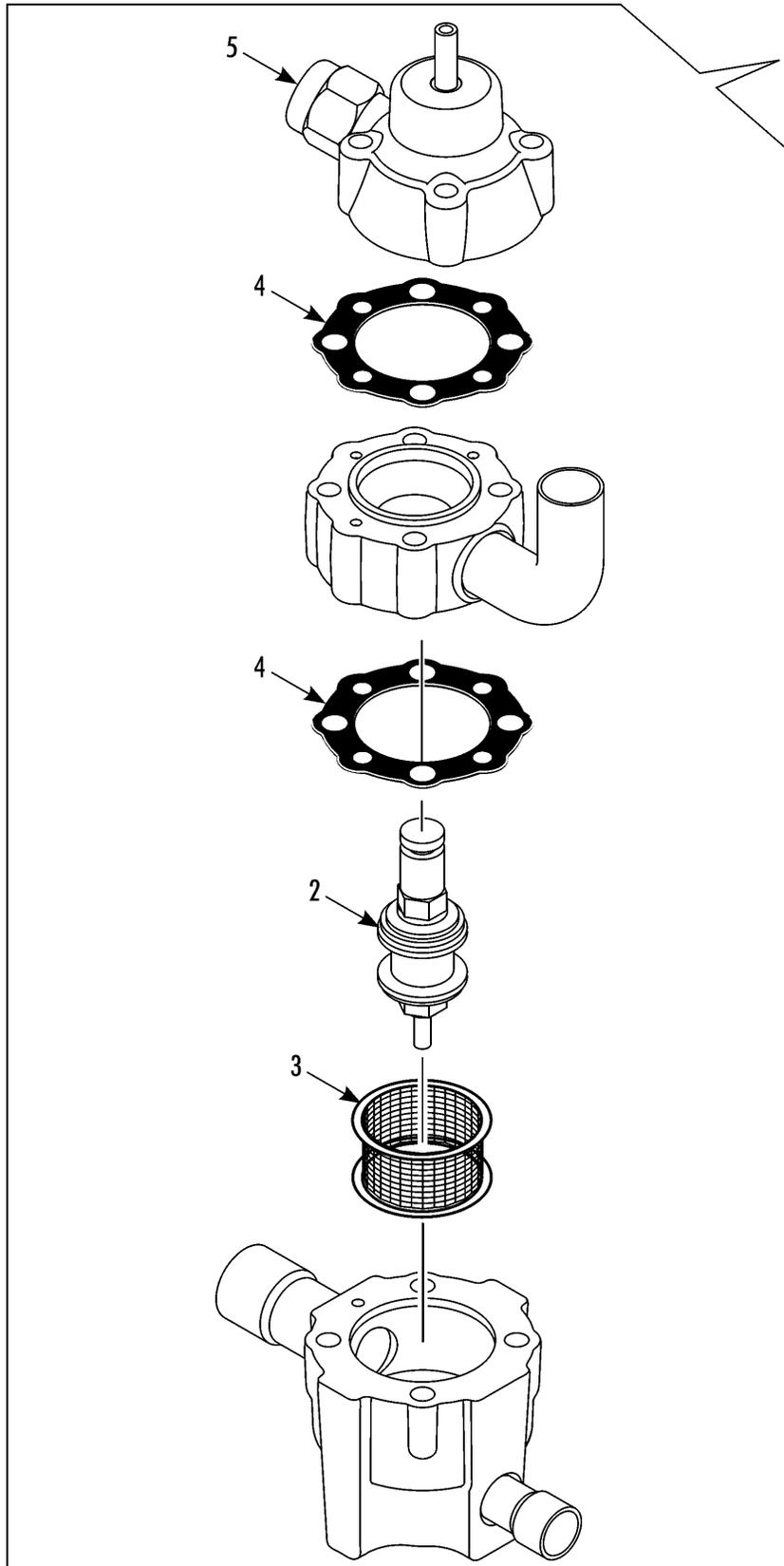
Revised  
11/16/13

# RECEIVER TANK



# 261G1

REF	PART NO.	DESCRIPTION	QTY
1	67-2687	TANK - receiver	1
2	67-2668	*INDICATOR - liquid	1
	66-9257	*BALL	1
	33-2419	*O-RING	1
3	66-343	*CAP - valve	2
	55-581	*WASHER - cap	2
4	66-7392	VALVE - relief	1
5	66-9369	VALVE - check	1
6	55-2536	CLAMP - tube	1
	51-2758	SCREW - clamp	1
7	66-5721	VALVE - check	1
8	61-5987	TUBE - receiver to dehydrator	1
9	61-5986	TUBE - valve to tube	1
10	61-5985	TUBE - coil to check valve	1
11	61-5984	TUBE - valve to receiver	1



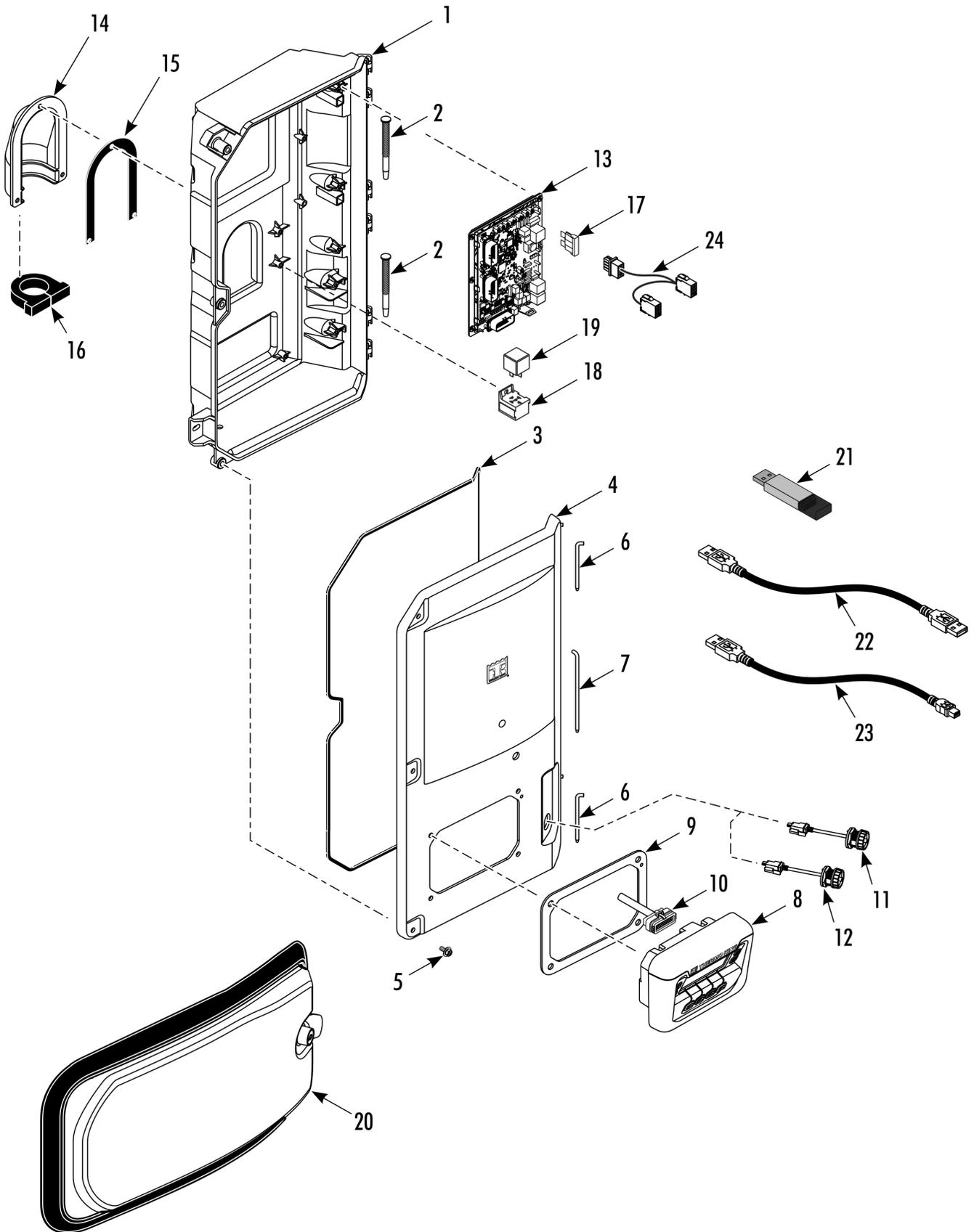
# 3-WAY VALVE ASSEMBLY



# 261H1

Revised  
02/05/13

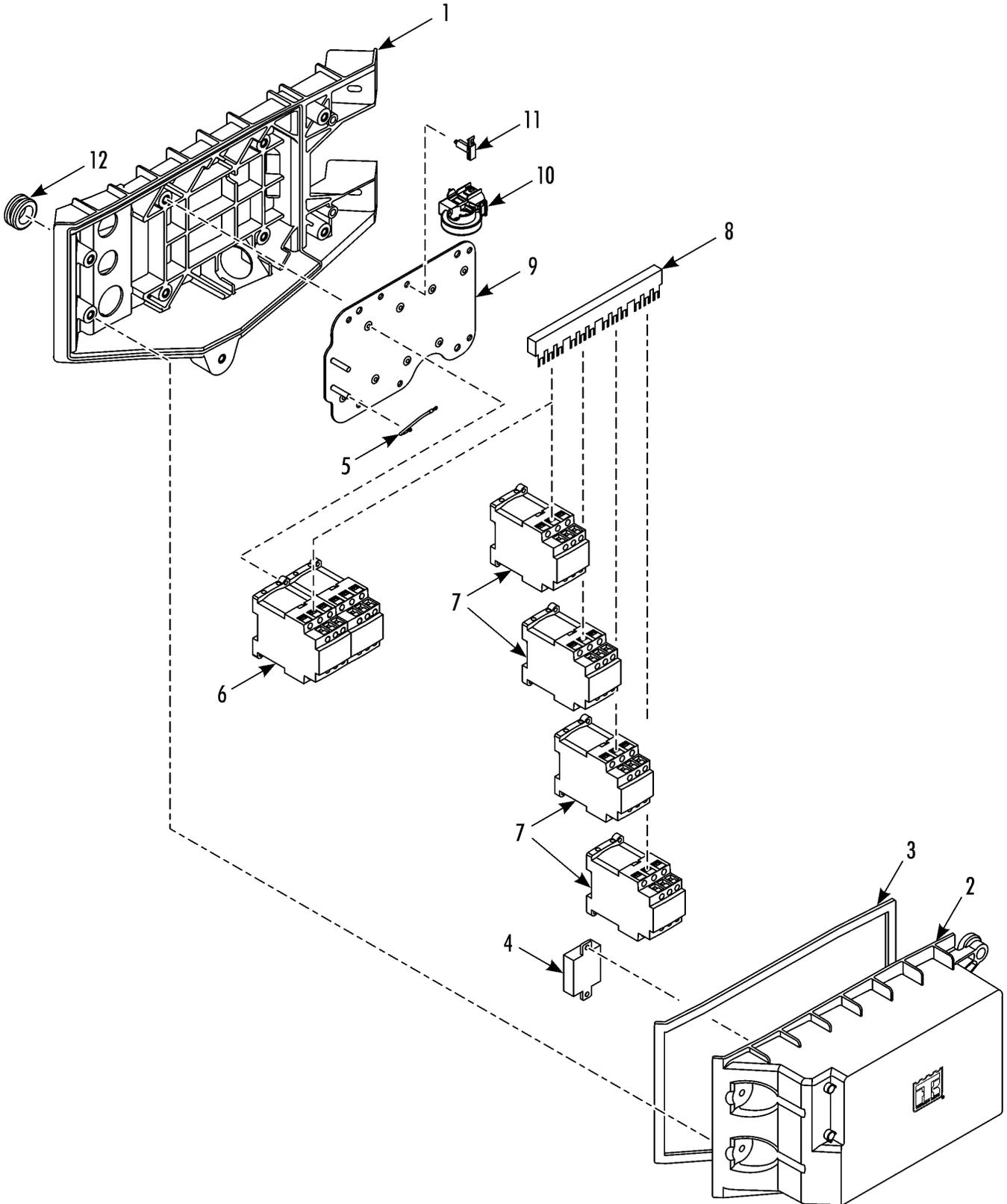
REF	PART NO.	DESCRIPTION	QTY
1	61-5978	VALVE - 3-way	1
2	60-300	*KIT - valve repair	1
3	60-147	**FILTER	1
4	33-3538	*GASKET	2
5	61-3597	*CAP - top (incl check valve)	1





REF	PART NO.	DESCRIPTION	QTY
1	98-8848	HOUSING - control box	1
2	51-2256	*PIN - hinge	2
3	33-4918	GASKET - door	1
4	98-9238	DOOR - control box (see note)	1
5	51-2758	SCREW - door	3
	55-8782	WASHER - special	3
6	51-2213	PIN - door hinge (short)	2
7	51-2214	PIN - door hinge (long)	1
8	45-2449	CONTROLLER - HMI SR-4	1
9	33-3628	*GASKET - HMI	1
	51-2760	SCREW - controller	4
10	42-446	HARNESS - HMI	1
11	42-1438	CABLE - USB (black, before 3/14)	1
12	42-434	CABLE - USB (black, 3/14 & after)	1
	51-2728	*NUT - USB cable	1
13	45-2521	BOARD - controller SR-4	1
	51-2304	SCREW - board	6
14	92-9530	COVER - harness	1
	51-2758	SCREW - cover	3
15	33-4919	GASKET - cover	1
16	33-4920	SEAL - harness	1
17	41-3666	FUSE - 60 amp (C-600 only)	1
18	44-5537	SOCKET - relay	1
19	41-893	RELAY - mini	1
20	93-310	DOOR - HMI (optional)	1
	55-7407	SCREW - door	6
	55-7033	FLATWASHER	12
	55-7034	NUT	6
21	204-1985	TOOL - ThermoServ	1
22	204-1973	*CABLE - USB to USB (12 ft)	1
23	204-2000	CABLE - USB to mini USB (16 ft)	1
24	41-8187	HARNESS - extension (CAN, optional)	1

See PB1502 for further information - installing an external USB port on current Precedent units.



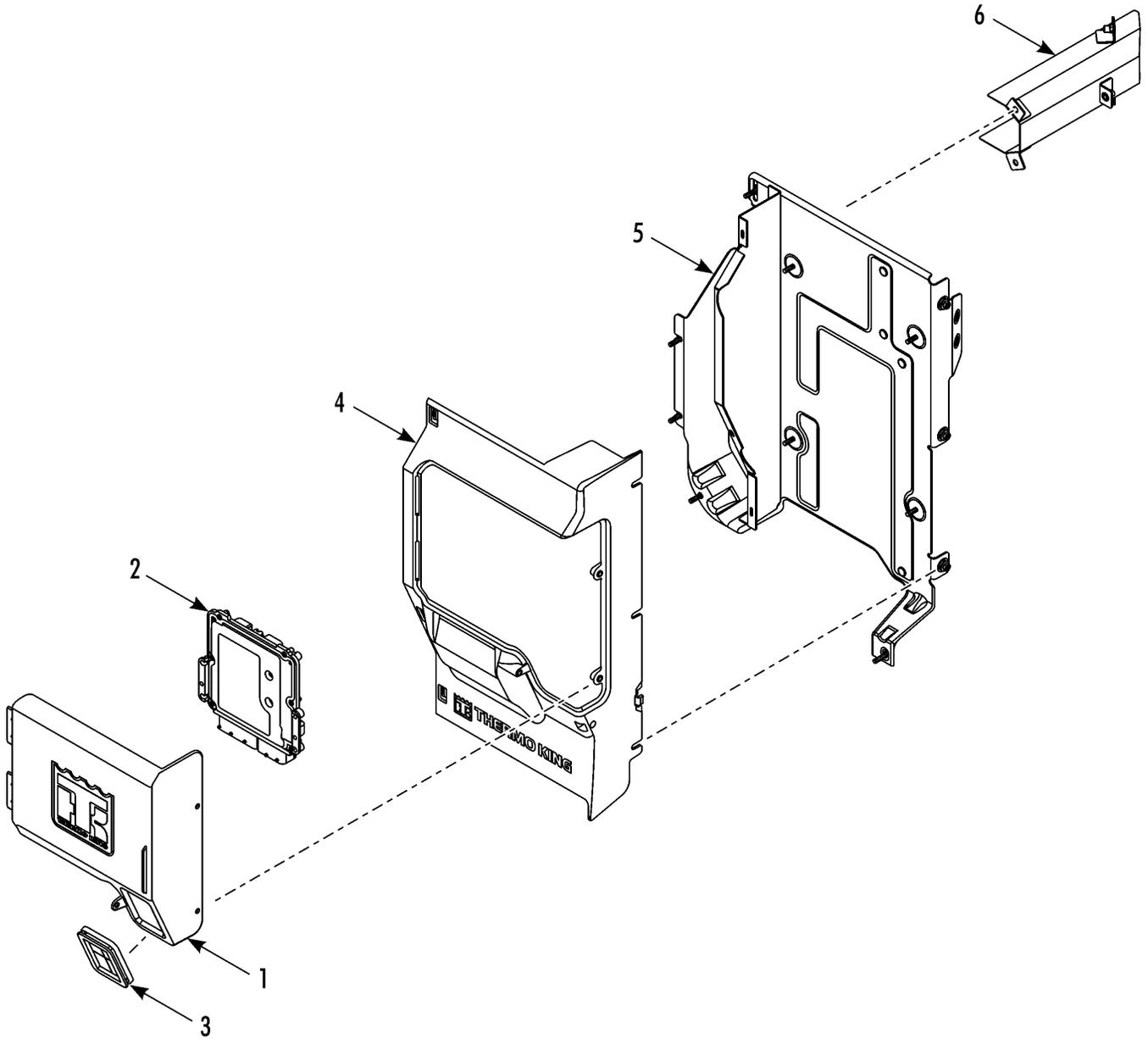
# CONTROL BOX - BLOWER & FANS



# 261B8

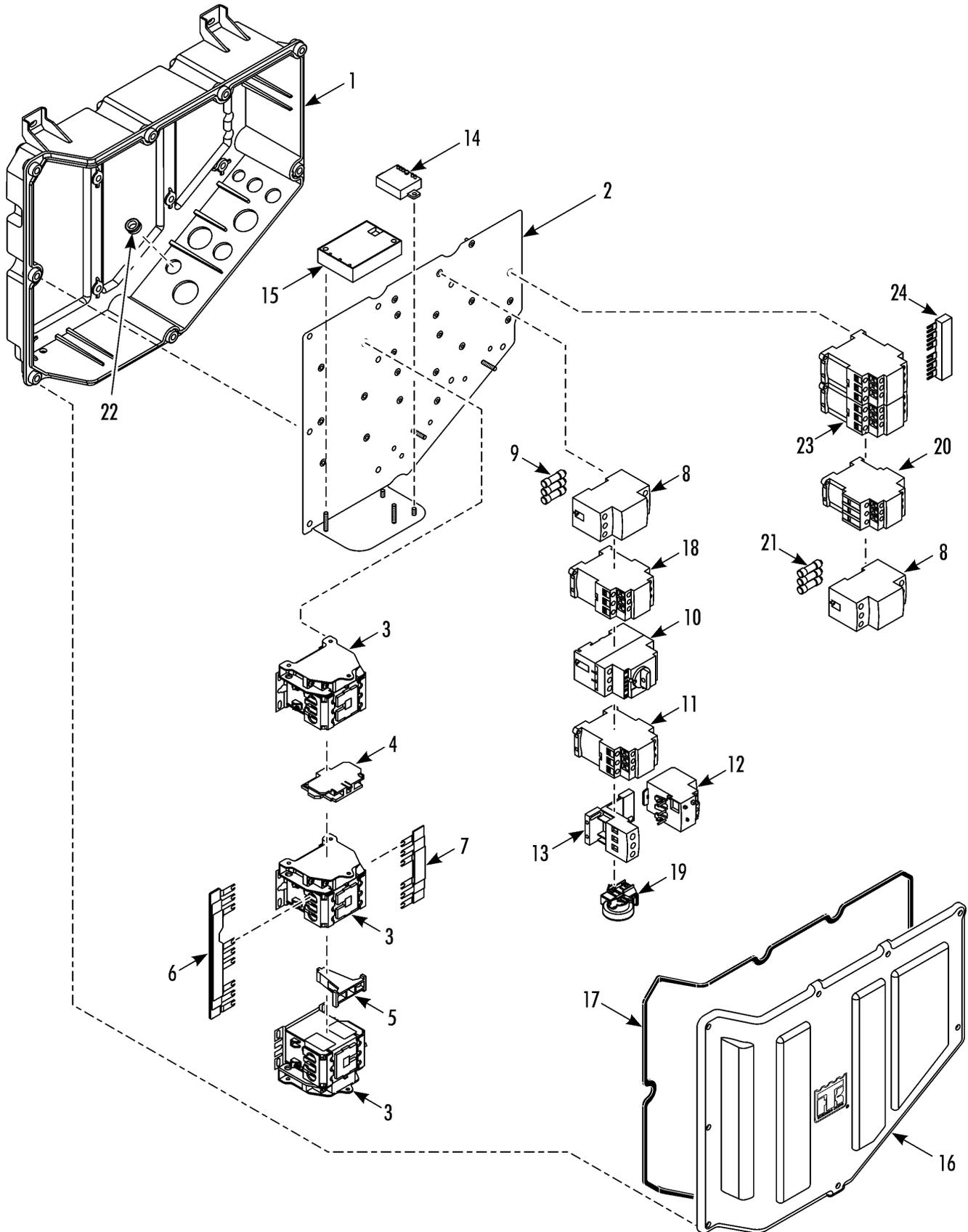
Revised  
01/11/14

REF	PART NO.	DESCRIPTION	QTY
1	98-8850	HOUSING - fan control box	1
	51-2768	SCREW - housing (M6 X 45)	2
	51-2769	SCREW - housing (M6 X 50)	2
	55-7075	FLATWASHER	2
	55-7007	NUT	2
2	98-8962	COVER - fan control box	1
	51-2758	SCREW - cover (M6 X 16)	2
	51-2760	SCREW - cover (M6 X 25)	2
	55-8782	WASHER - retainer	4
3	33-4917	GASKET - control box	1
4	42-237	RELAY - ground fault	1
	42-519	*CONNECTOR - 2-pin	1
	42-521	*TERMINAL - female	2
	44-9544	*RECEPTACLE - 3-pin	1
	51-2304	SCREW - relay	2
5	42-433	HARNESS - fan box	1
	55-7367	NUT - ground stud	2
	55-7034	NUT - ground stud (locking)	2
	51-1768	MOUNT - cable tie	5
6	42-430	CONTACTOR - evaporator motor (with interlock, before 5/13)	1
7	42-432	CONTACTOR - condenser motors (after 5/13, also used for evaporator)	4
	51-2305	SCREW - contactor	8
8	42-431	BUSBAR - 4 position	1
9	92-9857	PLATE - contactors	1
	51-2305	SCREW - plate	8
10	42-396	SENSOR - current (early units only)	1
11	42-709	CLIP - connector (early units only)	1
12	33-4916	GROMMET	1



**CONTROL BOX - ECU S-600/S-700****261B0**Revised  
01/30/14

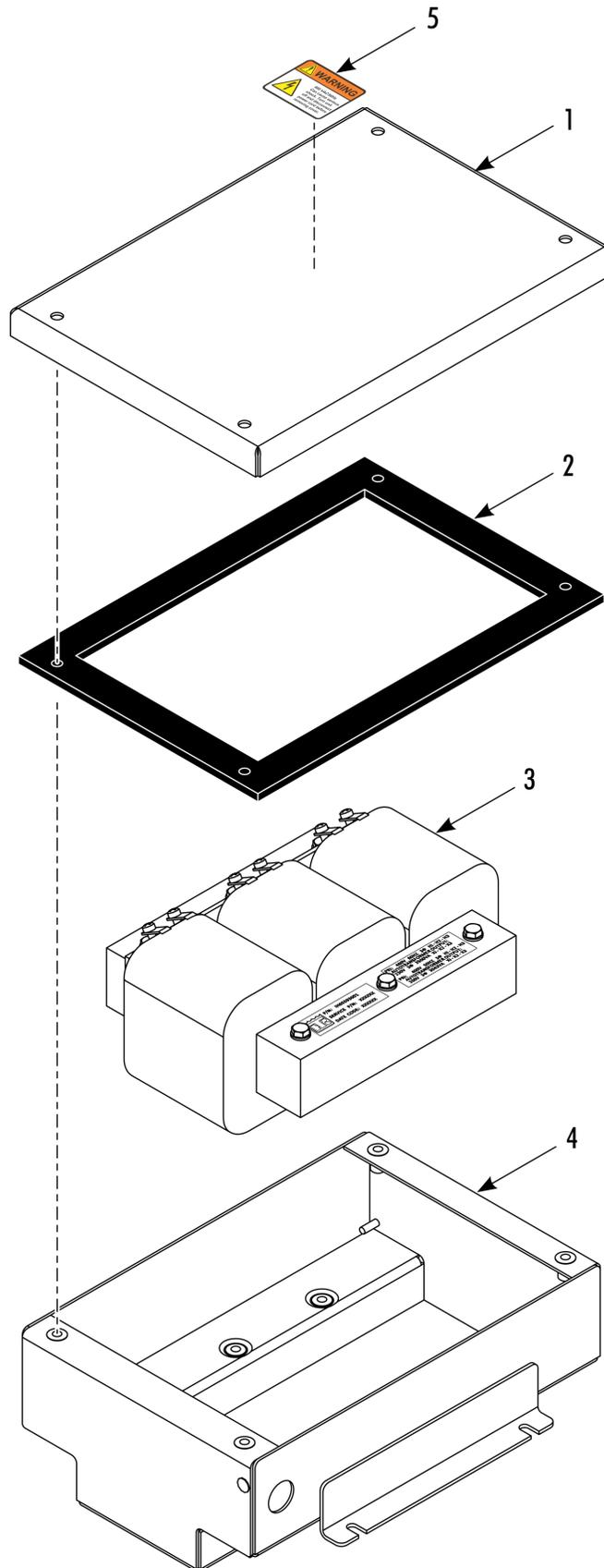
<b>REF</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
1	93-239	MOUNT - ECU	1
	51-2760	SCREW - mount	4
2	42-531	ECU - TIER 4 (Yanmar)	1
	51-2766	SCREW - ECU	4
3	33-5006	GROMMET - ECU	1
4	92-9664	COVER - ECU	1
	51-2760	SCREW - cover	4
5	92-9663	MOUNT - ECU	1
	51-2760	SCREW - box	4
6	93-240	SHIELD - heat	1
	51-2760	SCREW - heat shield	2





REF	PART NO.	DESCRIPTION	QTY
1	98-8852	HOUSING - high voltage box	1
2	93-771	PLATE - contactor	1
3	41-7934	CONTACTOR & TIMER (motor & phase correction)	3
	51-2215	SCREW - contactor	6
4	42-754	CONTACTOR - auxiliary	1
5	44-8813	INTERLOCK	1
6	42-548	BAR - bus (long)	1
7	42-547	BAR - bus (short)	1
8	42-545	FUSEHOLDER (3 pole)	2
9	42-546	FUSE (15 amp, 230 V w/ alternator, see note)	3
	42-866	FUSE (7 amp, 460 V w/ alternator)	3
	42-546	FUSE (15 amp, 230 V w/ battery charger)	3
	42-972	FUSE (12 amp, 460 V w/ battery charger)	3
10	42-544	RELAY - overload (heater)	1
11	41-5629	CONTACTOR - heater	1
12	41-9110	RELAY - overload (compressor, 230V)	1
	41-6094	RELAY - overload (compressor, 460V)	1
13	41-6096	ADAPTER - overload relay mount	1
	51-2305	SCREW - relays & contactor (items 8 - 13)	10
14	42-237	RELAY - ground fault	1
15	42-792	SELECTOR - phase	1
	51-717	NUT	8
16	98-8851	COVER - high voltage box	1
	51-2758	*SCREW - cover	7
	55-8782	*WASHER	7
17	33-4971	*GASKET - cover	1
18	42-432	CONTACTOR - generator	1
19	42-396	SENSOR - current (early units only)	1
20	41-9391	CONTACTOR - transformer	1
21	42-444	FUSE (10 amp, 460 V units)	3
22	33-4972	GROMMET - blind	1
23	42-430	CONTACTOR - reversing (460 V units)	1
24	42-974	BAR - bus	1

The 10 amp for 230 V units w/ alternator has changed to 15 amp fuse.



