

Authorized Field Change



AFC 16906

Date: April 2017

Subject File: BRAKES

Subject: ProStar® Fusion Camera

Model: Certain ProStar® models equipped with Bendix Fusion cameras

Start Date: 22 May 2015 End Date: 19 May 2016

DESCRIPTION

The Wingman® Fusion™ camera software has an issue in determining the regional settings. This can cause fault codes, warning lights and disabling certain functions of the Wingman® Fusion™. Wingman® radar-only collision mitigation remains intact.

ELIGIBILITY

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with AFC 16906. Also complete any other open campaigns listed on the Service Portal at this time.

TOOLS INFORMATION


Table 1. **Tools Information**


| Tool Number | Tool Description |
|-------------|--|
| N/A | Bendix ACom Diagnostic Software version 6.10.2.1 or higher |
| N/A | EZ-Tech® |


PARTS INFORMATION


No parts are required for this procedure.


SERVICE PROCEDURE

 **WARNING:** To prevent property damage, personal injury, and / or death, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.

 **WARNING:** To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

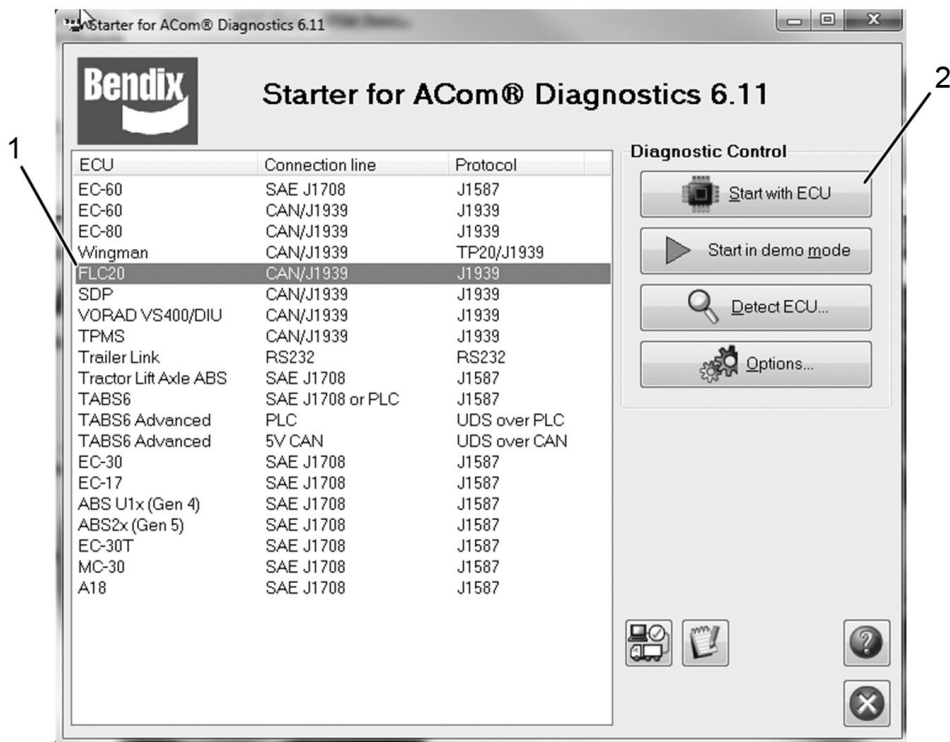
 **WARNING:** To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

 **WARNING:** To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

 **WARNING:** To prevent property damage, personal injury, and /or death, remove ground cable from negative terminal of main battery before disconnecting or connecting electrical components. Always connect ground cable last.

1. Park vehicle on flat surface.
2. Shift transmission to Park or Neutral and set parking brake.
3. Install wheel chocks.
4. Connect EZ-Tech® with Bendix ACom Diagnostics software to vehicle.
5. Turn vehicle ignition ON.
6. Start Bendix ACom Diagnostics.

SERVICE PROCEDURE (CONT.)



