

# VEHICLE RECALL

G-05514-R1  
December 2005

**SUBJECT: SAFETY RECALL (U.S., EXPORT)  
BATTERY CABLES on 9000 models built 4/1/2002  
thru 6/15/2005**

## **REVISION DESCRIPTION**

### **SERVICE PROCEDURE**

- Added *Caterpillar® Engine Warning* to end of service procedure.

### **LABOR INFORMATION**

- Added new labor operation A40-05514-5.

## **DEFECT DESCRIPTION**

The positive battery cable between the batteries and the starter may rub against an electrical ground cable between the starter and frame rail possibly causing an electrical short and/or fire. This may result in **property damage, personal injury or death.**

## **MODELS INVOLVED**

This Safety Recall involves 9000 models built at the Chatham, Ontario manufacturing facility 4/1/2002 thru 6/15/2005 and 9000 models built at the Escobedo, Mexico manufacturing facility 4/1/2002 thru 5/25/2004.

## **PARTS INFORMATION**

The parts that may be required for this recall are:

<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>
<b>3554554C1</b>	GUIDE,BRK HOSE & CABLE*SWIVEL	1 per vehicle AS REQ'D PER INSPECTION
<b>306132C1</b>	STRAP,CABLE LOCK	2 per vehicle AS REQ'D PER INSPECTION
<b>AS PER LINESET TICKET</b>	BATTERY TO STARTER CABLE, POSITIVE	AS REQ'D PER INSPECTION

Part Number	Part Description	Quantity
AS PER LINESET TICKET	STARTER TO FRAME CABLE, GROUND	AS REQ'D PER INSPECTION
AS PER LINESET TICKET	CONDUIT	AS REQ'D PER INSPECTION

*Destroy and discard all removed parts locally.*

## **SERVICE PROCEDURE**



### **WARNING:**

*TO PREVENT SERIOUS EYE INJURY, ALWAYS WEAR SAFE EYE PROTECTION WHEN YOU PERFORM VEHICLE MAINTENANCE OR SERVICE.*



### **WARNING:**

*TO PREVENT UNEXPECTED MOVEMENT OF THE VEHICLE AND POSSIBLE SERIOUS PERSONAL INJURY OR DEATH, BLOCK THE WHEELS TO PREVENT THE VEHICLE FROM MOVING IN BOTH DIRECTIONS.*

## ***INSPECTION/REPLACEMENT PROCEDURE TABLE***

Please refer to Table 1 to determine which procedure to follow regarding battery cable gap measurement, battery cable inspection and saddle clamp installation.

<b><i>Engine Configuration</i></b>	<b><i>Procedures Required to be Performed</i></b>
Caterpillar, Cummins ISX, Cummins ISM, w/o Fuel Filter	Battery Cable GAP Measurement <i>(required)</i> Battery Cable Inspection <i>(if necessary)</i> Saddle Clamp Installation <i>(if necessary)</i>
Cummins ISM, w/Fuel Filter	Battery Cable Inspection <i>(required)</i> Saddle Clamp Installation <i>(required)</i>