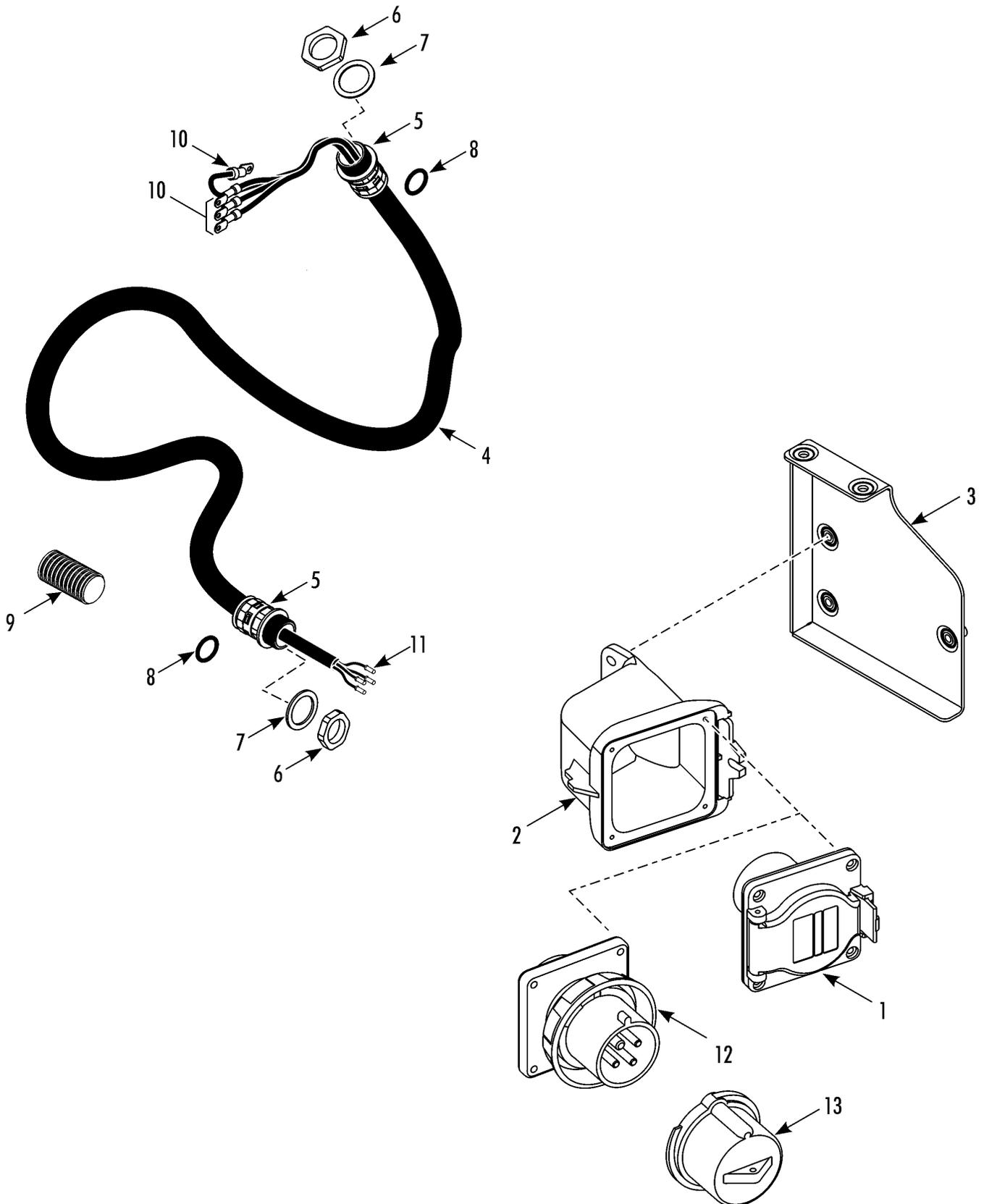
Revised  
11/16/13

# TRANSFORMER BOX



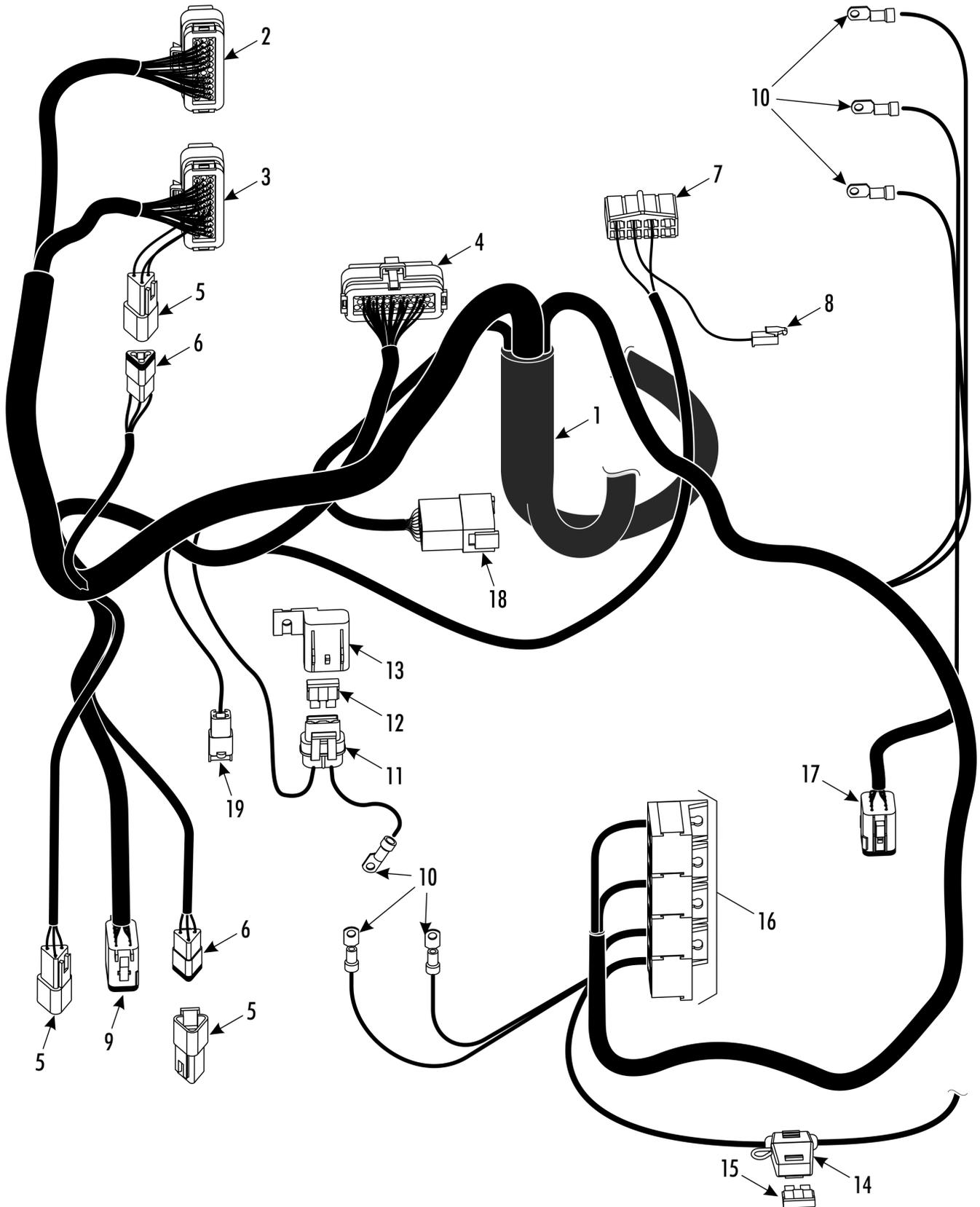
# 261H3

REF	PART NO.	DESCRIPTION	QTY
1	93-566	COVER - transformer box	1
	51-2758	SCREW - cover	4
2	33-5060	GASKET - cover	1
3	45-2460	TRANSFORMER (460/230 V)	1
	55-7802	SCREW - transformer	6
	55-4638	FLATWASHER	6
4	93-565	BOX - transformer	1
	51-2758	SCREW - box	4
5	92-9546	NAMEPLATE - warning	1





REF	PART NO.	DESCRIPTION	QTY
1	41-8275	RECEPTACLE - power (230/3/60, 50 amp)	1
	41-8277	RECEPTACLE - power (460/3/60, 30 amp)	1
	41-8295	RECEPTACLE - power (460/3/60, 50 amp)	1
2	41-8292	BOX - power inlet	1
	51-2200	SCREW - box	3
3	93-369	PLATE - box	1
	51-2202	SCREW - plate	2
4	42-553	HARNESS - power (230V & 460 50 amp, 8 ga leads)	1
	42-832	HARNESS - power (460V 30 amp, 10 ga leads)	1
5	51-2247	FITTING - straight (NW23)	2
6	51-2251	NUT	2
7	51-2253	WASHER - sealing	2
8	33-4942	O-RING	2
9	42-729	CONDUIT (25 ft)	A/R
10	41-9115	TERMINAL - ring (230V, red, 6-8 ga)	4
	41-4468	TERMINAL - ring (460V, yellow, 10-12 ga)	4
11	41-4906	TERMINAL - wirepin (230V, 8 ga)	4
	44-9891	TERMINAL - wirepin ((460V, 10 ga)	4
12	42-833	RECEPTACLE - power (460/3/60, 30 amp)	1
13	42-834	CAP - receptacle	1



# MAIN HARNESS S-600/S-700 (control box)

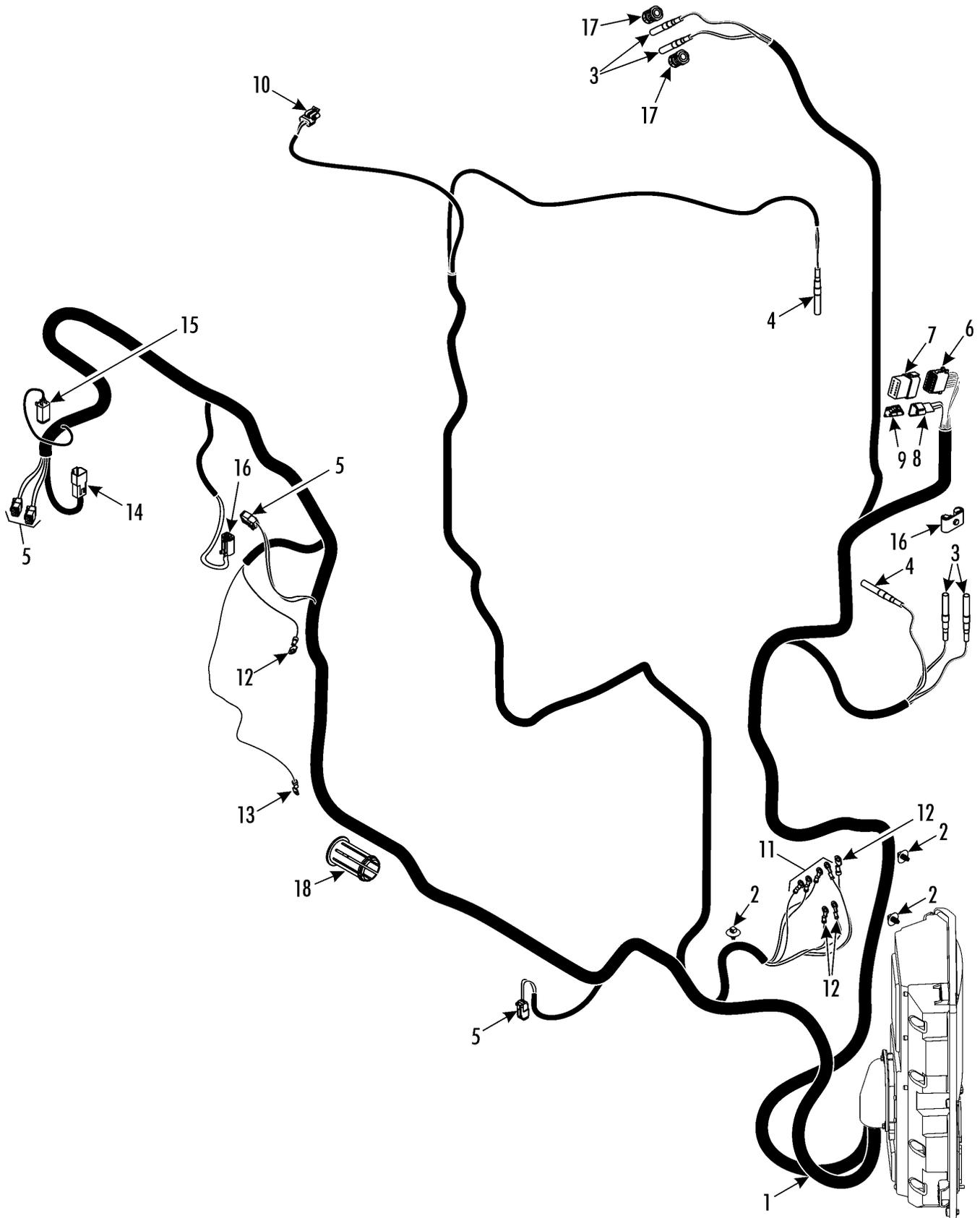


# 261G4

Revised  
01/30/14

REF	PART NO.	DESCRIPTION	QTY
1	42-441	HARNESS - main (S-600, also see 261G5)	1
	42-1407	HARNESS - main (S-700, also see 261G5)	1
2	41-5190	*PLUG - J1 (35-pin, white)	1
3	41-2407	*PLUG - J3 (35-pin, black)	1
4	41-3359	*PLUG - J4 (35-pin, gray)	1
	41-2457	*TERMINAL - socket	55
5	44-9544	*RECEPTACLE - DS-INT, ALT (3-pin, alternator)	3
6	44-9631	*CONNECTOR - DS-INT-01, AFA (3-pin, w/ seal)	2
7	44-5719	*CONNECTOR - J16 (8-pin)	1
	44-5631	*TERMINAL - fingrip (18-20 ga)	3
8	41-6257	*CONNECTOR - 8D (1-pin)	1
9	44-9600	*PLUG - C_KIT (12-pin, w/ seal)	1
10	44-2792	*TERMINAL - ring (yellow #10)	6
11	42-443	*HOLDER - fuse	1
12	42-887	*FUSE (35 amp, see note)	1
13	41-1769	*COVER - fuse	1
14	41-4740	*HOLDER - fuse	1
15	41-2978	*FUSE - 20 amp	1
16	44-5537	*SOCKET - relay	4
	44-5066	*TERMINAL - fingrip (14-18 ga)	8
	55-7702	*TERMINAL - fingrip (16-18 ga)	3
	42-517	*TERMINAL - fingrip (12-14 ga)	5
17	44-9903	*PLUG - ECU-IF-01 (8-pin, w/ seal)	1
18	44-9904	*RECEPTACLE - EVAPS_HMI (12-pin)	1
19	44-6292	*CONNECTOR - FH-OPT (1-pin)	1

NOTE: When updating from a 37 amp to a 65 amp alternator, refer to Parts Bulletin PB1504 for harness and fuse modification.



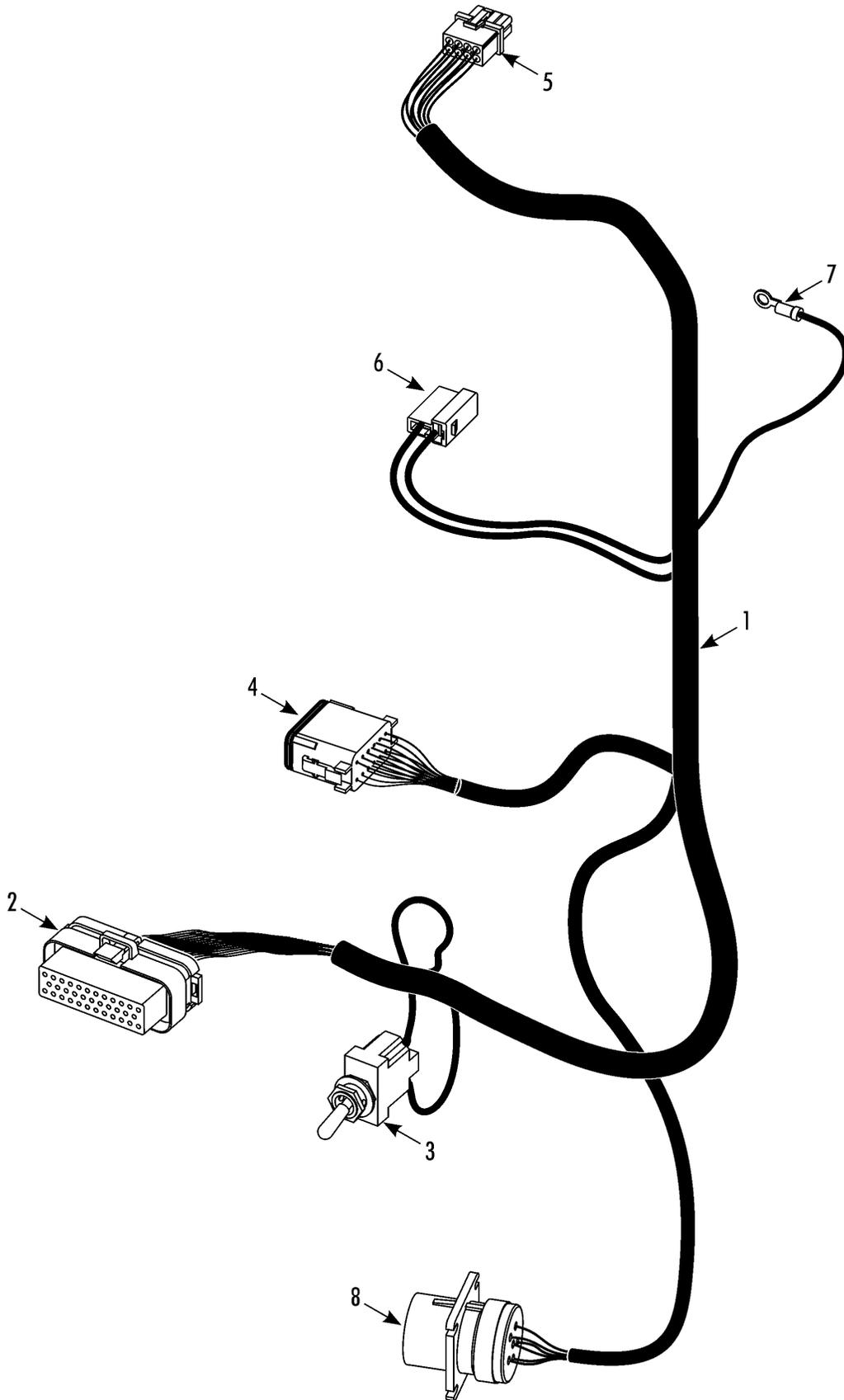
MAIN HARNESS S-600/S-700 (outside control  
box)



