

NEWMAR CORPORATION WARRANTY DEPARTMENT

TECHNICAL SERVICE BULLETIN

| DATE ISSUED | MODEL YEAR(S) AFFECTED | MODEL(S) AFFECTED | TSB # |
|--|---|---|---|
| 02/21/2013 | 2013-2014 | Essex, King Aire | 402 |
| BRAND | | | TYPE |
| All <input type="checkbox"/> | American Star <input type="checkbox"/> | Mountain Aire <input type="checkbox"/> | All <input type="checkbox"/> T T <input type="checkbox"/> |
| Cypress <input type="checkbox"/> | Dutch Star <input type="checkbox"/> | Kountry Aire <input type="checkbox"/> | F W <input type="checkbox"/> C A <input type="checkbox"/> |
| Northern Star <input type="checkbox"/> | Kountry Star <input type="checkbox"/> | Essex <input checked="" type="checkbox"/> | D P <input checked="" type="checkbox"/> D B <input checked="" type="checkbox"/> |
| Scottsdale <input type="checkbox"/> | King Aire <input checked="" type="checkbox"/> | London Aire <input type="checkbox"/> | |
| All Star ME <input type="checkbox"/> | Ventana <input type="checkbox"/> | Bay Star <input type="checkbox"/> | |

- | | |
|--|---|
| <input type="checkbox"/> Air Conditioning & Heating | <input type="checkbox"/> Electrical Components |
| <input type="checkbox"/> Appliances & Accessories | <input type="checkbox"/> Exterior Components |
| <input type="checkbox"/> Cabinets & Furniture | <input type="checkbox"/> Interior Components |
| <input checked="" type="checkbox"/> Chassis Components | <input type="checkbox"/> Plumbing & Bath Components |
| <input type="checkbox"/> Construction Components | <input type="checkbox"/> Windows, Awnings, Vents, & Doors |

DESCRIPTION OF PROBLEM

AMENDMENT TO ORIGINAL TSB 402, INITIATED FEBRUARY 2013
Bulletin CSB13-290-001 has been updated for instruction clarification.

Spartan Motors Chassis, Inc. has determined a defect relating to coolant leaks that may exist at the T-fitting connections in the coolant circuit of the DEF system in certain motor homes chassis.

The potential affected chassis' assembled by Spartan Motors Chassis, Inc. have vehicle manufactured dates of August 28, 2012 through January 10, 2013.

RECOMMENDED SOLUTION

NEEDED CORRECTION:

The correction is to replace the two (2) plastic T-fitting connections in the coolant circuit for the DEF system with two (2) brass T-fitting assemblies.

NOTE:

Please contact the Spartan Customer and Product support department @ 800-393-8861 option#1 to obtain the work authorization number and warranty parts for this repair

Labor time: 1 hour

Flat rate code: TSB 402

- **Read this bulletin in its entirety prior to beginning any diagnosis or repairs.**



Spartan Motors Chassis, Inc.

SERVICE BULLETIN

CSB13-290-001A

3/11/2013

SUBJECT: Spartan Motors Chassis, Inc. has determined a defect relating to coolant leaks may exist in certain incomplete motorhomes and bus chassis.

Bulletin # CSB13-290-001 is superseded by bulletin CSB13-290-001A due to a clarification of an instruction. Any vehicle repaired under bulletin CSB13-290-001 will not require any additional work.

CONDITION: Coolant leaks may exist at the T-fitting connections in coolant circuit for DEF system.

APPLIES TO: This bulletin applies to incomplete vehicles assembled by Spartan Motors Chassis, Inc. as motorhomes and bus between vehicle dates of manufacturing of 8-28-2012 and 1-10-2013.

CORRECTION: Replace two (2) plastic T-fittings with brass T-fitting assemblies.

LABOR ALLOCATION: 1 hr.

PARTS NEEDED:

| <u>QTY</u> | <u>Part Number</u> | <u>Description</u> |
|------------|---------------------|-----------------------|
| 1 | S-2381-001 | Kit – DEF Tee/Clamp |
| As Needed | 81801 or equivalent | Pipe Sealant w/Teflon |

Kit # S-2381-001 Contains:

| <u>QTY</u> | <u>Part Number</u> | <u>Description</u> |
|------------|--------------------|----------------------|
| 2 | 0716-MM5-Q03 | Tee Brass – 6 |
| 4 | 0716-MM5-QQ04 | Fit Barb 10-6 |
| 2 | 0716-MM5-VV01 | Fit Barb 90DEG 6-6 |
| 4 | 0182-BB1-001 | Clamp Liner |
| 2 | 0395-BB1-001 | Clamp-Internal Liner |
| 1 | CSB13-290-001A | Document Instruction |

GENERAL INSTRUCTIONS:

Review entire work procedure before starting work. If there are questions and/or concerns with steps defined in this procedure, contact Spartan Motors Chassis, Inc. Customer & Product Support.

