



VEHICLE RECALL

G-03515
January 2004

SUBJECT: SAFETY RECALL (U.S., EXPORT)

**Air Compressor Discharge Tube on 3200 and 4200 Models
Built 10/01/2002 through 9/15/2003 with V-8 Engines and Air
Brakes or Air Operated Park Brakes (Feature Code: 04CAR) at
the Springfield Assembly Plant**

DEFECT DESCRIPTION

A stand-off bracket that supports the copper air compressor discharge tube was not installed. Normal vehicle and engine vibration can cause the unsupported copper tube to fail at or near the air compressor connection. A failed compressor discharge tube could deplete the air system and may cause the parking brakes to apply. Even though the air pressure gauge and low air pressure warning buzzer would give warning, this condition could cause the vehicle to slow down or stop unexpectedly and could cause a **vehicle accident** that may result in **property damage, personal injury or death**.

MODELS INVOLVED

This campaign includes 3200 and 4200 models built 10/01/2002 through 9/15/2003 with V-8 engines and air brakes or air operated park brakes (feature code: 04CAR) at the Springfield Assembly Plant.

OWNER NOTIFICATION

International Truck and Engine Corporation will notify owners of this campaign on their vehicles. A copy of the owner letter is attached. 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.

PARTS INFORMATION

The parts required for this recall are as follows:

Part Number	Part Description	Quantity
8900108R91	Air Compressor Discharge Tube Recall Service Kit	1
3550809C5	Air Compressor Copper Tube	As per <i>INSPECTION PROCEDURE</i> 1 per truck as required

The Recall Service Kit **8900108R91** contains the following parts:

Part Number	Part Description	Quantity
91010R1	Extension Clip	1
3544379C1	Nut, M8, Prev Torq	1
3564290C1	Clamp, Pipe, 5/8	1
3552155C1	Bolt, M6 x 20	1
3544378C1	Nut, M6, Prev Torq	1
3524005C1	Windlace, 3.65" lg	1

Some vehicles were built without the windlace. Please order the entire kit even if just replacing the windlace.

SERVICE PROCEDURE

This service procedure is split into two (2) sections: an Inspection and a Repair Procedure. Perform the inspection on all vehicles first to determine if any repair is required.

INSPECTION PROCEDURE



WARNING:

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



WARNING:

BLOCK THE WHEELS TO PREVENT THE VEHICLE FROM MOVING.