**Table 1 – Engine Configuration based Service Procedure**

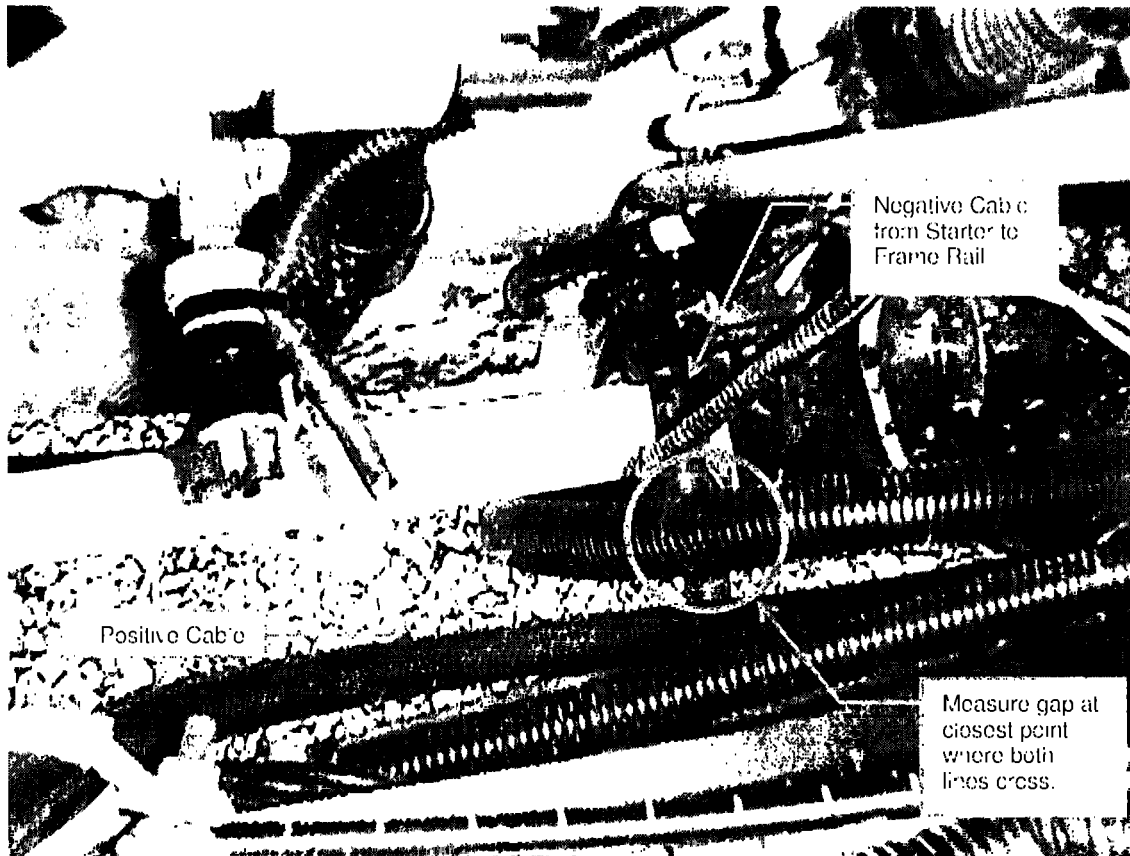
**NOTE: A Cummins ISM w/Gear Pump Mounted Fuel Filter will ALWAYS require the SADDLE CLAMP INSTALLATION.**

### **BATTERY CABLE GAP MEASUREMENT**

*You may wish to cut a wooden, bulk hose, or cardboard template to perform subsequent measurements. Template should be 1.5 inches (38mm) long.*

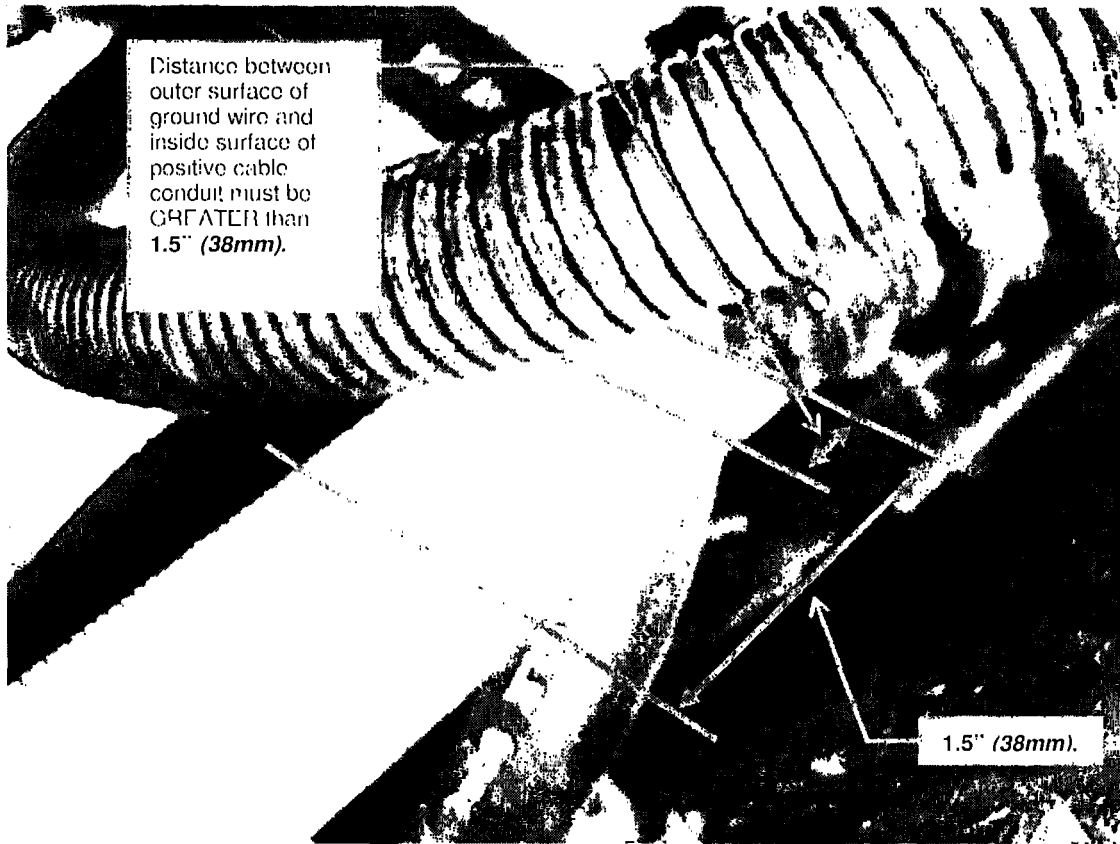
### **DO NOT USE A METALLIC MEASURING DEVICE**