All applicable industry safety standards must be followed when performing work identified in this procedure.

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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STEP-BY-STEP INSTRUCTIONS:

1. Locate and inspect T-fittings on the passenger side of vehicle behind the DEF tank and under the frame rail. If the fitting material is brass no actions are required. If the fittings are made of plastic, proceed with the remaining steps of the bulletin. Refer to FIG. 2-1.

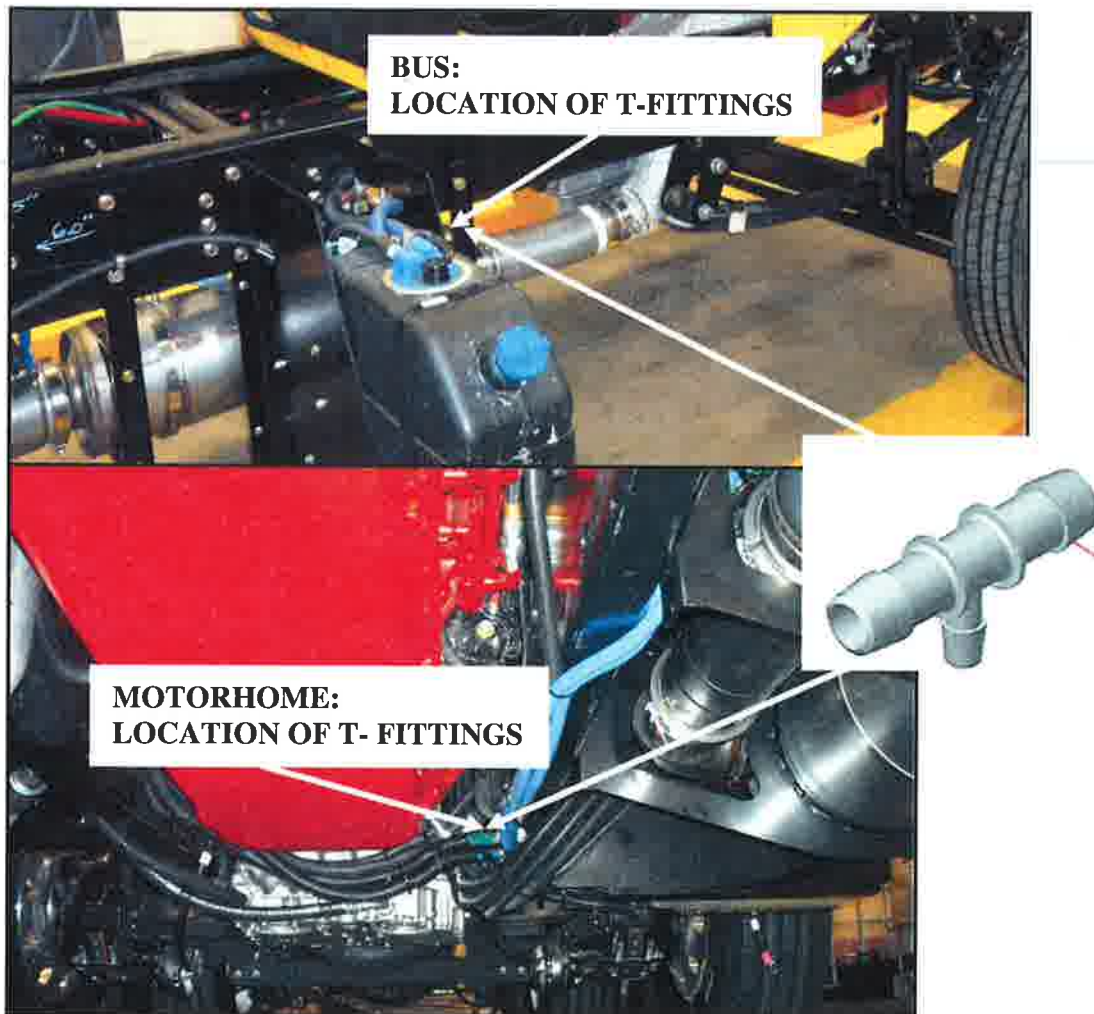


FIG. 2-1

2. Clamp off all three (3) hoses attached to one T-fitting to prevent leaking of coolant.



WARNING Coolant can be very hot if serviced shortly after operation. Serious personal injury can occur if hot components are touched.

