

**S-TYPE**

DATE 08/00

S419-01

SERVICE**TECHNICAL BULLETIN****Navigation System Diagnosis –
Access to Diagnostic Menu – Troubleshooting**MODEL 2000 MY-ON
S-TYPE

VIN L00001-ON

Issue:

This Technical Bulletin provides diagnostic information for the Navigation System used on S-TYPE vehicles. Within the Navigation System there is a Diagnostic Procedure to which a technician may gain access.

The Bulletin contains the following information:

Access to the Diagnostic Menu Diagnosis Codes
Troubleshooting Flowcharts 'Adjust Position' Procedure

The Adjust Position Procedure provides a method of rapid re-orientation of the system should a vehicle have been unable to 'see' satellites for some time, during which the vehicle has been transported a considerable distance - a situation which may arise during the delivery cycle, or where a customer's vehicle is on board a car ferry for a considerable period of time.

Note: The navigation control module is designed to operate in the secured upright position. Failure to secure the navigation control module will result in misdiagnosis of the system.
After changing a map CD-ROM, the ignition key should be cycled off then on again, to ensure the system recognizes the new CD-ROM.

Action:**ACCESS TO THE DIAGNOSTIC MENU:**

1. Turn the ignition to position I or II.
2. If the Navigation System has not yet started, press any of the touch buttons.
3. The Caution screen will follow the Jaguar logo.
4. With the Caution screen still displayed, depress the touch buttons RAPIDLY in the following order: F3, F4, F3, F4, F3, F4, ENTER, ENTER, ENTER.
5. The screen will then show the Diagnosis Menu.

The menus now available are:

- a. **System Inspection**
- b. **Display & SW**
- c. **Diag. Memory Menu**
- d. **NAV Diag. Menu**
- e. **Connections Info**
- f. **Adjust position**

The following is a summary of the features of each of the above menus.

<p>a. System Inspection</p>	<p>Shows any abnormality of the system at the moment of testing. If the components and signals are correct, then OK will appear adjacent to the items tested. Should a fault exist, then a Fault Code will be displayed.</p> <p>Where system components are not fitted (e.g. TV-TUNER is only available for the Japanese Market - not fitted for all other Markets) an Error code will be displayed adjacent to the name of the component concerned.</p>
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<p>b. Display & SW</p>	<p>Allows testing of the Display and Switch functions. There are 8 possible selections:</p>
<p>1. Diag</p>	<p>Will display OK, or error code if faulty. (Press 'MAP' to return to Display & SW menu).</p>
<p>2. SW</p>	<p>Allows testing of the push button and cursor control switches.</p>
<p>3. TV</p>	<p>For the Japanese Market ONLY - checks connection. (Press 'MAP' to return to Display & SW menu).</p>
<p>4. VER</p>	<p>Displays the version of the software on which the system is running. Also available is the MAP version and the type of TV fitted. (Press 'MAP' to return to Display & SW menu).</p>
<p>5. COLOR BAR</p>	<p>A check will indicate whether the R (Red), G (Green) and B (Blue) signals are correct. (When in this screen, press F1 or F4 to check the color bar 'Pixels'). (Press 'MAP' to return to Display & SW menu).</p>
<p>6. CON BRI</p>	<p>Adjustments of Contrast and Brightness may be checked. (Press 'MAP' to return to Display & SW menu).</p>
<p>7. RAM CLEAR</p>	<p>Clears the back-up RAM i.e. Diagnosis, Brightness and Contrast. (Press 'MAP' to return to Display & SW menu).</p>
<p>8. END</p>	<p>Will return to the Display & SW menu.</p>

<p>c. Diag. Memory</p>	<p>Allows access to the error history screens - faults that were intermittent. Where a system fault has been logged, the error code together with the date and time of the occurrence are displayed. There are 5 possible selections:</p>
<p>1. NAV</p>	<p>Navigation Control Module faults.</p>
<p>2. DISPLAY</p>	<p>Display/Control Panel faults.</p>
<p>3. GPS</p>	<p>Global Position System faults.</p>
<p>4. CD-ROM</p>	<p>Faults with the CD or Driver</p>
<p>5. VICS</p>	<p>Japanese Market ONLY</p>

d. NAV Diagnosis Menu	Allows monitoring of the system signals in real time (built-in datalogger). There are 5 screens available:
1. Program	Displays the current version of the Map area - e.g., UK, Japan, Germany, etc. This is also the menu to be accessed when upgrading or changing the system software version (NOT Map Version).
2. GPS Information	Will show information regarding the number of satellite signals being captured at that moment; the latitude and longitude at which the satellites are positioned; aerial status.
3. RGB Signal	Shows a color bar so that the RGB signals may be checked
4. Vehicle Signal	In this screen the vehicle's road speed is displayed; the gyro voltage (determines rotation/turns) may also be monitored. Also shows direction of travel - if vehicle is in reverse gear, screen will show '1'.
5. VICS Diag	Japanese Market ONLY