1. For Cummins ISM w/ fuel filter, do not perform the gap measurement, skip to the **BATTERY CABLE INSPECTION PROCEDURE**.
2. For Caterpillar, Cummins ISX, and Cummins ISM w/o fuel filter, perform the following gap measurement.
3. Measure the smallest gap between the positive cable's conduit and the closest point to the negative cable bolted to the frame rail. See Figure 1.



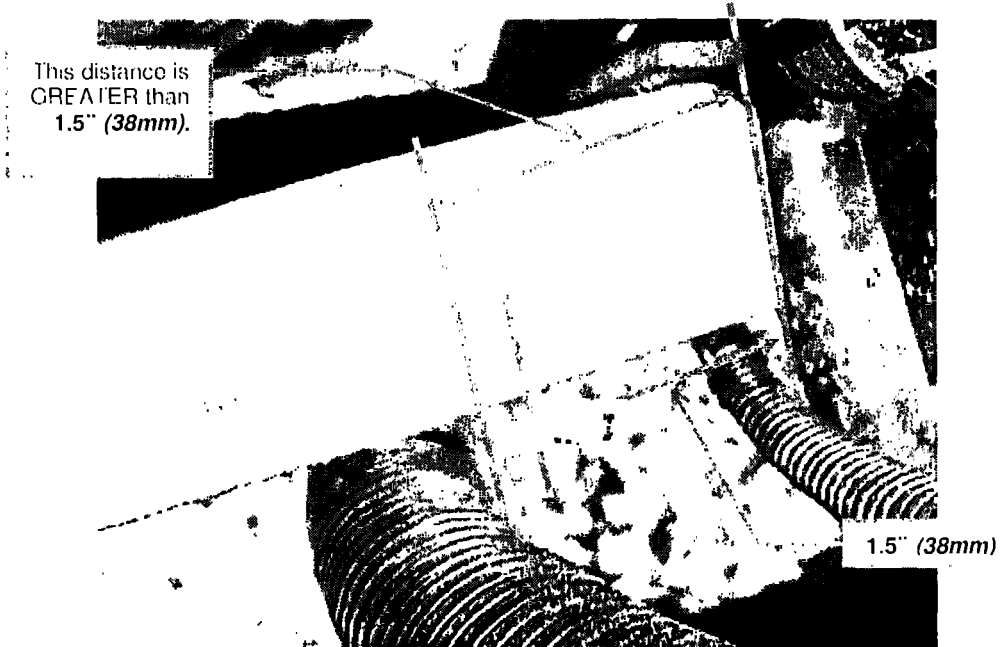
**Figure 1 – Gap Measurement**

4. If the smallest gap is less than 1.5 inches (38mm) continue on to **BATTERY CABLE INSPECTION PROCEDURE.**



**Figure 2 – Saddle Clamp Installation REQUIRED**

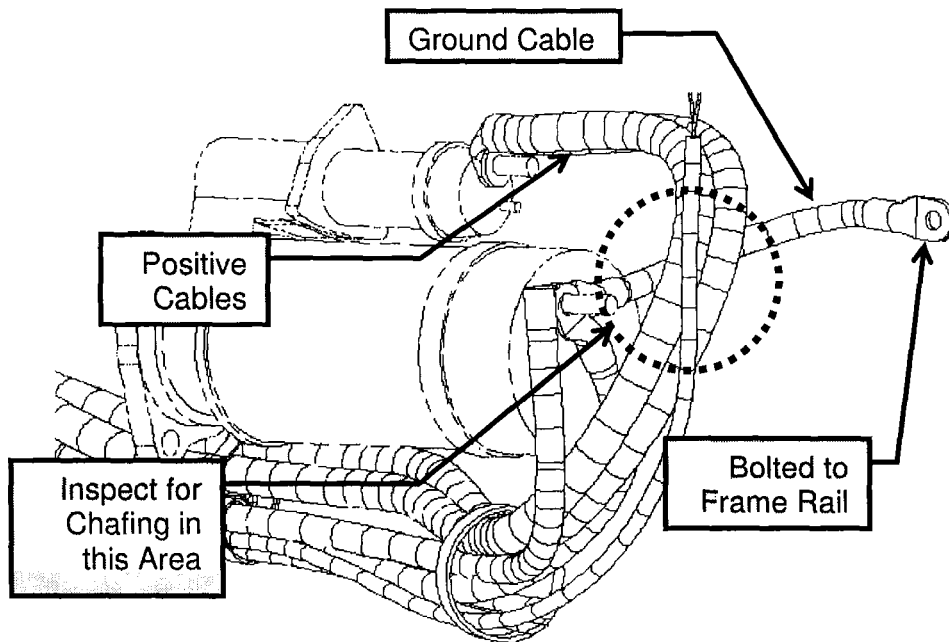
