



# SPARTAN MOTORS CHASSIS, INC.

CSB09-270-001

June, 2009

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## CAMPAIGN SERVICE BULLETIN

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- SUBJECT:** Cooling – Engine (CAC) Charge Air Cooler
- APPLIES TO:** Certain Spartan Firetruck Cab/Chassis equipped with a CAT C-13 Engine and having a VDM (Vehicle Date of Manufacture) of January 24, 2008 through May 27, 2009.
- CONDITION:** Hose bursting, loss of engine power
- CORRECTION:** Install redesigned hose and cast elbow

**PLEASE READ THE ENTIRE BULLETIN BEFORE PROCEEDING WITH ANY WORK. CONTACT SPARTAN CHASSIS IF THERE ARE ANY CONCERNS WITH THE PROCEDURES CONTAINED IN THIS DOCUMENT.**

### **PART / SERVICE INFORMATION:**

**Labor Time: 1.0 Hrs.**

<b><u>QTY.</u></b>	<b><u>Part Number</u></b>	<b><u>Description</u></b>
1	S-2082-001A	Kit- C-13 Plumbing Engine to Aftercooler
As required	81801 or equivalent	Pipe Sealant w/Teflon

**Kit # S-2082-001A Contains:**

<b><u>QTY.</u></b>	<b><u>Part Number</u></b>	<b><u>Description</u></b>
1	2278-AA3-001	Hose-Hump, Eng. to Air Aftercooler
2	1905-AA3-406	Clamp-CAC Hose
1	3068015	Elbow-Cast Intake CAC
1	3066211	O-Ring
2	0716-MM5-K01	Fit-Plug, Brass Sq. Head-2
1	CSB09-270-001	Document Instructions

### **STEP-BY-STEP INSTRUCTIONS:**

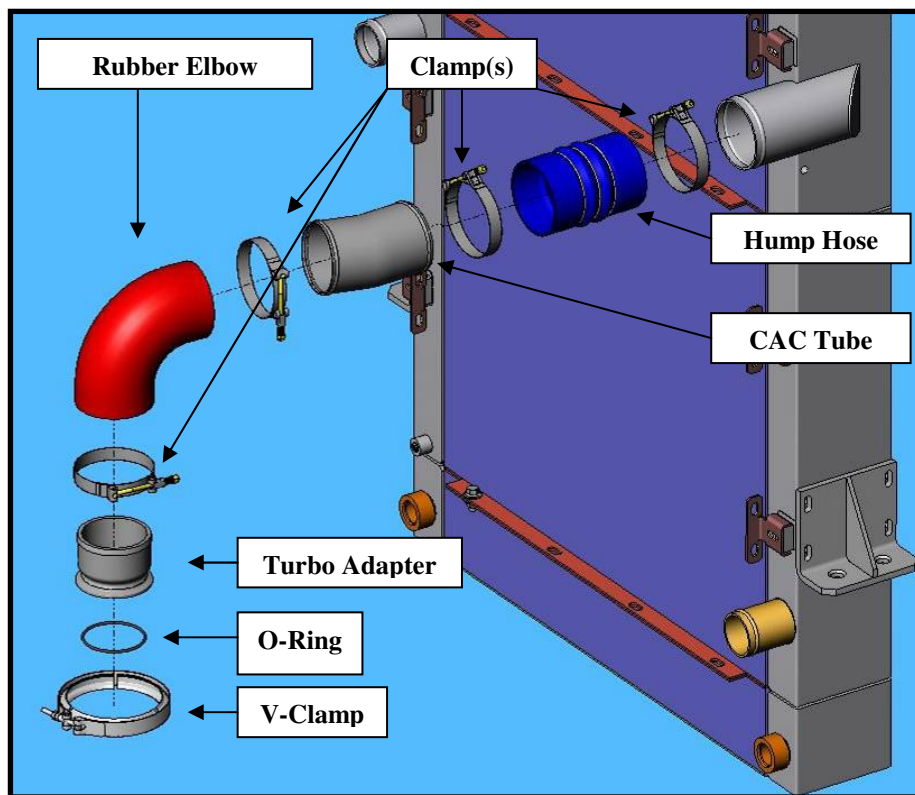
1. Observe all industry safety standards, disconnect any necessary power source and secure vehicle for replacing turbo side of charge air cooler.