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3. Loosen the (3) hose clamps, remove and properly dispose.
4. Remove plastic T-fitting and properly dispose.

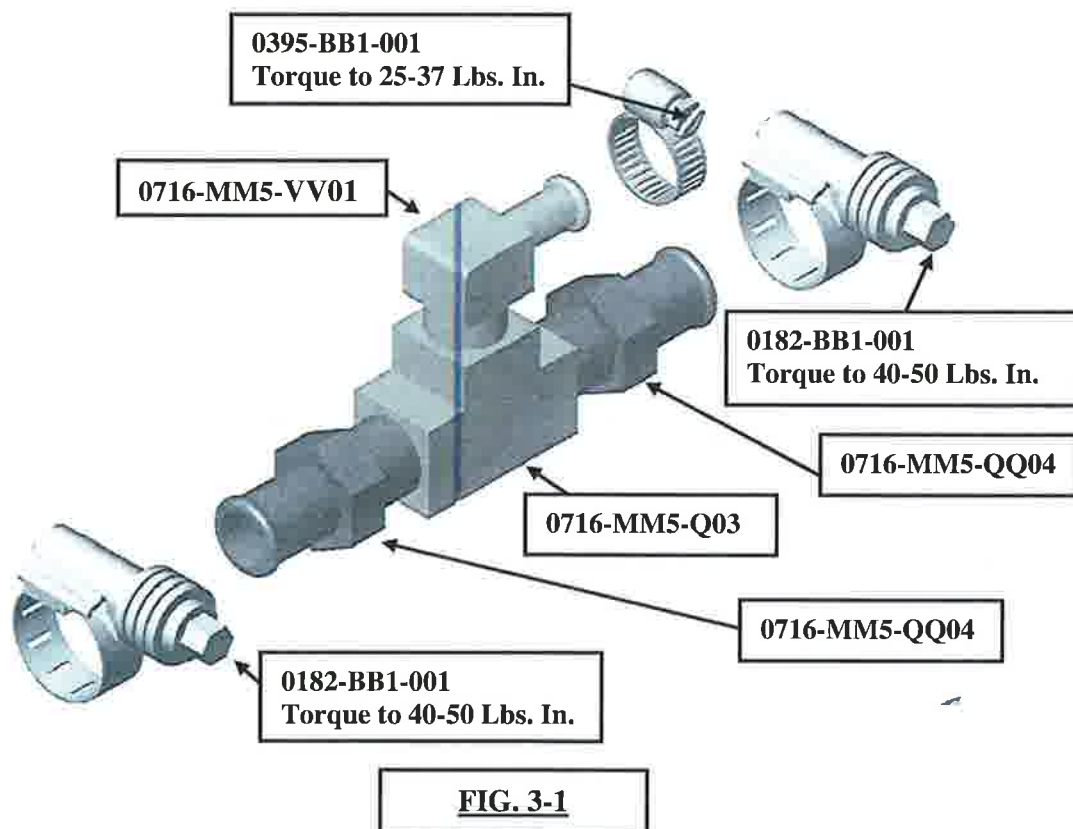
NOTE: Take note or mark hoses when removed to reinstall in correct orientation.

5. Inspect inside and outside of each hose for cuts and damage. Cut off minimum length of hose ensuring damaged hose is removed.

NOTE: Excess hose length should be available. DO NOT stretch hose.

6. Assemble the brass T-fitting assembly. Tighten fittings 2-3 turns from finger tight. Refer to FIG. 3-1.

NOTE: Apply 81801 pipe sealer w/Teflon or equivalent to pipe threads only. The first three threads should be uncovered to avoid system contamination.



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7. Place applicable sized clamp on each hose.
8. Reinstall hoses on brass T-fitting assembly in correct orientation.
9. Tighten clamps and properly torque. Refer to FIG. 3-1.
10. Remove clamps (refer to step 2) to restore coolant flow.
11. Repeat steps 2-10 for other T-fitting.
12. Properly secure both T-fittings to previous location.
13. Check coolant level and fill if necessary.

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