**261G5**

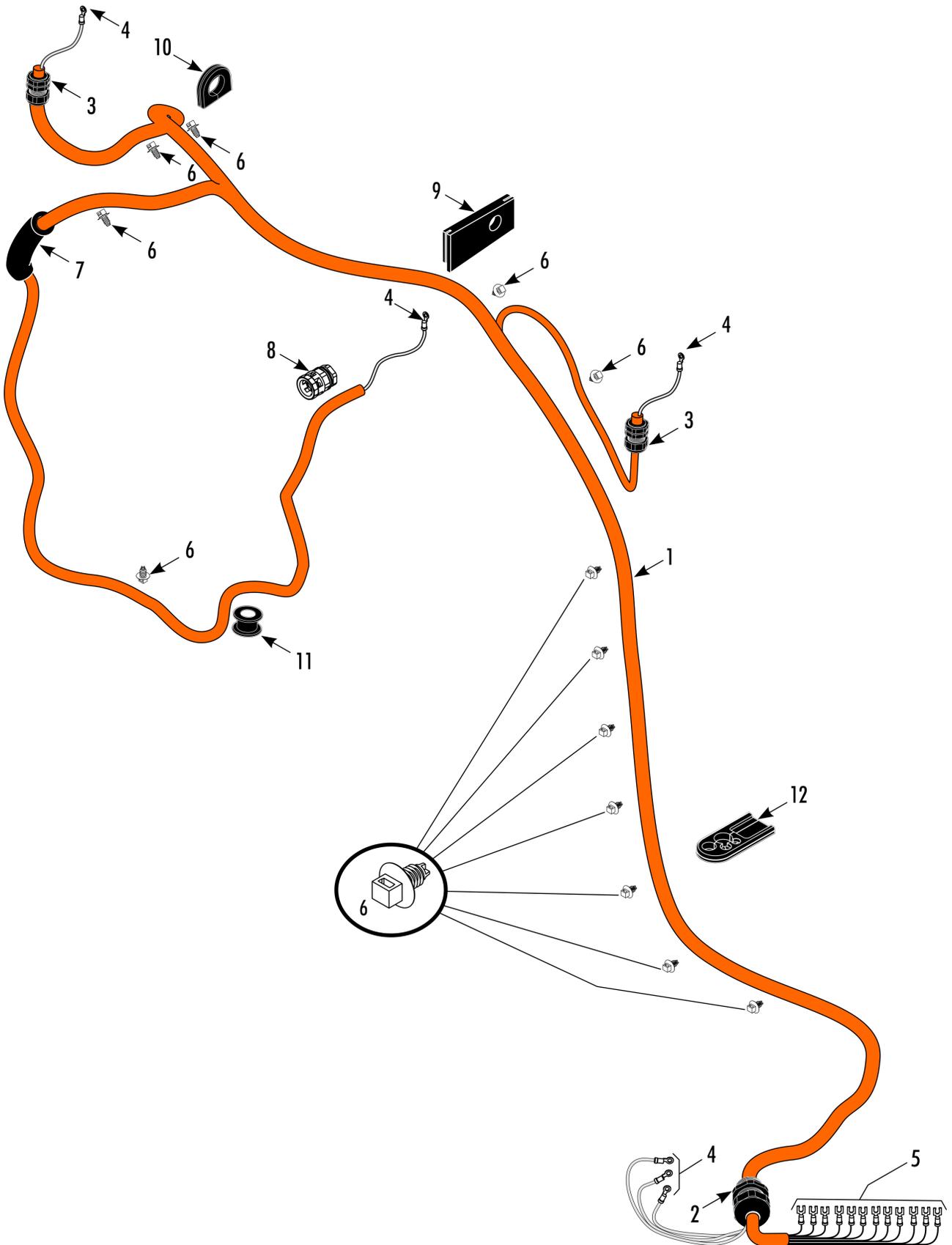
Revised  
02/03/14

REF	PART NO.	DESCRIPTION	QTY
1	42-441	HARNESS - main (S-600, also see 261G4)	1
	42-1407	HARNESS - main (S-700, also see 261G4)	1
2	51-1768	*MOUNT - cable tie	4
3	40-974	*SENSOR - graded	4
4	40-975	*SENSOR - ungraded	2
5	44-9585	*PLUG - CDM_RPM, LPCO, HGB, PS (2-pin, w/ seal)	4
6	44-9904	*RECEPTACLE - CW (12-pin)	1
7	44-9600	*PLUG - CW (12- pin)	1
8	44-9544	*RECEPTACLE - DS (3-pin)	1
9	44-9631	*PLUG - 3-pin, w/ seal	1
10	41-6573	*CONNECTOR - 2-pin (coolant level switch)	1
	41-6574	*LOCK - connector	1
	41-6575	*TERMINAL	2
	41-6576	*SEAL - terminal	2
11	44-2789	*TERMINAL - ring (blue 1/4, 14-16 ga)	6
12	44-2793	*TERMINAL - ring (yellow 1/4)	3
13	41-4468	*TERMINAL - ring (#8 yellow, 10-12 ga)	1
14	44-8915	*RECEPTACLE - SPT (4-pin)	1
15	44-8935	*PLUG - ETV & DPT (4-pin, w/ seal)	2
16	92-4612	RETAINER - sensor	1
17	55-5111	CONNECTOR - sensors grip	2
	33-4410	WASHER - sealing	2
18	93-561	GUIDE - harness	1





REF	PART NO.	DESCRIPTION	QTY
1	42-446	HARNESS HMI	1
2	41-5001	*CONNECTOR - HMI	1
	41-2457	*TERMINAL - socket	25
3	41-4163	*SWITCH	1
4	44-9600	*PLUG - evaporator (12-pin, w/ seal)	1
	44-9601	*WEDGE	1
	41-8816	*SOCKET - gold (18 ga)	12
5	41-5709	*CONNECTOR - sealed (8-pin)	1
	33-3908	*GASKET (8-pin, plug)	1
	41-5719	*SOCKET (20-16 gauge)	8
	41-6256	*SEAL - wire	8
6	44-5219	*CONNECTOR - tower (2-pin)	1
	44-5630	*TERMINAL - fingrip	2
7	44-7245	*TERMINAL - ring (#10 red, 16-22 ga)	1
8	44-8329	*RECEPTACLE (6-pin)	1
	44-9591	*TERMINAL - pin (16-18 ga)	6



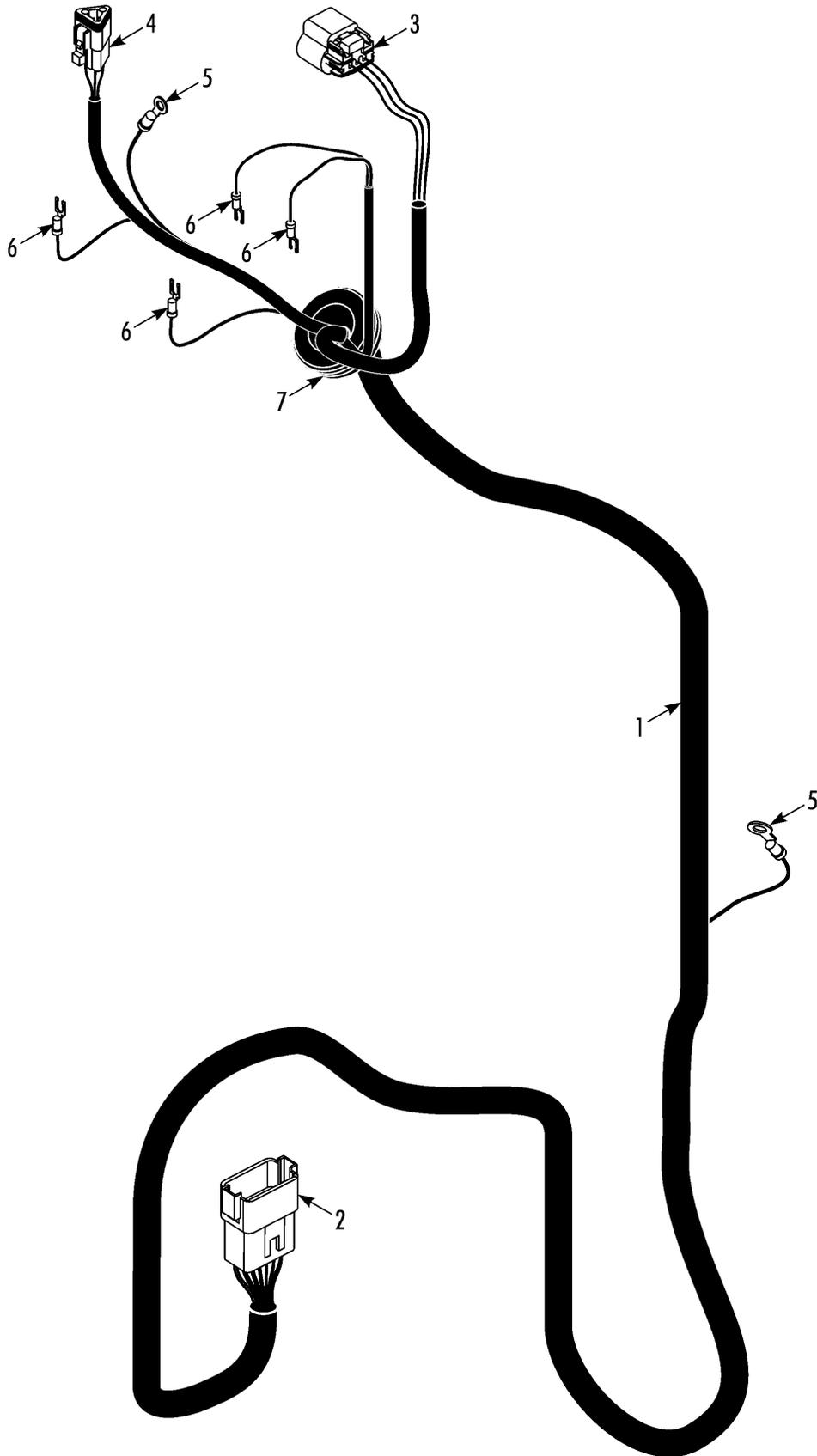
# HARNESS - FANS & BLOWER



# 275B3

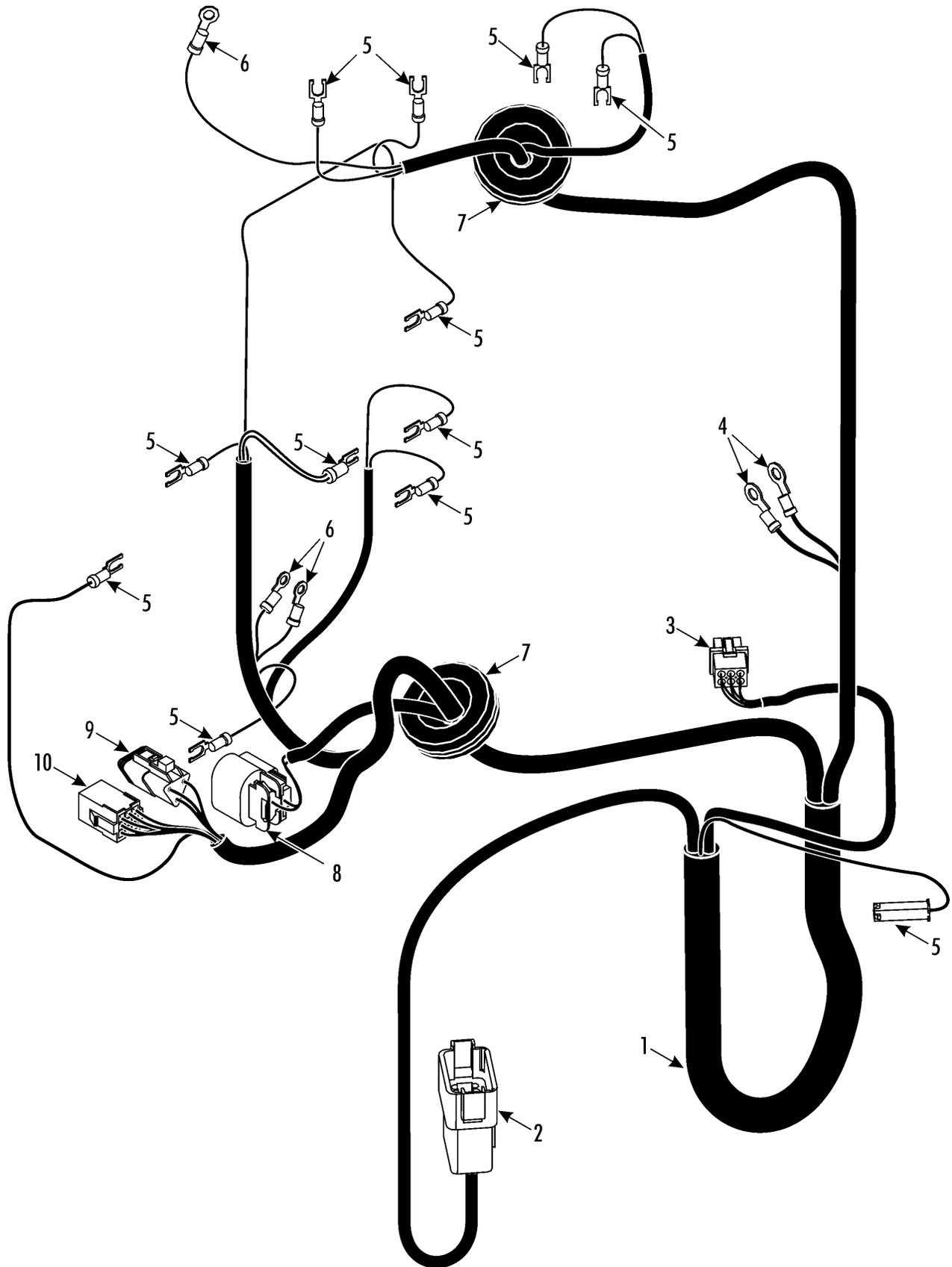
Revised  
01/21/14

REF	PART NO.	DESCRIPTION	QTY
1	42-1338	HARNESS - condenser fans & evaporator blower	1
2	41-4188	*FITTING - straight (control box)	1
3	33-5237	*FITTING - straight (condenser motor)	2
4	44-2791	*TERMINAL - ring (#10 blue, 16-14 ga)	6
5	42-525	*TERMINAL - fork (#8 blue, 16-14 ga)	12
6	51-1768	*MOUNT - cable tie	13
7	92-9852	*SLEEVING - heat resistance	1
8	51-2226	FITTING - straight	1
	51-2227	NUT	1
	51-2228	WASHER - sealing	1
	33-4926	O-RING	1
9	33-5235	GROMMET - condenser harness	1
10	33-5234	GROMMET - condenser harness	1
11	33-5236	GROMMET - evaporator harness	1
12	33-4932	PLUG - bulkhead	1
	51-321	RIVET - plug	2



Revised  
11/26/13

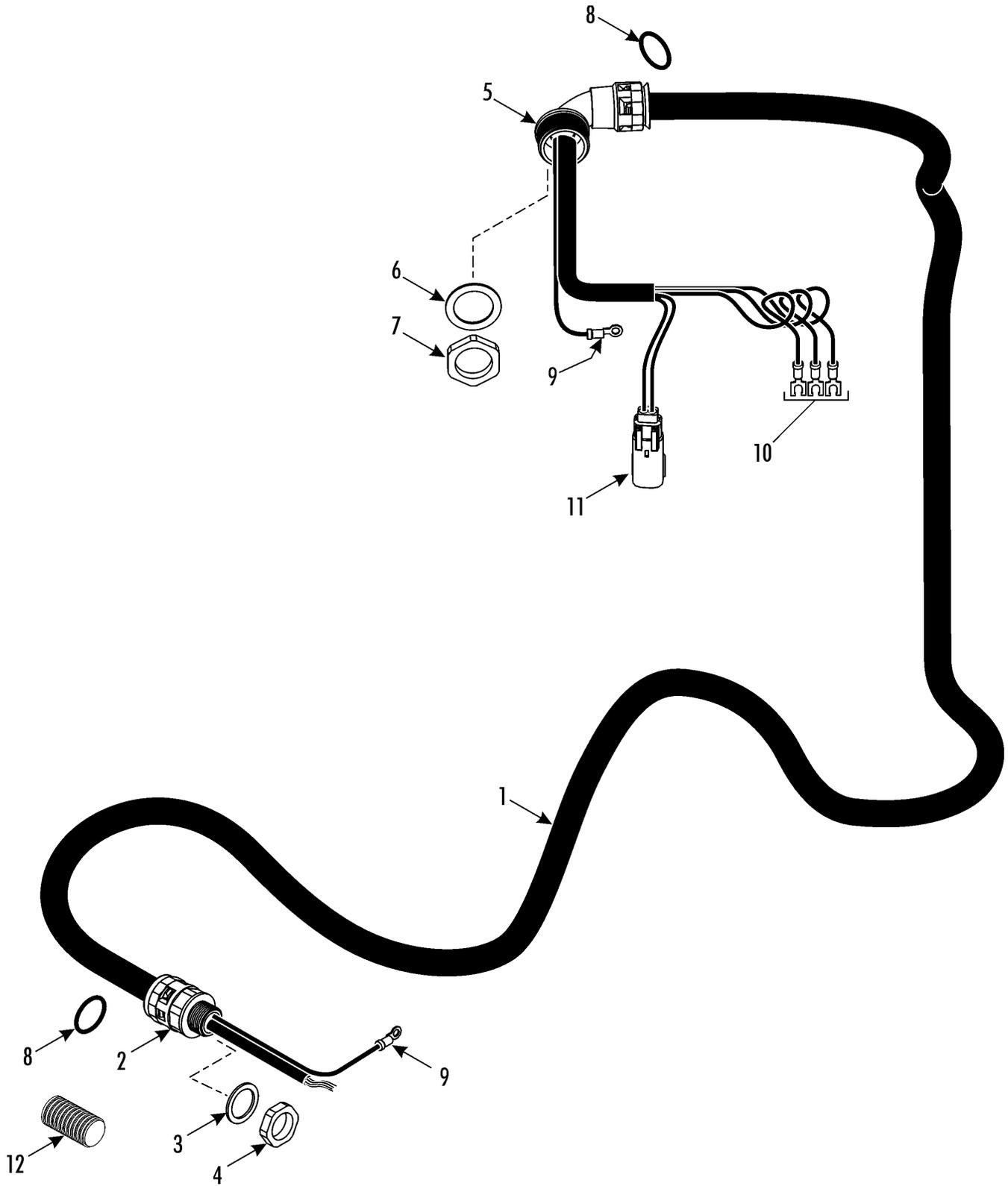
REF	PART NO.	DESCRIPTION	QTY
1	42-555	HARNESS - 30 control	1
2	44-9904	*RECEPTACLE - 12-pin	1
3	42-855	*CONNECTOR - 2-pin	1
	42-856	*WEDGE - 2-pin	1
4	44-9631	*PLUG - 3 pin	1
5	44-2789	*TERMINAL - ring (blue 1/4, 16-14 ga)	2
6	42-524	*TERMINAL - fork (red #6, 22-16 ga)	4
7	33-2110	*GROMMET	1





Revised  
11/17/12

REF	PART NO.	DESCRIPTION	QTY
1	42-757	HARNESS - control 50	1
2	44-9904	*RECEPTACLE - C MAIN (12-pin)	1
3	41-5745	*CONNECTOR - J6 (sealed, 6-pin)	1
4	44-2789	*TERMINAL - ring (blue 1/4, 16-14 ga)	2
5	42-524	*TERMINAL - fork (red #6, 22-16 ga)	11
6	44-2791	*TERMINAL - ring (blue #10, 16-14 ga)	3
7	33-2110	*GROMMET	2
8	42-855	*CONNECTOR - 2-pin	1
	42-856	*WEDGE - 2-pin	1
	42-857	*TERMINAL - female	3
9	44-9631	*PLUG - GFD (3-pin)	1
10	41-7510	*RECEPTACLE - PSM (9-pin)	1
	41-7511	*TERMINAL	7



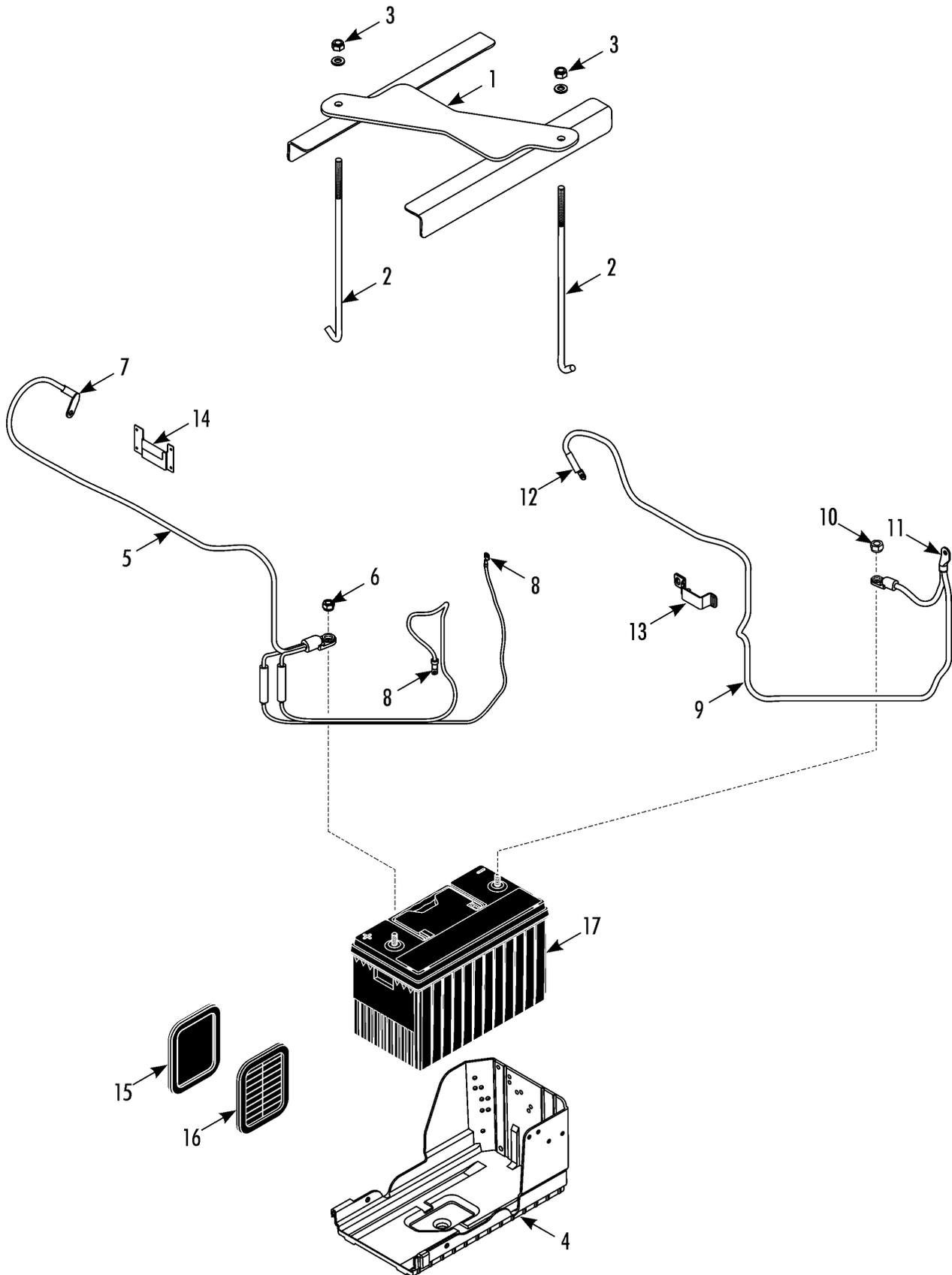
# HARNESS - GENERATOR



# 261F4

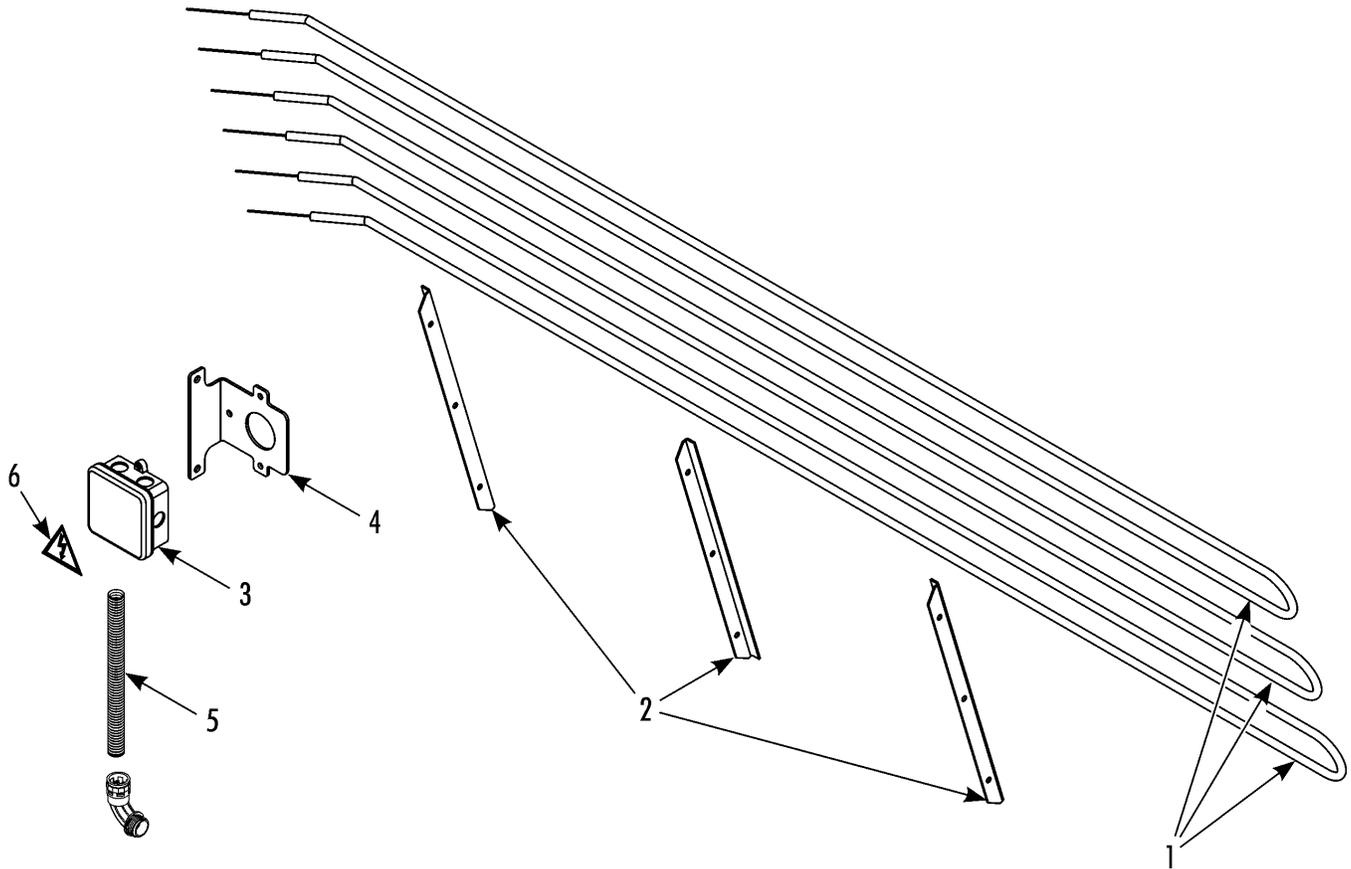
Revised  
05/14/13

REF	PART NO.	DESCRIPTION	QTY
1	42-755	HARNESS - generator	1
2	51-2226	*FITTING - harness (straight)	1
3	51-2228	*WASHER - sealing	1
4	51-2227	*NUT - fitting	1
5	51-2248	*FITTING - harness (elbow)	1
6	51-2252	*WASHER - sealing	1
7	51-2250	*NUT - fitting	1
8	33-4926	*O-RING	2
9	44-2791	*TERMINAL - ring (blue # 10, 16-14 ga)	2
10	42-525	*TERMINAL - fork (blue # 10, 16-14 ga)	3
11	42-550	*CONNECTOR - 2-pin	1
	42-520	*TERMINAL - male	2
12	42-568	*CONDUIT - harness (25 ft)	A/R





