

NEWMAR CORPORATION

WARRANTY DEPARTMENT

TECHNICAL SERVICE BULLETIN																		
DATE ISSUED	MODEL YEAR(S) AFFECTED		MODEL(S) AFFECTED		TSB #													
8/4/08	2004 - 2008		MADP, EXDP		352													
BRAND					TYPE													
All	<input type="checkbox"/>	American Star	<input type="checkbox"/>	Mountain Aire	<input checked="" 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 type="checkbox"/>										
Scottsdale	<input type="checkbox"/>	King Aire	<input type="checkbox"/>	London Aire	<input type="checkbox"/>													
All Star ME	<input type="checkbox"/>	Ventana	<input type="checkbox"/>	Bay Star	<input type="checkbox"/>													
<table border="0"><tr><td><input type="checkbox"/> Air Conditioning & Heating</td><td><input type="checkbox"/> Electrical Components</td></tr><tr><td><input type="checkbox"/> Appliances & Accessories</td><td><input type="checkbox"/> Exterior Components</td></tr><tr><td><input type="checkbox"/> Cabinets & Furniture</td><td><input type="checkbox"/> Interior Components</td></tr><tr><td><input checked="" type="checkbox"/> Chassis Components</td><td><input type="checkbox"/> Plumbing & Bath Components</td></tr><tr><td><input type="checkbox"/> Construction Components</td><td><input type="checkbox"/> Windows, Awnings, Vents, & Doors</td></tr></table>									<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
<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																		
Engine oil dipstick is incorrectly calibrated.																		
RECOMMENDED SOLUTION																		
<p>Spartan Motors has issued TSB08-170-007 regarding inspection and replacement of the engine oil dipstick and tube on the K2 chassis with the Cummins ISM engine with a Vehicle Manufacture date between 4/29/04 and 5/16/08. Read the attached manufacturers information completely prior to beginning any diagnosis and repairs.</p> <p>Any questions regarding this TSB should be directed to Spartan Motors.</p>																		

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



SPARTAN CHASSIS, INC.

TSB05-170-003A

August, 2008

Page 1 of 5

TECHNICAL SERVICE BULLETIN

SUBJECT: Engine Oil Leak – Cummins C8.3, ISC, ISL, ISM

The ISM Engine portion of Bulletin(s) TSB05-170-003 & TSB05-170-003A is superseded by bulletin TSB08-170-007 due to the addition of a new Dipstick S-kit and assembly procedures. Any vehicle containing an ISM Engine repaired under bulletin TSB05-170-001 will require additional work.

APPLIES TO: Certain Spartan Chassis Models Equipped with a Cummins C8.3, ISC, ISL, or ISM Engine, with a VDM (Vehicle Date of Manufacture) between September 2002 and April 2005.

CONDITION: The plastic engine oil dipstick tube may melt as it could be located in a manner that it is subject to contact with a heat source in the engine compartment.

PART / SERVICE INFORMATION:

Labor Time: 0.5 Hrs.

Contact Spartan Chassis, Inc. Customer Assistance Center at 1-800-543-4277 to verify the appropriate kit is distributed for the application. Please have the SO (Sales Order) number available. The SO number is the last 5 digits of the VIN (Vehicle Identification Number).

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	S-1730-001	Kit- C8.3/ISC/ISL
1	S-1730-002	Kit- C8.3/ISC/ISL
1	S-1730-003	Kit- C8.3/ISC/ISL
1	S-1730-004	Kit- ISL03
1	S-1730-005	Kit- ISC03
1	S-1730-006	Kit- ISM02 Superseded by TSB08-170-007

**PLEASE READ THE ENTIRE BULLETIN BEFORE
PROCEEDING WITH ANY WORK.**

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 CHASSIS, INC.

TSB05-170-003A

August, 2008

Page 2 of 5

TECHNICAL SERVICE BULLETIN

Kit #S-1730-001 Contains:

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	0805-AA3-001	Dipstick Tube-C8.3/ISC/ISL, 39 15/16" in length
1	S332SSG12	Loop Clamp (Umpco)- 3/4"
1	TSB05-170-003	Document Instructions

Kit #S-1730-002 Contains:

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	0805-AA3-007	Dipstick Tube-C8.3/ISC/ISL, 39 5/8" in length
1	S332SSG12	Loop Clamp (Umpco)- 3/4"
1	TSB05-170-003	Document Instructions

Kit #S-1730-003 Contains:

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	0805-AA3-008	Dipstick Tube-C8.3/ISC/ISL, 42 1/2" in length
1	S332SSG12	Loop Clamp (Umpco)- 3/4"
1	TSB05-170-003	Document Instructions

Kit #S-1730-004 Contains:

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	1650-AA3-001	Dipstick Assembly- ISL03
1	S332SSG12	Loop Clamp (Umpco)- 3/4"
1	TSB05-170-003	Document Instructions

Kit #S-1730-005 Contains:

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	1654-AA3-001	Dipstick Assembly-ISC03
1	S332SSG12	Loop Clamp (Umpco)- 3/4"
1	TSB05-170-003	Document Instructions

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 CHASSIS, INC.