5. If the smallest gap is 1.5 inches (38mm) or LARGER, then no further inspection or saddle clamp installation is necessary – **END SERVICE PROCEDURE.**



**Figure 3 – No Further Action Necessary**

## **BATTERY CABLE INSPECTION PROCEDURE**

6. For ALL suspect vehicles, if the gap measured above is less than 1.5 inches (38mm), perform the following battery cable inspection procedure.
7. Inspect positive (red) battery cables, conduit and ground cable (black) in areas indicated below:



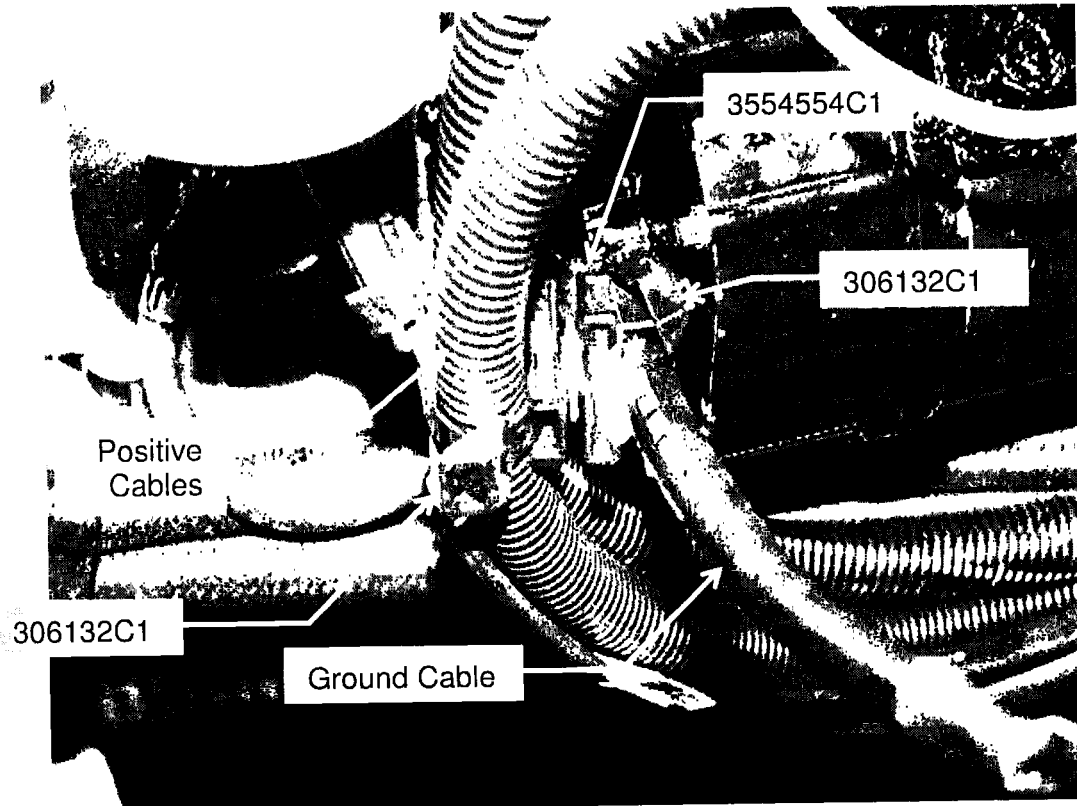
**Figure 4 – Engine Removed for Clarity**