REF	PART NO.	DESCRIPTION	QTY
1	92-9681	HOLDDOWN - battery	1
2	92-9682	ROD - holddown	2
3	55-7008	NUT	2
	55-7075	FLATWASHER	2
4	93-241	TRAY - battery	1
	51-2403	FASTENER - tray	4
5	42-1381	HARNESS - battery (positive, threaded post)	1
	42-1437	HARNESS - battery (positive, smooth post)	1
6	55-4436	*NUT - battery	1
7	42-518	*TERMINAL - starter	1
8	44-2792	*TERMINAL - ring (yellow 1/4)	2
9	42-448	HARNESS - battery (negative, threaded post)	1
	42-836	HARNESS - battery (negative, smooth post)	1
10	55-4436	*NUT - battery	1
11	42-797	*TERMINAL - lug (3/8 4/0 ga)	1
12	44-232	*TERMINAL - lug (3/8 1/0 ga)	1
13	93-1193	BRACKET - harness	1
	51-2758	SCREW - bracket	1
14	92-3994	BRACKET - cable (starter)	1
15	33-5059	GROMMET - battery cable	1
16	33-5058	GROMMET - battery cable	1
17	203-550	BATTERY - EON (1150 CCA, threaded)	1
	203-551	BATTERY - EON (1150 CCA, post)	1
	203-733	BATTERY - Reliamax (925 CCA, threaded)	1
	203-732	BATTERY - Reliamax (925 CCA, post)	1



# EVAPORATOR HEATERS



# 261D8

Revised  
03/26/13

REF	PART NO.	DESCRIPTION	QTY
1	45-2536	HEATER - evaporator	3
	44-9888	TERMINAL	6
2	92-9883	BRACKET - heater	3
	55-5639	SCREW - bracket	9
3	44-7354	BOX - junction	1
	55-7407	SCREW - junction box	2
4	92-9884	BRACKET - junction box	1
	51-2200	SCREW - bracket	2
	55-7089	FLATWASHER	2
	55-7034	NUT	2
5	42-549	HARNESS - heater	1
6	99-7834	NAMEPLATE - Caution	1

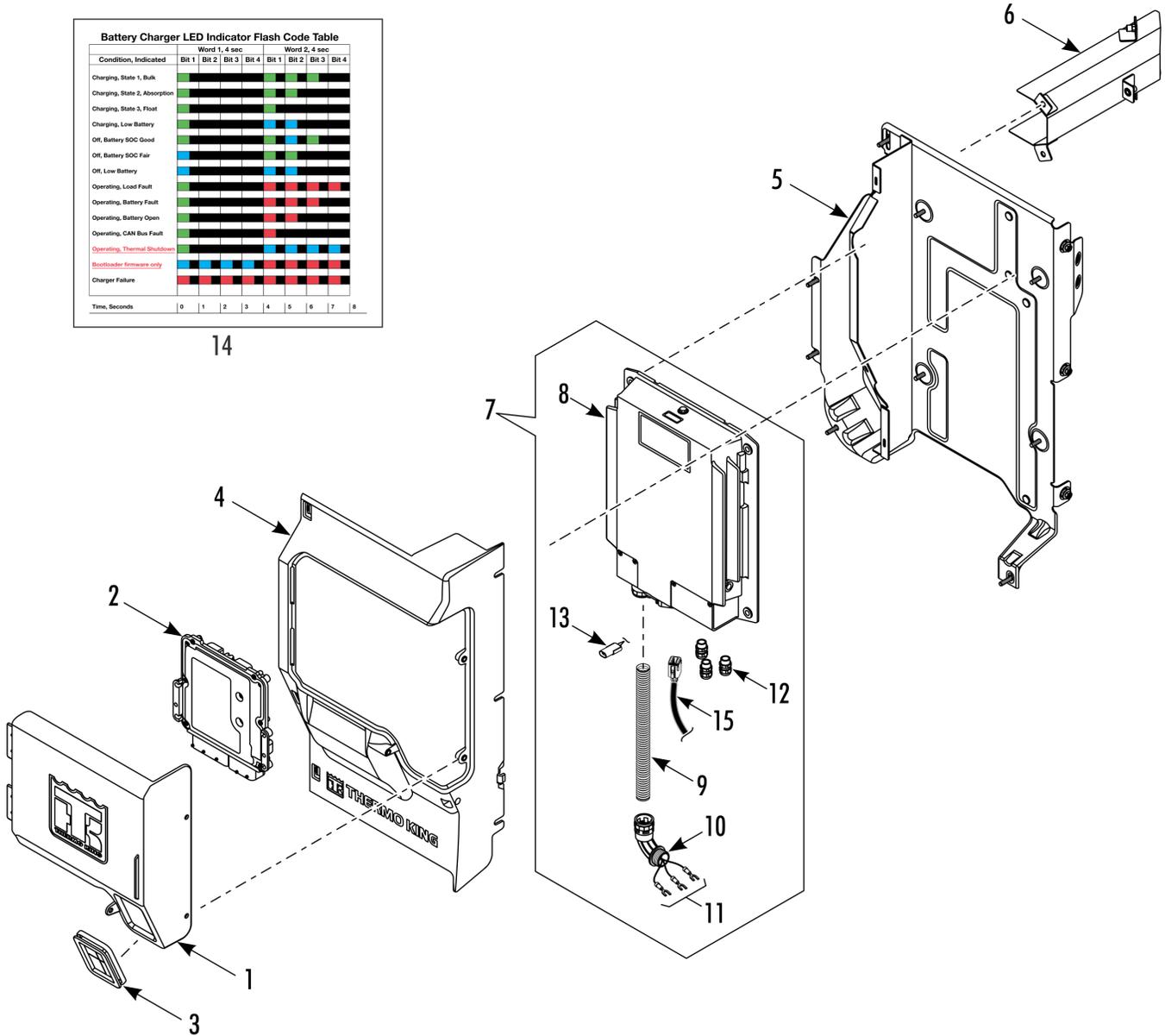


**Battery Charger LED Indicator Flash Code Table**

Condition, Indicated	Word 1, 4 sec				Word 2, 4 sec			
	Bit 1	Bit 2	Bit 3	Bit 4	Bit 1	Bit 2	Bit 3	Bit 4
Charging, State 1, Bulk	Green	Green	Green	Green	Green	Green	Green	Green
Charging, State 2, Absorption	Green	Green	Green	Green	Green	Green	Green	Green
Charging, State 3, Float	Green	Green	Green	Green	Green	Green	Green	Green
Charging, Low Battery	Green	Green	Green	Green	Green	Green	Green	Green
OK, Battery SOC Good	Green	Green	Green	Green	Green	Green	Green	Green
OK, Battery SOC Fair	Green	Green	Green	Green	Green	Green	Green	Green
OK, Low Battery	Green	Green	Green	Green	Green	Green	Green	Green
Operating, Load Fault	Green	Green	Green	Green	Green	Green	Green	Green
Operating, Battery Fault	Green	Green	Green	Green	Green	Green	Green	Green
Operating, Battery Open	Green	Green	Green	Green	Green	Green	Green	Green
Operating, CAN Bus Fault	Green	Green	Green	Green	Green	Green	Green	Green
Operating, Thermal Shutdown	Green	Green	Green	Green	Green	Green	Green	Green
Bootloader firmware only	Green	Green	Green	Green	Green	Green	Green	Green
Charger Failure	Red	Red	Red	Red	Red	Red	Red	Red

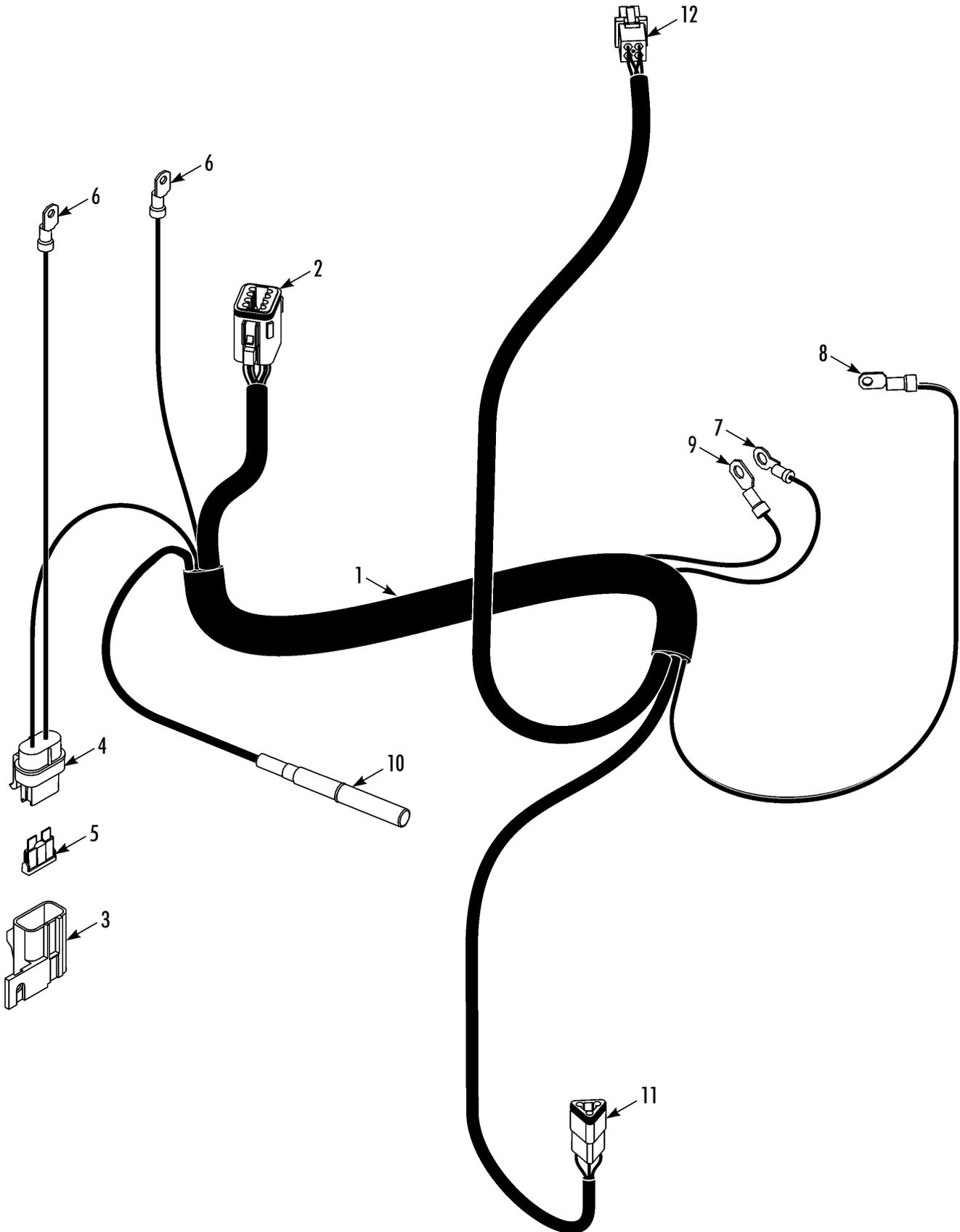
Time, Seconds: 0 1 2 3 4 5 6 7 8

14



**BATTERY CHARGER, S-600/S-700 (OPTIONAL)****261D7**Revised  
02/05/14

REF	PART NO.	DESCRIPTION	QTY
1	93-239	MOUNT - ECU	1
	51-2760	SCREW - mount	4
2	42-531	ECU - TIER 4 (Yanmar)	1
	51-2766	SCREW - ECU	4
3	33-5006	GROMMET - ECU	1
4	92-9664	COVER - battery charger	1
	51-2264	*INSERT - threaded (M6)	7
	51-2760	SCREW - cover	4
5	92-9663	BOX - battery charger	1
	51-2760	SCREW - box	4
6	93-240	SHIELD - heat	1
	51-2760	SCREW - heat shield	2
7	40-1208	KIT - battery charger (30 amp)	1
8	41-9900	*CHARGER - battery (30 amp)	1
	55-7007	*NUT - charger	4
	51-2171	*WASHER - nylon	4
	55-7075	*FLATWASHER	4
9	42-568	*CONDUIT - harness	1
10	51-2248	*FITTING - conduit (elbow)	1
	51-2250	*NUT - fitting	1
	51-2252	*WASHER - sealing	1
	33-4926	*O-RING	2
11	44-2789	*TERMINAL - ring (blue 1/4, 16-14 ga)	1
	41-9022	*TERMINAL - ring (blue #8, 16-14 ga)	3
12	42-569	*FITTING - conduit (1 wire)	2
	42-570	*FITTING - conduit (2 wire)	1
13	42-971	*HARNESS - ECU power	1
14	93-283	*NAMEPLATE - Battery Charger	1
15	45-2520	*HARNESS - battery charger (see 267F9)	1



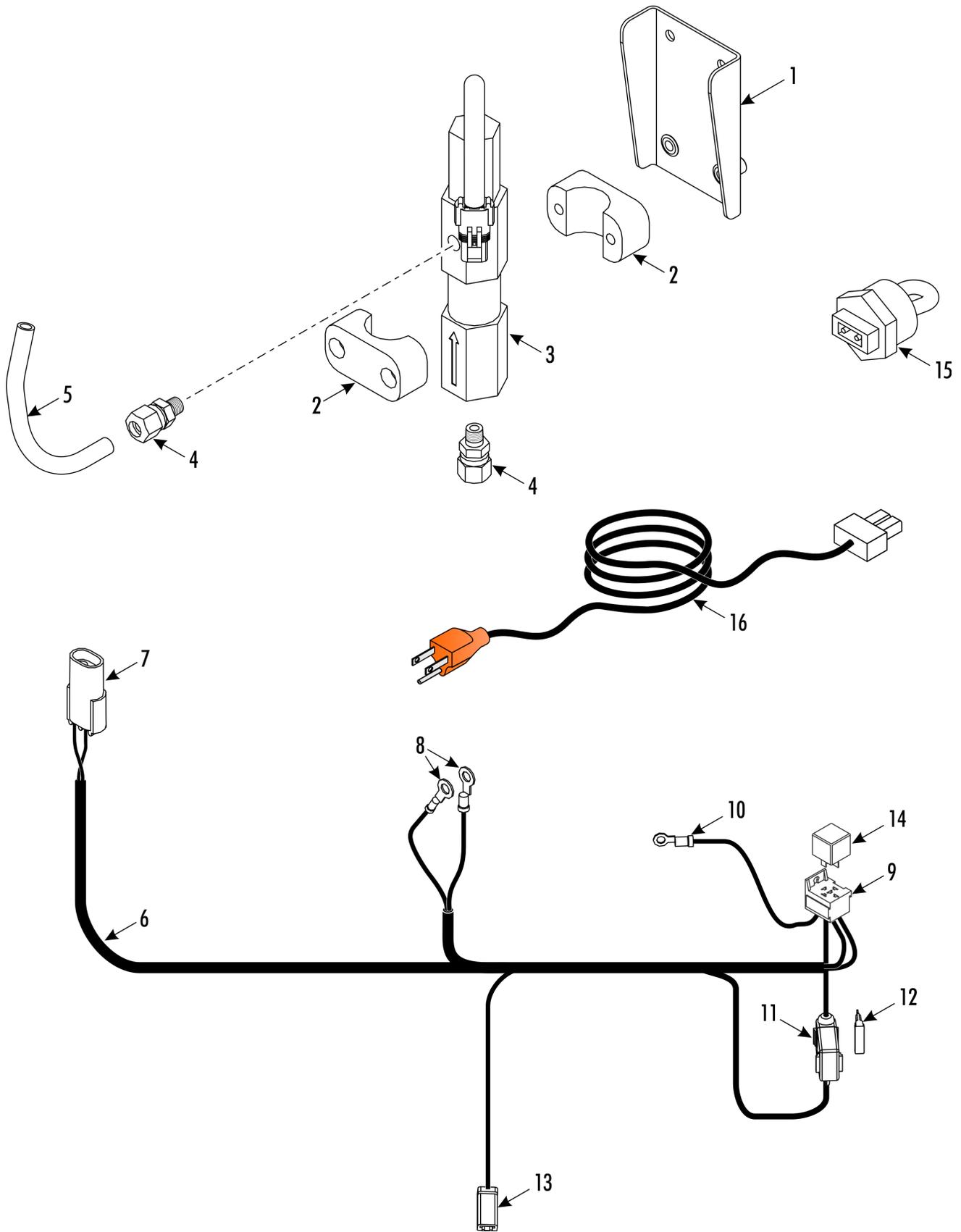
# HARNESS - BATTERY CHARGER (OPTIONAL)



# 267F9

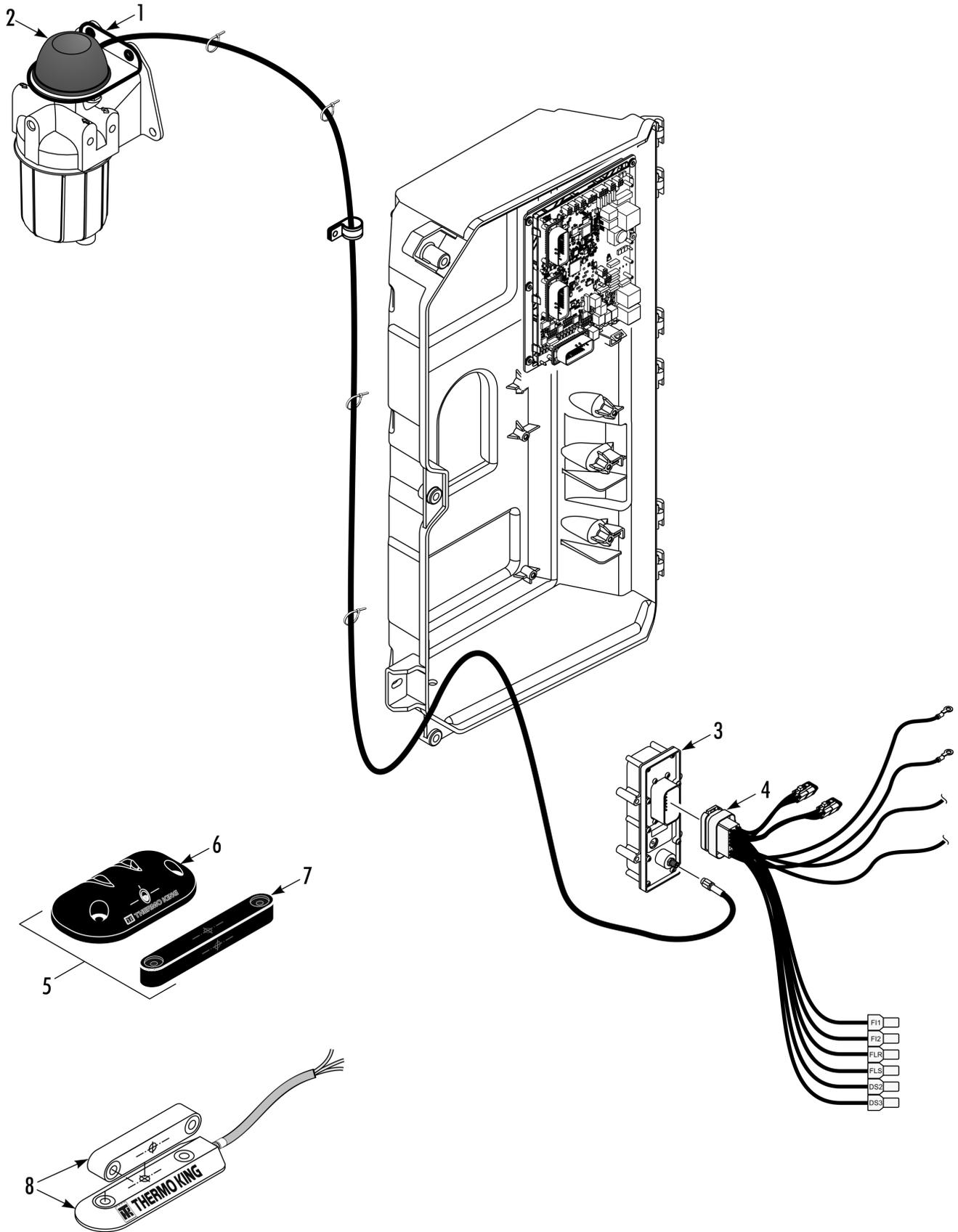
Revised  
10/26/13

REF	PART NO.	DESCRIPTION	QTY
1	45-2520	HARNESS - battery charger	1
2	44-9903	*PLUG - 8-pin (w/ seal)	1
	41-8816	*SOCKET - gold (18 ga)	7
	44-9602	*PIN - sealing	1
3	41-1769	*COVER - fuse	1
4	42-443	*HOLDER - fuse	1
5	41-2978	*FUSE - 20 amp	1
6	41-4468	*TERMINAL - ring (#8 yellow, 10-12 ga)	2
7	44-2789	*TERMINAL - ring (blue 1/4, 14-16 ga)	1
8	44-2792	*TERMINAL - ring (yellow #10)	1
9	44-2793	*TERMINAL - ring (yellow 1/4)	1
10	40-975	*SENSOR - ungraded	1
11	44-9631	*CONNECTOR - 3-pin (w/ seal)	1
	44-9587	*TERMINAL - socket	1
	44-9602	*PIN - sealing	2
12	41-5710	*CONNECTOR - sealed (4-pin)	1
	41-5719	*SOCKET (20-16 gauge)	4



**FUEL HEATER & BLOCK HEATER (OPTIONAL)****261G2**Revised  
01/30/14

REF	PART NO.	DESCRIPTION	QTY
1	93-427	BRACKET - fuel heater	1
2	91-2473	CLAMP - heater	2
	51-2332	SCREW - clamp	2
3	42-273	HEATER - fuel	1
4	13-1223	CONNECTOR - fuel line (3/8)	2
	10-242	KIT - sleeve & eyelet	2
	11-4941	NUT - connector	2
5	11-4372	HOSE (3/8 od x 35 ft)	A/R
6	42-829	HARNESS - fuel heater	1
7	44-5835	*CONNECTOR - shroud (black, 2-pin)	1
8	44-2789	*TERMINAL - ring (blue 1/4, 16-14 ga)	2
9	44-5537	*SOCKET - relay	1
	44-5066	*TERMINAL - fingrip (18-14 ga)	4
10	44-2791	*TERMINAL - ring (blue #10, 16-14 ga)	1
11	41-4740	*HOLDER - fuse	1
12	41-2978	*FUSE - 20 amp	1
13	44-6451	*CONNECTOR - 1-pin (female)	1
	44-5631	*TERMINAL - fingrip (20 gauge)	1
14	41-895	RELAY	1
15	41-2317	HEATER - frost plug	1
16	42-1322	CORD - power	1



