

PRODUCT INFORMATION BULLETIN

DATE ISSUED

09/20/12

PIB #

26

Inaccurate Compass readings on
FCCC units

YEAR / BRAND / TYPE / MODEL #

This information is intended to be an awareness that On certain FCCC RV chassis' that were built with compass and outside temperature sensors, the compass can read erratic due to interference.

PRODUCT INFORMATION

FOR CORRECTION: see the attachment A06-85258-000 for complete parts list that is required. This includes an additional compass module (06-85092-000), additional harness (A06-85256-000), and LBCU replacement. For the LBCU replacement part, you must verify which LBCU the unit was built with, and use the attachment A06-85258-000 (page 5) to determine the replacement part needed.

FOR MOUNTING INSTRUCTIONS & CALIBRATION: Refer to attachment page D06-85170. Module should be mounted in over-head compartment, above driver's windshield **ONLY**. Module **MUST** be mounted and oriented per the instruction on page 2.

- Once installation of the above parts are completed, the attachments D06-85170-000 through D06-85170-calibration13 must be printed off and calibrate new module as directed. It is **CRITICAL** that the steps be followed in order, which is the **CALIBRATION MUST BE PERFORMED PRIOR TO DECLINATION PROCESS**.

DO NOT : disconnect the existing Pollak module (06-59460-000), since this module still receives the temp sensor input and relays the data to the new LBCU.

NORMAL WARRANTY APPLIES: to this repair, with an SRT of approximately 3 hours. It will be required to have 2 technicians routing the wiring harness from A-pillar to over-head compartment using coat-hanger device or fish-tape for example. In addition, 2 technicians will be required to run GND wire from new harness to GND stud in outside compartment, in front of LF wheel using fish-tape for example as well.

Please review this information in its entirety prior to beginning any repairs

RELEASE NUMBER	REV LTR	REVISION DESCRIPTION	BY	DATE	APPD
P43082-02	*	INITIAL RELEASE	BBR	09/22/11	EPR

A06-85258-000 ASSY-KIT,COMPASS,X-LINE		Daimler Trucks North America	
THE INFORMATION CONTAINED HEREIN IS PROPRIETARY DATA, AND IS NOT FOR DISSEMINATION OR DISCLOSURE, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUBMITTED, EXCEPT AS AUTHORIZED IN WRITING BY DAIMLER TRUCKS NORTH AMERICA LLC (DTNA)			
MATERIAL APPROVAL N/A DATE N/A DRAWN BY B. REED DATE 09/22/11 CHECKED BY J. FERREIRO DATE 10/24/11 RESPONSIBLE ENGINEER B. REED DATE 09/22/11 APPROVED BY E. REYNOLDS DATE 11/7/11		UNLESS OTHERWISE NOTED, DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ASME Y14.5M-1994 WITH EXCEPTION PER DTNA 08ENG-WI037  THIRD ANGLE PROJECTION UNITS OF MEASURE MM	
ASSY-KIT,COMPASS,X-LINE SUPPLEMENTAL DESCRIPTION 1U1K1			
ITEM NUMBER A06-85258		REVISION LETTER -	
DRAWING NUMBER A06-85258		PAGE 1 of 6	

A06-85258-000

J1939 Compass Module Service Kit Bill of Material

ITEM NUMBER	PART DESCRIPTION	QTY
G06-85257-000	WRG-TGS,COMPASS,X,SERVICE	R
A06-85256-000	HARN-TGS,OL,DASH,COMP,SERVICE	1
D06-85170-000	INSTL-MOD,J1939,COMPASS,X	R
06-85092-000	MODULE-COMPASS,J1939,AMA	1
23-09796-809	CLAMP-CABLE TIE,36.25" 0-11"	R

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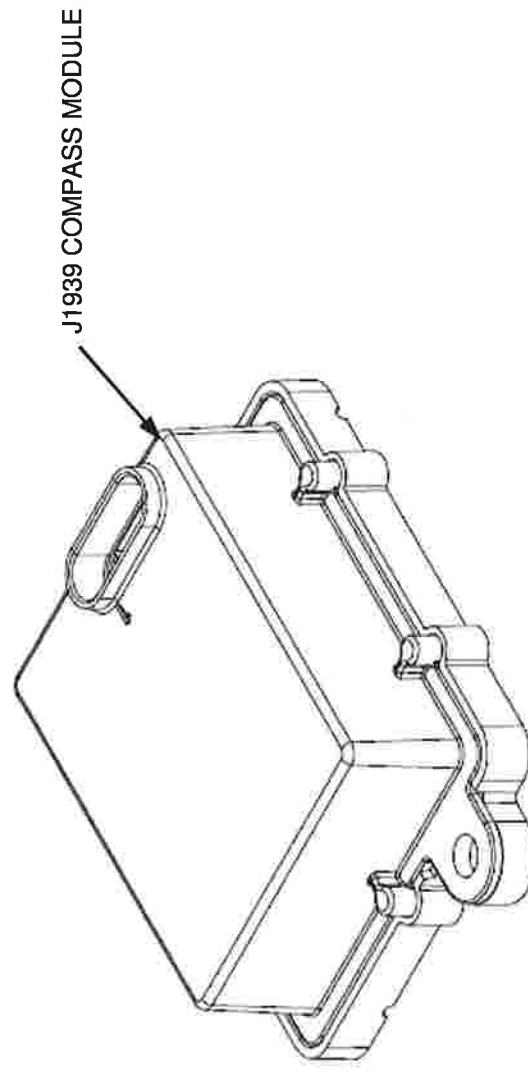
ITEM/DRAWING NUMBER
A06-85258

REVISION LETTER
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Step 1: J1939 Compass Module Installation

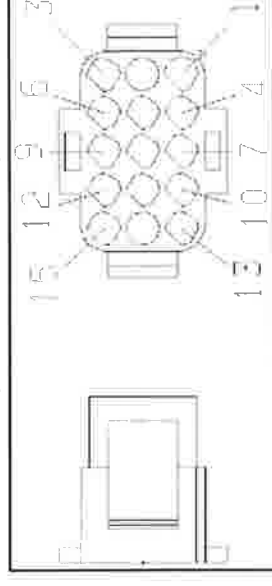
1. Follow J1939 compass module installation instructions D06-85170-000.
2. The J1939 compass module must be installed in the upper cabinet area above the driver seat.