8. If ANY indication of chafing or rubbing is evident, replace any affected cables and continue to step 11.
9. If there is NO indication of chafing or rubbing, continue on to **SADDLE CLAMP INSTALLATION**.

## **SADDLE CLAMP INSTALLATION**

10. For Caterpillar, Cummins ISX, and Cummins ISM (w/o fuel filter), see Figure 5.

11. Install saddle clamp and strap-locks as indicated below:



**Figure 5 – w/o fuel filter**

12. For Cummins ISM engines with fuel filter please see Figure 6.

13. Install saddle clamp and strap locks as indicated below.

14. Re-route battery cables between the fuel filter and engine block.

**NOTE: Ensure battery cables do not chafe on fuel filter assembly or fittings.**

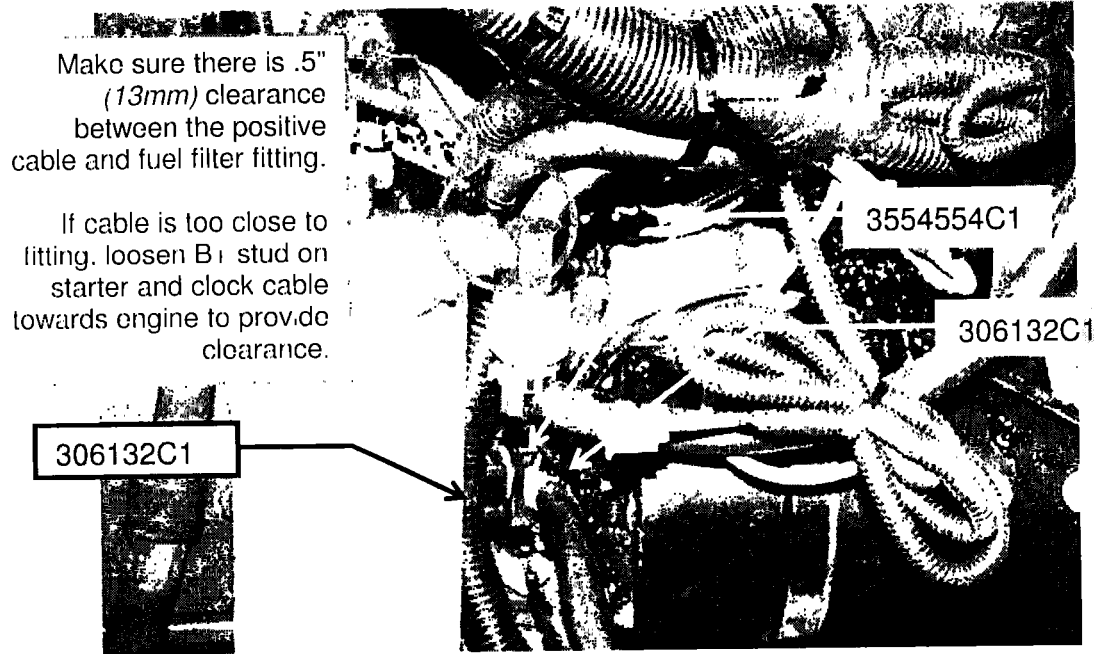


Figure 6 – Cummins ISM w/Fuel Filter

### **Caterpillar Engine Warning**

- After performing this recall on vehicles with Caterpillar engines, please inspect the routing of the ENGINE BLOCK ground cable.