e. Connections Information	This screen indicates which Options are deemed to be available. The availability of an option is determined on the initial communication attempt to the components; if a failure in communication to a component occurs the words 'Not Available' will be displayed adjacent to the component.
TV & VICS	Japanese Market ONLY.
VEMS	North American Market ONLY. Is hard-wired to the Navigation System, hence Open Circuit to the VEMS would indicate 'Not Available'. Only available with the Deluxe Communications Package.
Traffic Info	UK & German Market ONLY. If Nav CM does not connect with "Traffic Master", then 'Not Available' is displayed.

f. Adjust Position	Allows the system to re-calibrate to a new position following the vehicle being transported over a long distance.
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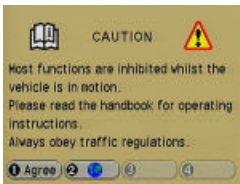
To Exit:	To Exit the Diagnostic screens, turn the ignition 'Off'. When the ignition is next turned 'On' the Navigation System will revert to normal customer use condition.
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On the following 3 pages there are illustrations of the Diagnosis Menu screens that may be accessed. Note that although the normal user display may be selected in several languages, the majority of the Diagnostic Menu screens are displayed in English ONLY. Certain TV and VICS Diagnostic screens, applicable to the Japanese Market only, are in Japanese, not English.

Initial Screen



Caution



F3→F4
 →F3→F4
 →F3→F4
 →ENTER
 →ENTER
 →ENTER

Diagnosis Menu

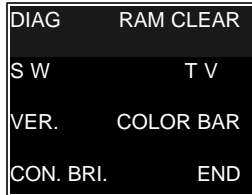


System Inspection



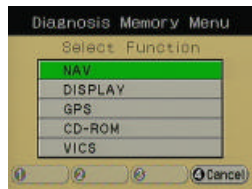
Performs a system inspection and displays the results

Display Inspection Menu



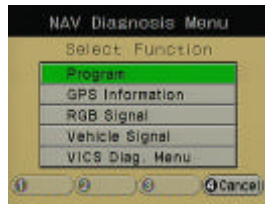
Inspects TV picture quality and switches (Japan ONLY)
 Illustrations of these screens are not available.

Diagnosis Memory Menu



Displays data in each diagnosis memory

NAV Diagnosis Menu



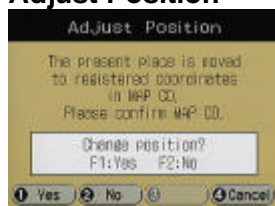
Displays status of each navigation unit

Connections Information



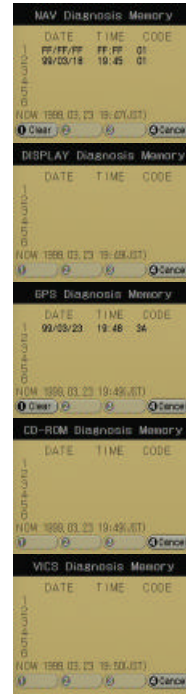
Displays the availability of options

Adjust Position



Adjusts (calibrates) the current geographical location.

MENU



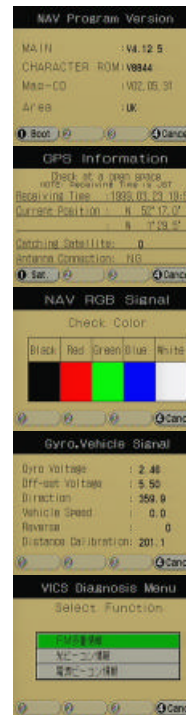
Displays data in the Navigation System

Displays data in the Display Diagnosis Memory

Displays data in the GPS Diagnosis Memory

Displays data in the CD-ROM diagnosis memory

Displays data in the VICS diagnosis memory (Japan ONLY)



Displays the version of the navigation program

Displays the GPS and satellite status

Inspects the RGB signals in the navigation unit

Displays the gyro sensor and vehicle signals

Displays the VICS receiving status (Japan ONLY)

DIAGNOSIS CODES

The diagnosis codes listed on the following tables can be displayed on the System Inspection screen and/or on the Diagnosis Memory screen. (The "System Inspection" and "Diagnosis Memory" columns in the table below show their availability on respective screens). The table also shows the status of the FAIL LED (to the left of the information key) associated with the output of each diagnosis code.