Step 2: Wire Harness Installation

1. Ensure vehicle ignition power is off.
2. Route stand-alone harness overlay "A06-85256-000" along the existing vehicle dash harness and secure to dash harness using tie bands (reference part number "23-09796-809").
3. Locate the wire harness break out with the GND ring terminal from "A06-85256-000".
4. Attached the GND ring terminal to the dash ground pass-through stud using the existing hardware. Terminal mounting stud to have a maximum torque of 106 in-lbs.
5. Locate the wire harness break out with the two pin connector containing J1939 wiring from "A06-85256-000".
6. Locate the dash J1939 terminating resistor in the vehicle dash harness near the instrument panel lightbar connectors.
7. Remove and discard the existing J1939 terminating resistor in the vehicle dash harness.
8. Connect the two pin J1939 connector from "A06-85256-000" to the now open dash terminating resistor connector.
9. Locate body builder connector "DASH_H_CUSTOMER_B" (23-13150-001) in the existing vehicle dash harness. See View A for reference.
10. Locate the wire harness break out for the body builder connector interface from "A06-85256-000".
11. Install the body builder connector interface from "A06-85256-000" between body builder connector "DASH_H_CUSTOMER_B" and the body builder wiring.
12. Locate the wire harness break out for the J1939 compass module and connect this to the compass module.

"DASH_H_CUSTOMER_B"
(23-13150-001)



View A

Step 3: Instrument Panel Lightbar Software update

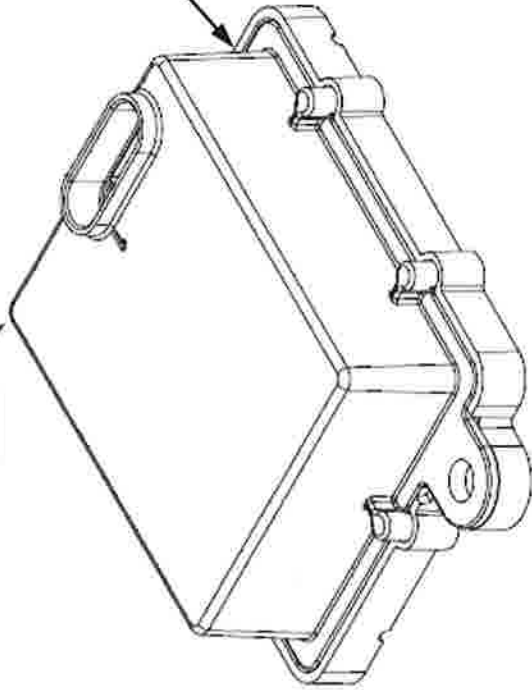
1. Turn vehicle ignition power on.
2. Either replace the lightbar or install new lightbar software per the crossover matrix below.

If Lightbar P/N is:	Replace Lightbar with:	Or, update software to version:
A06-79587-000	A06-79587-002	6.10
A06-79588-000	A06-79588-002	7.10
A06-79588-001	A06-79588-003	7.10

Step 4: Compass calibration

1. With vehicle ignition power on, follow compass calibration procedures detailed in instructions D06-85170-000.

867
PB1



COMPASS MODULE

RELEASE NUMBER	REV LTR	REVISION DESCRIPTION	BY	DATE	APPD
P43082-01		INITIAL RELEASE	BBR	09/13/11	EPR
P43082-04	A	ADDED PAGES 3 -13	BBR	12/07/11	EPR

1. MATING ELECTRICAL CONNECTOR: DELPHI P/N: 12066317
(DTNA P/N: 23-13142-602)
2. 18.7 SQ. IN. FOOTPRINT

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MATERIAL APPROVAL	DATE	UNLESS OTHERWISE NOTED, DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ASME Y14.5M-1994 WITH EXCEPTION PER DTNA 09ENG-WI037	
N/A	N/A		
DRAWN BY B. REED	DATE 09/13/11		
CHECKED BY J. FERREIRO	DATE 09/29/11		
RESPONSIBLE ENGINEER	DATE 09/13/11		
APPROVED BY E. REYNOLDS	DATE 09/29/11		
THIRD ANGLE PROJECTION		UNITS OF MEASURE MM	
INSTL-MOD, J1939, COMPASS, X			
SUPPLEMENTAL DESCRIPTION 1U1A1			
ITEM/DRAWING NUMBER D06-85170		REVISION LETTER A	PAGE 1 of 13

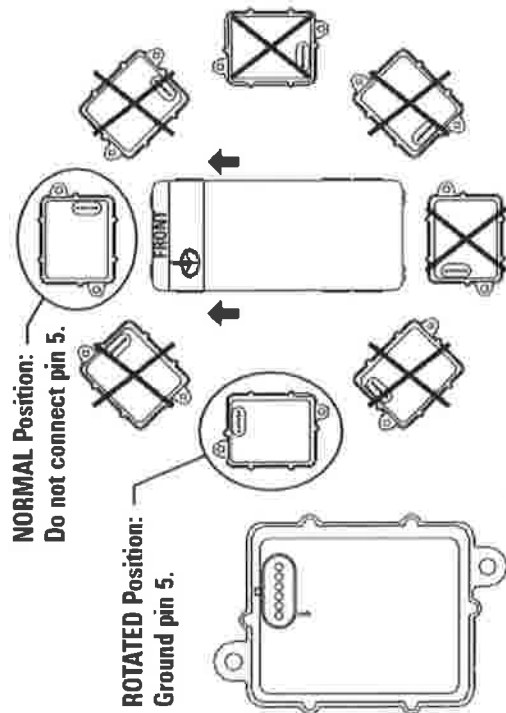


FIGURE 1

WITH THE VEHICLE ON LEVEL GROUND, BODY BUILDER TO FIND A SUITABLE LOCATION INSIDE THE CAB ON WHICH TO INSTALL THE MODULE. DO NOT MOUNT IT NEAR HEAVY WIRING OR MOTORS. A RECOMMENDED LOCATION IS NEAR THE ROOF OF THE VEHICLE.