Technical Service Bulletins are intended for use by Professional Technicians only. They are written to guide Professional Technicians in performing service to vehicles of product specific nature in conjunction with industry standards. Professional Technicians are appropriately trained on industry standards and have the tools and equipment to perform procedures safely and properly.



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2. Tilt cab ensuring safety latch is in place, follow instructions on placard.
3. Refer to FIG. 2-1. From passenger side loosen and remove V-clamp (retain for reuse) from turbo, adapter & O-ring / clamp, rubber elbow / clamp, CAC tube / clamp, hump hose and clamp. Properly dispose of all components except for V-clamp.



**Original Charge Air Cooler (CAC) Installation**

**FIG. 2-1**

4. Refer to FIG. 3-1. Install new cast elbow, with new O-ring, using the V-clamp retained from previous steps. Do not tighten at this time.

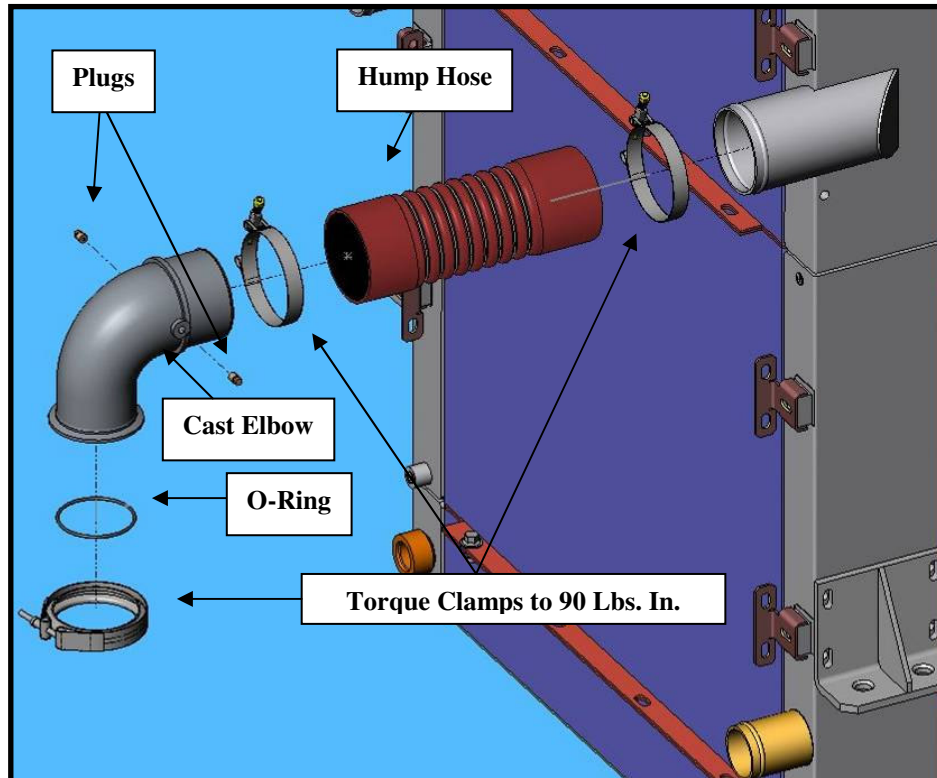
**NOTE: Apply 81801 pipe sealer w/Teflon or equivalent to pipe threads only.**

5. Refer to FIG. 3-1. Install brass plugs into cast elbow and secure.

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### New Charge Air Cooler (CAC) Installation

#### FIG. 3-1

6. Ensure CAC connection at radiator is clean and dry before installing hump hose.
7. Refer to FIG. 3-1. Install new clamps and new hump hose. Torque clamps to 90 Lbs. In.
8. Refer to FIG. 3-1. Torque V-clamp to 90 Lbs. In.
8. Reconnect any power source previously disconnected.
9. Lower cab following instructions on placard.

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