1. Display Unit

Diagnosis Code	Diagnosed Item	Message	Corrective Action	System Inspection	Diagnosis Memory	Fail LED	
50	No connection between the Navigation CM and Display/ Control Panel	The attempt to make an initial communication failed	<ul style="list-style-type: none"> • Check the connector • Check the wiring harness • Check the Navigation CM 	O	-	OFF	
51	Communication error	Error in communication between the Display/Control	CM	O	-	ON	
52	(Navigation CM)	Panel and Navigation CM		O	-	ON	
61	ROM abnormality	Error detected by check sum test		Check the Display/Control Panel	O	-	OFF
62	RAM abnormality	A part of the RAM cannot be accessed to read or write	O		-	OFF	
71	Back light abnormality (1)	The back light bulb has failed (no current)	O		O	ON	
74	Back light abnormality (2)	Overcurrent to back light (abnormality in back light power supply)	O		O	ON	
76	Abnormally high temperature	Abnormally high temperature within the Display/Control panel	O		O	ON	
77	Backup memory abnormality	Abnormality in the backup memory	-		O	OFF	
78	Abnormality in the "i" switch	The contact of the "i" button remains continuously closed for 30 seconds or longer.	O		O	ON	
84	+B disconnection	Abnormality in the +B power supply	<ul style="list-style-type: none"> • Check the wiring harness • Check the Display/ Control Panel 		O	O	OFF
C1	Synchronization signal abnormality (Navigation CM)	Abnormality in the Navigation CM synchronization signal	<ul style="list-style-type: none"> • Check the wiring harness • Check the Navigation CM 		O	O	ON

2. Navigation CM

Diagnosis Code	Diagnosed Item	Message	Corrective Action	System Inspection	Diagnosis Memory	Fail LED
00	ROM abnormality	Error detected by check sum test	Check the Navigation CM	O	-	OFF
01	Backup memory abnormality	The check-sum before IG-OFF and the check-sum before IG-OFF are different	Check the Navigation CM (except after booting)	-	O	
03	Vehicle speed pulse abnormality	Abnormality in the vehicle speed signal (0 km/h)	<ul style="list-style-type: none"> • Check the connector • Check the wiring harness • Check the Navigation CM 	-	O	OFF
25	SCP communication error	The attempt to make a communication from the vehicle has failed (no signal received)	<ul style="list-style-type: none"> • Check the connector • Check the wiring harness • Check the Navigation CM 	O	O	OFF
26	No response from VEMS	Commands supporting the VEMS drivers cannot be executed	<ul style="list-style-type: none"> • Check the VEMS • Check the wiring harness 	-	O	ON
27	Communication error	Error in communication between the Navigation CM and TrafficMaster	<ul style="list-style-type: none"> • Check the wiring harness • Check TrafficMaster * 	O	O	OFF
28		Error in communication between the Navigation CM and Display/ Control Panel	<ul style="list-style-type: none"> • Check the connector • Check the wiring harness 	-	O	ON
29	Display/Control Panel disconnected	The attempt to make an initial communication failed	<ul style="list-style-type: none"> • Check the Display/ Control Panel 	-	O	OFF
30	Gyro abnormality	Abnormality in the gyro	Check the Navigation CM (Gyro system)	-	O	OFF
31	GPS receiver abnormality	Abnormality in the GPS receiver	Check the Navigation CM (GPS receiver)	O	O	OFF
3A	GPS antenna contact disconnected or short-circuited	GPS antenna contact open or short-circuited	<ul style="list-style-type: none"> • Check the connection of the GPS antenna • Check the GPS antenna 	O	O	OFF
A1	Abnormal temperature in the CD pickup	Abnormally high temperature in the CD player	Check the Navigation CM (CD player)	-	O	ON

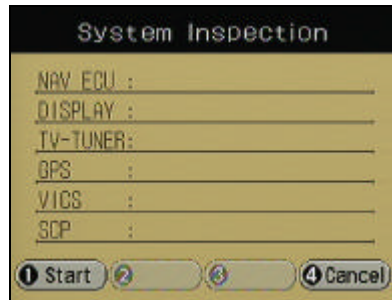
2. Navigation CM (Continued)

Diagnosis Code	Diagnosed Item	Message	Corrective Action	System Inspection	Diagnosis Memory	Fail LED
A2	No disk	No map CD is inserted into the player	Insert a map CD	-	O	OFF
A3	Wrong disk	A wrong CD has been inserted into the player	Replace a map CD	-	O	OFF
A4	CD read error	Data cannot be read from the map CD	<ul style="list-style-type: none"> • Replace the map CD • Check the Navigation CM (CD player) 	-	O	OFF

* TrafficMaster feature will apply in UK and Germany ONLY.