1. Open and secure hood.
2. Ensure copper air compressor tube is supported as shown in Figure 1.

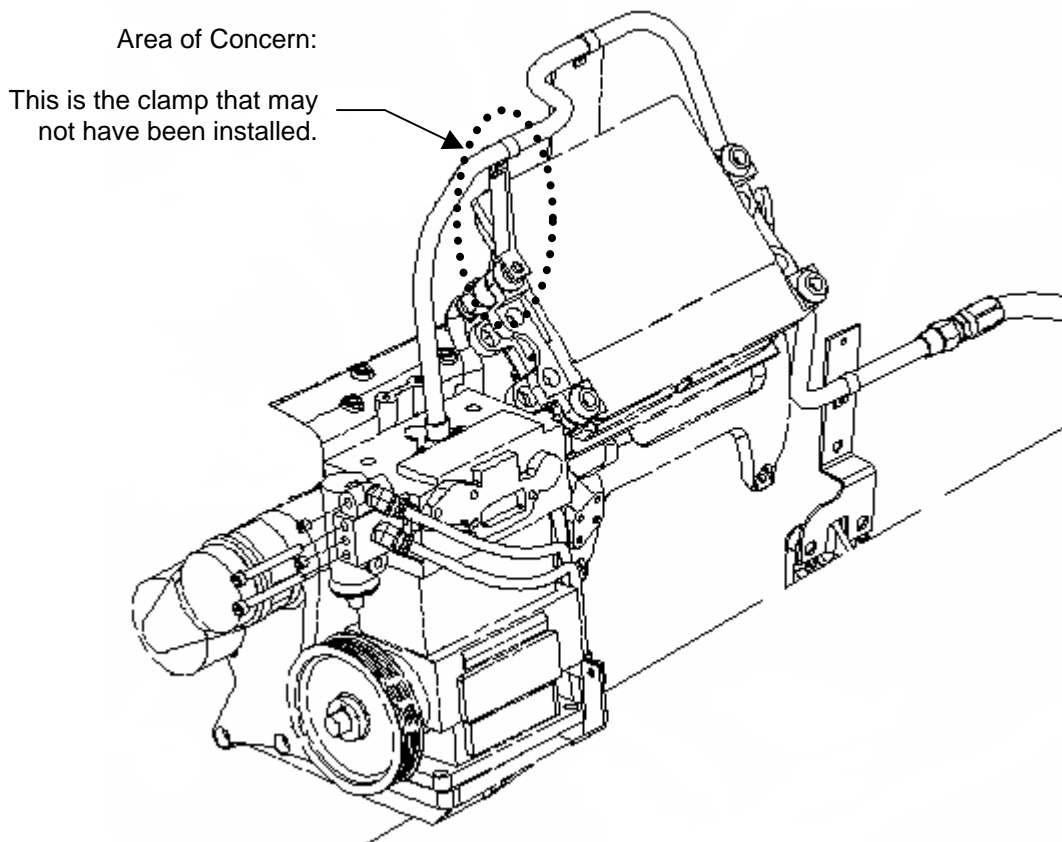


Figure 1

3. If the vehicle **does not** contain the clamp as shown in Figure 1, skip down to **Installation Procedure** below.
4. If the vehicle **DOES** contain the clamp as shown above, then check for windlace. (See Figure 2)
 - a. If **NO** windlace is present, then skip to the **Windlace Installation Procedure** below.
5. If the vehicle **DOES** contain the clamp as shown above, **AND** contains the windlace, then **NO REPAIR IS REQUIRED**.

INSTALLATION PROCEDURE

1. If, upon completing the *INSPECTION PROCEDURE*, it is found that the following *INSTALLATION PROCEDURE* is required, ***you must inspect the copper tubing to determine if it has been damaged.***
2. Deplete air system by depressing brake pedal several times.
3. Start vehicle and ensure compressor is running in the loaded state (pushing air through the copper tubing).
4. Perform a 'soap' test (i.e. a soap and water spray, Snoop, etc...) on the copper tube ***at the compression fitting*** located on the compressor.
 - a. If there are air bubbles forming, the copper tube must be replaced before the extension clip and pipe clamp are installed.
 - b. If there are ***NO*** air bubbles forming, continue onto step 5.
5. Turn off vehicle ignition.
6. Deplete air system by depressing brake pedal or open the air tank drains until primary air gauge reads 0 psi.
7. Loosen the compression nut at the air compressor discharge.
 - a. Slide compression nut up and away from the connection area.
8. Inspect area around copper tube end to determine if any cracking, or material deformation has occurred.
 - a. If ***any*** cracking or material deformation has occurred, the copper tube must be replaced before the extension clip and pipe clamp are installed. See ***Copper Tube Replacement Procedure***.
 - b. If there is ***NO*** evidence of cracking or material deformation, the copper tube ***does not need to be replaced***. Continue to step 9.
9. Re-tighten the compression nut at the air compressor discharge fitting. .
10. Assemble the clamp as shown in Figure 2.