BODY BUILDER TO INSTALL THE MODULE WITH THE CONNECTOR END TOWARD THE RIGHT-HAND SIDE OF THE VEHICLE (NORMAL POSITION) AS SHOWN IN FIGURE 1. THE MODULE MUST ALSO BE MOUNTED WITH THE CONNECTOR SIDE UP (NORMAL POSITION) AS SHOWN IN FIGURE 2. THE MODULE MUST BE MOUNTED LEVEL BOTH LEFT-TO-RIGHT AND FRONT-TO-BACK.

BODY BUILDER TO SECURE THE MODULE WITH TWO BOLTS UP TO 1/4-INCH DIAMETER. THE BOLTS SHOULD BE TORQUED TO 20-INCH POUNDS. THE MODULE DOES NOT REQUIRE RUBBER MOUNTING.

AFTER THE PHYSICAL PART INSTALLATION IS COMPLETE, THE MODULE IS TO BE CALIBRATED TO COMPENSATE FOR THE MAGNETIC CHARACTERISTICS OF THE VEHICLE AND ITS LOCATION RELATIVE TO THE NORTH POLE.

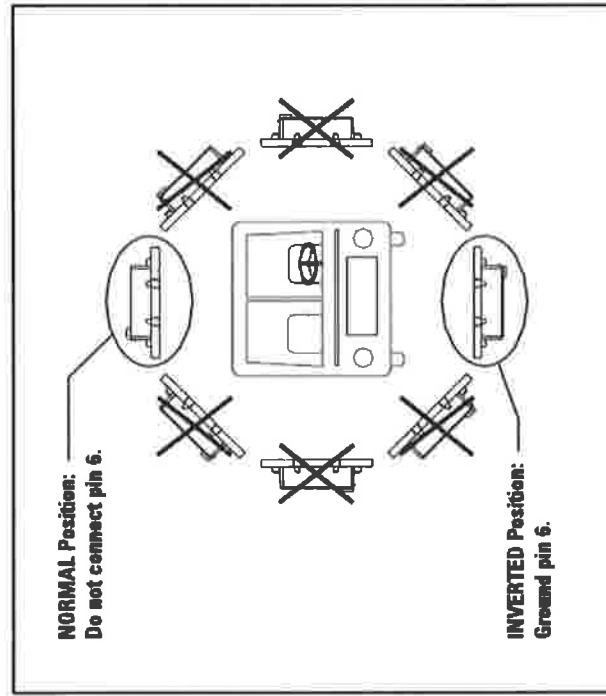
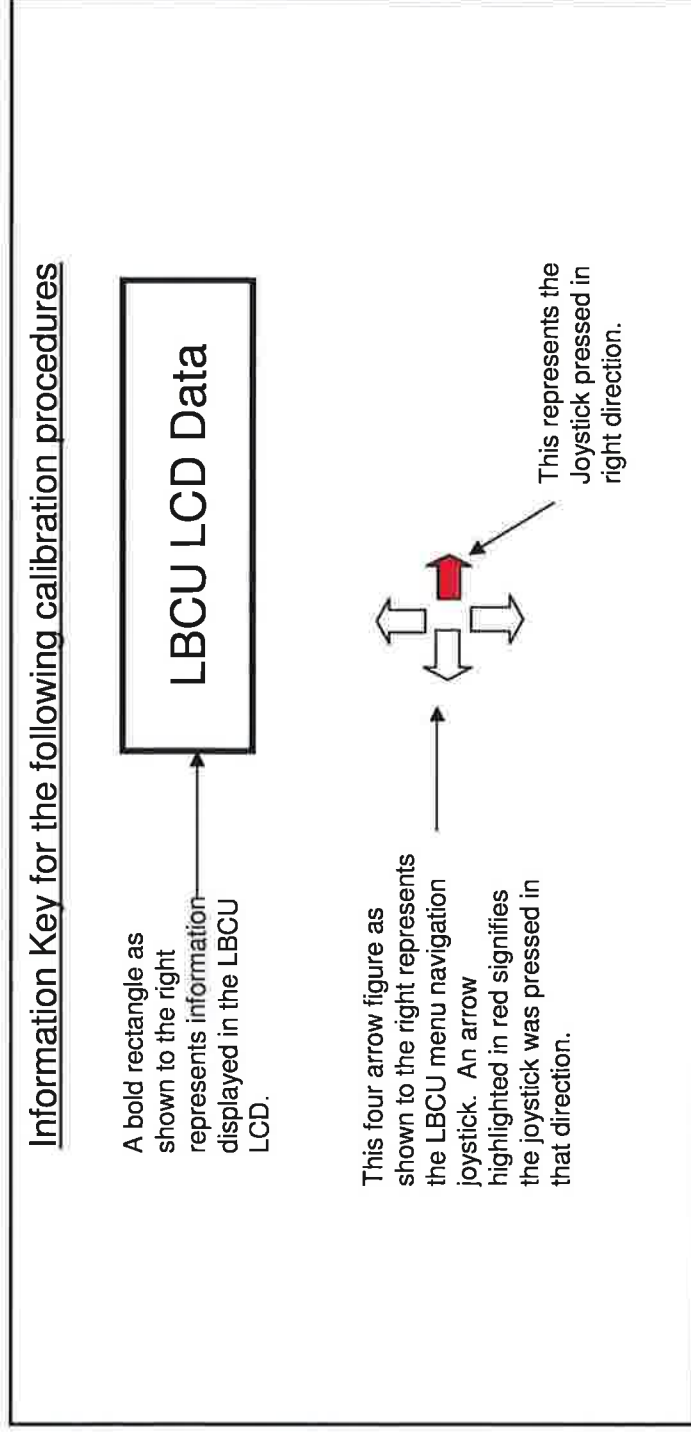
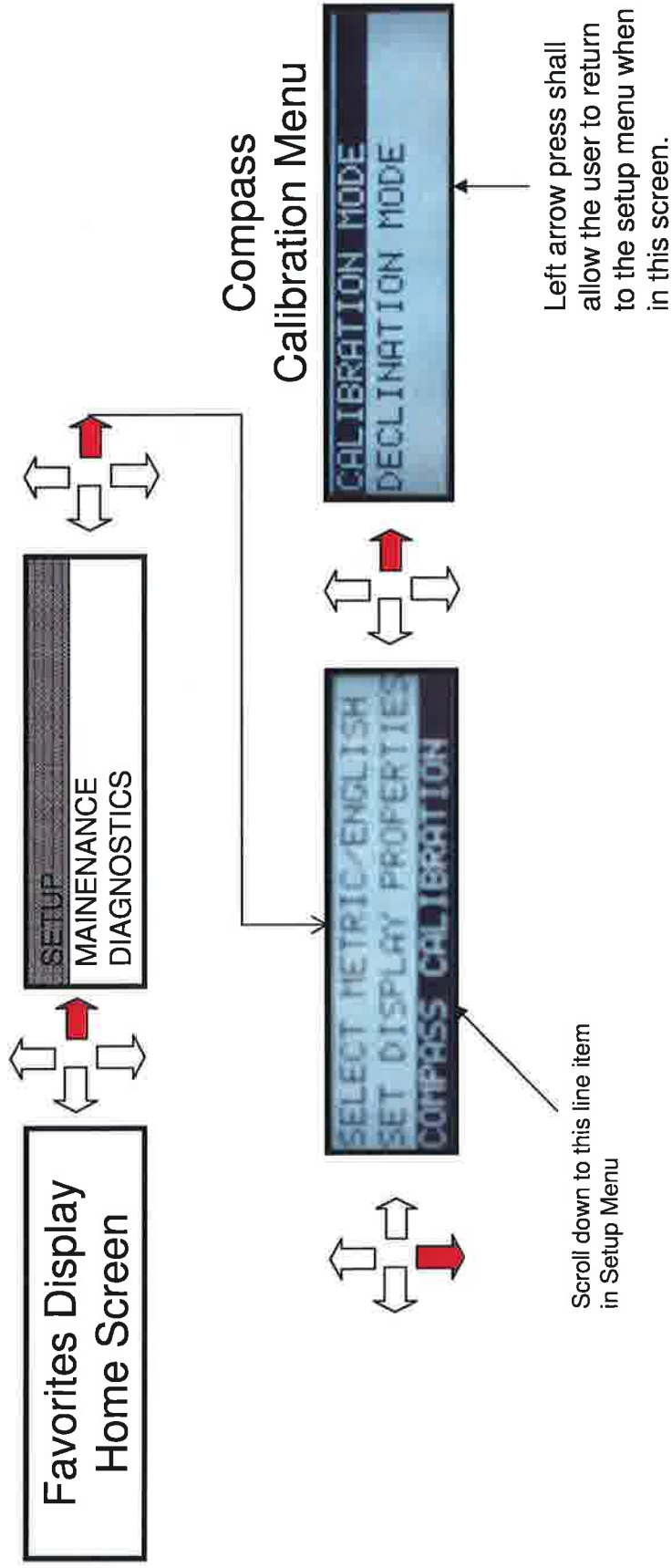