#### **IMPORTANT:**

**TO PREVENT CHAFING OF THE POSITIVE CABLES AGAINST THE ENGINE BLOCK GROUND CABLE (SEE FIGURE 7), PLEASE ENSURE ENGINE BLOCK GROUND CABLE IS CLOCKED IN THE DOWNWARD (6 O'CLOCK) POSITION, SEE FIGURE 8.**



**Figure 7 --**

**Chafing may occur between Engine Block Ground and Newly Located Positive cables.**

- If necessary, rotate and tighten the new ground cable on the starter terminal so it is straight down (6 o'clock position) and *not* contacting the starter positive cables, see figure 8.

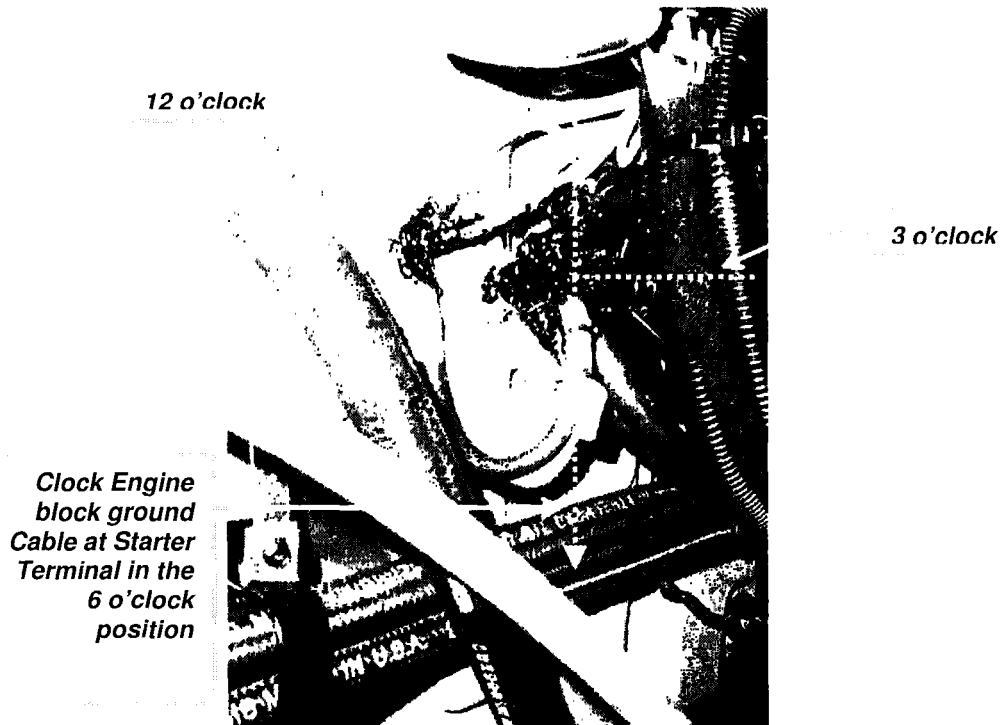


Figure 8 – Correct CAT engine block ground cable routing.

## END OF SERVICE PROCEDURE

## LABOR INFORMATION

<u>Operation No.</u>	<u>Description</u>	<u>Time</u>
A40-5514-1	<i>Inspect Battery Cable Gap – NO SADDLE CLAMP INSTALLATION</i>	0.3 Hr
A40-05514-2	<i>Install Saddle Clamp and Strap Locks Caterpillar and Cummins WITHOUT Fuel Filter</i>	0.4 Hr
A40-05514-3	<i>Install Saddle Clamp and Strap Locks, Cummins ISM WITH Fuel Filter</i>	0.5 Hr
A40-05514-4	<i>Install Saddle Clamp, Strap Locks, and REPLACE Battery Cables – all engines</i>	1.0 Hr
A40-05514-5	<i>ADD ON ONLY – Caterpillar Engine Block GROUND CABLE Re-Clock</i>	0.2 Hr

## CAMPAIGN IDENTIFICATION LABEL

Each vehicle corrected in accordance with this campaign **must be** marked with a CTS-1075 Campaign Identification Label.

