



# SERVICE BULLETIN No.1109

Circulate to listed addressees

<b>COACH MODEL</b>	: T&S 2100 Series
<b>BULLETIN TYPE</b>	: Product Improvement
<b>MANUAL &amp; SECTION</b>	: Maintenance Manual: Chapter 10 - HVAC System Spare Parts Manual: Section 738109 – Front bumper
<b>PARTS BOOK REVISION</b>	: No
<b>DATE</b>	: September 12th, 2002
<b>SUBJECT</b>	: <b>Front unit air filter</b>
<b>TERMS &amp; CONDITIONS</b>	: No claims will be accepted with reference to this Bulletin.

## APPLICATION:

The product change subject of this Bulletin has been cut into production as from following units:

Model	Engine	VIN
T2145	Cummins	44235 →
	Detroit Diesel	44561 →
S2145	N/A	42226 →

## DESCRIPTION:

The T2100 and S2100 Maintenance Schedule instructs coach owners to have the HVAC air filters checked and cleaned every 6,000 miles, or more frequently if necessary. The access to the driver's climate unit air filter on earlier coaches with rubber sprung front bumpers is hampered by the bumper pull rod. Checking and cleaning the filter requires removal of the bumper pull rod every time the filter is serviced. To remedy this issue, a modified pull rod and suitable mounting brackets have been introduced into production as from the above-mentioned units.

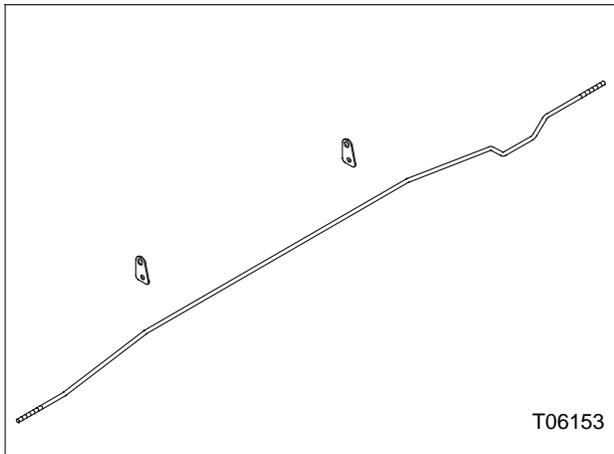
The procedure in this Bulletin shows how to replace the old pull rod by the new.

*Service personnel: please read, initial and circulate.*

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

**PARTS:**

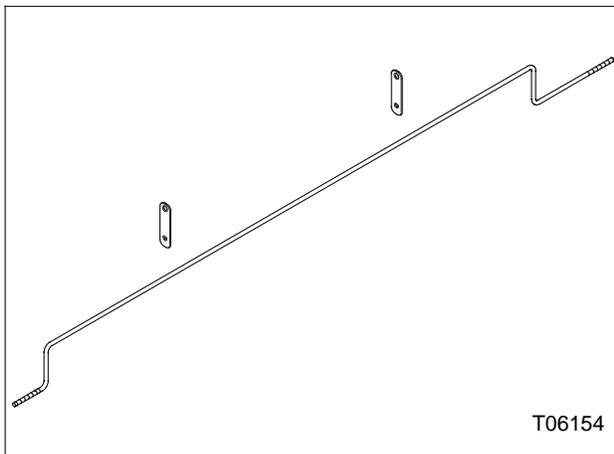
**Old parts (see Figure 1)**



**Figure 1: Old straight pull rod and trapezoidal mounting brackets. Rod length: 4ft 1-31/32 inch**

<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
VH 10703079	Pull rod, front bumper, straight	1
VH 10703117	Mounting bracket for VH 10703079, trapezoidal	2

**New parts (see Figure 2)**



**Figure 2: New stepped pull rod and oblong mounting brackets. Rod length: 4 ft**

<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
VH 10703079	Pull rod, front bumper, stepped	1
VH 10703117	Mounting bracket for VH 10703079, oblong	2

- Part numbers remain unchanged. To modify one coach, order one pull rod VH 10703079 and two brackets VH 10703117.
- Old and new parts are interchangeable, but only the new will be offered as service replacements.
- Parts may be purchased from your nearest ABC Companies Parts Source dealer.
- Always use genuine maintenance products and parts. Do not accept imitations.
- Parts disposition: discard according to applicable environmental regulations.