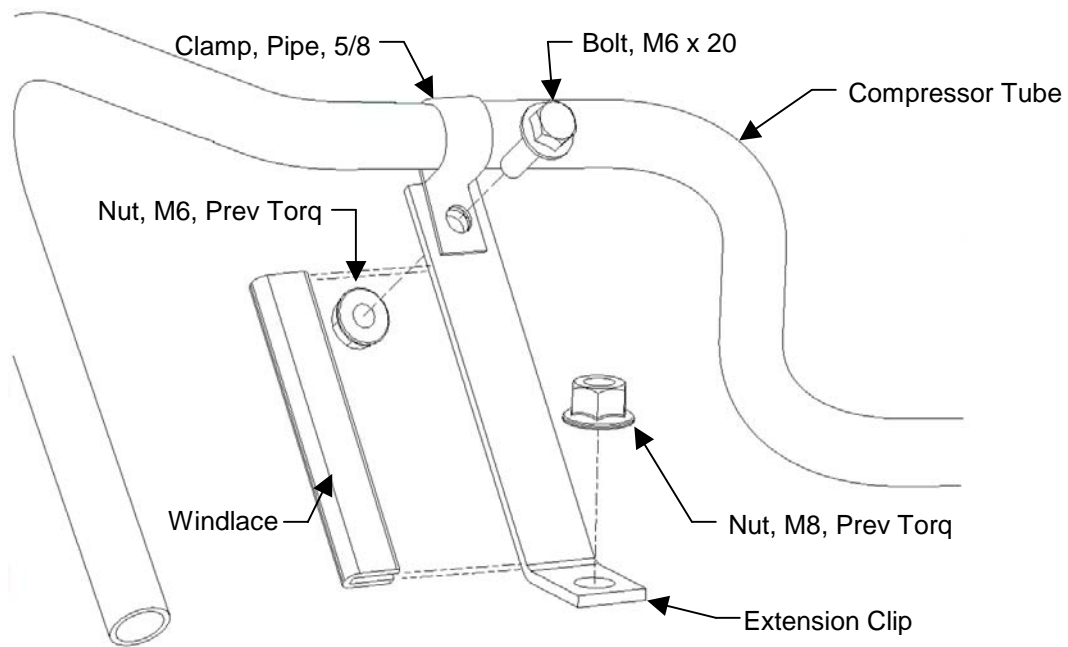


Figure 2

11. Install assembly on engine ECM as shown in Figure 1.

NOTE: Some minor rework to the extension clip may be required to properly fit pipe clamp.

If necessary, bend extension clip to meet discharge tubing.

DO NOT FORCE DISCHARGE TUBING TO FIT EXTENSION CLIP.

12. Torque for the M6 fasteners is **6.5-8 LbF-Ft (8.7-10.7 Nm)**.

13. Close and secure hood. The SERVICE PROCEDURE is complete.

The **Windlace Installation Procedure** is to be used only on vehicles that, upon inspection, were otherwise assembled correctly **except for the windlace.**

Windlace Installation Procedure



CAUTION:

TO AVOID CHAFING AGAINST THE AIR COMPRESSOR CLEAN AIR INTAKE HOSE AND POTENTIAL COMPRESSOR FAILURES, INSTALL THE WINDLACE ON **ALL** VEHICLES THAT DO NOT HAVE IT.

1. Some vehicles were built with the extension clip assembly, but were **not** built with the windlace.
2. Install the windlace as shown in Figure 3.

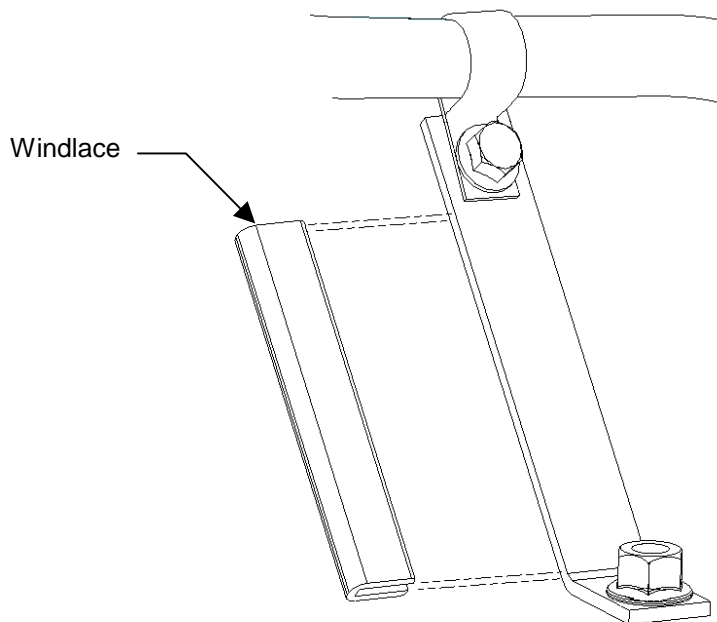


Figure 3

*The **Copper Tube Replacement Procedure** is to be used only on vehicles that, upon inspection, were found to have cracked or broken air compressor discharge tubes.*

Copper Tube Replacement Procedure

1. The air compressor discharge tube is secured to the engine by three (3) sets of extension clip assemblies. (**Figure 4**)