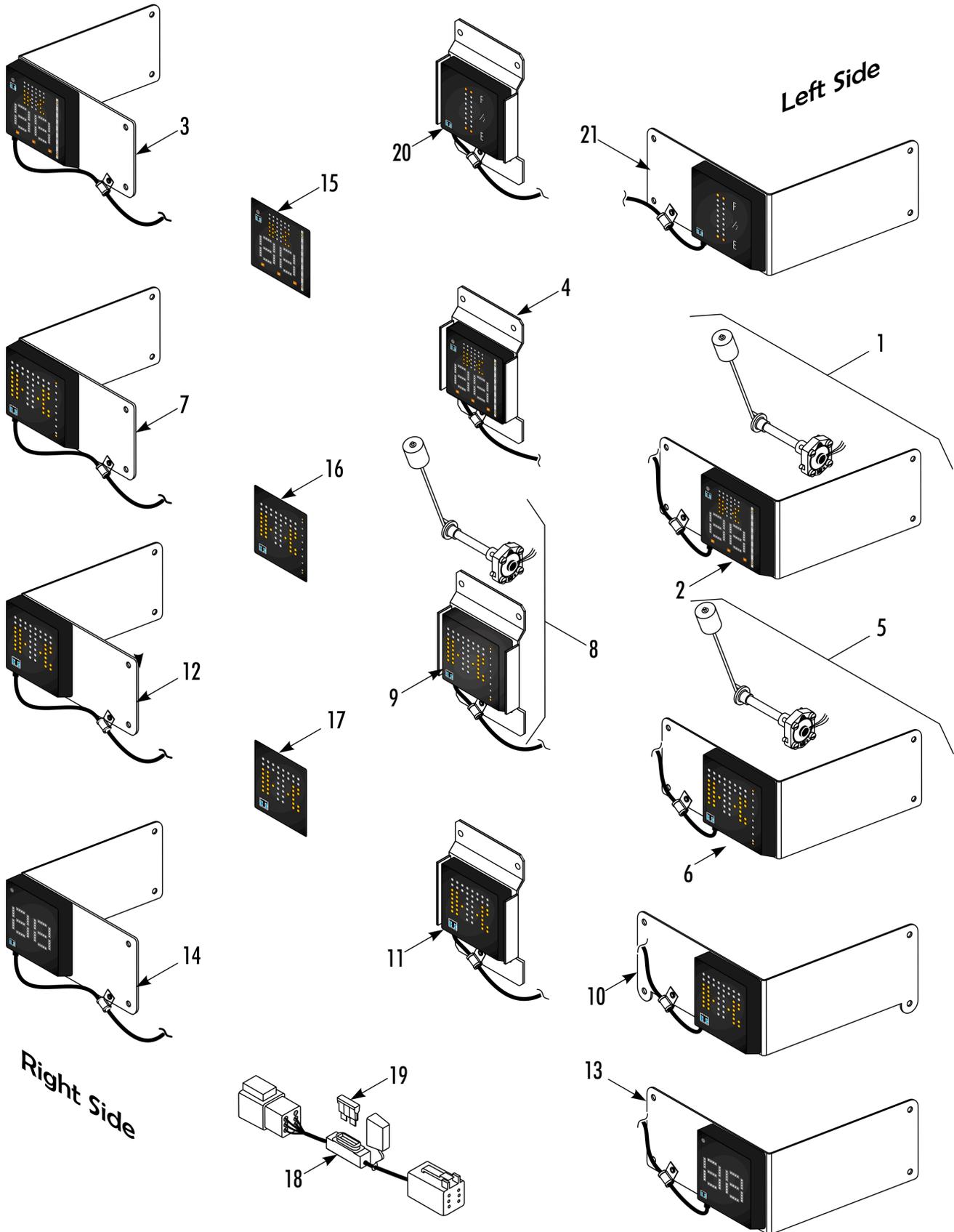
# DOOR SWITCH TRAILER (CargoLink)



# 267G9

Revised  
05/06/13

REF	PART NO.	DESCRIPTION	QTY
1	93-860	BRACKET - antenna	1
	55-736	SCREW - bracket	2
	55-1511	LOCKWASHER	2
	55-2001	FLATWASHER	2
	55-7062	INSERT - threaded	2
2	42-239	ANTENNA	1
3	42-228	CONTROLLER - coordinator	1
	55-5754	NUT - controller	2
	55-3013	FLATWASHER	2
4	42-240	HARNESS - interface	1
	41-9350	*CONNECTOR - 23-pin	1
	41-2457	*TERMINAL - socket	8
	41-9694	*PIN - sealing	15
5	40-1143	KIT - door switch	A/R
6	42-229	*SENSOR - door	1
7	NSS	*MAGNET	1
	51-1321	*SCREW - 3/4 in	2
	55-8421	*SCREW - 1.0 in	2
	55-2001	*FLATWASHER	4
8	40-1135	KIT - door switch (3 wire)	1

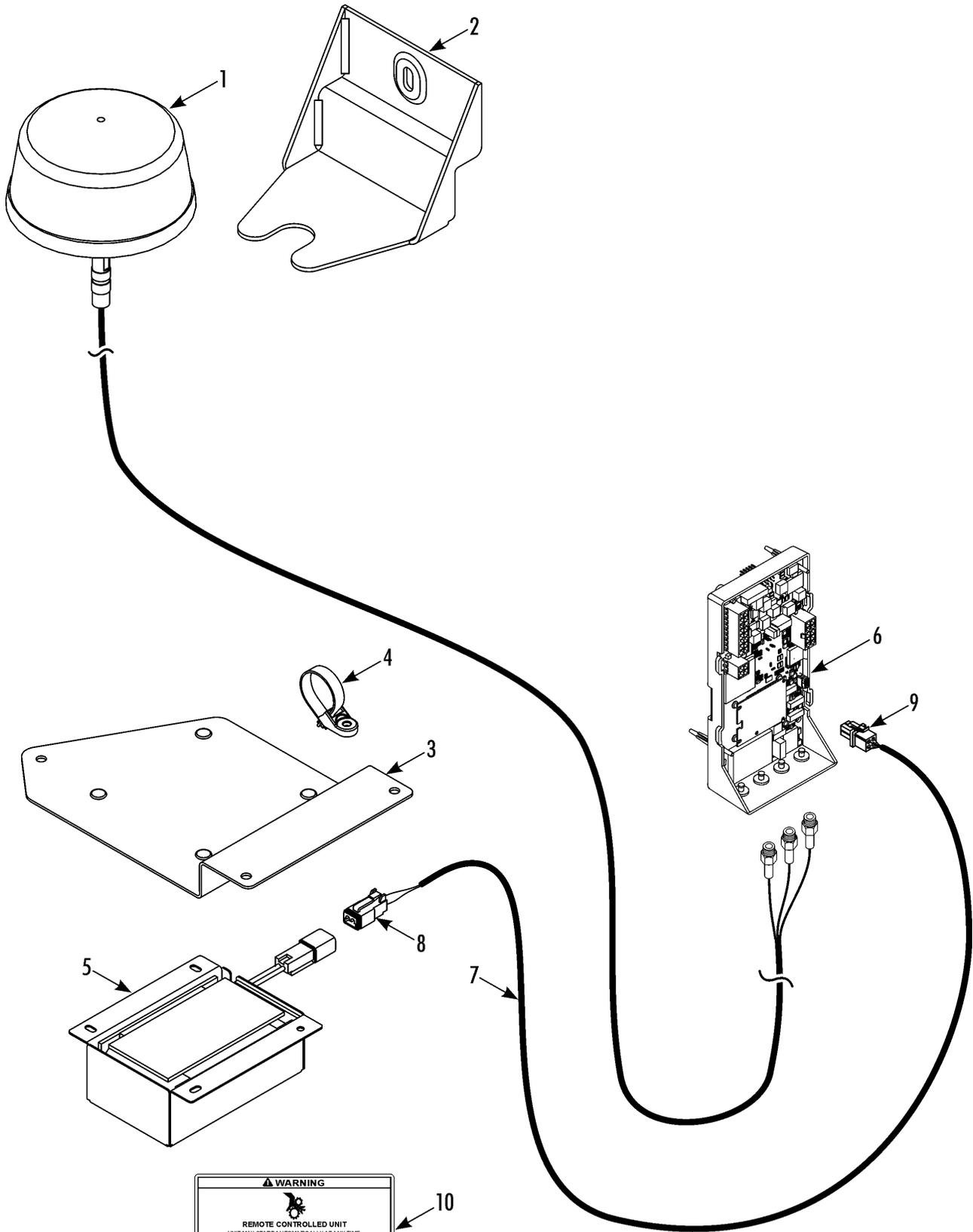


# STATUS/TEMPERATURE/FUEL LEVEL DISPLAYS



**226E6**

REF	PART NO.	DESCRIPTION	QTY
1	40-1109	KIT - status/temp/fuel level display (left side, w/fuel gauge)	1
2	40-1110	KIT - status/temperature/fuel level display (left side)	1
3	40-1111	KIT - status/temperature/fuel level display (right side)	1
4	40-1112	KIT - status/temperature/fuel level display (flush mount)	1
5	40-1070	KIT - status/fuel level display (left side, w/fuel gauge)	1
6	40-1068	KIT - status/fuel level display (left side)	1
7	40-1069	KIT - status/fuel level display (right side)	1
8	40-1071	KIT - status/fuel level display (flush mount, w/fuel gauge)	1
9	40-1067	KIT - status/fuel level display (flush mount)	1
10	40-980	KIT - status display (left side, SB)	1
	40-984	KIT - status display (left side, SLX, Precedent, T-Series Truck after 11/11)	1
	350-4665	KIT - status display (Carrier units only)	1
11	40-981	KIT - status display (flush mount, SB)	1
	40-989	KIT - status display (flush mount, SLX, Precedent)	1
12	40-996	KIT - status display (right mount, SB Australia)	1
	40-985	KIT - status display (right side, SLX, Precedent)	1
13	40-1119	KIT - temperature display (left side, degrees F, 12V only)	1
	40-1120	KIT - temperature display (left side, degrees C, 12V only)	1
14	40-1121	KIT - temperature display (right side, degrees C, 12V only)	1
15	41-9024	DISPLAY - face plate decal (status/temp/fuel level display)	1
16	41-9025	DISPLAY - face plate decal (status/fuel level display)	1
17	41-9023	DISPLAY - face plate decal (status display)	1
18	41-6742	HARNESS - fuse (multi temp units)	1
19	41-1932	FUSE (1 amp)	1
20	40-1160	KIT - fuel level (flushmount)	1
21	40-1165	KIT - fuel level (left side)	1



**⚠ WARNING**

**REMOTE CONTROLLED UNIT**  
UNIT MAY START AUTOMATICALLY AT ANY TIME.  
CAN CAUSE SERIOUS INJURY.

PRESS THE OFF KEY ON THE HMI CONTROL PANEL AND PLACE THE MICROPROCESSOR ON/OFF SWITCH ON THE OFF POSITION BEFORE INSPECTING OR SERVICING ANY PART OF THE UNIT.



REF	PART NO.	DESCRIPTION	QTY
1	41-9806	ANTENNA - cellular, WIFI, GPS	1
2	93-1447	BRACKET - antenna	1
	51-2758	SCREW - bracket	1
3	93-429	BRACKET - battery box	1
	51-2132	SCREW - bracket (16mm)	2
	51-2760	SCREW - bracket (25mm)	1
4	51-2038	MOUNT - bandwrap	1
	51-2220	BANDWRAP	1
5	203-788	BATTERY	1
	55-7089	FLATWASHER	4
	55-7011	NUT - battery box	4
6	45-2387	REB (RADIO EXPANSION BOARD) - iBox + 3rd Party 2-Way	1
	45-2388	REB - iBox + GPS + cellular	1
	45-2465	REB - iBox + T-Mobile	1
	45-2466	REB - iBox + cellular + WIFI + PAN	1
	45-2444	REB - GPS + WIFI + T-Mobile	1
	45-2445	REB - GPS + WIFI + cellular	1
	44-9524	*FUSE (3 amp)	1
7	42-838	HARNESS - REB to battery	1
8	44-9585	*PLUG - 2-pin (w/ seal)	1
9	41-5710	*CONNECTOR - sealed (4-pin)	1
10	92-7100	NAMEPLATE - Warning Remote Control	1

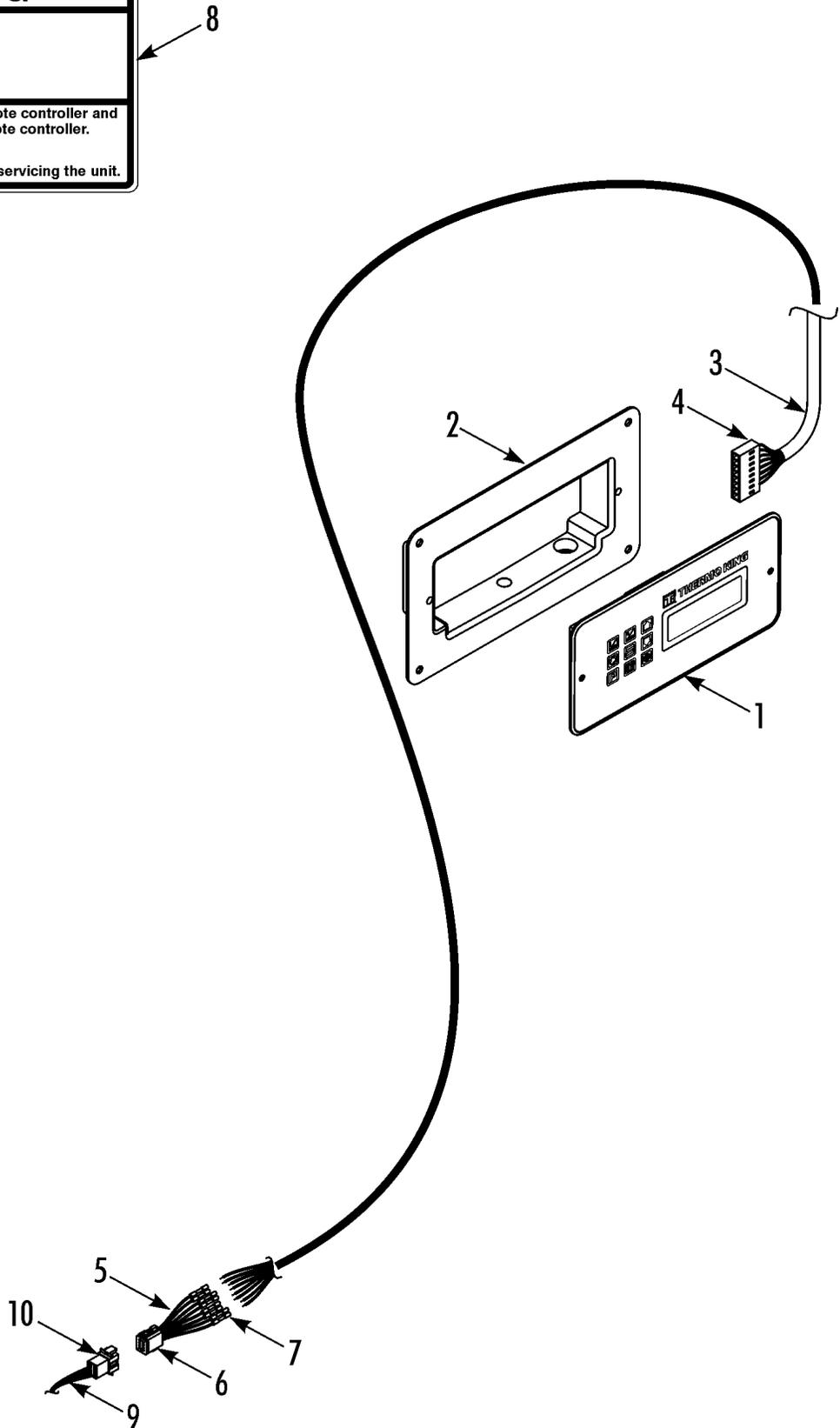


**⚠ WARNING**



This system is equipped with a rear remote controller and can be turned ON from the rear remote controller. Can cause injury.

Turn Microprocessor Switch OFF before servicing the unit.



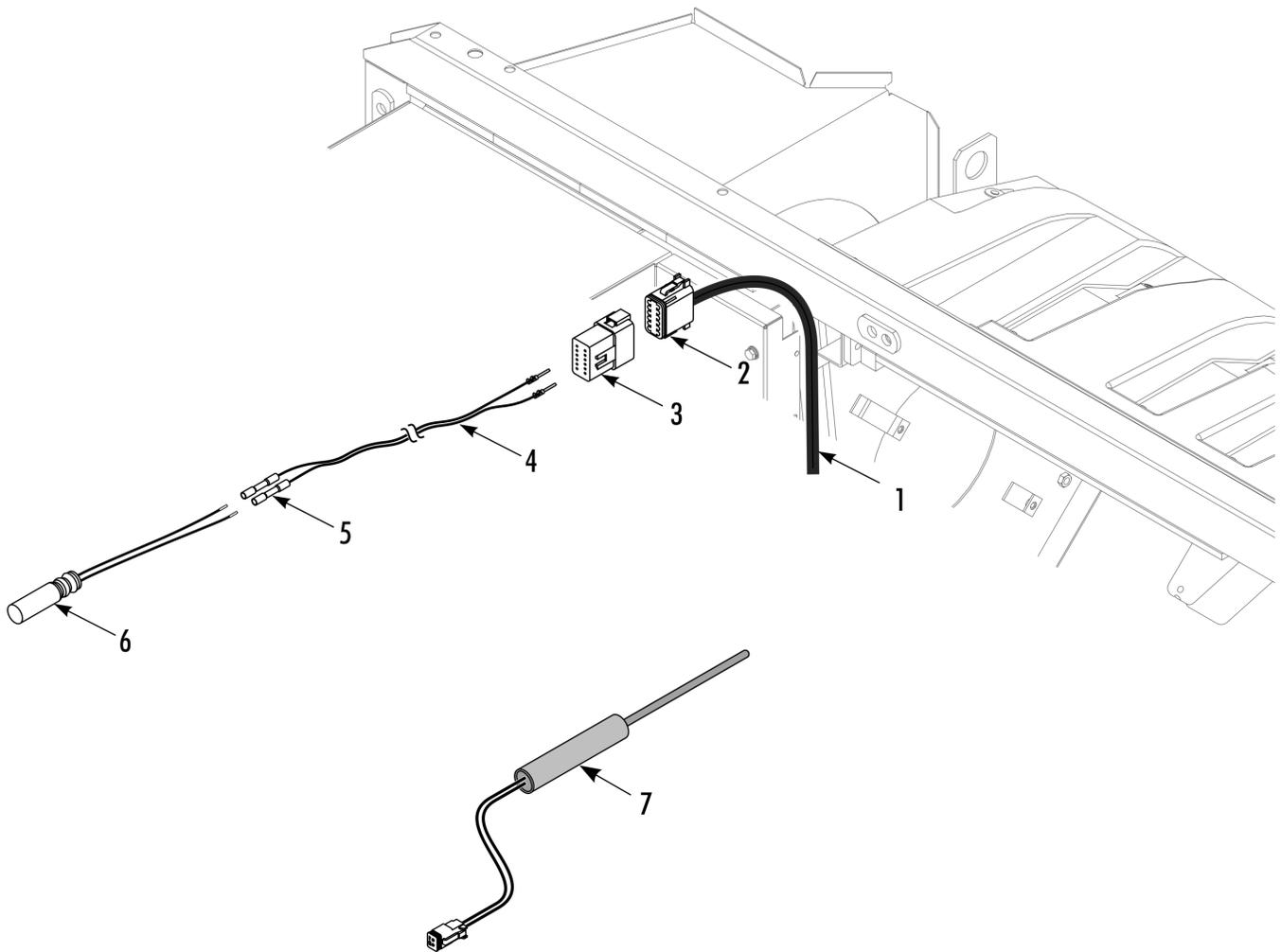
# FLUSH MOUNT CONTROLLER



# 256H4

Revised  
09/07/13

REF	PART NO.	DESCRIPTION	QTY
1	45-2401	CONTROLLER - flush mount (single temp)	1
	45-2404	CONTROLLER - flush mount (multi temp)	1
	93-1032	*FACEPLATE	1
	55-3443	SCREW - controller	2
2	90-335	KIT - box, remote controller	1
3	41-8702	HARNESS - controller to evap	1
	41-7032	HARNESS - controller to evap (Precedent)	1
4	41-8765	*CONNECTOR - 8-pin	1
	41-8872	*TERMINAL - gold (20 ga)	7
5	41-6586	HARNESS - evaporator	1
6	44-9903	*PLUG - 8-pin	1
	44-9902	*WEDGE - 8 -pin	1
	41-8816	*SOCKET - gold (18 ga)	8
7	41-124	*TERMINAL - splice	8
8	92-4978	NAMEPLATE - Warning	1
9	42-839	HARNESS - remote controller (single temp)	1
	42-1316	HARNESS - remote controller (multi temp)	1
10	41-5709	*CONNECTOR - sealed (8-pin)	1



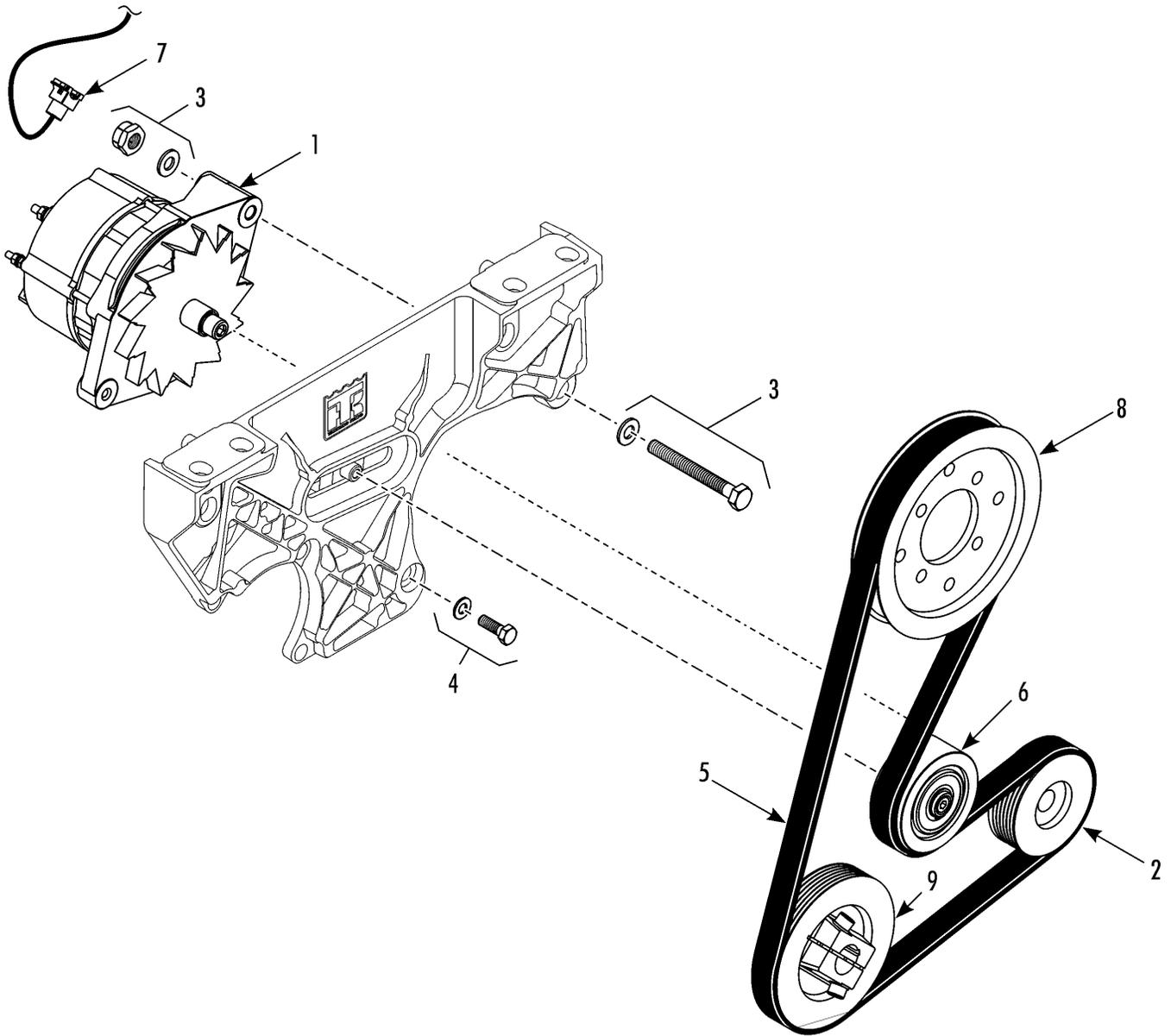
# Cargo Watch HARNESES AND SENSORS



# 189C0

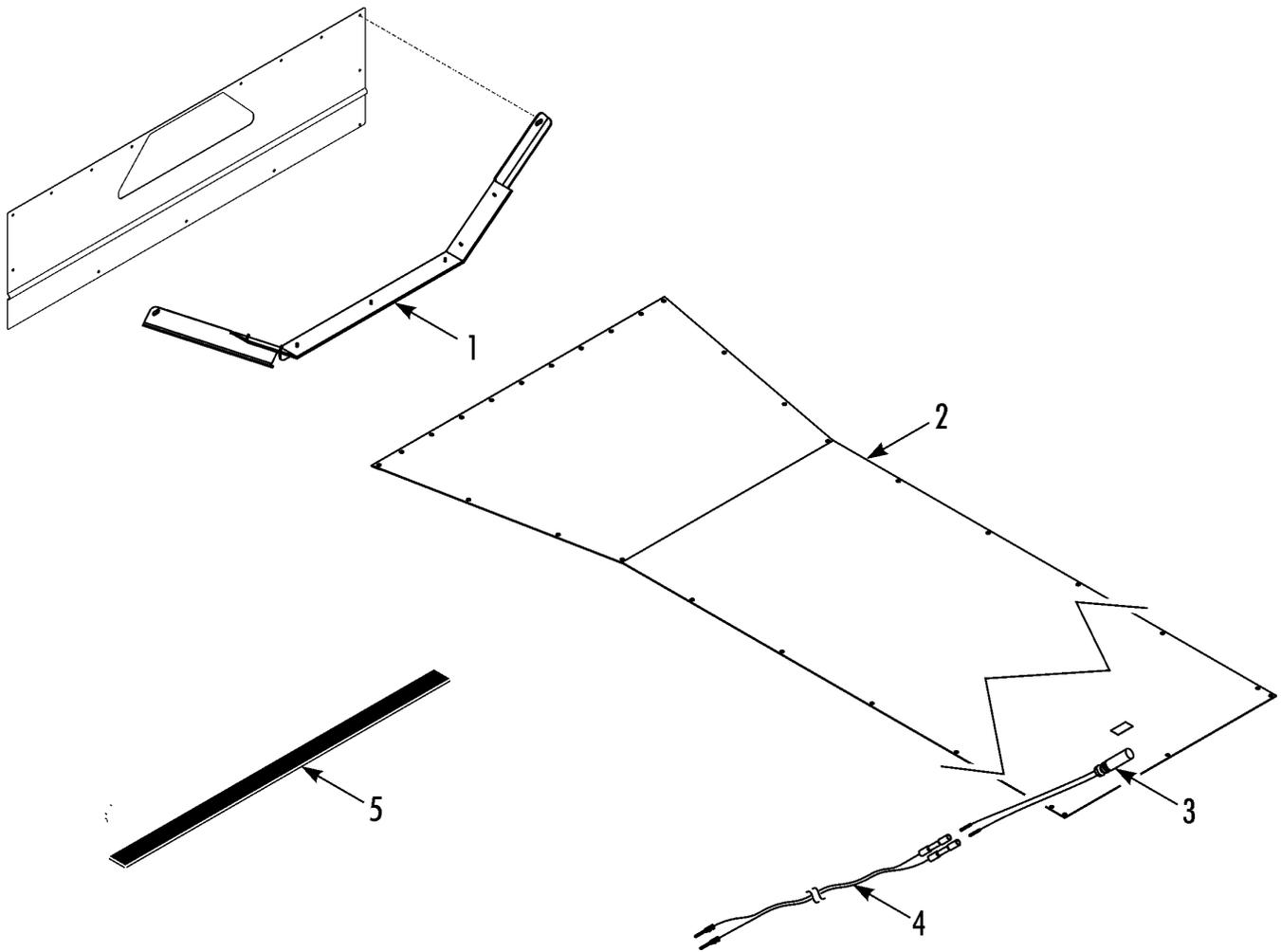
Revised  
05/15/13

REF	PART NO.	DESCRIPTION	QTY
1	41-9701	HARNESS - HMI (SB)	1
	42-446	HARNESS - HMI (Precedent)	1
2	44-9600	*PLUG - 12-pin	1
3	44-9904	*RECEPTACLE - 12-pin	1
4	41-5488	HARNESS - Cargo Watch sensor (10 ft)	1
	41-5489	HARNESS - Cargo Watch sensor (20 ft)	1
	41-5490	HARNESS - Cargo Watch sensor (40 ft)	1
	41-5491	HARNESS - Cargo Watch sensor (60 ft)	1
	41-5492	HARNESS - Cargo Watch sensor (80 ft)	1
	41-9908	HARNESS - Cargo Watch sensor (100 ft)	1
5	41-124	TERMINAL - splice	2
6	41-5436	SENSOR - Cargo Watch	1
7	42-474	SENSOR - Cargo Watch, handheld (optional)	1