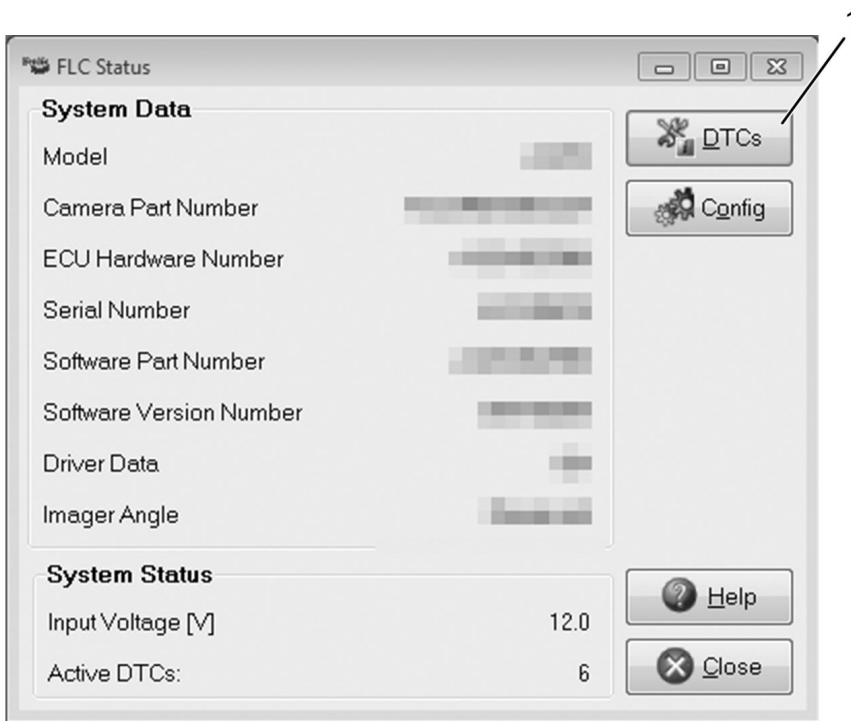
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Figure 1. ACom Diagnostics: Main window

1. FLC20
2. Start with ECU button

7. Select FLC20 (Figure 1, Item 1), then click START WITH ECU button (Figure 1, Item 2).

SERVICE PROCEDURE (CONT.)



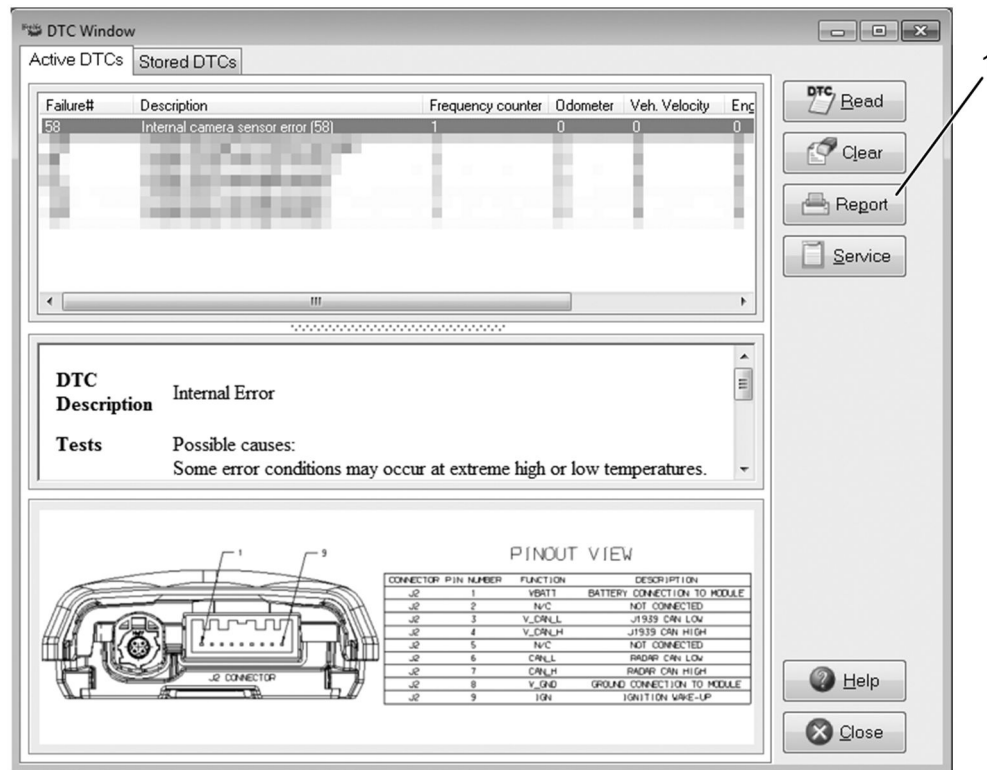
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Figure 2. ACom Diagnostics: FLC Status Window

1. DTCs button

8. Click the DTCs button (Figure 2, Item 1).

SERVICE PROCEDURE (CONT.)