## **PROCEDURE:**

### **1. General:**

- The time required to replace and adjust the pull rod is approximately 0.5 hours.

### **2. Special tools, equipment or services:**

- No special tools, equipment or services are required.

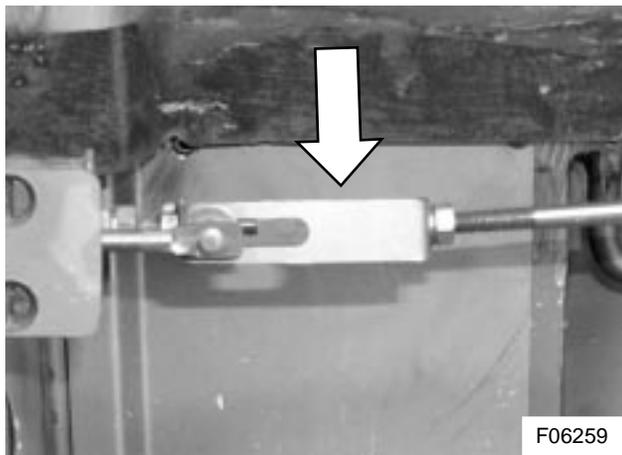
### **3. Preparations:**

- Park the coach on a level surface, apply the parking brake and shut down the engine.
- Switch off all systems and turn off the battery master switch.
- Put a “DO NOT OPERATE” tag on the instrument panel.
- Read the entire procedure before beginning to work.

**CAUTION: Observe safe shop practices at all times.**

### **4. To remove the old bumper pull rod and mounting brackets:**

- 1) Lower the front bumper.
- 2) At the driver's climate unit undo and remove the two M5 bolts securing the pull rod mounting brackets to the unit housing.
- 3) At the bumper latches undo and remove the nuts and washers securing the pull rod to the sliding brackets (see Figure 1).

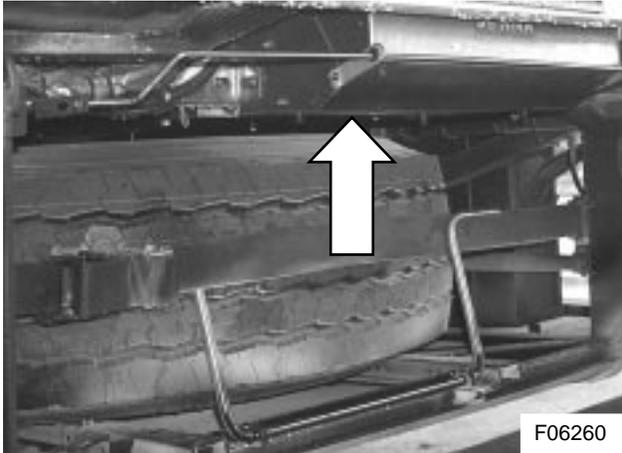


**Figure 1: Pull rod and sliding bracket**

- 4) Remove the pull rod and mounting brackets.
- 5) Recover the hardware.

**5. To install the new bumper pull rod and mounting brackets:**

- 1) Installation is the reverse to removal.
- 2) Recover the rubber grommets from the old brackets and install them in the new.
- 3) Make sure to install the mounting brackets in line with the filter cover (see Figure 2).



**Figure 2: Pull rod mounting brackets flush with filter cover**

- 4) Tighten the mounting bracket bolts to a torque of 5 ft.lbf (7 Nm).
- 5) Pull the quick release pins securing the filter access door. Check door operation (see Figure 3). Remove and clean the dry filter element as explained in Section 10.4 of the Maintenance Manual. Refit the filter and close the access door.



**Figure 3: HVAC front air filter access door**

- 6) Adjust the bumper linkage length for the latches to open simultaneously. Tighten rod nuts to a torque of 6 ft. lbf (8.5 Nm)
- 7) Close the bumper and check the bumper linkage operation.

*Procedure complete.*

**SERVICE INFORMATION:**

Service Bulletins are issued to supplement or supersede information in the Van Hool manuals. Note Service Bulletin number, date and subject on the register at the end of the relevant chapter(s). File Service Bulletin separately for future reference.

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