**ALTERNATOR - 120A, S-700 (OPTIONAL)****275C2**Revised  
02/03/14

<b>REF</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
1	45-2258	ALTERNATOR - 120 amp	1
2	77-3142	PULLEY - alternator	1
3	108-2022	SCREW - alternator (M10)	1
	55-7072	FLATWASHER	2
	55-7005	NUT	1
4	55-5424	SCREW - alternator (M8)	1
	55-7069	FLATWASHER	1
5	78-1857	BELT - alternator & generator	1
6	78-1843	TENSIONER - belt (smooth)	1
7	42-865	HARNESS - alternator (30 units)	1
	42-854	HARNESS - alternator (50 units, Smartpower)	1
	44-9607	CONNECTOR - alternator	1
8	77-3129	PULLEY - engine/alternator & generator	1
	55-5589	SCREW - pulley	4
	51-144	FLATWASHER	4
10	77-3056	PULLEY - generator	1



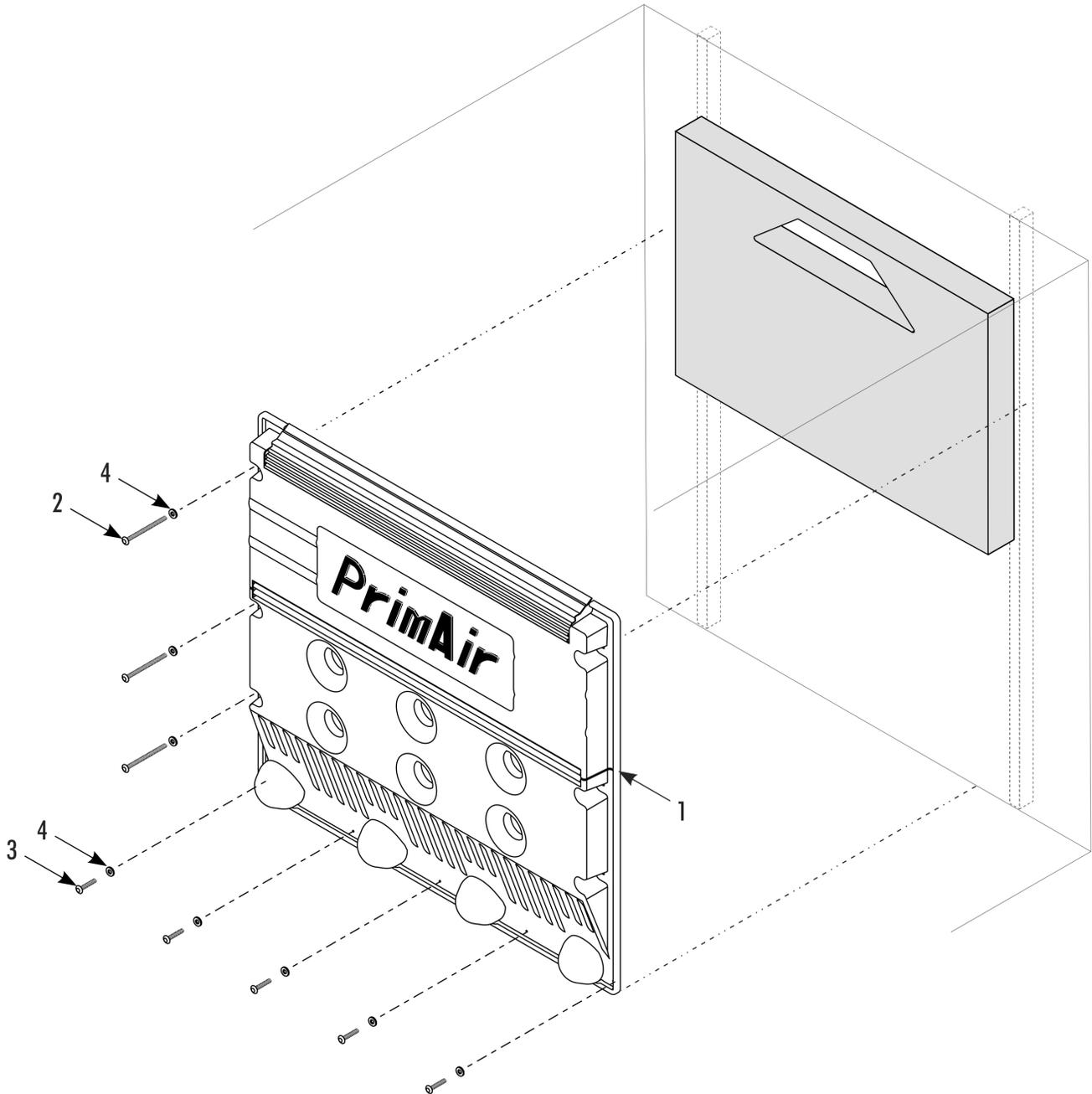
Revised  
01/27/13

## AIR CHUTE (OPTIONAL)



# 264H3

REF	PART NO.	DESCRIPTION	QTY
1	201-3063	BRACKET - chute adapter, Precedent	1
2	201-3061	CHUTE - air (43 ft, vinyl full velcro)	1
	201-3062	CHUTE - air (38 ft, vinyl full velcro)	1
	201-3064	CHUTE - air (43 ft, vinyl w/ mesh & hardware)	1
	201-3065	CHUTE - air (38 ft, vinyl w/ mesh & hardware)	1
	201-3066	CHUTE - air (43 ft, polyethylene w/ mesh & hardware)	1
	201-3067	CHUTE - air (38 ft, polyethylene w/ mesh & hardware)	1
	51-2346	*RIVET - drive (nylon, set of 60)	1
	51-2349	*SPACER (set of 36)	1
3	40-974	KIT - sensor (graded)	1
4	41-5490	HARNESS - sensor (40 ft)	1
	41-5491	HARNESS - sensor (60 ft)	1
5	201-3036	VELCRO (4 ft, hook side of velcro)	A/R



# EVAPORATOR BULKHEAD (OPTIONAL)



# 261H4

Revised  
11/29/12

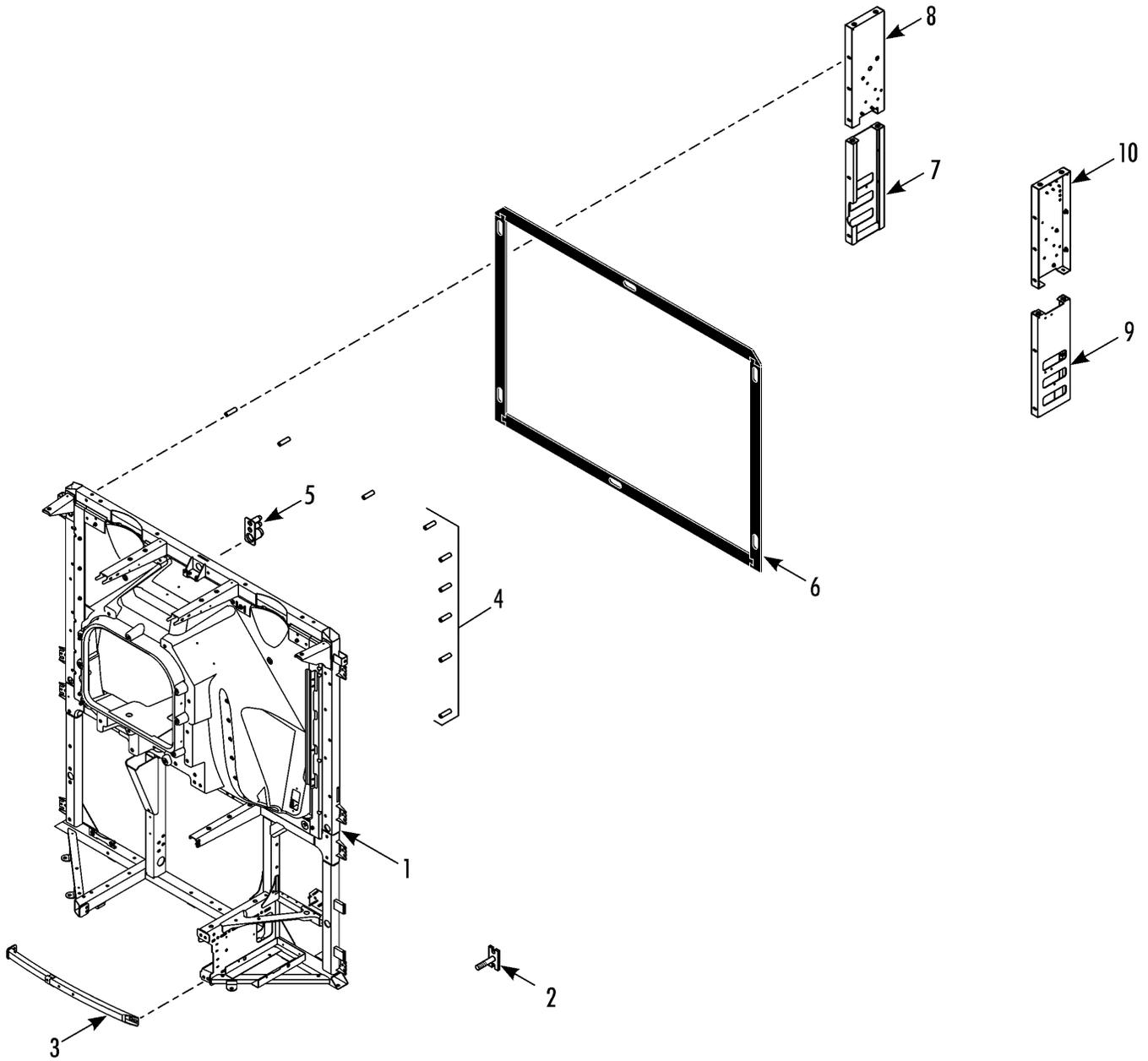
REF	PART NO.	DESCRIPTION	QTY
1	201-3044	BULKHEAD - white (qty of 1)	A/R
	201-3045	BULKHEAD - black (qty of 1)	A/R
	201-3048	BULKHEAD - white (w/ screen, qty of 1)	A/R
	201-3053	BULKHEAD - black (w/ screen, qty of 1)	A/R
	201-3056	KIT - screen (return air)	A/R
2	55-2348	SCREW - side (3 in.)	6
3	55-9383	SCREW - bottom (1.25 in.)	5
4	55-9428	WASHER	11

261B6



# CONDENSER FRAME & EVAPORATOR HOUSING

Revised  
02/05/14



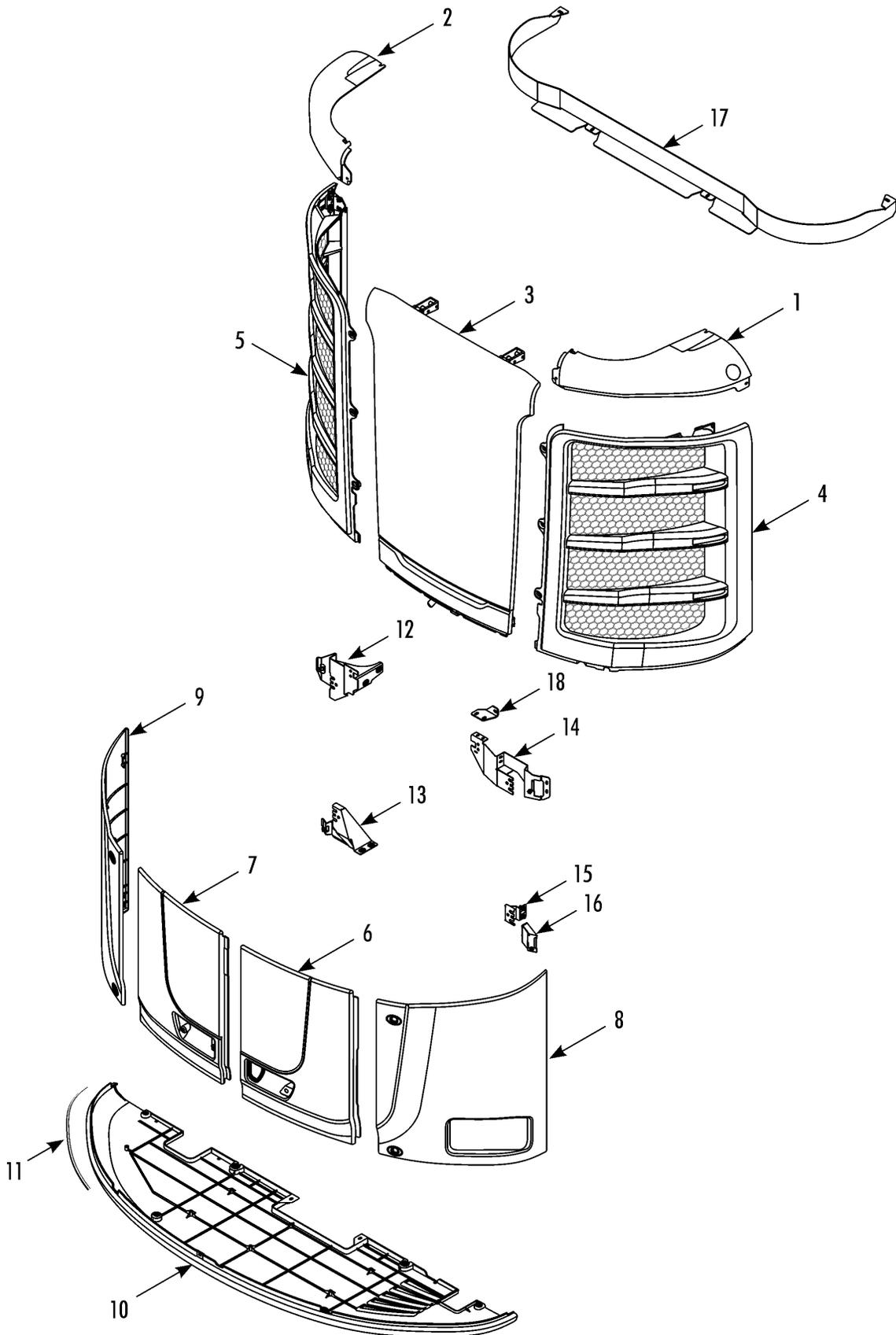
Revised  
02/05/14

# CONDENSER FRAME & EVAPORATOR HOUSING



## 261B6

REF	PART NO.	DESCRIPTION	QTY
1	NSS	FRAME - condenser	1
2	99-214	T-BOLT - unit mounting	1
	55-3686	NUT - unit	8
	55-2038	FLATWASHER	8
	55-5234	WASHER - special	8
3	98-9072	BUMPER	1
	51-2264	*INSERT - threaded (M6)	5
	51-1247	SCREW - bumper	6
	55-7072	FLATWASHER	6
4	51-2593	BUSHING - bulkhead	19
	51-891	SCREW - bulkhead	19
	55-2904	WASHER	19
5	33-4933	PLUG - refrigeration tubes	1
6	33-2918	GASKET - sill	1
	203-412	SEALER	A/R
7	92-9849	PANEL - lower (curbside)	1
8	92-9851	PANEL - upper (curbside)	1
9	93-1373	PANEL - lower (roadside)	1
10	92-9850	PANEL - upper (roadside)	1
	55-9698	INSERT - threaded (M6)	A/R
	51-2200	SCREW - panel	A/R