FIGURE 2

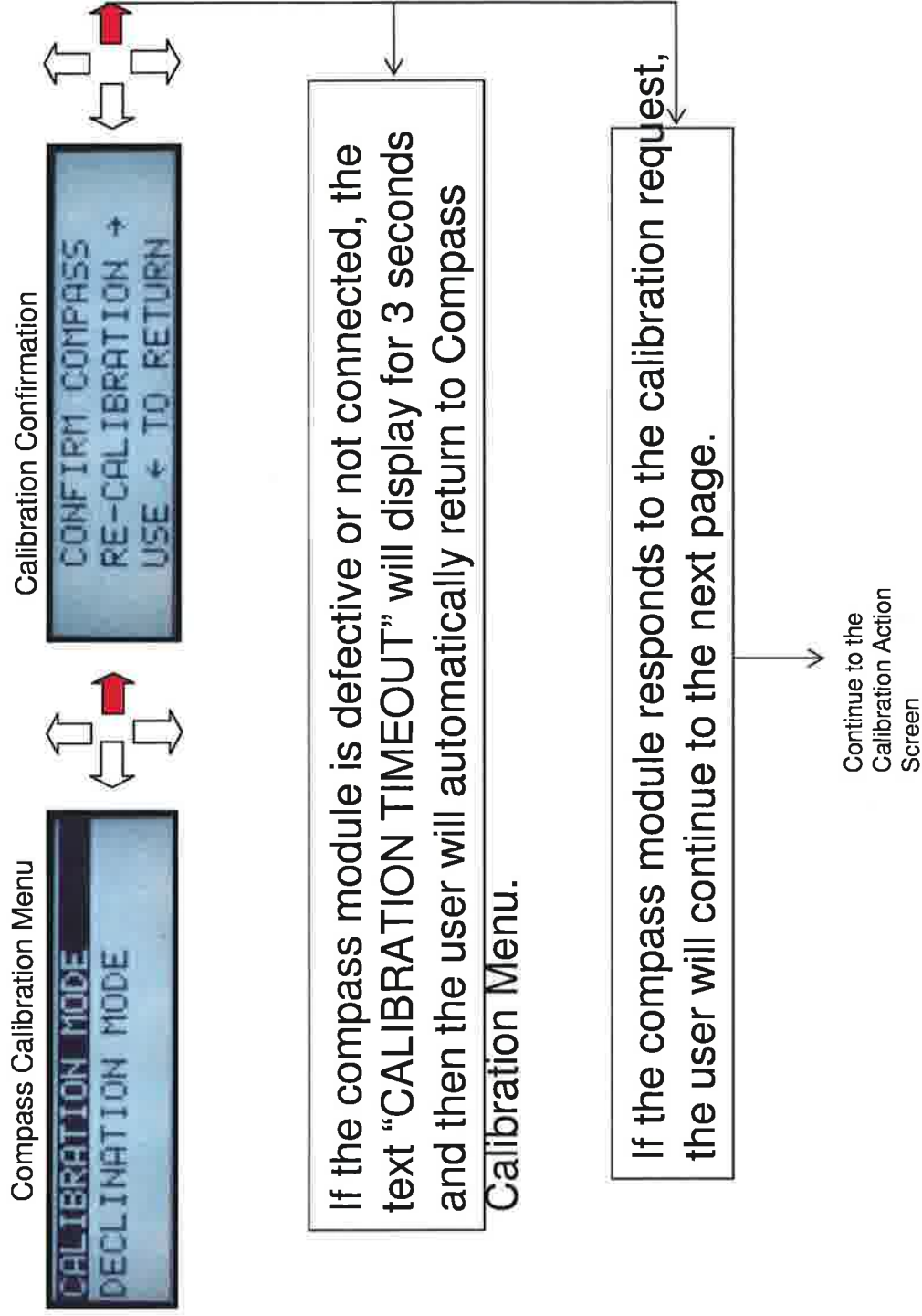
- The following pages describe the calibration procedures for the compass module using the LBCU.
- The procedure for setting the declination angle is also explained.
- These steps must be followed to ensure correct data is provided by the compass module.



