

Disassembly and Assembly _____	2
General Service Information _____	498
Schematic _____	555
Specifications _____	625
Systems Operation _____	851
Torque Specifications _____	1294
Troubleshooting _____	1350





REN9403-13 C15 On-highway Engines _____	2
SEN9757 BA-921 Bendix Air Compressor _____	355
UENR3262 Seal Installation _____	426

Air Compressor - Remove and Install _____	5
Alternator - Remove and Install _____	8
Alternator Mounting Group - Remove and Install _____	11
Atmospheric Pressure Sensor - Remove and Install _____	14
Bearing Clearance - Check _____	16
Belt Tensioner - Remove and Install _____	19
Boost Pressure Sensor - Remove and Install _____	21
Camshaft - Install _____	23
Camshaft - Remove _____	35
Camshaft Bearings - Install _____	45
Camshaft Bearings - Remove _____	49
Camshaft Gear - Remove and Install _____	51
Camshaft Position Sensor - Remove and Install _____	55
Connecting Rod Bearings - Install _____	58
Connecting Rod Bearings - Remove _____	61
Coolant Temperature Sensor - Remove and Install _____	63
Crankshaft - Install _____	66
Crankshaft - Remove _____	72
Crankshaft Front Seal - Install _____	76
Crankshaft Front Seal - Remove _____	79
Crankshaft Main Bearings - Install _____	81
Crankshaft Main Bearings - Remove _____	85
Crankshaft Position Sensor - Remove and Install _____	88
Crankshaft Rear Seal - Install _____	91
Crankshaft Rear Seal - Remove _____	93
Cylinder Head - Install _____	95
Cylinder Head - Remove (2) _____	101
Cylinder Head - Remove _____	106
Cylinder Liner - Install _____	113
Cylinder Liner - Remove _____	116

Diverter Valve (Coolant) - Assemble _____	118
Diverter Valve (Coolant) - Disassemble _____	120
Diverter Valve (Coolant) - Install _____	122
Diverter Valve (Coolant) - Remove _____	124
Electric Starting Motor - Remove and Install _____	126
Electronic Unit Injector - Install _____	130
Electronic Unit Injector - Remove _____	136
Electronic Unit Injector Sleeve - Install _____	139
Electronic Unit Injector Sleeve - Remove _____	142
Engine Control Module - Remove and Install _____	144
Engine Oil Cooler - Install _____	146
Engine Oil Cooler - Remove _____	149
Engine Oil Filter Base - Assemble _____	152
Engine Oil Filter Base - Disassemble _____	155
Engine Oil Filter Base - Install _____	157
Engine Oil Filter Base - Remove _____	159
Engine Oil Pan - Remove and Install _____	161
Engine Oil Pressure Sensor - Remove and Install _____	164
Engine Oil Pump - Assemble _____	167
Engine Oil Pump - Disassemble _____	171
Engine Oil Pump - Install _____	175
Engine Oil Pump - Remove _____	177
Engine Support (Front) - Remove and Install _____	179
Exhaust Manifold - Remove and Install _____	181
Flywheel - Install _____	185
Flywheel - Remove _____	188
Flywheel Housing - Remove and Install _____	191
Front Cover - Install _____	197
Front Cover - Remove _____	200
Fuel Filter Base - Assemble _____	203

Fuel Filter Base - Disassemble _____	205
Fuel Filter Base - Install _____	207
Fuel Filter Base - Remove _____	209
Fuel Priming Pump - Remove and Install _____	211
Fuel Temperature Sensor - Remove and Install _____	214
Fuel Transfer Pump - Install _____	217
Fuel Transfer Pump - Remove _____	219
Gear Group (Front) - Install _____	221
Gear Group (Front) - Remove _____	229
Housing (Front) - Install _____	237
Housing (Front) - Remove _____	241
Inlet Air Temperature Sensor - Remove and Install _____	245
Inlet and Exhaust Valve Guides - Remove and Install _____	247
Inlet and Exhaust Valve Seat Inserts - Remove and Install _____	250
Inlet and Exhaust Valve Springs - Remove and Install _____	253
Inlet and Exhaust Valves - Remove and Install _____	258
Piston Cooling Jets - Remove and Install _____	263
Pistons and Connecting Rods - Assemble _____	266
Pistons and Connecting Rods - Disassemble _____	271
Pistons and Connecting Rods - Install _____	273
Pistons and Connecting Rods - Remove _____	277
Precooler - Install _____	280
Precooler - Remove _____	283
Pump Drive - Assemble _____	286
Pump Drive - Disassemble _____	288
Pump Drive - Install _____	290
Pump Drive - Remove _____	292
Rocker Arm - Assemble _____	294
Rocker Arm - Disassemble _____	296
Rocker Arm and Shaft - Install _____	298

Rocker Arm and Shaft - Remove _____	301
Turbocharger - Install - High Pressure _____	303
Turbocharger - Install - Low Pressure _____	308
Turbocharger - Remove - High Pressure _____	311
Turbocharger - Remove - Low Pressure _____	315
Valve Actuator (Variable) - Install _____	318
Valve Actuator (Variable) - Remove _____	322
Valve Mechanism Cover - Remove and Install _____	325
Valve Mechanism Cover Base - Remove and Install _____	327
Variable Valve Actuator Oil Pressure Sensor - Remove and Install _	332
Variable Valve Actuator Oil Pressure Solenoid - Remove and Install _____	335
Vibration Damper and Pulley - Remove and Install _____	338
Water Pump - Assemble _____	341
Water Pump - Disassemble _____	344
Water Pump - Install _____	346
Water Pump - Remove _____	348
Water Temperature Regulator Housing - Remove and Install _____	350