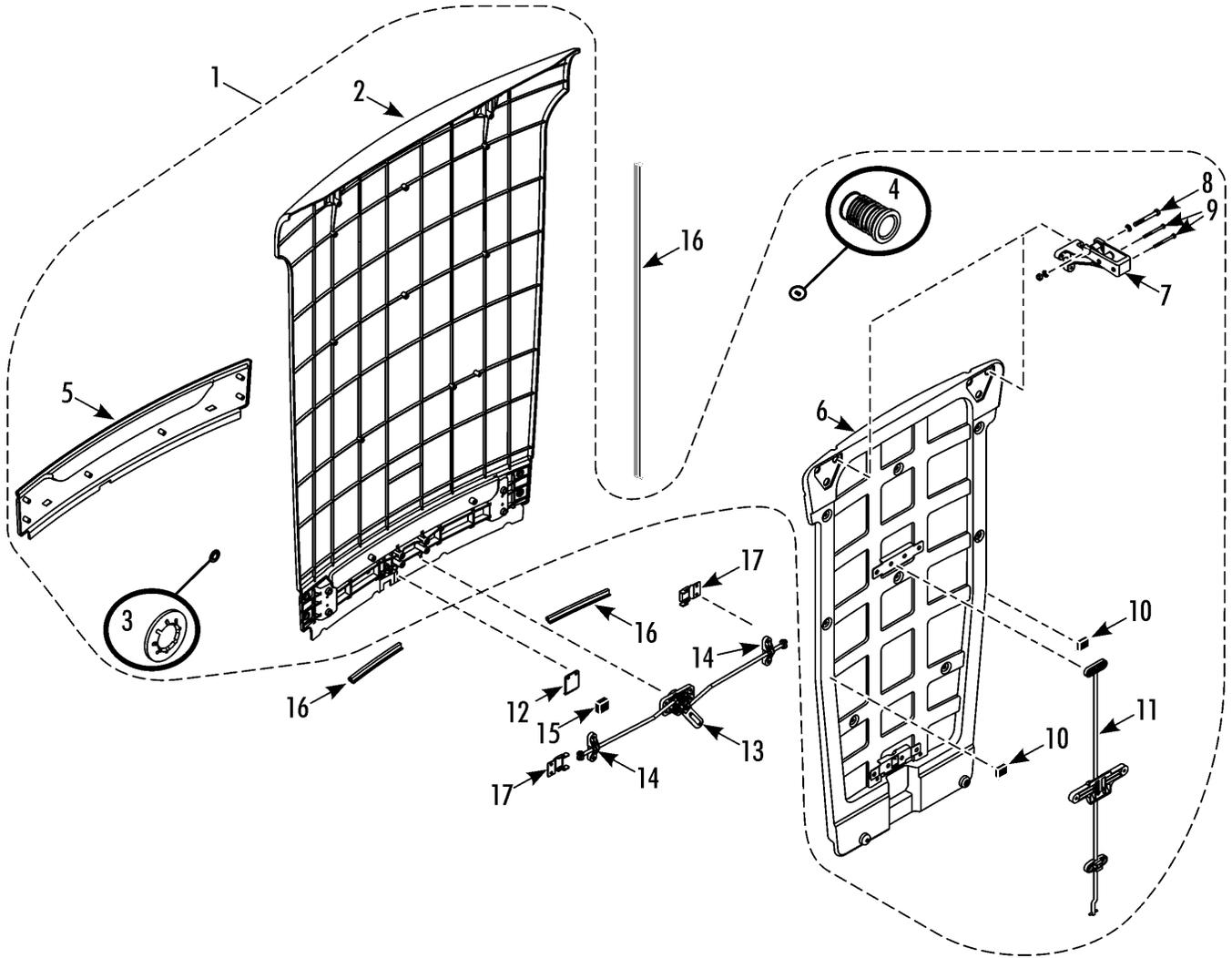
## DOORS, GRILLES &amp; PANELS



272E8

Revised  
02/05/14

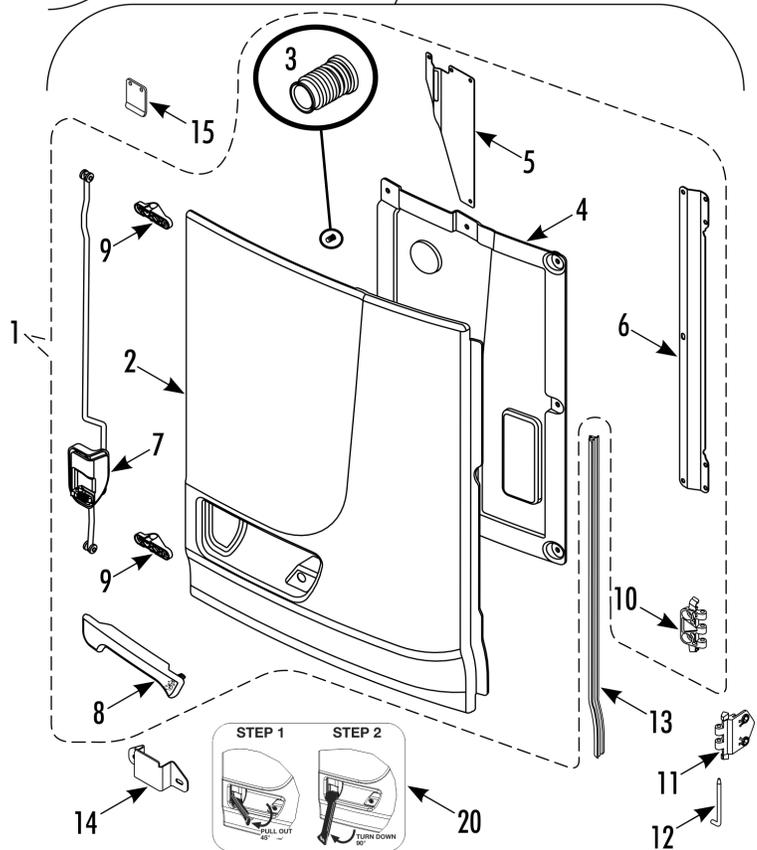
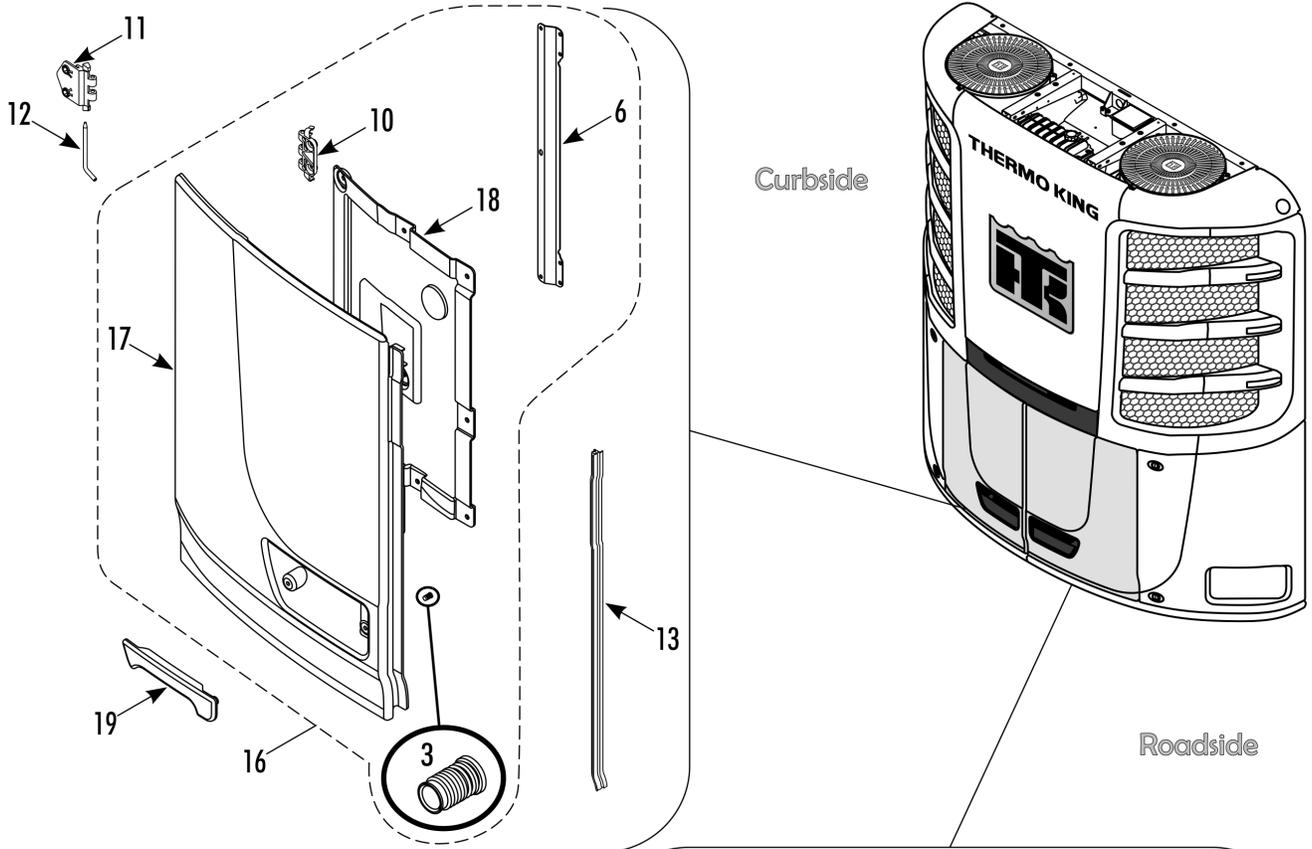
REF	PART NO.	DESCRIPTION	QTY
1	98-8966	FASCIA - top (roadside)	1
2	98-8967	FASCIA - top (curbside)	1
	51-2758	SCREW - fascia	15
3	98-9116	DOOR - top (see 261C0)	1
4	98-9117	GRILLE - condenser (roadside, see 261D1)	1
5	98-9118	GRILLE - condenser (curbside, see 261D1)	1
6	98-9120	DOOR - roadside (see 261D3)	1
7	98-9121	DOOR - curbside (see 261D3)	1
8	98-9122	PANEL - roadside (see 261D5)	1
9	98-9123	PANEL - curbside (see 261D5)	1
10	93-1224	PAN - bottom	1
	51-2758	SCREW - pan	15
11	33-5063	GASKET - door seal (25 ft, cut to length)	1
12	93-1487	BRACKET - door (curbside upper)	1
13	92-9677	BRACKET - door (curbside lower)	1
14	93-1488	BRACKET - door (roadside upper)	1
15	92-9678	BRACKET - door (roadside lower)	1
16	92-9679	BRACKET - panel (roadside lower)	1
	51-2264	*INSERT - threaded (M6)	A/R
	51-2758	SCREW - brackets	A/R
17	98-9183	FAIRING - top	1
	51-2759	SCREW - fairing (20 mm)	2
	51-2760	SCREW - fairing (25 mm)	2
18	93-1489	BRACKET - door (upper roadside)	1
	51-2758	SCREW - bracket	2





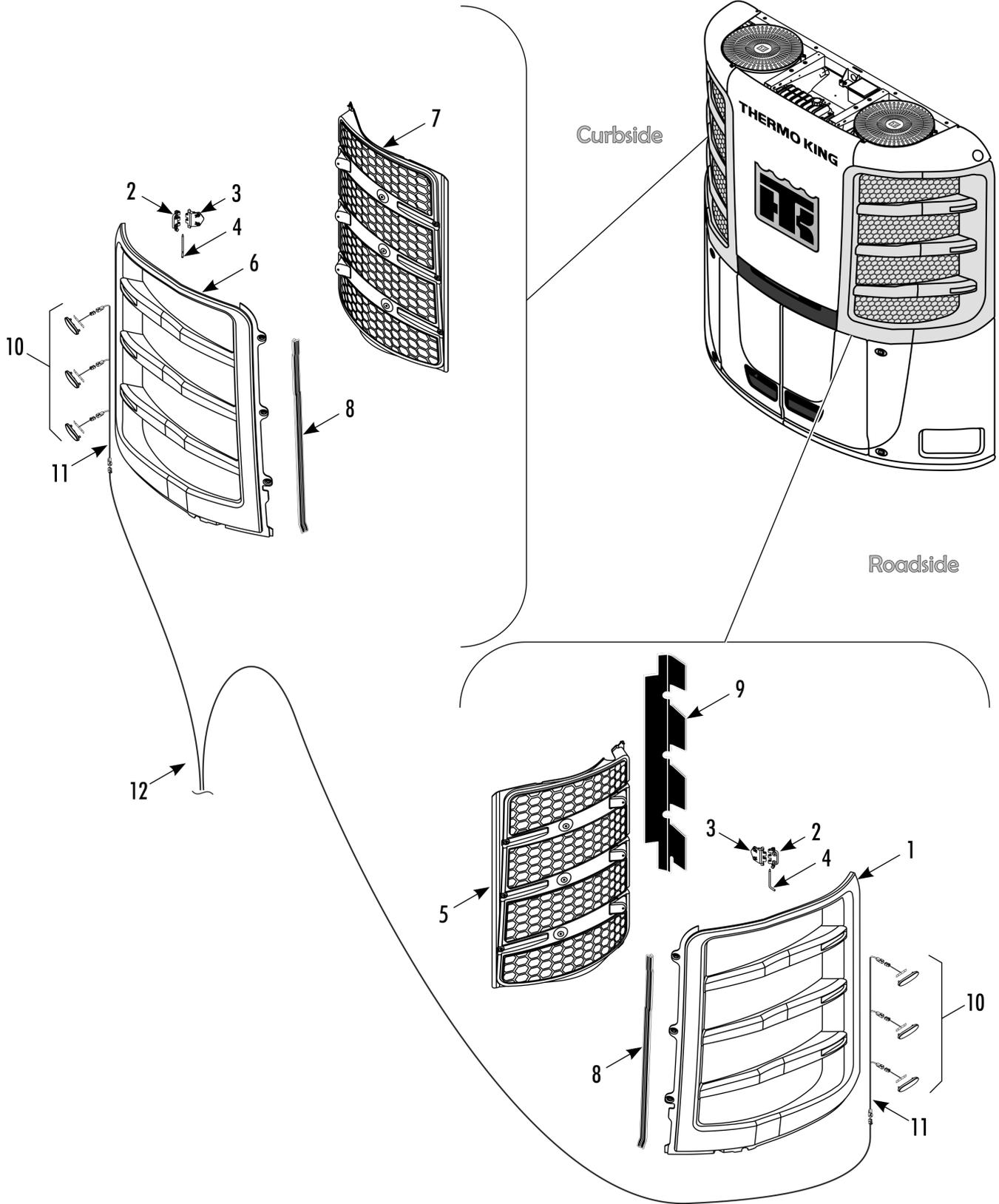
REF	PART NO.	DESCRIPTION	QTY
1	98-9116	DOOR - top (complete assembly)	1
	93-855	DOOR - top (complete assembly, w/ chrome center band)	1
2	93-1393	*SKIN - top door (white, include items 2 & 3)	1
	93-1394	*SKIN - top door (black, include items 2 & 3)	1
3	51-2810	**CLIP - center band	6
4	51-2809	**INSERT - threaded	22
5	93-1396	*BAND - center	1
	93-1396	*BAND - center (chrome)	1
6	93-1395	*PANEL - reinforcement (top door)	1
	51-2758	*SCREW - panel	10
7	93-285	*HINGE - door (top)	2
	51-2758	*SCREW - hinge to door	6
8	55-6764	*SCREW - pivot (M8)	2
	55-7069	*FLATWASHER	4
	55-7006	*NUT	2
9	55-6209	*SCREW - hinge to frame (M6)	4
	55-8893	*FLATWASHER	8
	55-7007	*NUT	4
10	33-5151	*BUMPER - door	2
11	93-558	*ROD - prop	1
12	93-1392	BRACKET - latch (front door, see 261D3)	1
	51-2758	SCREW - bracket	2
13	93-542	LATCH - top door	1
14	93-543	BRACKET - latch (latch rod)	2
	51-2758	SCREW - brackets & latch	8
16	33-5212	BUMPER - door latch	1
15	33-5063	GASKET - door seal (25 ft, cut to length)	A/R
17	93-1493	BRACKET - latch (mounts to frame)	2
	51-2758	SCREW - bracket	4

See SPPI 1301 for door latch installation information.



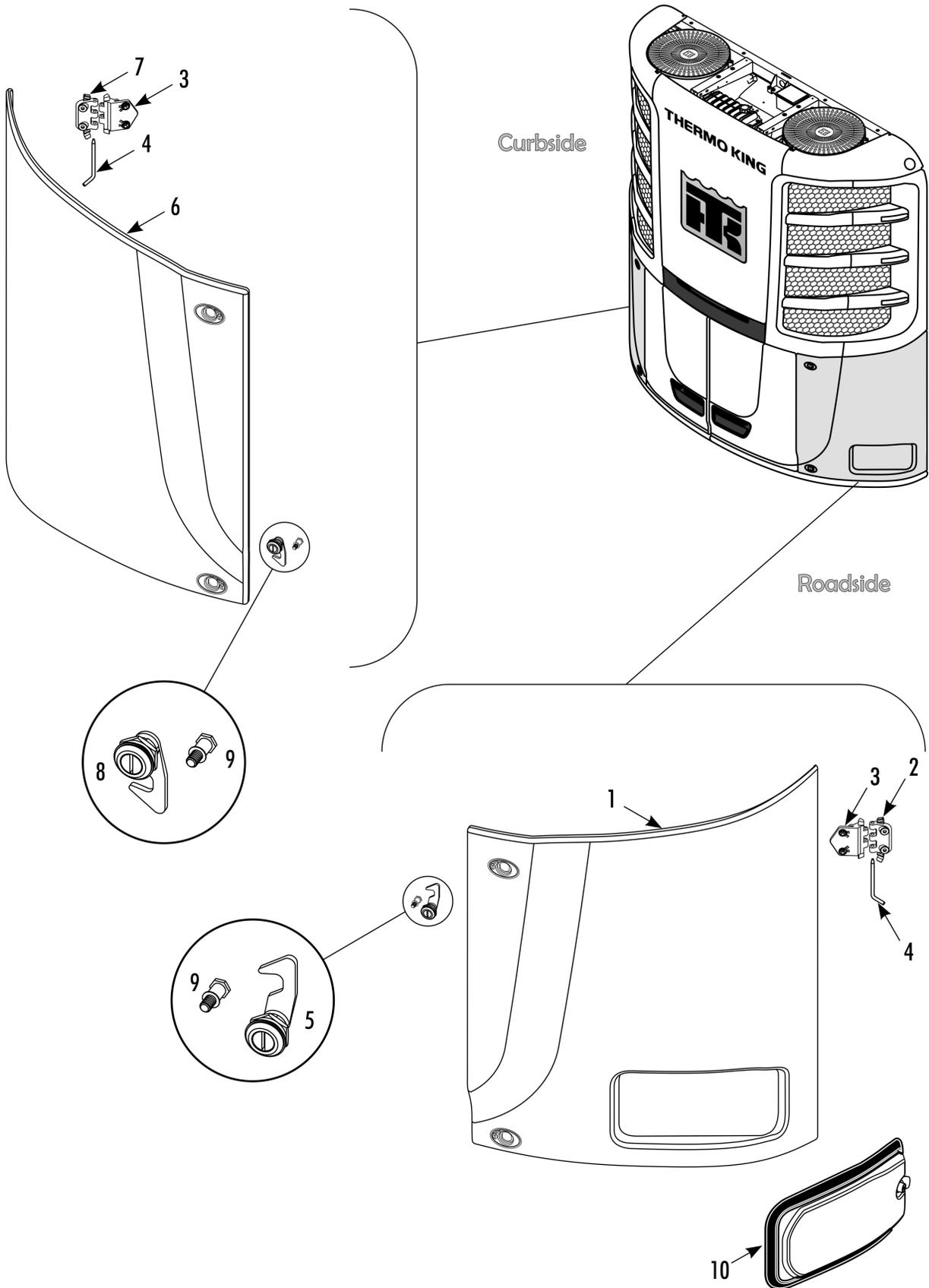


REF	PART NO.	DESCRIPTION	QTY
1	98-9120	DOOR - roadside	1
2	93-1399	*SKIN - door (roadside, white)	1
	93-1400	*SKIN - door (roadside, black)	1
3	51-2809	*INSERT - threaded	A/R
4	93-1401	*PANEL - reinforcement	1
5	93-1708	*PLATE - reinforcement	1
6	93-1405	*STRAP - door stiffener (one per door)	A/R
7	93-304	*LATCH - door (roadside, S-600, C-600 & S-700)	1
8	93-949	**HANDLE - door (roadside)	1
9	93-303	*BRACKET - door latch	2
	51-2758	*SCREW - panels and latch	16
10	93-295	*HINGE - door (two per door)	A/R
	55-4666	*SCREW - hinge (four per door)	A/R
11	93-1080	HINGE - frame	4
	51-2599	WASHER - special	8
12	93-294	PIN - hinge	4
13	33-5063	GASKET - door seal (25 ft, cut to length)	A/R
14	93-1374	BRACKET - lower	1
15	93-1392	BRACKET - upper (attaches to top door)	1
16	98-9121	DOOR - curbside	1
17	93-1402	*SKIN - curbside (white)	1
	93-1403	*SKIN - curbside (black)	1
18	93-1404	*PANEL - reinforcement	1
19	93-296	HANDLE - door (curbside)	1
	51-2758	SCREW - handle	2
20	93-1183	NAMEPLATE - Door Handle (black graphics)	1
	93-1376	NAMEPLATE - Door Handle (white graphics)	1
21	93-1622	LATCH - door (roadside, S-600M)	1



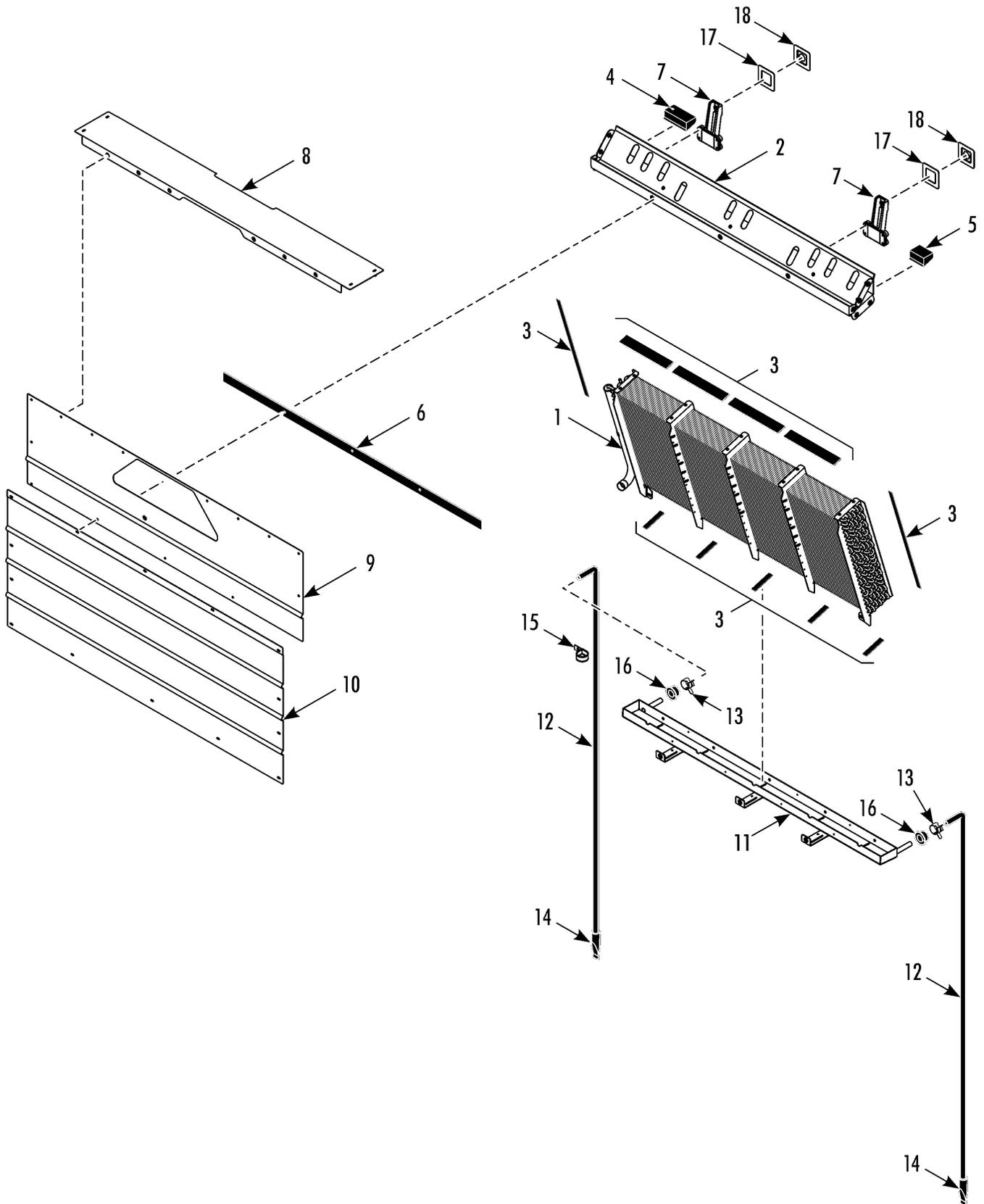


REF	PART NO.	DESCRIPTION	QTY
1	98-9117	GRILLE - roadside (black, inc hinges, item 2)	1
	93-853	GRILLE - roadside (chrome, inc hinges, item 2)	1
2	93-292	*HINGE - grille	2
	51-2758	*SCREW - hinge	4
3	93-1080	HINGE - frame (w/ M6 nuts)	4
4	93-294	PIN - hinge	4
5	98-9171	INSERT - grille mesh (roadside)	1
	51-2809	INSERT - threaded (M6)	13
	51-2758	SCREW - insert	13
6	98-9118	GRILLE - curbside (black, inc hinges, item 2)	1
	93-854	GRILLE - curbside (chrome, inc hinges, item 2)	1
7	98-9119	INSERT - grille mesh (curbside)	1
	51-2758	SCREW - insert	13
	51-2809	INSERT - threaded (M6)	13
8	33-5063	GASKET - door seal (25 ft, cut to length)	A/R
9	33-5129	INSULATION - muffler	1
10	42-859	LED (optional)	6
11	45-2505	HARNESS - LED (optional)	2
12	42-1436	HARNESS - LED extension (optional)	1
	41-3074	HOLDER - fuse	1
	41-4551	FUSE - 5 amp	1
	41-124	TERMINAL - splice	1





REF	PART NO.	DESCRIPTION	QTY
1	98-9122	PANEL - roadside (control panel, incl hinges item 2)	1
	51-2809	*INSERT - threaded (M6)	4
2	93-292	*HINGE - panel	2
3	93-1080	HINGE - frame	4
	51-2758	SCREW - hinge	16
4	93-294	PIN - hinge	4
5	93-309	LATCH - panel (roadside)	2
6	98-9123	PANEL - curbside (incl hinges item 7)	1
	51-2809	*INSERT - threaded (M6)	4
7	93-292	*HINGE - panel	2
8	93-311	LATCH - panel (curbside)	2
9	93-557	STRIKER - latch	4
10	93-310	DOOR - HMI (optional)	1
	55-7407	SCREW - door	6
	55-7033	FLATWASHER	12
	55-7034	NUT	6



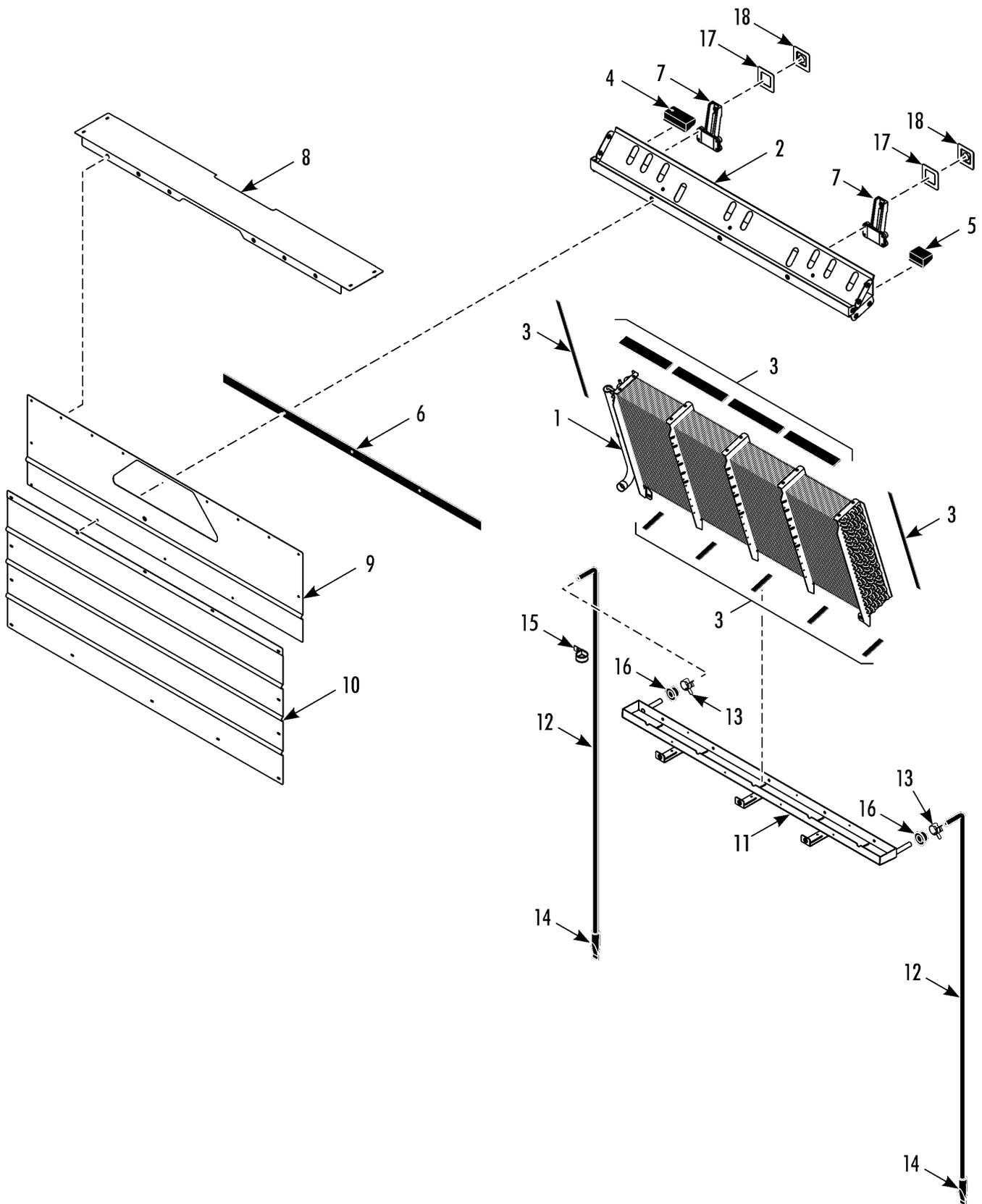
# EVAPORATOR AND PANELS



# 261B1

Revised  
01/09/14

REF	PART NO.	DESCRIPTION	QTY
1	67-2727	COIL - evaporator (S-600/C-600, see 261B2)	1
	67-2878	COIL - evaporator (S-700, see 261B2)	1
	55-9698	*INSERT - threaded (M6)	9
	51-2200	SCREW - evaporator	20
	51-953	WASHER	8
2	98-9011	CROSSBEAM - evaporator support (S-600/C-600)	1
	93-1199	CROSSBEAM - evaporator support (S-700)	1
	51-2265	*INSERT - threaded (ss, M6)	10
	55-9698	*INSERT - threaded (brass, M6)	3
	51-2200	SCREW - crossbeam	9
3	99-8562	STRIP - sealing	A/R
4	33-4976	SPACER - foam (roadside)	1
5	33-4977	SPACER - foam (curbside)	1
6	33-4954	STRIP - sealing	1
7	93-1202	SUPPORT - condenser fan motor	2
	55-6987	SCREW - support	8
	55-7342	LOCKWASHER	8
	51-953	WASHER - special	8
8	98-9014	PANEL - top	1
	55-9698	*INSERT - threaded (M6)	6
	51-2200	SCREW - panel	4
9	98-8958	PANEL - upper	1
10	98-8957	PANEL - lower	1
	51-2201	SCREW - panel (25 mm)	22
	51-2200	SCREW - panel (30 mm)	4
11	67-2793	PAN - defrost drain (inc drain pan, tubes & brackets)	1
12	92-1351	HOSE - defrost drain	2
13	13-1148	CLAMP - hose	2
14	66-1273	VALVE - check	2
	55-2330	BANDWRAP	2
	55-1705	CLAMP - valve	2
	55-5660	SCREW - clamp	2
15	55-4552	CLAMP - drain hose	1