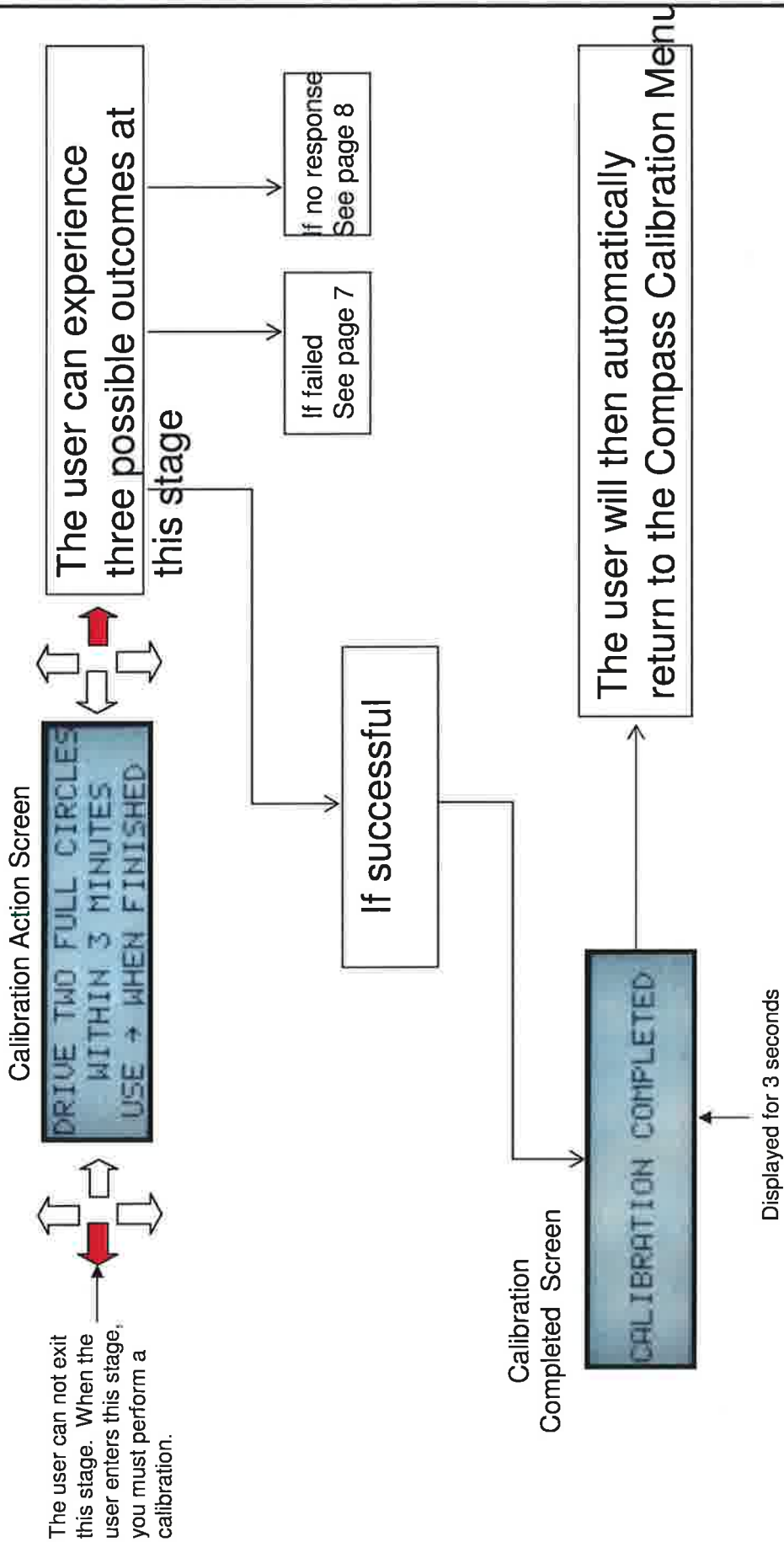
LBCU menu navigation for compass calibration and declination