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Figure 3. ACom Diagnostics: DTC Window

1. Report button

9. Click REPORT button (Figure 3, Item 1).

10. Fill in the following report fields as prompted, and save the generated HTML file:

- Company
- Location
- Technician
- Date / Time
- VIN

SERVICE PROCEDURE (CONT.)

ACom-Diagnostics v6.11.1.0 (Beta)
Version - for Testing Only
ACom - FLC v1.4.2.0

901 Cleveland Street
Elyria, OH 44035
800-AIR-BRAKE
www.bendix.com

FLC20™ DTC Report

General Info

| | | | |
|------------|--------|----------|--------|
| Company | Bendix | Location | ██████ |
| Technician | ██████ | VIN | ██████ |

FLC Info

| | | | |
|--------------------------|-----------------------|-------------------------|----------|
| Model | FLC20 | LDW Mode | Normal |
| Camera Part Number | K113243R000 | ECU Hardware Number | 232270 |
| Serial Number | 150150812 | Software Part Number | K126334 |
| Imager Angle | 29.2 deg Connector Up | Software Version Number | BX151280 |
| Traffic Sign Recognition | - | | |

FLC Active DTC's

| Failure Number | Description | Frequency counter | Odometer | Vehicle Velocity | Engine Hours | Date/Time GMT |
|----------------|-----------------------------------|-------------------|----------|------------------|--------------|---------------|
| 58 | Internal camera sensor error (58) | 1 | ██████ | 0 | ██████ | - |
| 86 | Internal camera sensor error (86) | 1 | ██████ | 0 | ██████ | - |

FLC Stored DTC's

| Failure Number | Description | Frequency counter | Odometer | Vehicle Velocity | Engine Hours | Date/Time GMT |
|----------------|-------------|-------------------|----------|------------------|--------------|---------------|
| - | - | - | - | - | - | - |

Report created at 10/11/2016 10:07:49 AM

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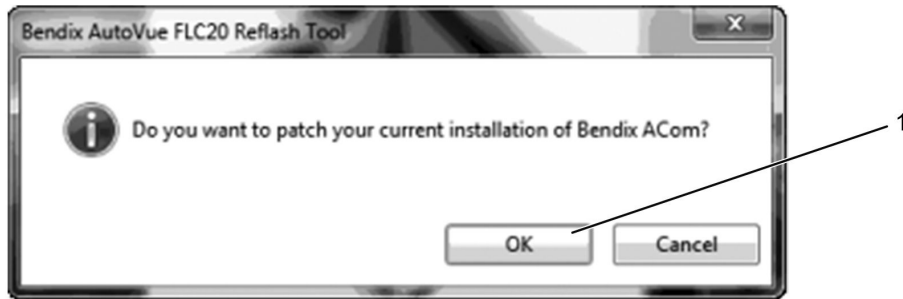
Figure 4. DTC Report

1. Faults 58 and 86

NOTE: If the camera requires replacement, the parts and labor must be on a separate repair. After the camera is replaced, proceed to Step 27.

11. Determine if faults 58 and 86 (Figure 4, Item 1) are listed in the diagnostic report:
 - a. If fault 58 is listed and / or fault 86 is listed (either active or inactive), the camera MUST be replaced.
 - b. If neither fault 58 nor fault 86 is listed, the camera should be reflashed to the latest software. Proceed to Step 12.
12. Close the ACom software.
13. Using a web browser, navigate to the following file on the EZ-Tech® Download Center website:
<http://teamsites.navistar.com/sites/EZ-TechDownloadCenter/EZTech%20Updates/Bendix%20AutoVue%20FLC20.zip>.
 A prompt to confirm the patch installation appears.

SERVICE PROCEDURE (CONT.)