Note 1: On the System Inspection screen

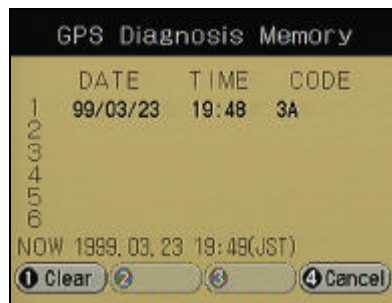
Diagnosis codes marked 'O' in the table above may be displayed



← Diagnosis codes and output date/time

Note 2: On the Diagnosis Memory menu

Diagnosis codes marked 'O' in the table above may be displayed



← Diagnosis codes and output date/time

Note 3: Fail LED

Lights up when an abnormality is detected

TROUBLESHOOTING FLOWCHARTS

Prior to following the flowcharts ensure that normal diagnostics have been carried out using PDU.

CHART 1

UNABLE TO INSERT OR EJECT THE MAP CD

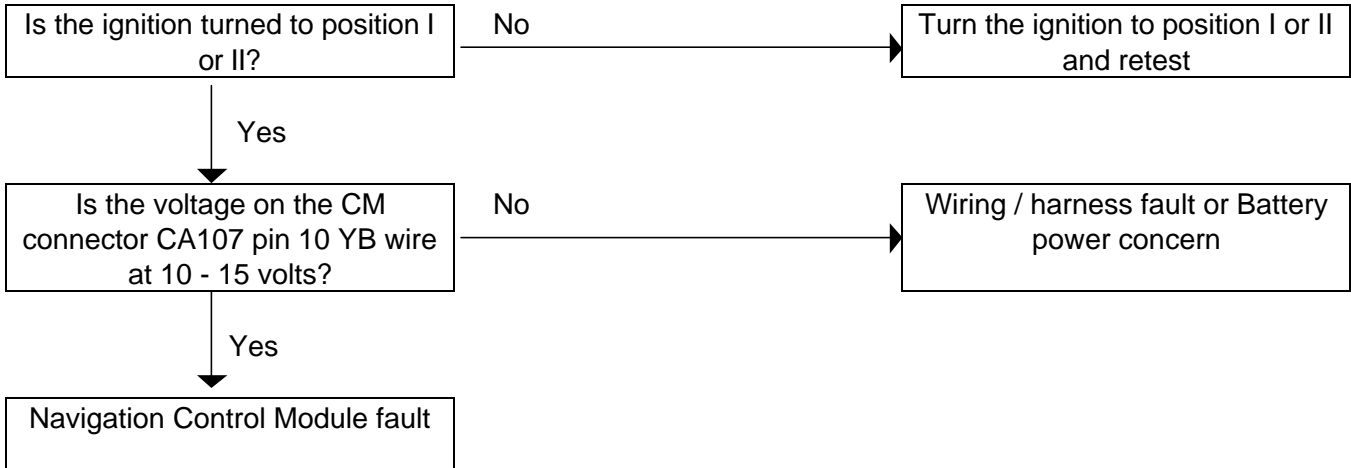


CHART 2

CURRENT POSITION MARKER DOES NOT MOVE

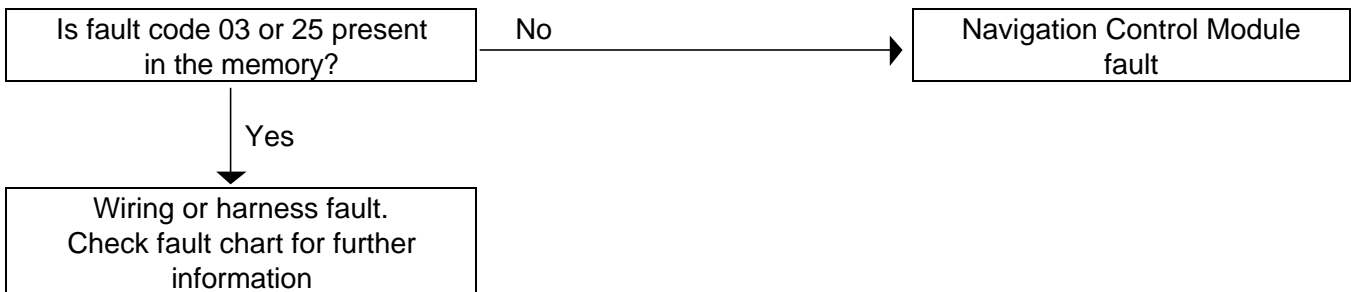


CHART 3

RH / LH TURNS NOT RECOGNIZED