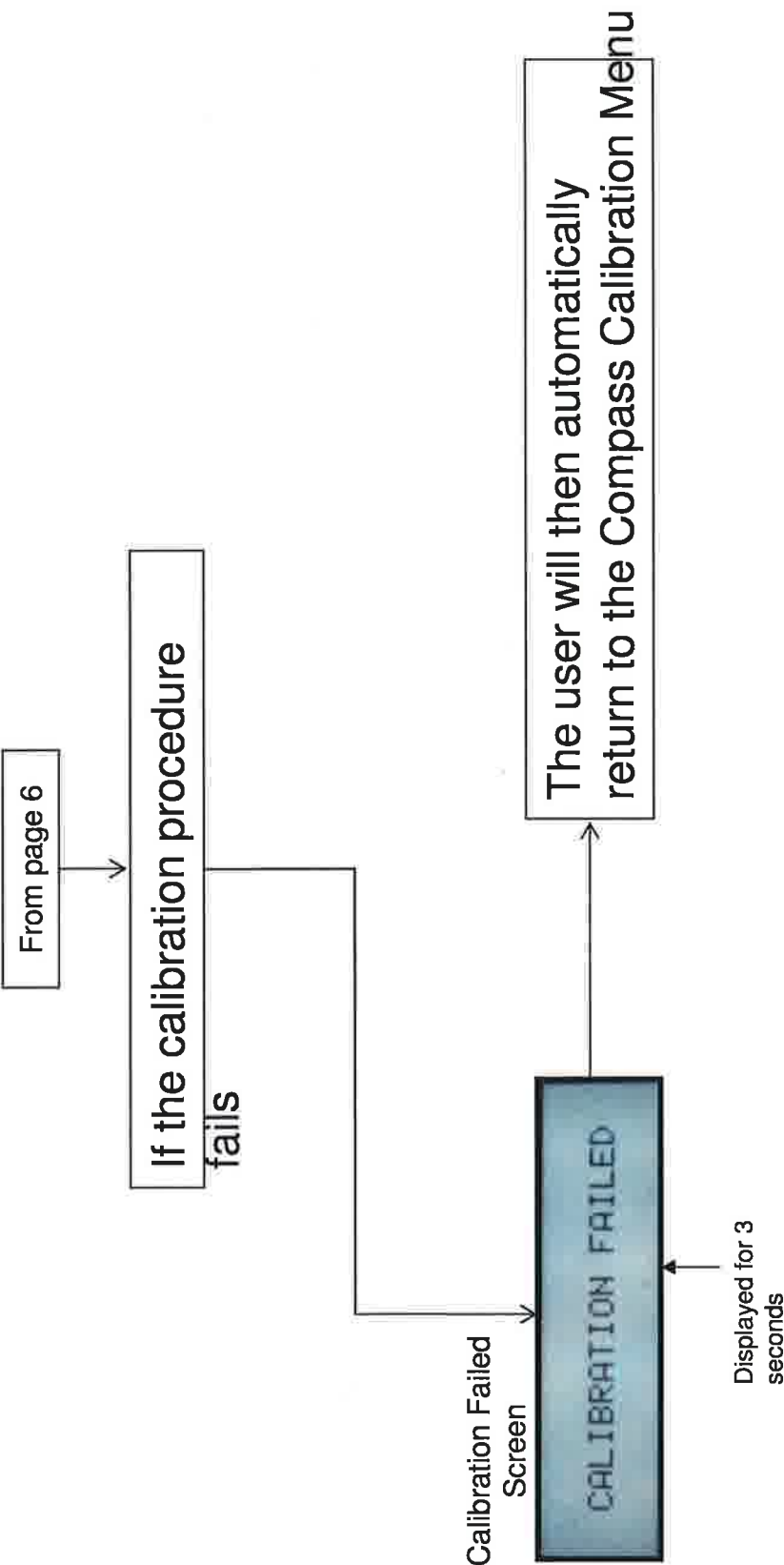
Compass Calibration Procedure



Compass Calibration Procedure



Compass Calibration Procedure



Compass Calibration Procedure

From page 6

If the compass module does not respond to the calibration procedure

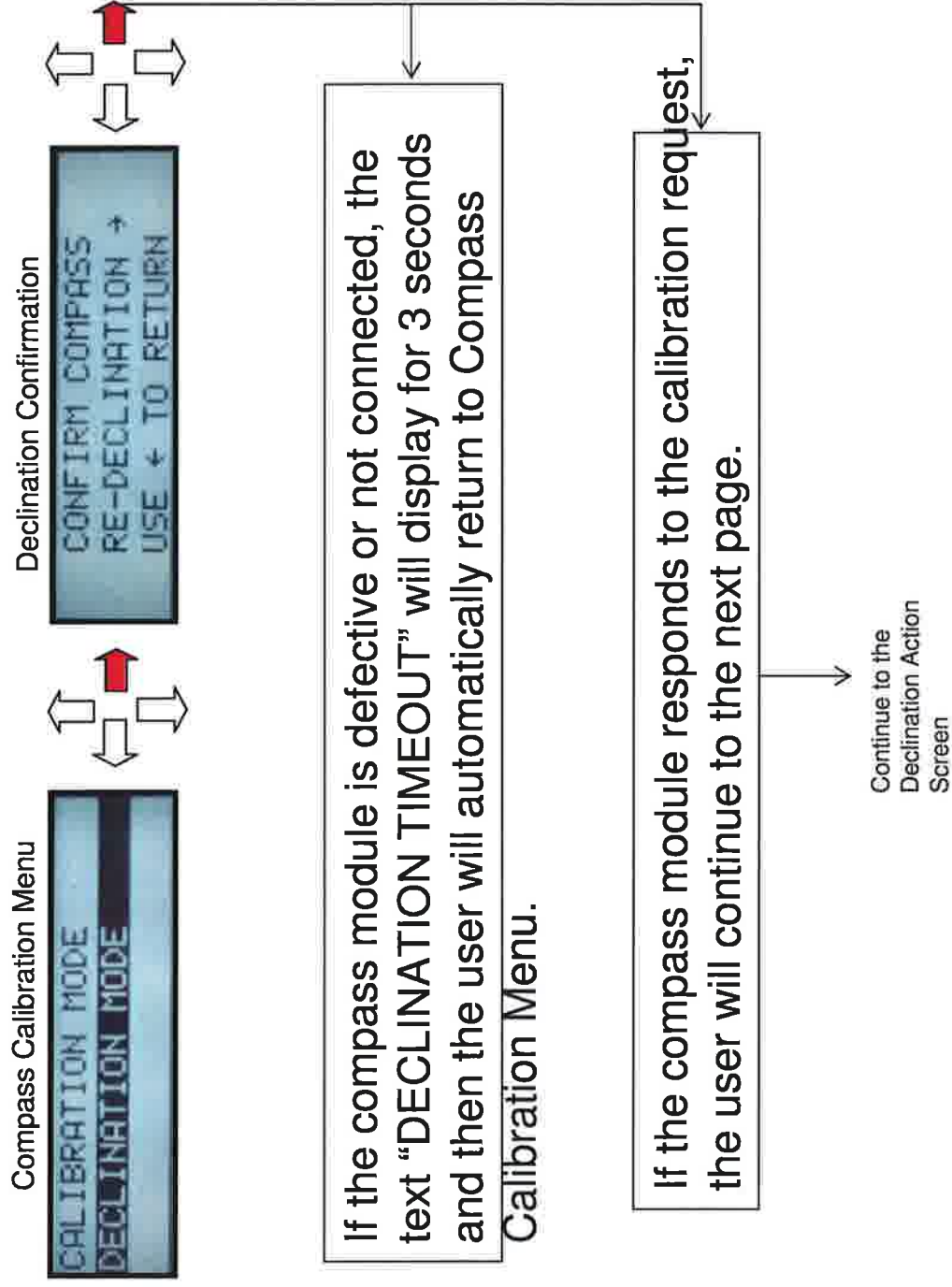
No Response

NO RESPONSE
FROM COMPASS

Display for 3 seconds

The user will then automatically
return to the Compass Calibration Menu

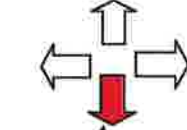
Compass Declination Procedure



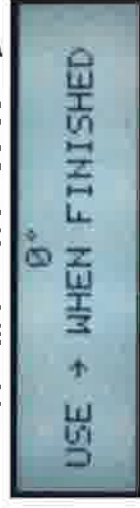
Compass Declination Procedure

- Set the declination angle for the vehicle's location.