TSB05-170-003A

August, 2008

Page 3 of 5

TECHNICAL SERVICE BULLETIN

~~Kit #S-1730-006 Contains:~~ Superseded by TSB08-170-007

QTY.	Part Number	Description
1	1739-AA3-001	Dipstick Assembly-ISM02
1	60NTA-8	Sleeve
1	SRS-6091	Tube Supt
1	S332SSG12	Loop Clamp (Umpco)- 3/4"
1	TSB05-170-003	Document Instructions

STEP-BY-STEP INSTRUCTIONS:

1. Observe all industry safety standards and secure vehicle to allow for replacement of engine oil dipstick tube.
2. Locate the dipstick tube attachment at the engine block.
3. Reference notes below for specific engine application. Remove dipstick from cylinder block standoff and replace with new dipstick tube assembly.

Note: For ISC and ISL engines, remove dipstick and standoff from block and replace.

Note: For ISM engines, remove tube from existing fitting. Slide new ferrule over tube. Place tube over tube support and turn hex nut 12 flats tightening it securely around the tube.

4. To prevent contact with the turbo or any other heat source, secure dipstick tube with the loop clamp provided to an appropriate location as shown in FIG. 4-1, FIG. 4-2, or FIG. 5-1.

Note: Plastic tube must be a minimum of 2.0 inches from the turbo unit or any heat source (i.e. turbocharger, exhaust piping, hot water piping, etc.)

Note: Care must be taken with new tube installation and routing to not to kink the plastic tube, as this will cause resistance when inserting and/or removing the dipstick.

5. After final dipstick tube installation, check removal and insertion of dipstick into tube to ensure it is smooth and free from any resistance.

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.



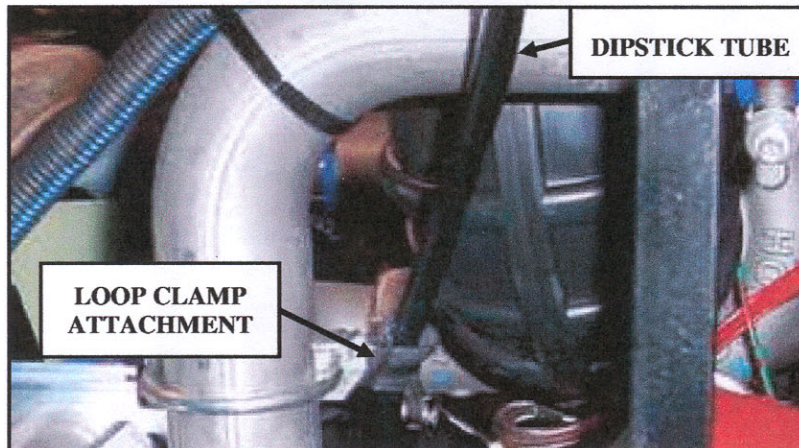
SPARTAN CHASSIS, INC.