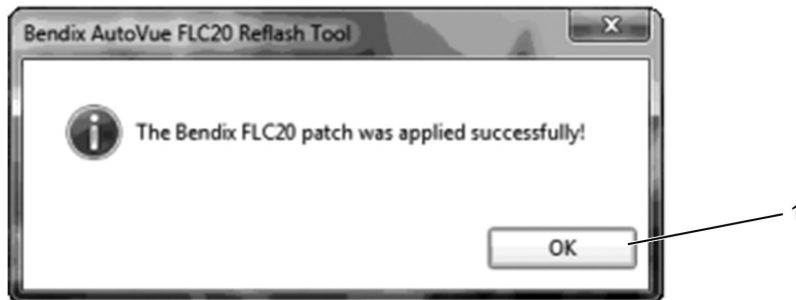
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Figure 5. Prompt to Confirm Patch Installation

1. OK button

14. Click OK (Figure 5, Item 1) to install the patch.

When patch installation is complete, a message indicating successful installation will appear.



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Figure 6. Successful Patch Installation

1. OK button

15. Click OK (Figure 6, Item 1).

16. Start ACom and connect to the FLC20 ECU.

SERVICE PROCEDURE (CONT.)

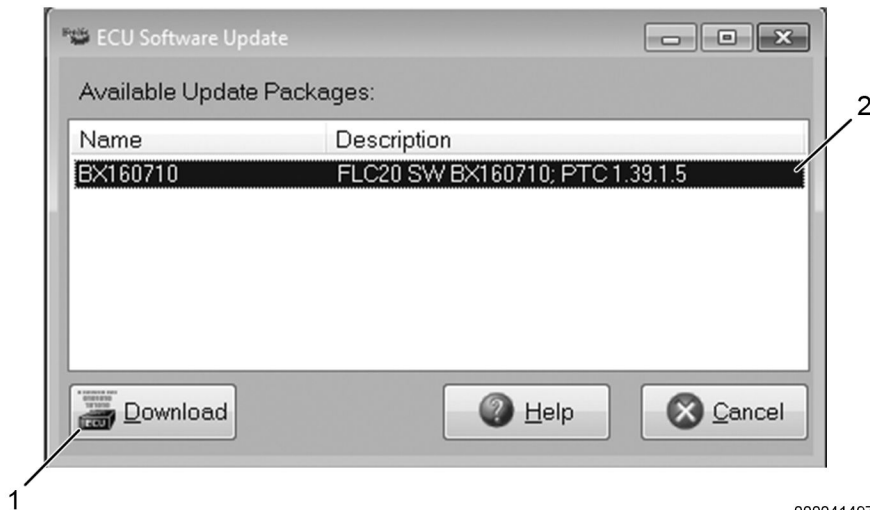


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Figure 7. Tool Bar

1. Flash Download button

17. Click FLASH DOWNLOAD (Figure 7, Item 1) in the tool bar.



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Figure 8. ECU Software Update Window

1. Download button
2. Update package

18. Select update package to be installed (Figure 8, Item 2). Make note of selected update's NAME. (This information is required for Step 26.)

19. Click DOWNLOAD button (Figure 8, Item 1). A progress bar will be displayed

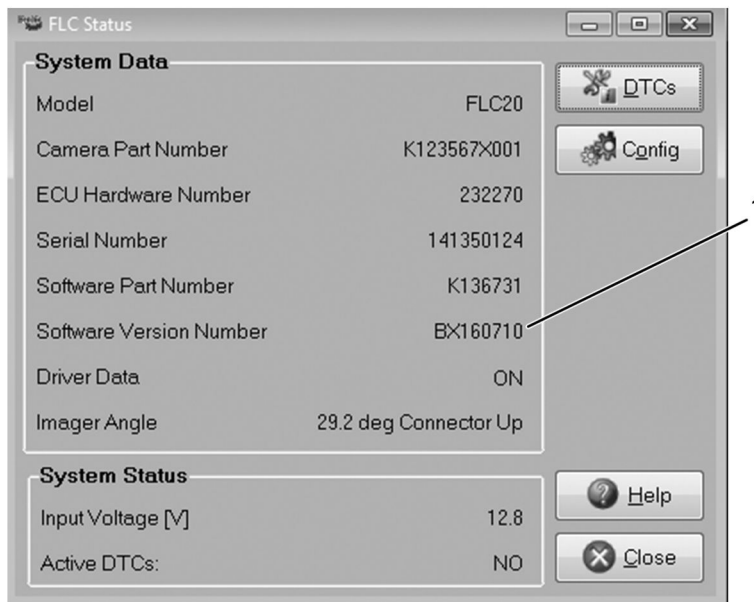
NOTE: Updating the ECU software should take approximately three to five minutes.

