

# FUSO Tech Tips

The Newsletter for FUSO  
Dealer Service Departments

March 26, 2014

Volume No. 2, Issue No. 3

## Updated DUONIC Transmissions

### Waffle clutch equipped transmissions introduced

An updated DUONIC transmission equipped with a waffle type clutch is now available for sale. The new clutch design allows fluid to flow more efficiently, dissipating heat more effectively. The updated transmissions were installed beginning with the August 1, 2013 Canter known as "2014½" or "OBD2013" vehicles. Updated factory installed DUONIC transmissions begin with serial number ZG76391 (FE) / ZG76723 (FG).

	OEM Part #	New Model #	Serial # Range
FE	ME530181	M038S6A221	ZG76391 and up
FG	ME530223	M038S6A276	ZG76723 and up
	Replacement Part #		Serial #
FE	ME530181XN/XR		Example: <u>W</u> 1234
FG	ME530223XN/XR		Example: <u>W</u> 1234

## New Service Information Bulletins

### 14-002 New DUONIC™ Clutch Design for 2014 Model Year Canter

A new clutch design has been incorporated into DUONIC™ transmissions installed in Canter vehicles produced after August 1, 2013. This new clutch design utilizes a waffle pattern in the disc surface that allows fluid to flow more efficiently across the disc. This allows heat to dissipate more effectively, improving transmission durability.

### 14-003A DUONIC™ Shift Quality Recovery Procedure

When a Canter arrives at your dealership with a complaint of shift quality, perform the Shift Quality Recovery Procedure before proceeding with further diagnosis.

### 14-004 Waffle Clutch-equipped DUONIC™ Transmission ECU Reprogramming and Initialization

All Canter vehicles built after August 1, 2013 are produced with a DUONIC™ transmission incorporating this new clutch design. When installing a waffle clutch equipped DUONIC™ transmission in earlier Canter, it is imperative to download correct software for correct application pressure. Failure to apply correct software will result in premature clutch failure. Such failures will not be covered by warranty!

## Warranty Tip

### A & B Codes

- The Warranty Department has updated the A & B Code list and it is available on Fusonet to view or print.

- Go to: Warranty> Publications> Warranty Forms Printable to access.

- To avoid delaying payment of claims, please use proper coding. Warranty will place claims on hold if the A & B codes do not support the claim properly.

## Did you know?

### Quick tips...

- **Fuso Diagnostics Software Update**

FDS-R13-1.2 (06EXX0021-2) was mailed to each dealer the week of February 24. Be sure to update your laptop as soon as you receive the update in order to properly communicate with all Canter trucks and to be able to perform upcoming enhancements to customers' vehicles!

**We suggest copying the DVD to a flash drive, and using the flash drive to update the laptop, to avoid installation errors due to dirty or faulty DVD drives. The software is very sensitive and may crash if the DVD drive hesitates.**

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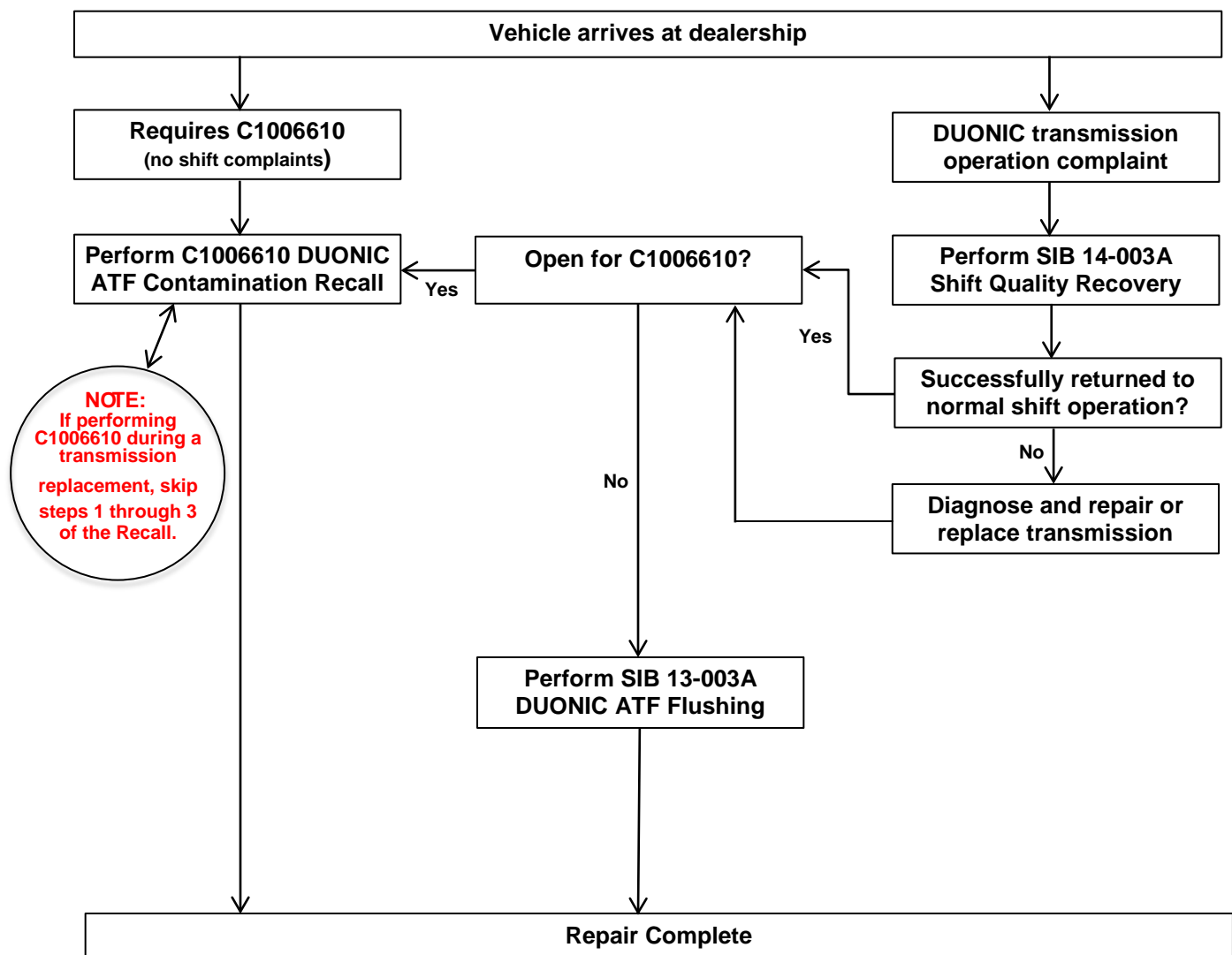
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## DUONIC Transmission Diagnosis