Complete the label and attach on a clean surface next to the vehicle identification number (VIN) plate.

**DO NOT REMOVE**

**INTERNATIONAL**

Campaign No. \_\_\_\_\_

VIN \_\_\_\_\_

Eng.# \_\_\_\_\_

**COMPLETED**

Service Location Code # \_\_\_\_\_

**DO NOT REMOVE**

## ADMINISTRATIVE/DEALER RESPONSIBILITIES (U.S. & POSSESSIONS)

Proceed immediately to make necessary correction to units in inventory. **All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery.** If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified **IMMEDIATELY** from your dealer location.

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle that is subject to a vehicle recall campaign must be adequately **repaired** within a reasonable time after the owner has tendered it for repair. A failure to adequately repair within **60 days** after a tender of a vehicle is prima

facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within 60 days, the owner may be entitled to **replacement** with an identical or reasonable equivalent vehicle at no charge, or to a **refund** of the purchase price less a reasonable allowance for depreciation.

However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

To avoid having to replace an owner vehicle or refund the purchase price, every effort must be made to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible.

During the recall process, a listing of owner names and addresses will be furnished to the involved dealers to enable dealers to follow up with owners and have the vehicles corrected. You must limit the use of this listing to this campaign because the list may contain information obtained from state motor vehicle registration records and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

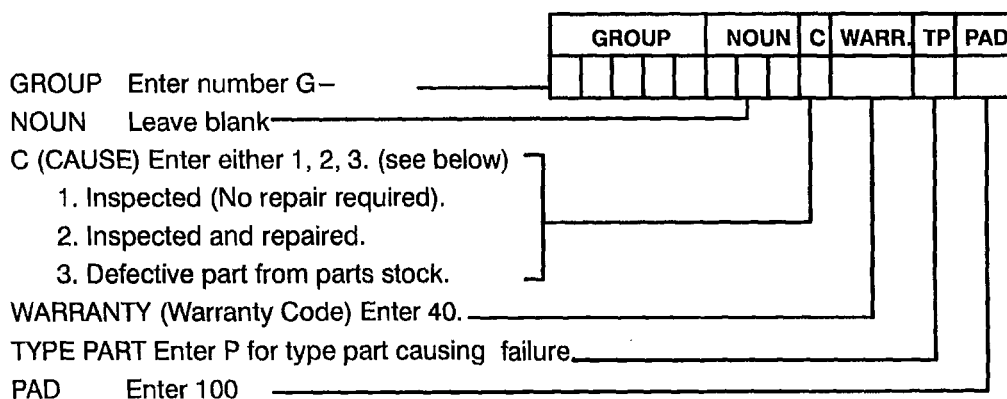
### **POSSIBLE CUSTOMER REIMBURSEMENT**

There may be an occasion when a customer was charged for repairs related to this recall prior to the recall being released. The customer letter contains a statement for the customer to contact the Dealer if they believe they are entitled to reimbursement costs. The Dealer should follow the Customer Reimbursement guidelines in Warranty Policy Letter 03-001G. The Warranty Procedures and Administrative Policies manual (CTS1100) is in the process of being updated to include the information in Policy Letter 03-001G.

### **WARRANTY CLAIMS**

Refer to Dealer Warranty Manual for procedures to conduct Recall Campaigns.

It is important that the Recall Coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44:



### **ADMINISTRATIVE/DISTRIBUTOR RESPONSIBILITY (EXPORT)**

Proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified from your distributor location.

Export locations are to submit warranty claims in the usual manner making reference to this recall number.

We ask for your full cooperation and follow-up to this important subject matter. If you have any questions or need further assistance, please contact the Regional Service Manager at your regional office.

### **INTERNATIONAL TRUCK AND ENGINE CORPORATION**