72185 County Road 3 Nappanee, IN 46550

Newmar Corporation Warranty Department

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Technical Service Bulletin						
Date Issued			Model(s) Affected		TSB#	
10/20/2006	Prior to 6/17/05		Spartan Chassis with CAT C9 Engines		292	
	Brand					Гуре
All	American Star Dutch Star		Mountain Aire Kountry Aire		All □ FW□	ТТ 🗆 СА 🗖
_	Kountry Star		Essex		D P ■	DB \square
Scottsdale	Northern Star		London Aire			
☐ Air Conditioning &	k Heating	I	☐ Electrical Comp	onents		
☐ Appliances & Acce	essories	I	☐ Exterior Compo	onents		
☐ Cabinets & Furniti	ıre	ı	☐ Interior Compo	nents		
■ Chassis Componer	nts	ļ	☐ Plumbing & Bat	th Compo	nents	
☐ Construction Com	ponents	I	☐ Windows, Awni	ngs, Vent	s, & Doo	rs
	Descr	ription of	Problem			
C9 ENGINE OIL DIP	STICK:					
Potential for Incorrect Engine Oil Level and for Engine Oil Leak The dipstick is not calibrated correctly and the dipstick tube may be exposed to excessively high temperatures in which the tube material could melt.						
			Solution			
	rccom	menaca	Joidholl			
Replace dipstick and if necessary, secure dipstick tube to eliminate possible contact with heat sources; replace dipstick tube when required. See Manufacturers attached repair directions. Contact manufacturers directly for additional information or instruction.						



June 28, 2005

CSB05-170-001

RE: Engine Oil Dipstick Tube and Dipstick Tube Campaign Service Bulletin

Dear Service Manager,

Attached is a copy of campaign service bulletin CSB05-170-001 which addresses the condition of an incorrect engine oil level and/or incorrect engine oil leak.

Please be aware that there are special circumstances surrounding this campaign. Every vehicle will require a dipstick replacement but not every vehicle will require a dipstick tube replacement. Therefore an inspection of the dipstick tube must be performed to determine if your coach requires a replacement tube.

.5 hr labor is being allowed for this campaign.

If you have any questions regarding this campaign call Spartan Motors Customer Service at 800-543-4277 (option 1).

If you have billing questions, call Wayne Ridge at 517-543-6400 ext.445

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CAMPAIGN SERVICE BULLETIN

SUBJECT: C9 Engine Oil Dipstick

APPLIES TO: All Spartan Chassis Models Equipped with a Caterpillar C9 Engine,

with a Vehicle Date of Manufacture (VDM) prior to 06-17-05.

CONDITION: Potential for Incorrect Engine Oil Level and for Engine Oil Leak

CAUSE: The dipstick is not calibrated correctly and the dipstick tube may be

exposed to excessively high temperatures in which the tube material

could melt.

CORRECTION: Replace dipstick and if necessary, secure dipstick tube to eliminate

possible contact with heat sources; replace dipstick tube when required.

PART / SERVICE INFORMATION:

Labor Time: 0.5 Hrs. Installation of Service Kit #S-1049-001 and #S-1049-002

QTY.	Part Number	Description
1	S-1049-001	Kit- C9 Dipstick Rework w/o Tube
1	S-1049-002	Kit- C9 Dipstick Rework with Tube
1	S-1049-003	Kit- C9 Dipstick

Kit #S-1049-001 Contains:

QTY.	Part Number	Description
1	S332SSG10	Loop Clamp – 5/8"
3	0636-GG5-J07	Loom - 5/8" diameter
1	1815-AA3-001	Dipstick
1	CSB05-170-001	Document Instructions

Kit #S-1049-002 Contains:

QTY.	Part Number	Description
1	S332SSG10	Loop Clamp – 5/8"
3	0636-GG5-J07	Loom - 5/8" diameter
1	1813-AA3-001	Tube & Dipstick Assembly
1	CSB05-170-001	Document Instructions

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CAMPAIGN SERVICE BULLETIN

Kit #S-1049-003 Contains:

QTY.	<u>Part Number</u>	Description		
1	1815-AA3-001	Dipstick		
1	CSB05-170-001	Document Instructions		

PLEASE READ THE ENTIRE BULLETIN BEFORE PROCEEDING WITH ANY WORK.

STEP-BY-STEP INSTRUCTIONS:

- 1. Observe all industry safety standards and secure vehicle to allow for the replacement of the engine oil dipstick.
- 2. If the VDM is after 04/21/05, replace existing dipstick with the one in service kit #S-1049-003. Check and adjust oil level as necessary. There is no labor time allowance for this procedure.

If the VDM is prior to 4/21/05, proceed to step #3.

INSPECTION

- 3. Locate the engine oil dipstick tube. The tube must be inspected the full length for any sign of melted material.
 - 3a. If there is damage to the tube, proceed to step #4 to install service kit #S-1049-002.
 - 3b. If tube does not require replacement, remove and properly dispose of the dipstick, then proceed to step #7 to install service kit #S-1049-001.

INSTALLATION – TUBE & DIPSTICK ASSEMBLY (KIT #S-1049-002)

- 4. Refer to FIG. 3-1. Disconnect tube from engine by loosening the worm clamp where the tube attaches to the stem on the engine. Properly dispose of tube and dipstick. Retain clamp.
- 5. Remove dipstick from the new dipstick tube and set aside.

Spartan Chassis, Inc.

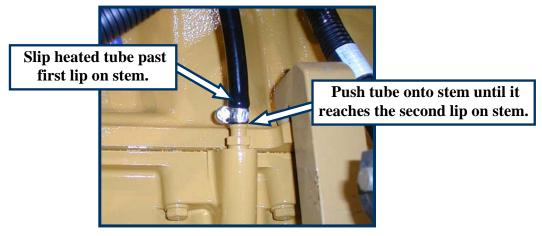
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CAMPAIGN SERVICE BULLETIN

6. With a torch, heat new tube (DO NOT OVERHEAT) and push it onto the dipstick tube stem from which the old tube was removed. Tighten clamp.

NOTE: The tube must be inserted onto the stem past the first lip and slid down to the second lip as shown.



DIPSTICK TUBE ATTACHMENT AT ENGINE FIG. 3-1

INSTALLATION – LOOM & CLAMP (KIT #S-1049-001)

7. Refer to FIG. 3-2. Install loom over dipstick tube, sliding it down to the clamp on the stem.



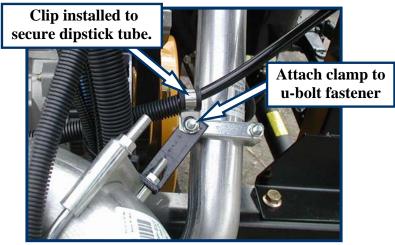
DIPSTICK TUBE WITH LOOM FIG. 3-2

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CAMPAIGN SERVICE BULLETIN

- 8. Refer to FIG. 4-1. Secure dipstick tube by installing the rubber covered loop clamp at the U-bolt attachment closest to the place where the loom ends on the dipstick tube. Torque to 10 FT. LBS.
- 9. Install dipstick and adjust oil level as necessary.



CLIP INSTALLATION FIG. 4-1