### Diagnosis Tree for DUONIC Transmissions

When a vehicle arrives at the dealership with an open C1006610 DUONIC ATF Contamination Safety Recall, DUONIC shift quality complaint, or transmission failure, follow the diagnosis tree below:



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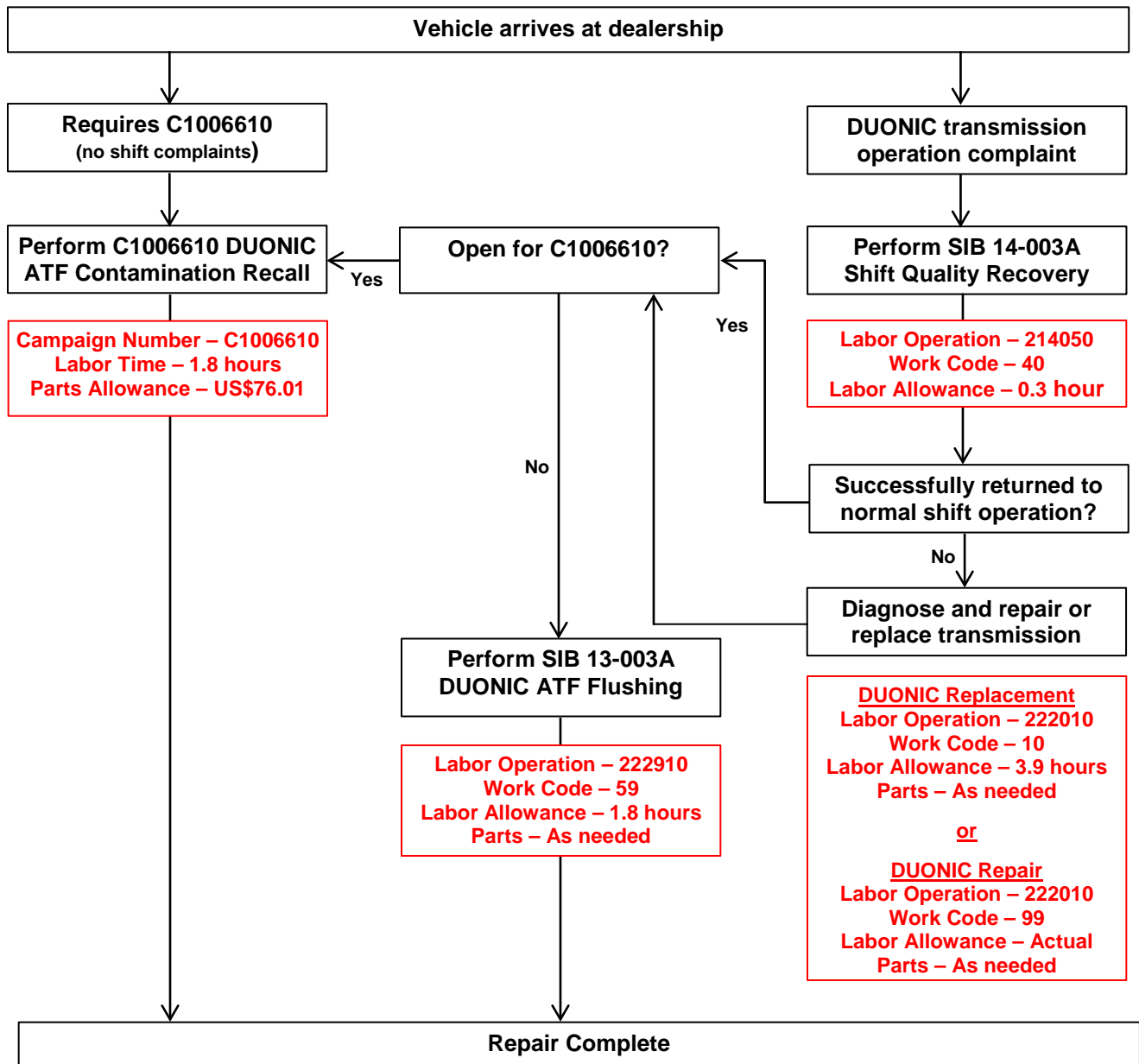
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## Warranty Reimbursement

