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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 ☐	American Star ☐	Mountain Aire ☐	All ☐ T T ☐		
Cypress ☐	Dutch Star ☐	Kountry Aire ☐	F W ☐ C A ☐		
Northern Star ☐	Kountry Star ☐	Essex ☒	D P ☒ D B ☒		
Scottsdale ☐	King Aire ☒	London Aire ☐			
All Star ME ☐	Ventana ☐	Bay Star ☐			
☐ Air Conditioning & Heating ☐ Appliances & Accessories ☐ Cabinets & Furniture ☒ Chassis Components ☐ Construction Components					
☐ Electrical Components ☐ Exterior Components ☐ Interior Components ☐ Plumbing & Bath Components ☐ Windows, Awnings, Vents, & Doors					
DESCRIPTION OF PROBLEM					
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.					

If you have any questions regarding this T.S.B., please contact a Warranty Service Representative at Newmar Corporation.



1541 Reynolds Road Charlotte, MI 48813

SPARTANCHASSIS.COM
517.543.6400

February 21, 2013

RE: Notice of Campaign Service Bulletin: **CSB13-290-001**

Dear Service Manager,

Attached is a copy of Campaign Service Bulletin **CSB13-290-001** regarding coolant leaks at the T-fitting connections.

This Campaign applies to incomplete vehicles assembled by Spartan Motors Chassis, Inc. as motorhomes and buses between VDMs of 8-28-12 and 1-10-13.

The condition exists where coolant leaks may exist at the T-fitting connections in coolant circuit for DEF system.

The correction is to replace two (2) plastic T-fittings with brass T-fitting assemblies.

Labor time for this repair is 1 hour.

Please contact our Customer and Product Support department to obtain the Work Authorization number and warranty parts for this repair at 800.393.8861 opt 1 or to speak with one of our technical associates.

Although **this is not a safety recall**, Spartan Chassis is committed to serving you with your best interests in mind.

Sincerely,

Spartan Chassis, Inc.



Spartan Motors Chassis, Inc.

SERVICE BULLETIN

CSB13-290-001

2/18/2013

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

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	CSB13-290-001	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.



Spartan Motors Chassis, Inc.

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CSB13-290-001

2/18/2013

STEP-BY-STEP INSTRUCTIONS:

1. Locate T-fittings on the passenger side behind the DEF tank under the rail. Refer to FIG. 2-1.

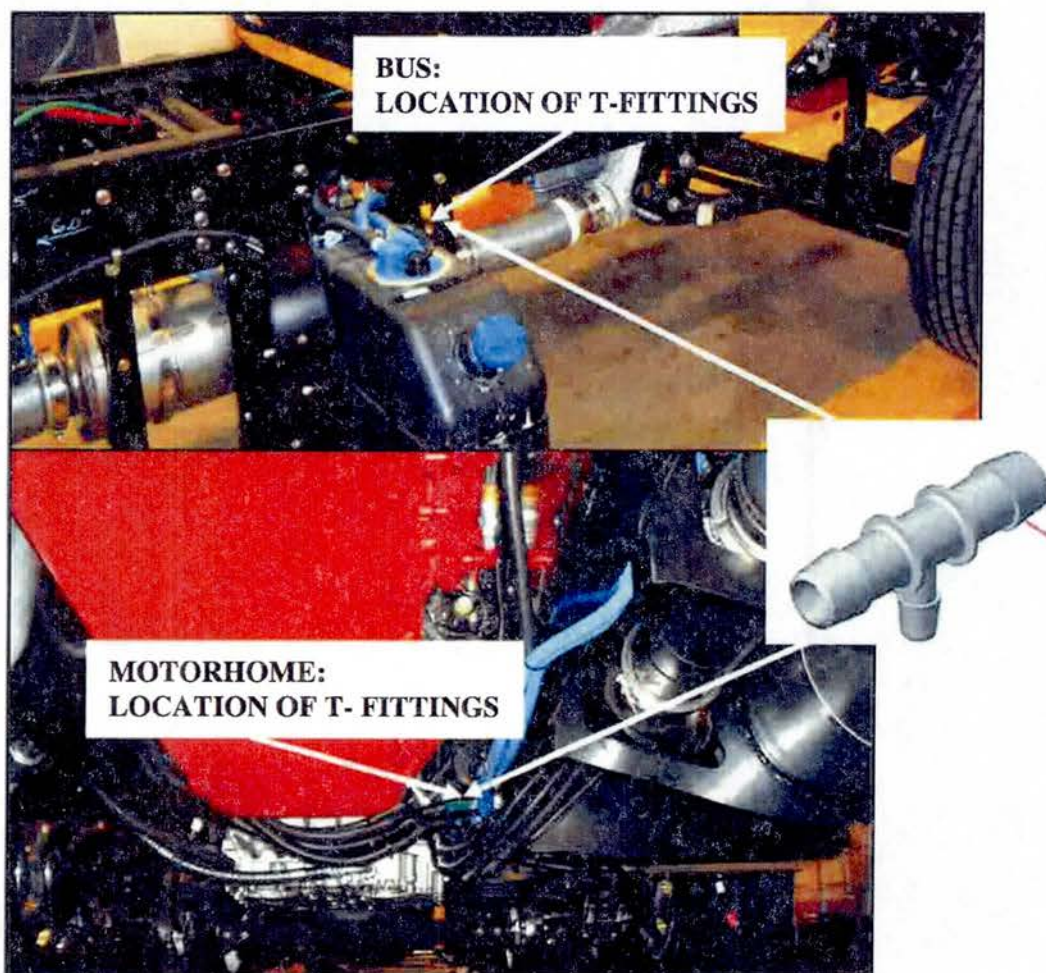


FIG. 2-1

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.

3. Loosen the (3) hose clamps, remove and properly dispose.

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4. Remove plastic T-fitting and properly dispose.

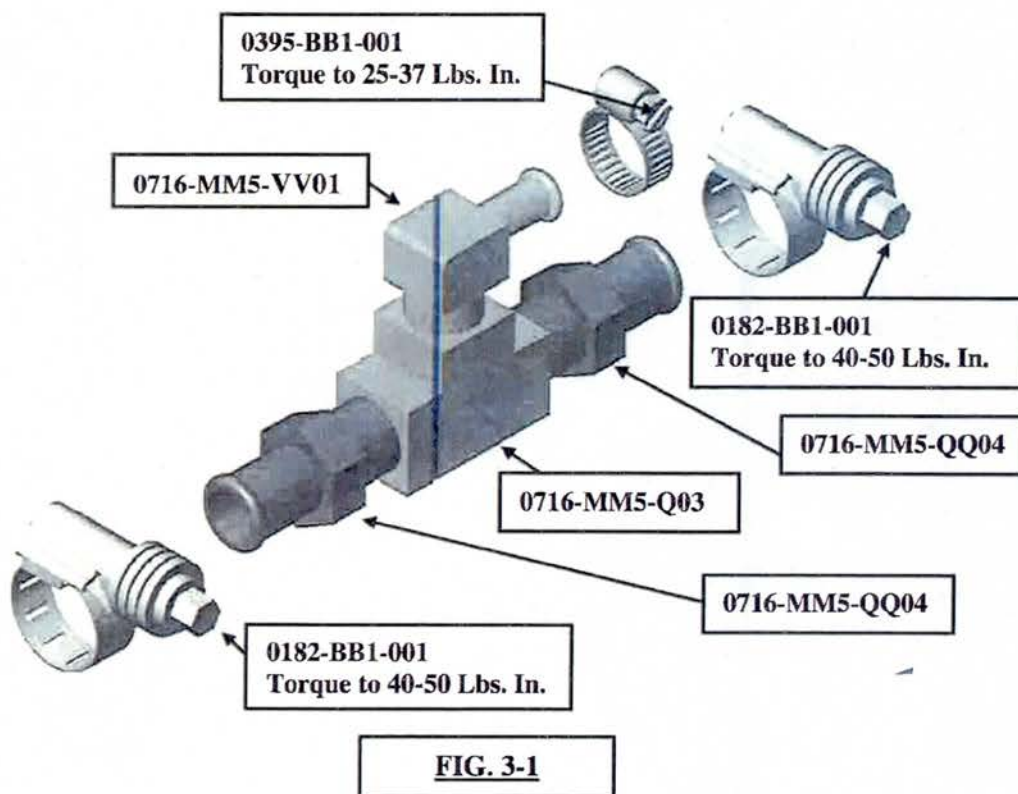
NOTE: Take note or mark hoses when removed to reinstall in correct orientation.

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.