20. Once download is finished, key cycle vehicle:

- If an Unknown Error message is displayed and the download failed, proceed to Step 21.
- If download succeeds, proceed to Step 24.

SERVICE PROCEDURE (CONT.)

21. Close Bendix ACom Diagnostic Software.
22. Power cycle vehicle (key OFF, then ON to ignition).
23. Restart the update process (return to Step 16).
24. Start vehicle and wait 15 seconds.
25. Restart Acom, select FLC20 and click START WITH ECU.



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Figure 9. FLC Status Window (After Update)

1. Software version number

26. Verify that Software Version Number displayed (Figure 9, Item 1) matches update Name noted in Step 18.
27. Turn vehicle ignition OFF, close ACom, and disconnect EZ-Tech® from vehicle.
28. Remove wheel chocks.

LABOR INFORMATION

Operation number must appear on all claims.

Table 2. Labor Information

| Operation No. | Description | Time |
|---------------|----------------------------------|--------|
| A40-16906-1 | Diagnose and flash Fusion camera | 0.4 hr |

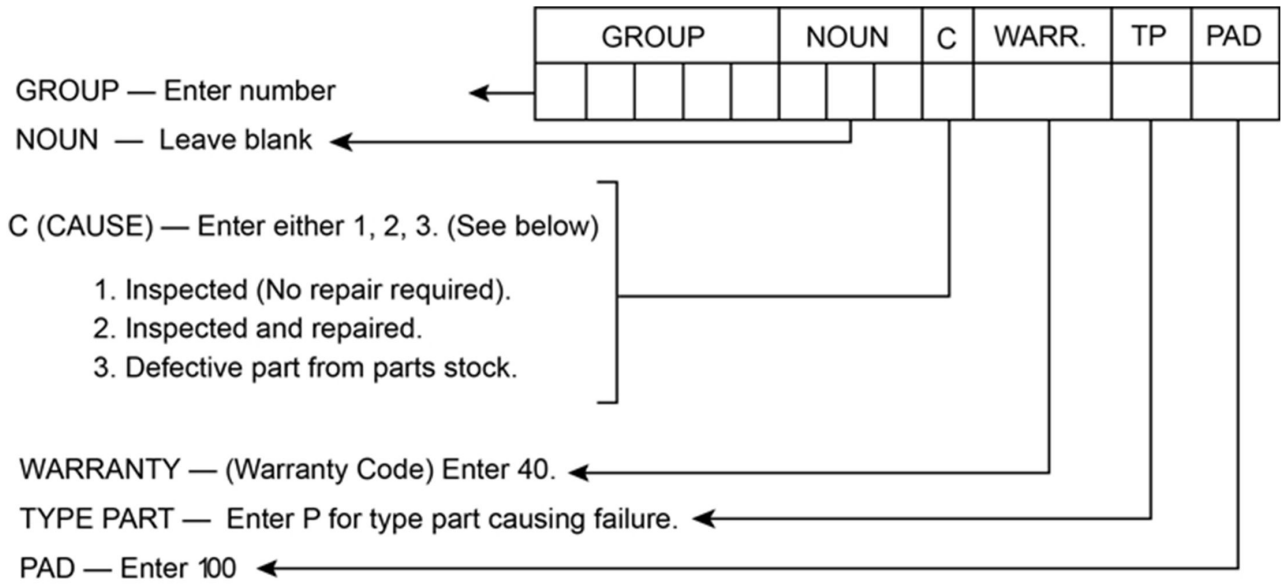
ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number 16906.

Section 7 of the Warranty Policy and Procedures Manual contains further information related to the submission and processing of AFC / Recall claims.

As with all claim submissions, items acquired locally must be submitted in the “Other Charges” tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, barrel of oil, or tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

To ensure this important improvement is made in a timely manner, all claims for 16906 activity must be submitted by 05 April 2018 or within the normal warranty period for the vehicle, if after 05 April 2018.



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