### Warranty Reimbursement for various DUONIC operations

The warranty reimbursements for various operations are found in blue in the boxes below the operations:



Note: This newsletter is intended for information purposes only and does not supersede Service Bulletins, Service Publications and Owner's Manual.

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## DUONIC Repair and Reimbursement Summary

If a transmission shift complaint exists, always perform the Shift Quality Recovery procedure first (SIB 14-003A), then proceed as necessary. If the vehicle is open for the C1006610 recall, complete the recall after all repairs have been completed. If the vehicle is not open for C1006610, flush the transmission according to SIB 13-003A after all repairs have been completed.

1. **Is the vehicle operating normally and in need of only the ATF Contamination recall?**  
Perform the recall and request reimbursement through MFTA campaign claim submission as follows:

Campaign Number – C1006610  
Labor Time – 1.8 hours  
Parts Allowance – US\$76.01

2. **Was the transmission shift complaint resolved with Shift Quality Recovery?**

**Open for C1006610**

WSC Submission

Labor Operation – 214050  
Work Code – 40  
Labor Allowance – 0.3 hour

SIB 14-003A

Recall Submission

Campaign Number – C1006610  
Labor Time – 1.8 hours  
Parts Allowance – US\$76.01

**Not open for C1006610**

WSC Submission

Labor Operation – 214050  
Work Code – 40  
Labor Allowance – 0.3 hour

SIB 14-003A

Labor Operation – 222910  
Work Code – 59  
Labor Allowance – 1.8 hours  
Parts – As needed

SIB 13-003A

3. **Was repair or replacement of the transmission necessary?**

**Open for C1006610**

WSC Submission

Labor Operation – 214050  
Work Code – 40  
Labor Allowance – 0.3 hour

SIB 14-003A

DUONIC Replacement  
Labor Operation – 222010  
Work Code – 10  
Labor Allowance – 3.9 hours  
Parts – As needed

or

Recall Submission

Campaign Number – C1006610  
Labor Time – 1.8 hours  
Parts Allowance – US\$76.01

**Not open for C1006610**

WSC Submission

Labor Operation – 214050  
Work Code – 40  
Labor Allowance – 0.3 hour

SIB 14-003A

DUONIC Repair  
Labor Operation – 222010  
Work Code – 99  
Labor Allowance – Actual  
Parts – As needed

Labor Operation – 222910  
Work Code – 59  
Labor Allowance – 1.8 hours  
Parts – As needed

SIB 13-003A

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## Important DUONIC Notes

### 1. C1006610 ATF Contamination Recall

In order to ensure that maintenance intervals remain intact, the fluid in the gear box (rear portion of the transmission assembly) will be replaced during the flushing procedure. In essence, this campaign becomes a free transmission service for your customer.

### 2. Flushing Facts

It is not necessary to flush the clutch housing more than the prescribed number of times outlined in the recall and SIB 13-003A. Both the Safety Recall (C1006610) and the DUONIC Shift Recovery Procedure (SIB 14-003A) may force substantial quantities of metal contamination into the transmission oil pan. This flushed debris must be removed from the assembly to prevent it from clogging the transmission filter.

The micron rating of the filter is more than sufficient to protect the transmission from the microscopic materials that give the ATF a silvery sheen. This sheen does not indicate the need for additional flushes or of an imminent failure.

### 3. DUONIC-Related Part Numbers

Part Number	Description	Notes
ME530181XN	Replacement DUONIC Assembly	FE
ME530181XR	Replacement DUONIC Assembly	FE
ME530223XN	Replacement DUONIC Assembly	FG
ME530223XR	Replacement DUONIC Assembly	FG
LT124B01	DUONIC Gasket Kit	For C1006610
ME536266	DUONIC Oil Pan Gasket	For 13-003A
4032610	SPIII ATF	4L container
LT124C01	SPIII ATF	Case, 4L containers

### 4. Torque Specifications

Always refer to Section 22 of the Canter Service Manual for proper torque specifications.