- Reference the Declination Diagram below

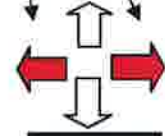
The user can not exit this stage. When the user enters this stage, you must set a declination angle.



Declination Action Screen



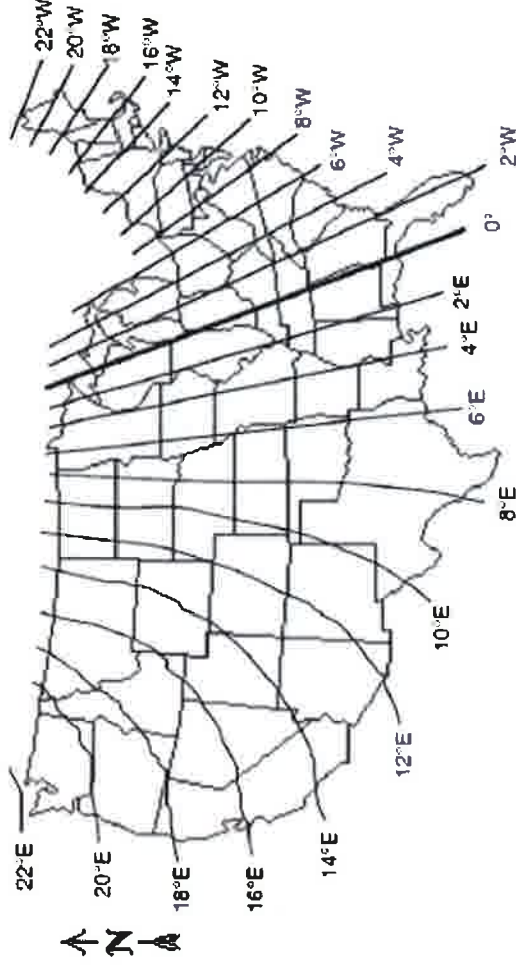
Note: Factory default declination angle is 0°



Up arrow will adjust the declination angle toward the Western angles.

Down arrow will adjust the declination angle toward the Eastern angles.

See the Declination Diagram below



Declination Diagram

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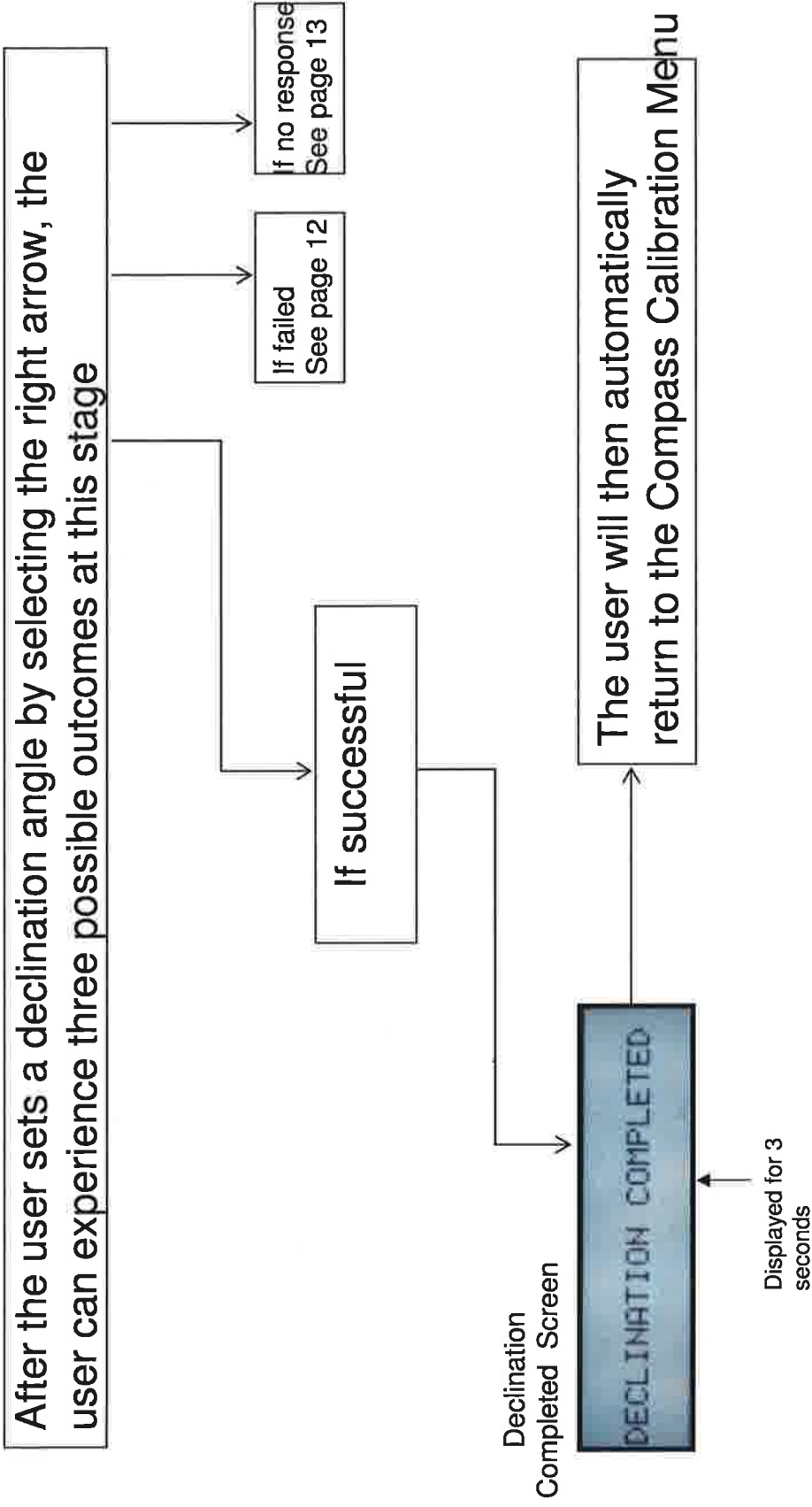
Daimler Trucks
North America