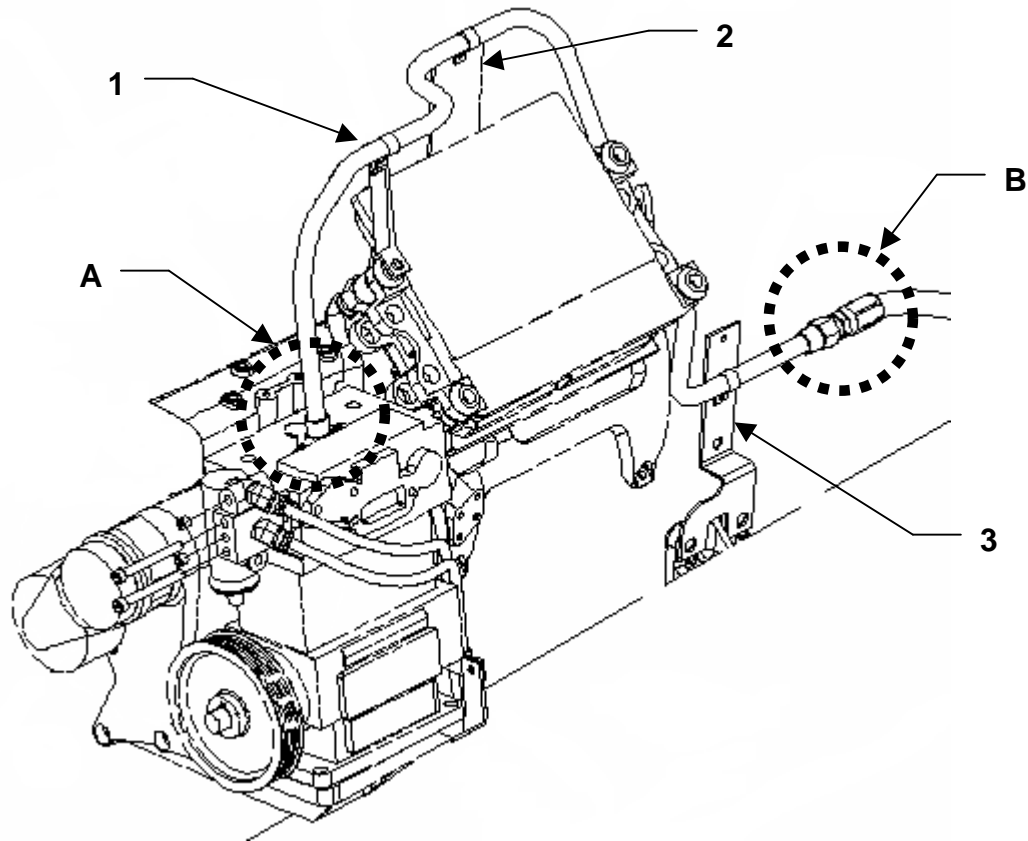


Figure 4

2. Deplete air system by depressing brake pedal or opening the air tanks drains until primary air gauge reads 0 psi.
3. Loosen compression fitting nut from air compressor discharge. (**Figure 4, area A**)
4. Remove chassis air supply hose from discharge tube. (**Figure 4, area B**)
5. Remove pipe clamps and pipe clamp hardware on extension clip assemblies 1, 2 & 3.
6. Remove tube and discard.
7. Install new tube into air compressor discharge and chassis air supply hose first.

8. Install pipe clamps and hardware. Torque to **6.5-8 LbF-Ft** (8.7-10.7 Nm).
9. Ensure all fittings are tight and not leaking.

END OF SERVICE PROCEDURE

LABOR INFORMATION

<u>Operation No.</u>	<u>Description</u>	<u>Time</u>
A40-03515-1	<i>Inspection ONLY</i>	0.4 hr
A40-03515-2	<i>ADD if Performed RECALL SERVICE</i>	0.4 hr
A40-03515-3	<i>ADD if Performed WINDLACE INSTALLATION</i>	0.1 hr
A40-03515-4	<i>ADD for discharge tubing replacement ONLY</i>	0.2 hr

- All vehicles will require an inspection.
- If the vehicle was inspected and found to have the **correct** tube clipping, *including windlace*, use only operation A40-03515-1
- If the vehicle was inspected and found to have **incorrect** tube clipping, requiring the service procedure, use operation A40-03515-1 and *add* operation A40-03515-2.
- If the vehicle was inspected and found to have **correct** tube clipping, **but no windlace**, requiring the windlace installation procedure, use operation A40-03515-1 and *add* operation A40-03515-3.
- If the copper discharge tube was replaced, please **ADD** A40-03515-4 to the claim.

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.

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:

GROUP	NOUN	C	WARR.	TP	PAD
<div>GROUP: Enter Recall Number</div>	<div>NOUN: Leave Blank.</div>	<div>C: (CAUSE) Enter either 1, 2, or 3. 1. Inspected – no corrections necessary 2. Inspected and repaired. 3. Defective part from parts stock.</div>	<div>WARRANTY: (Warranty Code) Enter 40.</div>	<div>TYPE PART: Enter P for type part causing failure.</div>	<div>PAD: Enter 100.</div>

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