7. Place applicable sized clamp on each hose.
8. Reinstall hoses on brass T-fitting assembly in correct orientation.

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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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PSR	VRNUM	SALES ORDER	FPN	unique component	QTY	BOYBLD	VDMDTE	MODEL	MODEING	SERENG	SCR_DP	COMMENTS
1042	4VZVU1E94E C076395	76395	K324360-020	0790-L1-001	2	NEWMAR CHASSIS ONLY	12/12/2012	K3	ISX	79625665	043Y56316120033	
1042	4VZVU1E98EC076396	76396	K224360-064	0790-L1-001	2	NEWMAR CHASSIS ONLY	12/12/2012	K2	ISX	75015728	043Y56317120068	
1042	4VZVU1E98DC076513	76513	K224360-062	0790-L1-001	0	NEWMAR CHASSIS ONLY	9/7/2012	K2	ISX	75013443	043Y56213120100	
1042	4VZVU1E97DC076520	76520	K224360-062	0790-L1-001	0	NEWMAR CHASSIS ONLY	9/14/2012	K2	ISX	75013445	043Y56215125294	
1042	4VZVU1E98DC076552	76552	K224360-062	0790-L1-001	0	NEWMAR CHASSIS ONLY	9/20/2012	K2	ISX	75013312	043Y56233125341	
1042	4VZVU1E98DC076553	76553	K224360-018	0790-L1-001	0	NEWMAR CHASSIS ONLY	9/19/2012	K3	ISX	79600462	043Y56222125303	
1042	4VZVU1E91DC076556	76556	K224360-062	0790-L1-001	0	NEWMAR CHASSIS ONLY	9/27/2012	K3	ISX	79600466	043Y56206120034	
1042	4VZVU1E98DC076560	76560	K224360-018	0790-L1-001	0	NEWMAR CHASSIS ONLY	10/3/2012	K2	ISX	75013853	043Y56206120031	
1042	4VZVU1E98DC076560	76560	K224360-018	0790-L1-001	0	NEWMAR CHASSIS ONLY	10/4/2012	K3	ISX	79600463	043Y56233125340	
1042	4VZVU1E98DC076568	76568	K224360-062	0790-L1-001	0	NEWMAR CHASSIS ONLY	10/12/2012	K3	ISX	79611144	043Y56208125133	
1042	4VZVU1E98DC076580	76580	K324360-018	0790-L1-001	0	NEWMAR CHASSIS ONLY	10/19/2012	K3	ISX	79618230	043Y56265125159	
1042	4VZVU1E91DC076612	76612	K324360-018	0790-L1-001	0	NEWMAR CHASSIS ONLY	10/23/2012	K3	ISX	79617492	043Y56245120008	
1042	4VZVU1E93DC076614	76614	K324360-018	0790-L1-001	0	NEWMAR CHASSIS ONLY	10/12/2012	K3	ISX	79611146	043Y56265125167	
1042	4VZVU1E93DC076631	76631	K324360-018	0790-L1-001	0	NEWMAR CHASSIS ONLY	10/19/2012	K3	ISX	79618230	043Y56265125167	
1042	4VZVU1E98DC076632	76632	K324360-018	0790-L1-001	0	NEWMAR CHASSIS ONLY	10/23/2012	K3	ISX	79617492	043Y56265125167	
1042	4VZVU1E91DC076661	76661	K324360-019	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/6/2012	K3	ISX	79618286	043Y56265125167	
1042	4VZVU1E97EC076681	76681	K224360-064	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/6/2012	K3	ISX	79618284	043Y56265125165	
1042	4VZVU1E94DC076685	76685	K324360-019	0790-L1-001	2	NEWMAR CHASSIS ONLY	12/19/2012	K2	ISX	75015727	043Y56316120036	
1042	4VZVU1E96DC076686	76686	K324360-019	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/6/2012	K3	ISX	79619145	043Y56283120136	
1042	4VZVU1E91DC076708	76708	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/6/2012	K3	ISX	79618280	043Y56263120137	
1042	4VZVU1E93DC076709	76709	K324360-019	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/8/2012	K3	ISX	79618282	043Y56289125164	
1042	4VZVU1E93DC076710	76710	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/8/2012	K3	ISX	79619146	043Y56289125167	
1042	4VZVU1E91DC076711	76711	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/9/2012	K3	ISX	79618285	043Y56289125166	
1042	4VZVU1E93DC076712	76712	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/14/2012	K3	ISX	79619143	043Y56363115182	
1042	4VZVU1E95DC076713	76713	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/14/2012	K3	ISX	79619148	043Y56363115181	
1042	4VZVU1E9DC076714	76714	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/27/2012	K3	ISX	79618279	043Y56289125169	
1042	4VZVU1E9DC076715	76715	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/27/2012	K3	ISX	79619472	043Y56289125173	
1042	4VZVU1E9DC076716	76716	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/30/2012	K3	ISX	79621430	043Y56311120010	
1042	4VZVU1E9DC076717	76717	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/30/2012	K3	ISX	79622727	043Y56311120008	
1042	4VZVU1E9DC076730	76730	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	11/30/2012	K3	ISX	79618288	043Y56311120013	
1042	4VZVU1E9DC076731	76731	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	12/18/2012	K3	ISX	79624404	043Y56311120012	
1042	4VZVU1E99DC076732	76732	K324360-018	0790-L1-001	2	NEWMAR CHASSIS ONLY	12/18/2012	K3	ISX	79624397	043Y56311120007	
1042	4VZVU1E92DC076781	76781	K224360-062	0790-L1-001	2	NEWMAR CHASSIS ONLY	12/19/2012	K2	ISX	75015630	043Y56311120005	