ITEM/DRAWING NUMBER
D06-85170

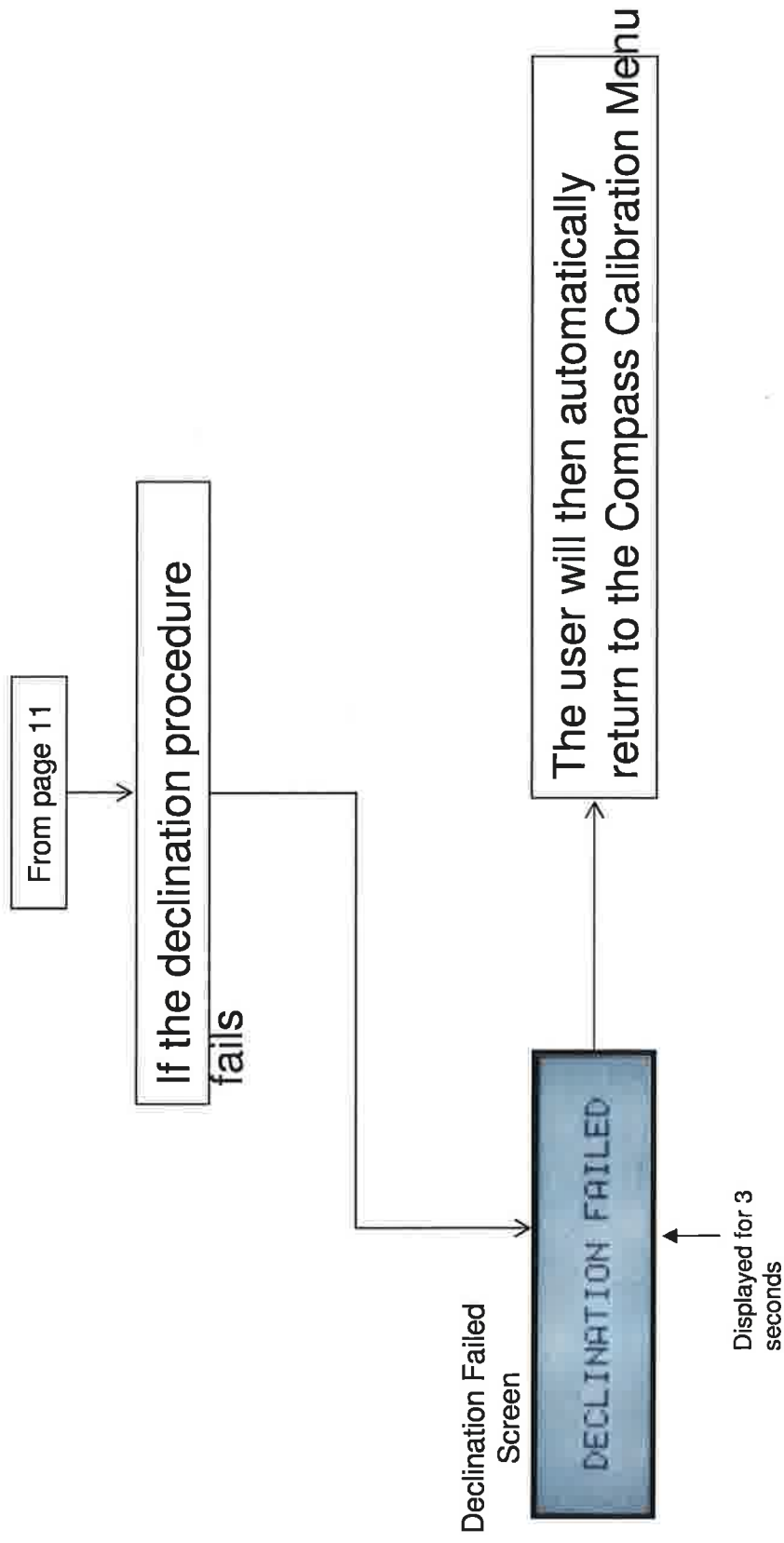
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Compass Declination Procedure



Compass Declination Procedure



Compass Declination Procedure