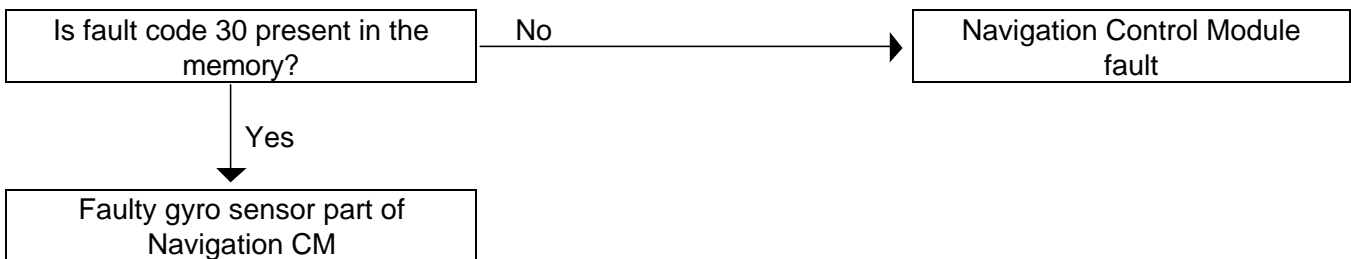


CHART 4

**GPS SIGNAL CANNOT
BE RECEIVED**

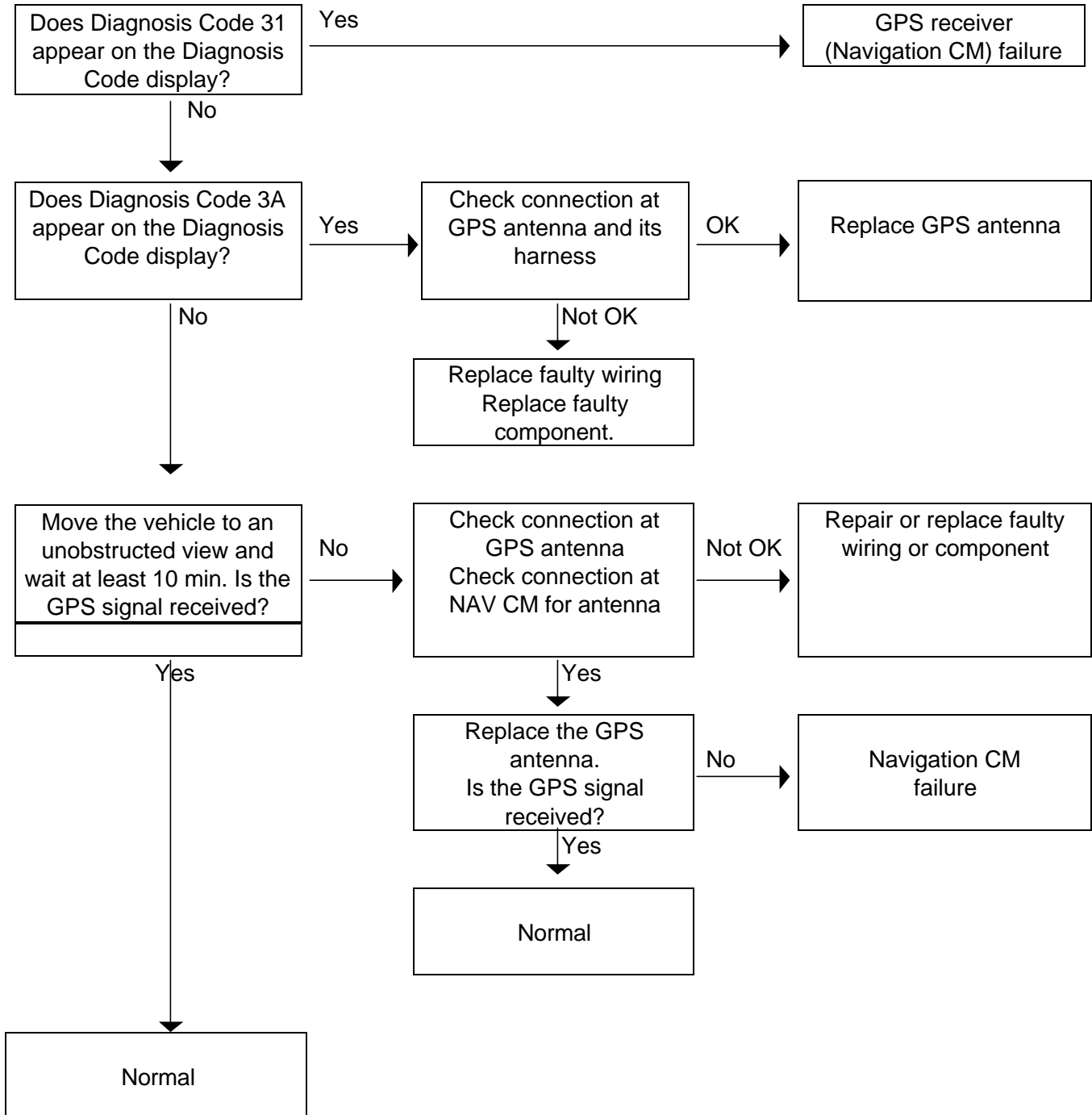
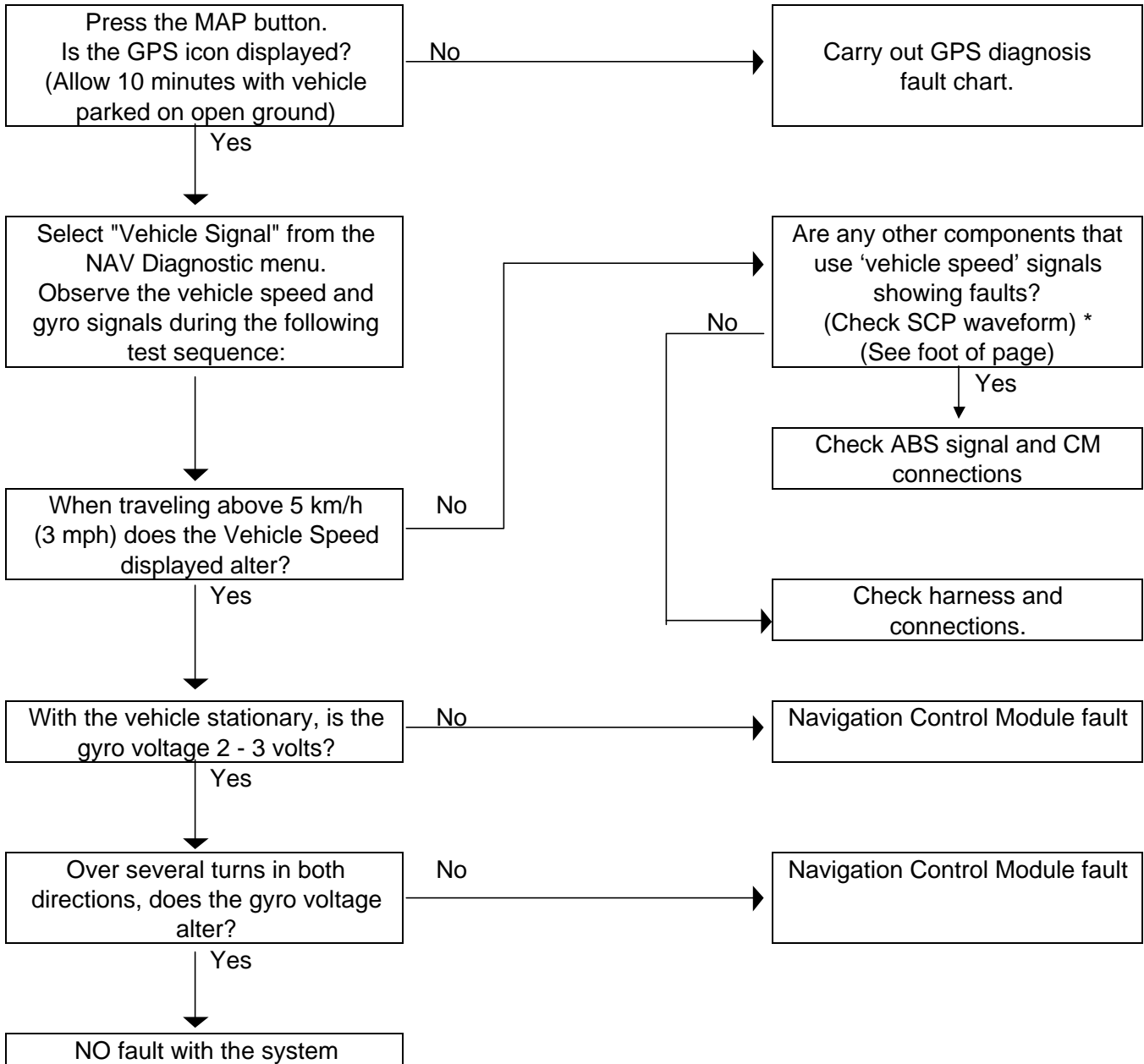


CHART 5

"CURRENT POSITION" CURSOR DOES NOT TRAVEL ON THE ROAD



SCP Line Inspection *

If an oscilloscope is available, check whether the waveforms illustrated are present or not.