# EVAPORATOR AND PANELS



# 261B1

Revised  
01/09/14

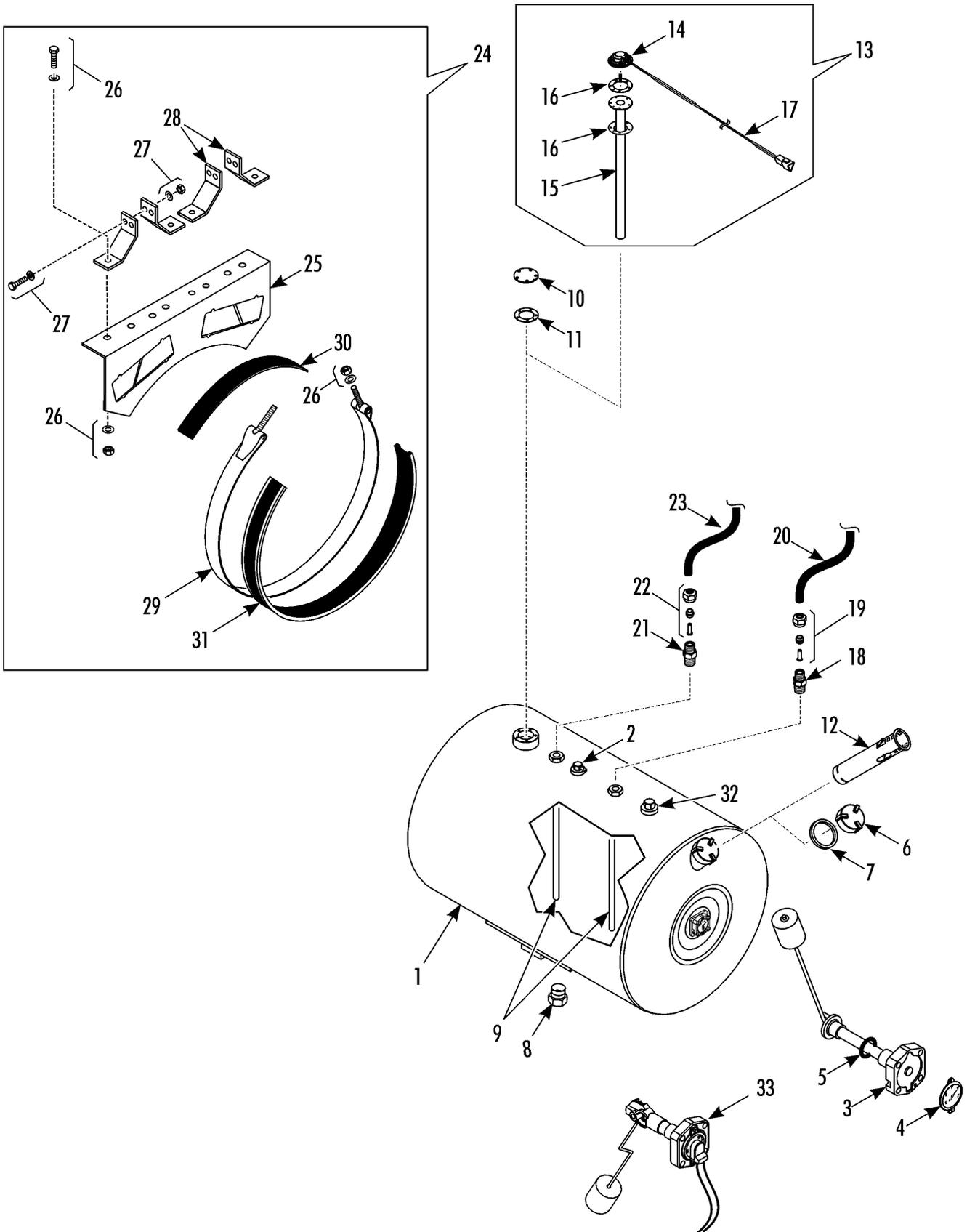
REF	PART NO.	DESCRIPTION	QTY
	51-2200	SCREW - clamp	1
16	51-2204	BUSHING - drain hose	2
17	33-5057	GASKET - support	2
18	92-9661	PLATE - gasket	2

261C9



FUEL TANK (22 IN DIAMETER, 50 GALLON ALUMINUM)

Revised 10/23/13



# FUEL TANK (22 IN DIAMETER, 50 GALLON ALUMINUM)



## 261C9

Revised  
10/23/13

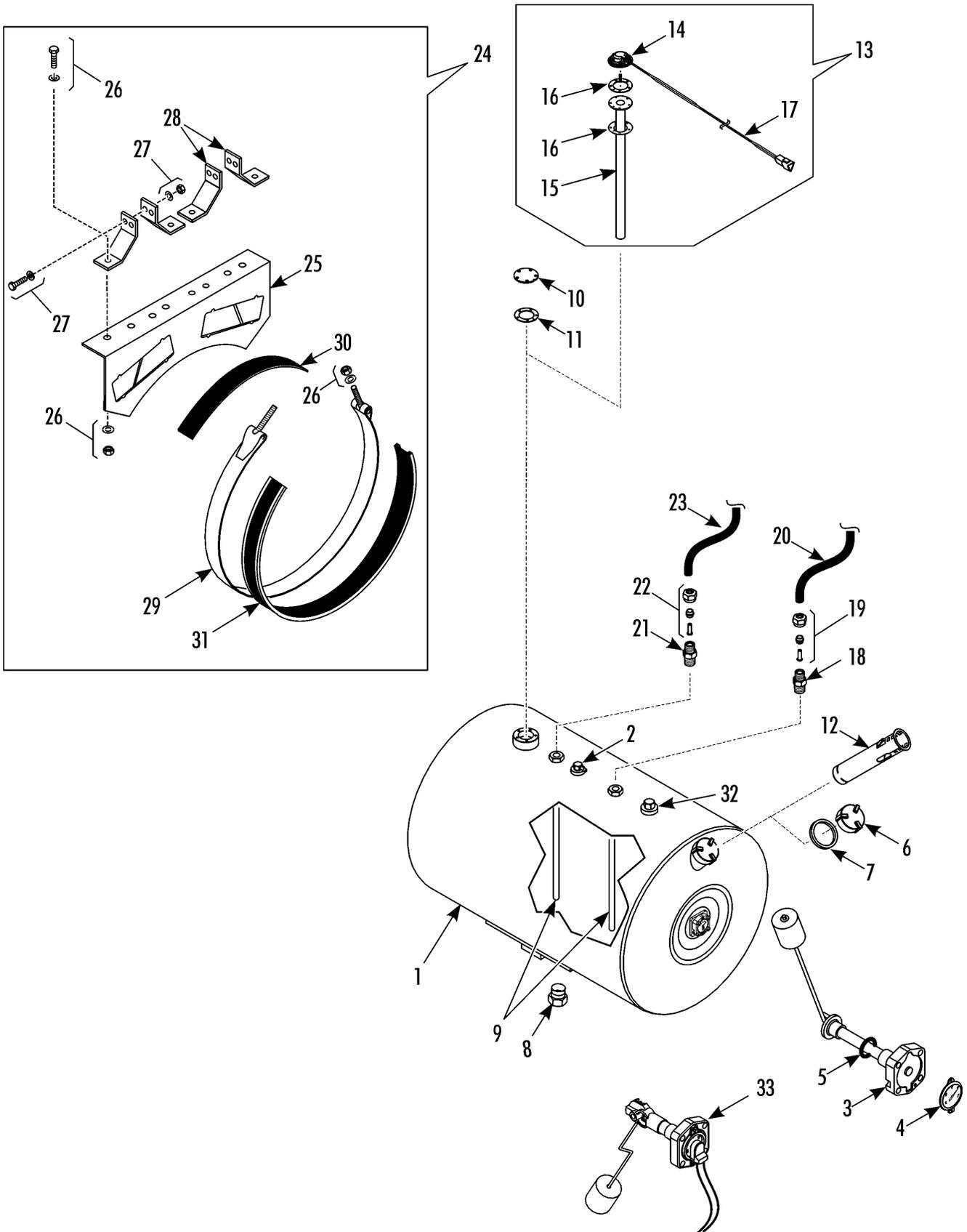
REF	PART NO.	DESCRIPTION	QTY
1	12-981	TANK - fuel (50 gallon, w/ ultra-sonic fuel level sensor - USFLS & anti-siphon)	1
	12-982	TANK - fuel (50 gallon, USFLS & heat chamber)	1
	12-983	TANK - fuel (50 gallon, USFLS)	1
	12-984	TANK - fuel (50 gallon, USFLS, polished)	1
	12-1011	TANK - fuel (50 gallon, USFLS ready, four ports, inc item 32)	1
2	55-5617	*VENT	1
3	11-2501	*GAUGE - fuel (mechanical)	1
4	11-5450	**DIAL - fuel gauge	1
5	33-4818	**O-RING - fuel gauge	1
6	11-7984	*CAP - fuel	1
7	33-381	**GASKET - cap	1
8	13-1289	*DRAIN	1
9	13-1288	*TUBE - pickup	2
10	11-9741	*COVER - fuel tank	1
11	33-3878	*GASKET - cover	1
	55-1230	*SCREW - USFLS (1-1/2 in lg)	5
	55-736	*SCREW - cover (1/2 in lg)	5
	55-1511	*FLATWASHER	5
	55-431	*LOCKWASHER	5
12	13-1290	ANTI-SIPHON	1
13	40-1128	KIT - ultrasonic fuel level sensor (22 inch tank)	1
14	41-9250	*SENSOR - fuel level (ultrasonic)	1
15	92-8161	*TUBE - sensor (ultrasonic)	1
16	33-4589	*GASKET - sensor tube	2
17	41-9722	*CABLE - fuel level sensor	1
18	13-1231	CONNECTOR - hose fitting (1/4)	1
19	10-243	KIT - sleeve & eyelet (1/4)	1
	11-4841	NUT (1/4)	1
20	11-4367	HOSE (1/4 od x 35 ft lg)	1
21	11-8982	FITTING - fuel line (3/8)	1
22	10-242	KIT - sleeve & eyelet (3/8)	1
	11-4941	NUT (3/8)	1
23	11-4372	HOSE (3/8 od x 35 ft lg)	1

261C9



FUEL TANK (22 IN DIAMETER, 50 GALLON ALUMINUM)

Revised 10/23/13



Revised  
10/23/13

# FUEL TANK (22 IN DIAMETER, 50 GALLON ALUMINUM)



## 261C9

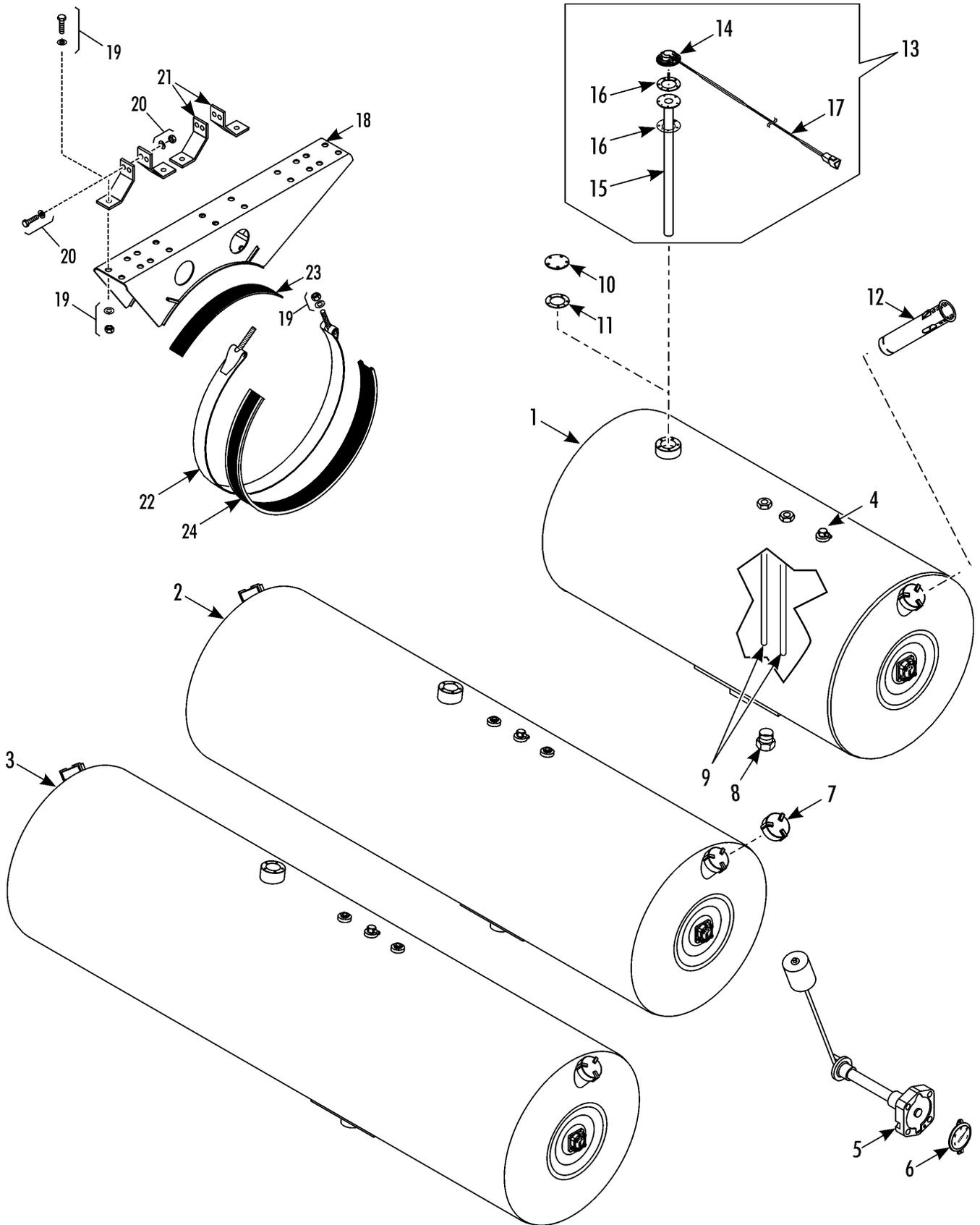
REF	PART NO.	DESCRIPTION	QTY
24	90-398	KIT - fuel tank	1
25	98-8096	*HANGER - fuel tank	2
26	55-1670	*SCREW (1/2-13 x 1-3/4)	8
	55-5270	*FLATWASHER (1/2)	20
	55-3686	*NUT (1/2-13)	12
27	55-1469	*SCREW (3/8-16 x 1-1/2)	12
	55-402	*FLATWASHER (3/8)	20
	55-5078	*NUT (3/8-16)	12
28	98-8095	*BRACKET - hanger	8
29	98-2687	*STRAP & TEE - assembly	2
30	33-4479	*STRIP - chafing (4 in lg)	2
31	33-4478	*STRIP - chafing (67 in lg)	2
32	55-4761	PLUG - four port tank (optional)	1
33	13-1632	GAUGE - fuel (twin site, optional)	1

267F7



FUEL TANK (22 IN DIAMETER, 75, 110 & 120 GALLON ALUMINUM)

Revised  
04/10/13



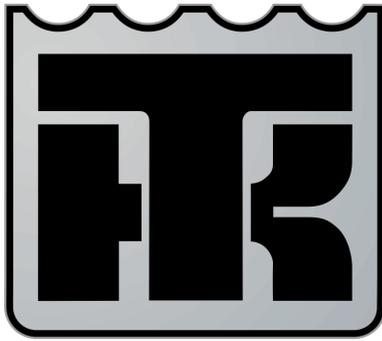
**FUEL TANK (22 IN DIAMETER, 75, 110 & 120  
GALLON ALUMINUM)**



**267F7**

Revised  
04/10/13

REF	PART NO.	DESCRIPTION	QTY
1	12-1004	TANK - fuel (75 gallon, w/ ultra-sonic fuel level sensor - USFLS)	1
2	12-1005	TANK - fuel (110 gallon, dual fuel caps and gauges w/ USFLS)	1
3	12-1006	TANK - fuel (120 gallon, dual fuel caps and gauges w/ USFLS)	1
4	55-5617	*VENT	1
5	11-2501	*GAUGE - fuel (mechanical)	1
6	11-5450	**DIAL - fuel gauge	1
	33-4818	**O-RING - fuel gauge	1
7	11-7984	*CAP - fuel	1
	33-381	**GASKET - cap	1
8	13-1289	*DRAIN	1
9	13-1288	*TUBE - pickup	2
10	11-9741	COVER - fuel tank	1
11	33-3878	GASKET - cover	1
	55-1260	SCREW - cover	5
	55-1511	FLATWASHER	5
	55-431	LOCKWASHER	5
12	11-9631	ANTI-SIPHON (optional)	1
13	40-1128	KIT - ultrasonic fuel level sensor (22 inch tank)	1
14	41-9250	*SENSOR - fuel level (ultrasonic)	1
15	92-8161	*TUBE - sensor (ultrasonic)	1
16	33-4589	*GASKET - sensor tube	2
17	41-9722	*CABLE - fuel level sensor	1
18	98-2685	HANGER - fuel tank	2
19	55-1670	SCREW (1/2-13 x 1-3/4)	24
	55-5270	FLATWASHER (1/2)	48
	55-3686	NUT (1/2-13)	24
20	55-1469	SCREW (3/8-16 x 1-1/2)	24
	55-5078	NUT (3/8-16)	24
21	99-7833	BRACKET - hanger	12
22	98-2687	STRAP & TEE - assembly	2
23	33-4877	STRIP - chafing (4 in lg)	2
24	33-4478	STRIP - chafing (67 in lg)	2



# THERMO KING

2



3

1

**R 404A**  
REFRIGERANT TYPE  
**203-513**  
POLYOL ESTER ISO 35

**CAUTION REFRIGERANT IS TOXIC**  
DESIGN ONLY IF A CERTAIN RISK TO THE HEALTH OF CALIBRATOR TO CAUSE CONCERN

**WARNING**  
Fan starts automatically. Can cause serious injury. Keep hands away from fan. Switch unit to "off" before servicing.

**WARNING**  
Unit starts automatically. Can cause serious injury. Keep hands away from fans and belts. Switch unit to "off" before servicing.

**NOTICE**  
Use safety accessories. Can cause serious injury. Keep hands away from fans and belts. Switch unit to "off" before servicing.

**EMERGENCY**  
THERMO KING  
**GOLD LINE**  
888/887-2202

**WARNING**  
FAN STARTS AUTOMATICALLY. CAN CAUSE SERIOUS INJURY. KEEP HANDS AWAY FROM FAN. SWITCH UNIT TO "OFF" BEFORE SERVICING.

**NOTICE**  
USE SAFETY ACCESSORIES. CAN CAUSE SERIOUS INJURY. KEEP HANDS AWAY FROM FANS AND BELTS. SWITCH UNIT TO "OFF" BEFORE SERVICING.

10

## S-600

4

**WARNING**  
Fan starts automatically. Can cause serious injury. Keep hands away from fan. Switch unit to "off" before servicing.

**WARNING**  
Fan starts automatically. Can cause serious injury. Keep hands away from fan. Switch unit to "off" before servicing.

**Chevron**  
FACTORY FILLED WITH CHEVRON DEX-COOL® Extended Life Antifreeze/Coolant

• Top Off with Chevron DEX-COOL® Extended Life Pre diluted 50/50 Antifreeze/Coolant or Havoline® Extended Life Pre diluted 50/50 Anti-Freeze/Coolant DEX-COOL®.

Acceptable substitutes for use in Thermo King Equipment:  
Texaco Extended Life Coolant/Antifreeze 227993, 227998 or Delo® Extended Life Coolant/Antifreeze, 227804, 227805.

This cooling system contains an extended life, ethylene glycol based, antifreeze and is protected to -34F (-37C). To check freeze protection use of a refractometer is recommended.

Date Tested: \_\_\_\_\_ Tested by: \_\_\_\_\_

92-9575

7

**WARNING**  
Unit starts automatically. Can cause serious injury. Keep hands away from belts. Switch unit to "off" before servicing.

**NOTICE**  
Excessive belt tension will result in premature bearing failure. 92-9544

**WARNING**  
230 VAC/60Hz. Can cause serious shock. Turn unit off and disconnect power cord before removing cover. 92-9545

**WARNING**  
230 VAC/60Hz. Can cause serious shock. Turn unit off and disconnect power cord before removing cover. 92-9545

**WARNING**  
SEPARATION OF GENERATOR AND EXHAUR DURING REPAIRS WILL CREATE A STRONG MAGNETIC FIELD THAT CAN INTERFERE WITH CARDIAC IMPLANTS SUCH AS PACEMAKERS AND DEFIBRILLATORS.

6

## S-700

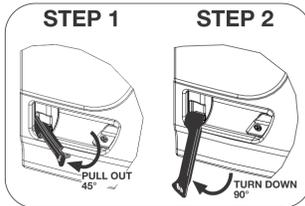
5

**REPEAT TESTED TESTS**  
THIS UNIT IS TESTED TO THERMO KING STANDARDS PER ANY TECHNOLOGY MANUAL TEST METHODS BY

**MICRO PROCESSOR**  
FAN ONLY

TEST SETUP	METHOD	TEST SETUP	METHOD
...	...	...	...

9



11

**DLR DIS**

CODE MO DAY YR

**THERMO KING**  
One or more of the following United States patents apply:

5186713	5400903	5279548	5486939	5694715	7032235	0454620
5177048	5408828	5388719	5506628	5686713	7032231	0449382
5252286	5410889	5433347	5508070	5708907	7142384	0505602
5252624	5410906	5778909	5642340	5708910	7171821	0505606
5272791	5421716	5511624	5606901	5711271	7269981	0586250
5282944	5427190	5652020	5606980	5737386	7269981	0586250
5312502	5429264	5652020	5606980	5826203	7469738	0629338
5338797	5444228	5381789	5622526	5895744	7462136	0629338
5370905	5452626	5472822	5637811	5922241	7478214	0629338
5417763	5462626	5476928	5637811	5922241	7478214	0629338

OTHER PATENTS PENDING 92-9548

**WARNING**  
Fire or Explosion may result if ether starting aids are used on this engine. 92-9500

**R 404A**

8

**WIRING DIAGRAM**

**LEGEND**

...	...
-----	-----

**CONNECTORS**

...	...
-----	-----

**TESTS**

...	...
-----	-----

9

**NAMEPLATES, S-600/S-700**



**261D6**

Revised  
12/20/13

<b>REF</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY</b>
1	93-1030	NAMEPLATE - TK Logo (standard, blue K)	1
	93-1031	NAMEPLATE - TK Logo (premium, black K)	1
2	93-314	NAMEPLATE - Thermo King (standard, black text)	1
	93-315	NAMEPLATE - Thermo King (premium, silver text)	1
3	93-800	NAMEPLATE - PRECEDENT	2
4	93-677	NAMEPLATE - S-600	1
5	93-1494	NAMEPLATE - S-700	1
6	93-434	NAMEPLATE - consolidated	1
7	93-436	NAMEPLATE - consolidated	1
8	93-1052	NAMEPLATE - consolidated	1
9	93-554	NAMEPLATE - consolidated (control box)	1
10	93-433	NAMEPLATE - consolidated	1
11	93-1183	NAMEPLATE - Door Handle (black graphics)	1
	93-1376	NAMEPLATE - Door Handle (white graphics)	1



Ingersoll Rand's Climate Solutions sector delivers energy-efficient HVACR solutions for customers globally. Its world class brands include Thermo King, the leader in transport temperature control and Trane, a provider of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced controls for commercial buildings and homes.

Distributed by:

## Thermo King Corporate

---

314 West 90th Street  
Minneapolis, MN 55420  
Direct (952) 887-2200