TSB05-170-003A

August, 2008

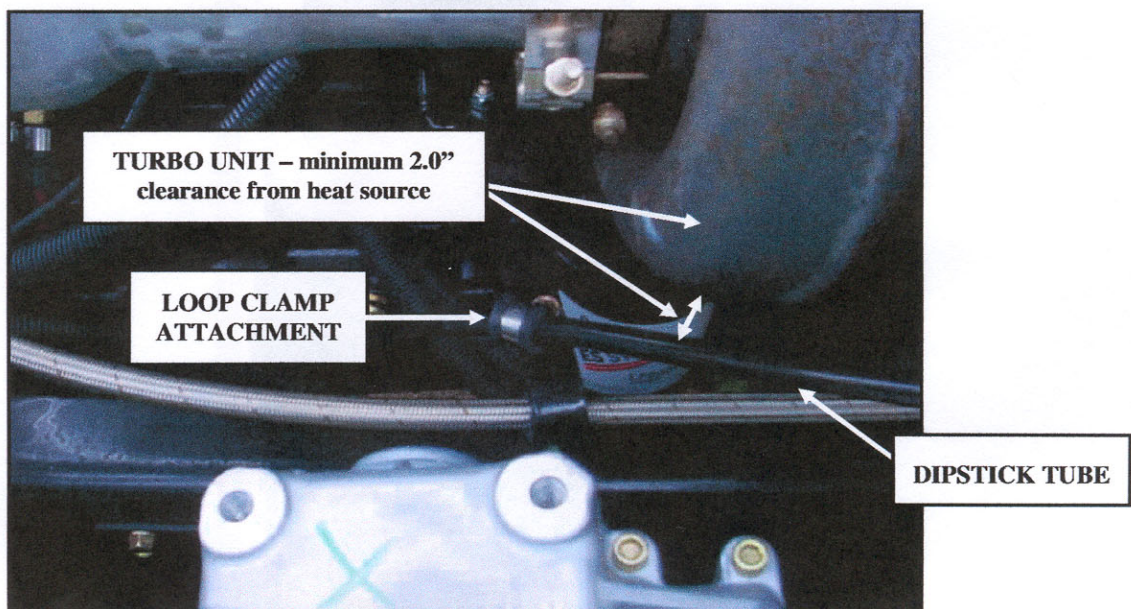
Page 4 of 5

TECHNICAL SERVICE BULLETIN



TYPICAL CLAMP ATTACHMENT TO WATER TUBE

FIG. 4-1



TYPICAL CLAMP ATTACHMENT TO BRACKET

FIG. 4-2

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.



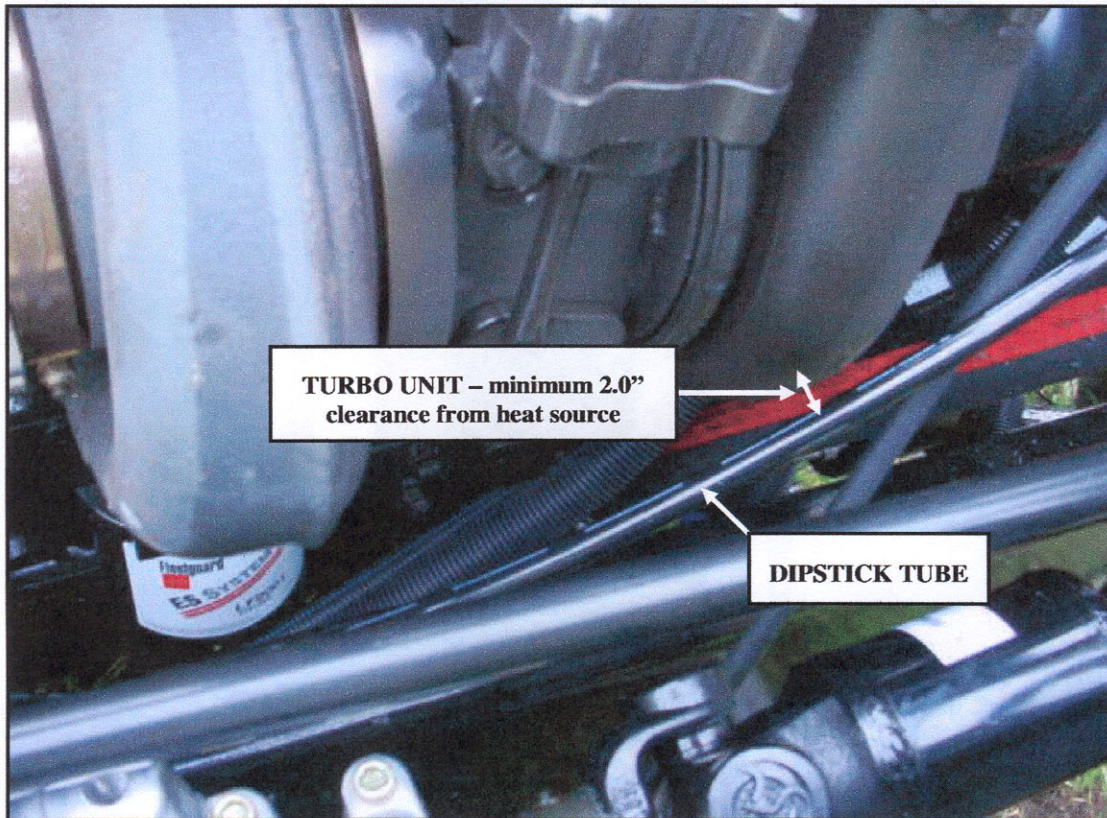
SPARTAN CHASSIS, INC.

TSB05-170-003A

August, 2008

Page 5 of 5

TECHNICAL SERVICE BULLETIN



TYPICAL ROUTING OF DIPSTICK TUBE

FIG. 5-1

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.