[Previous Screen](#)

Product: TRUCK ENGINE  
Model: C15 TRUCK ENGINE MXS  
Configuration: C15 On-Highway Truck MXS00001-UP

## Disassembly and Assembly

### C15 On-highway Engines

Media Number -REN R9403-13

Publication Date -01 / 11 / 2017

Date Updated -29 / 11 / 2017

i02703748

# Air Compressor - Remove and Install

SMCS - 1803-010

## Removal Procedure

---

### NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

---

### NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting, and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

---





**Do not disconnect the air lines until the air pressure in the system is at zero. If hose is disconnected under pressure it can cause personal injury.**

---

1. Loosen the purge valves, and release the air pressure in the air tank.
  2. Drain the coolant from the cooling system into a suitable container for storage or disposal. Refer to Operation and Maintenance Manual, "Cooling System Coolant - Change".
- 

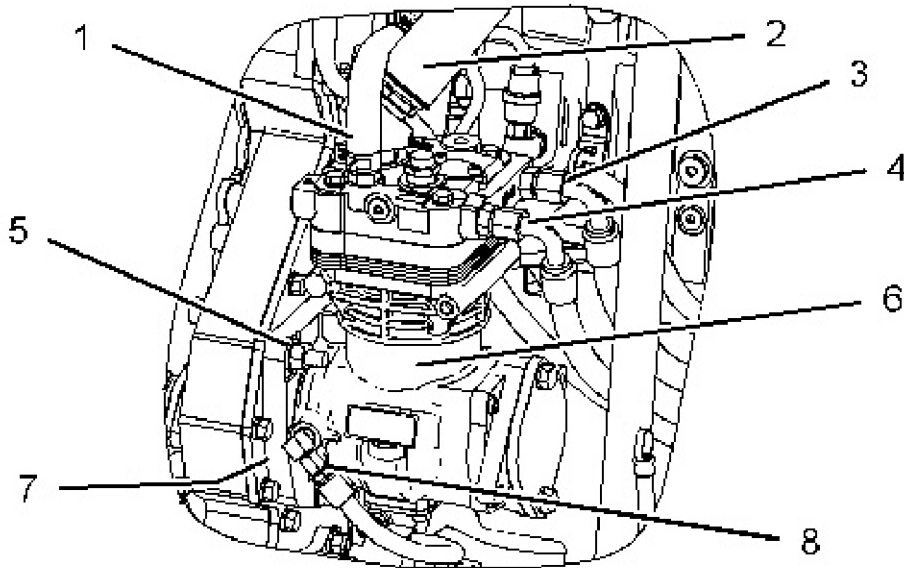


Illustration 1

g01078678

3. Disconnect hose (1) from air compressor (6).
4. Disconnect hose assembly (2) from air compressor (6). If necessary, remove the elbow from the air compressor.
5. Disconnect hose assembly (3) and hose assembly (4).
6. Disconnect hose assembly (8).
7. Remove nuts (5).
8. Remove air compressor (6). Remove O-ring seal (7) from the air compressor.

## **Installation Procedure**

---

### **NOTICE**

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

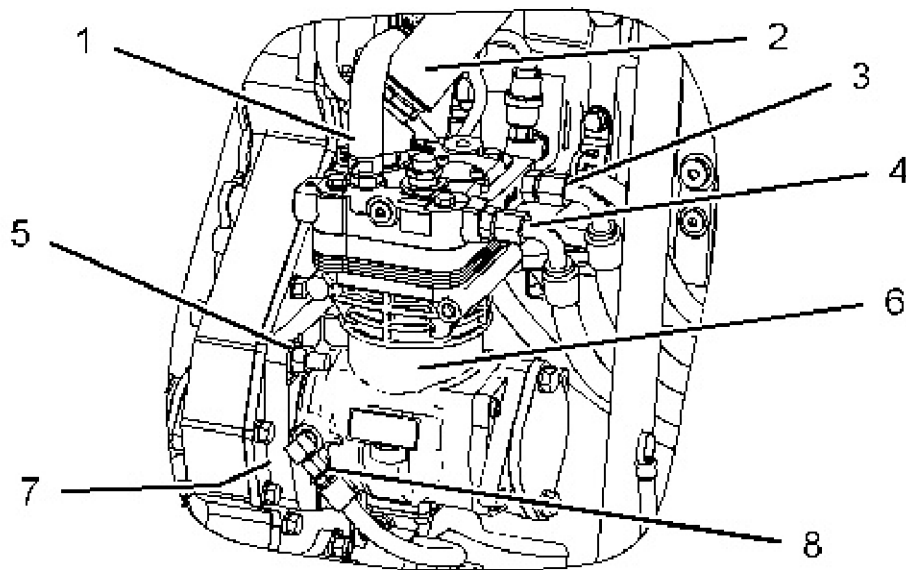


Illustration 2

g01078678

1. Install O-ring seal (7) on air compressor (6).
2. Position air compressor (6) and install nuts (5).
3. Connect hose assembly (3) and hose assembly (4).
4. Connect hose assembly (8).
5. Connect hose assembly (2) to air compressor (6). Tighten the elbow on hose assembly (2) to a torque of  $125 \pm 20$  N·m ( $92 \pm 15$  lb ft).
6. Connect hose (1) to air compressor (6).
7. Fill the cooling system. Refer to Operation and Maintenance Manual, "Cooling System Coolant - Change".



Thank you very much  
for your reading.  
Please click here  
to get more information.