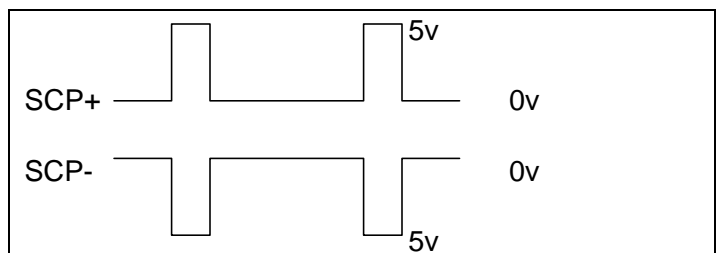


CHART 6

AUDIO GUIDANCE MISSING

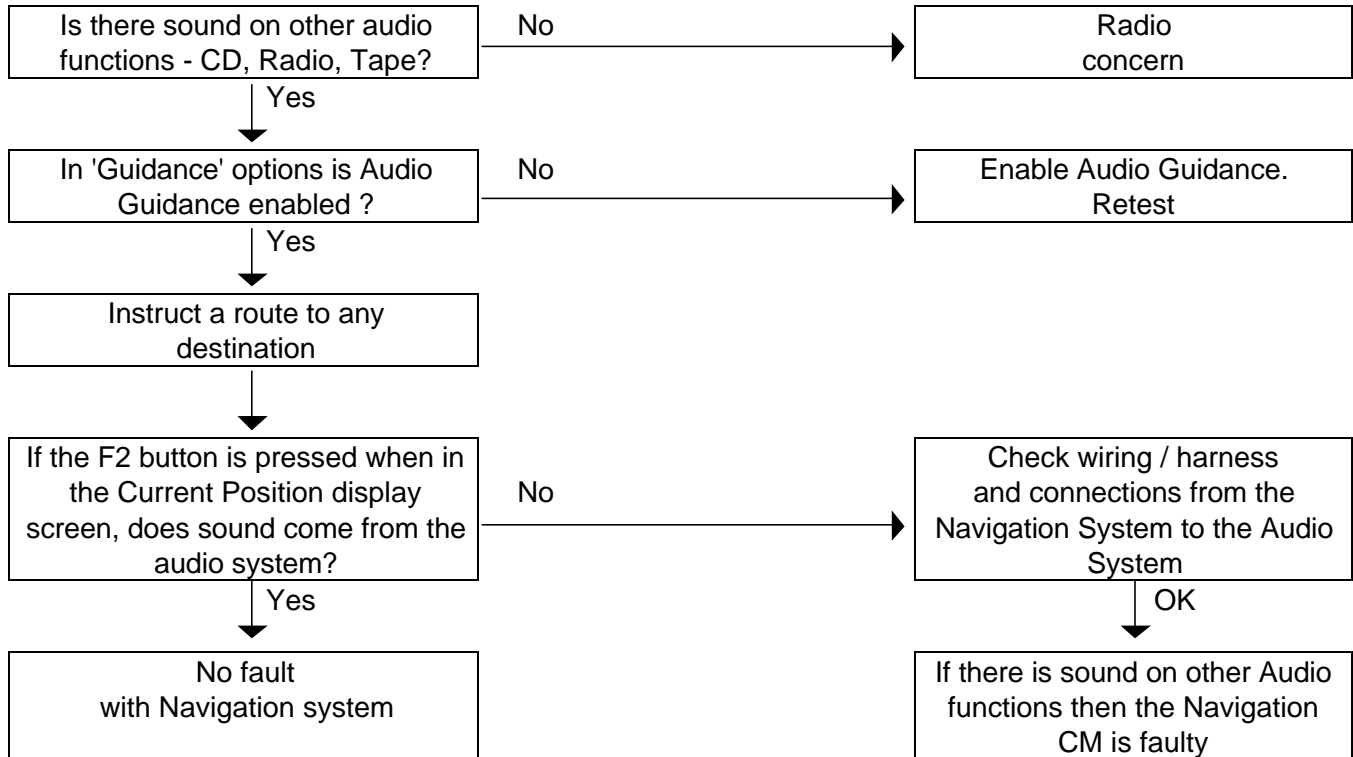


CHART 7

NO DISPLAY / DARK DISPLAY

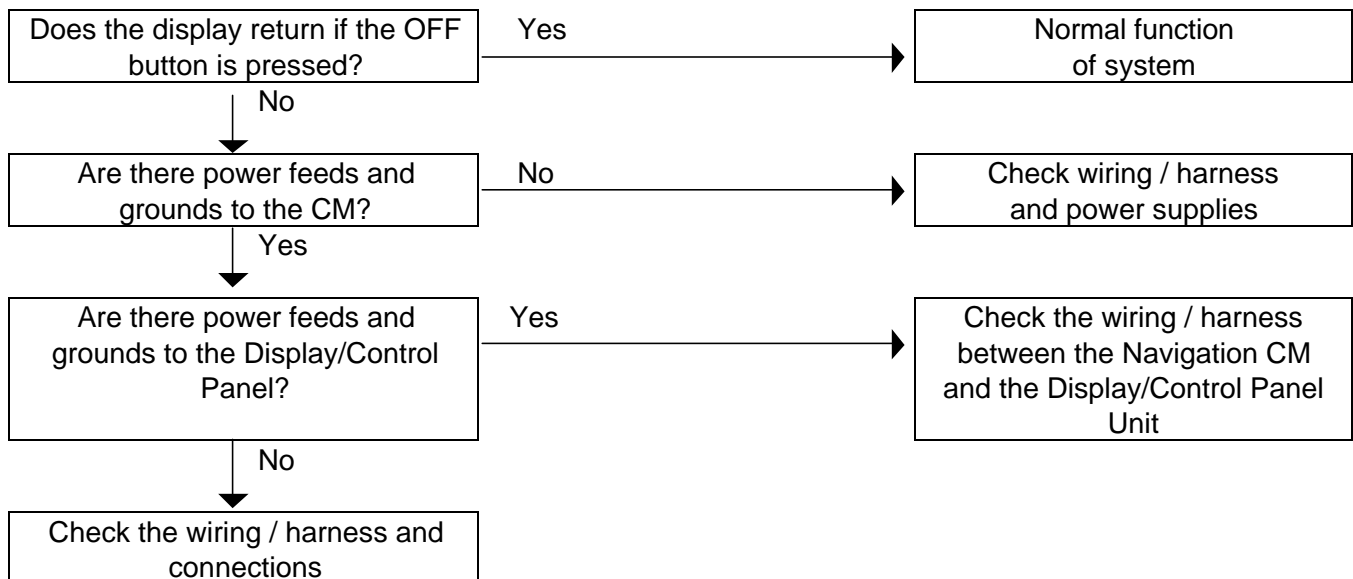
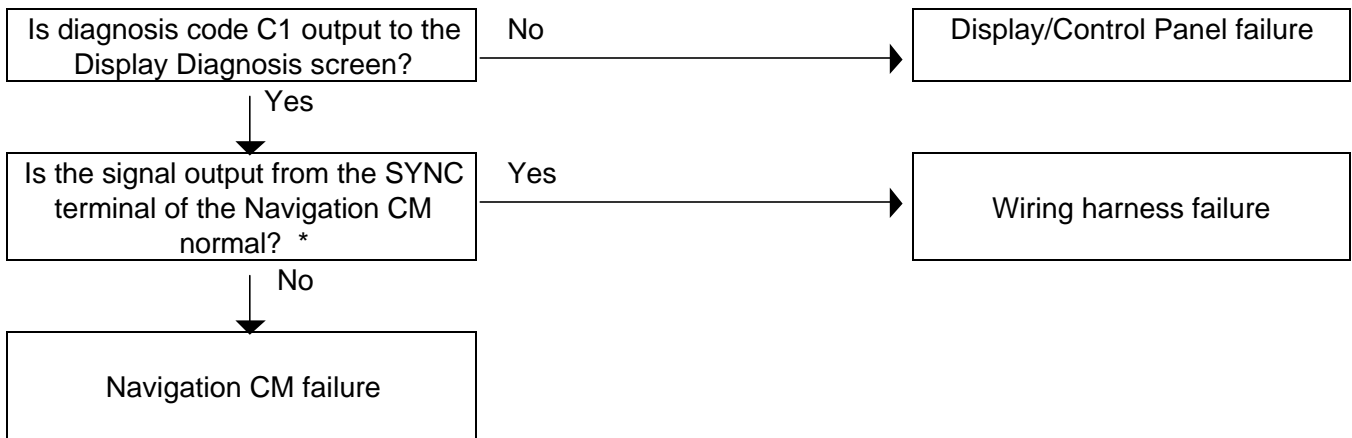
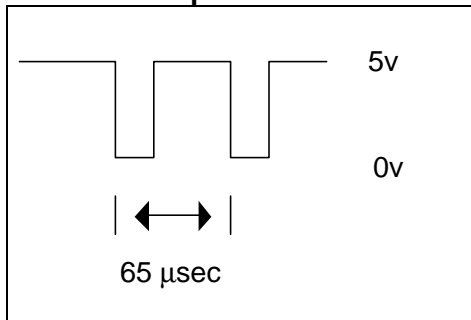


CHART 8

IMAGES APPEAR DISTURBED



*** SYNC Output Waveform**



If an oscilloscope is available, check whether the waveforms illustrated are present or not.

CHART 9

**ONLY THE MAP DISPLAY
IS UNAVAILABLE**

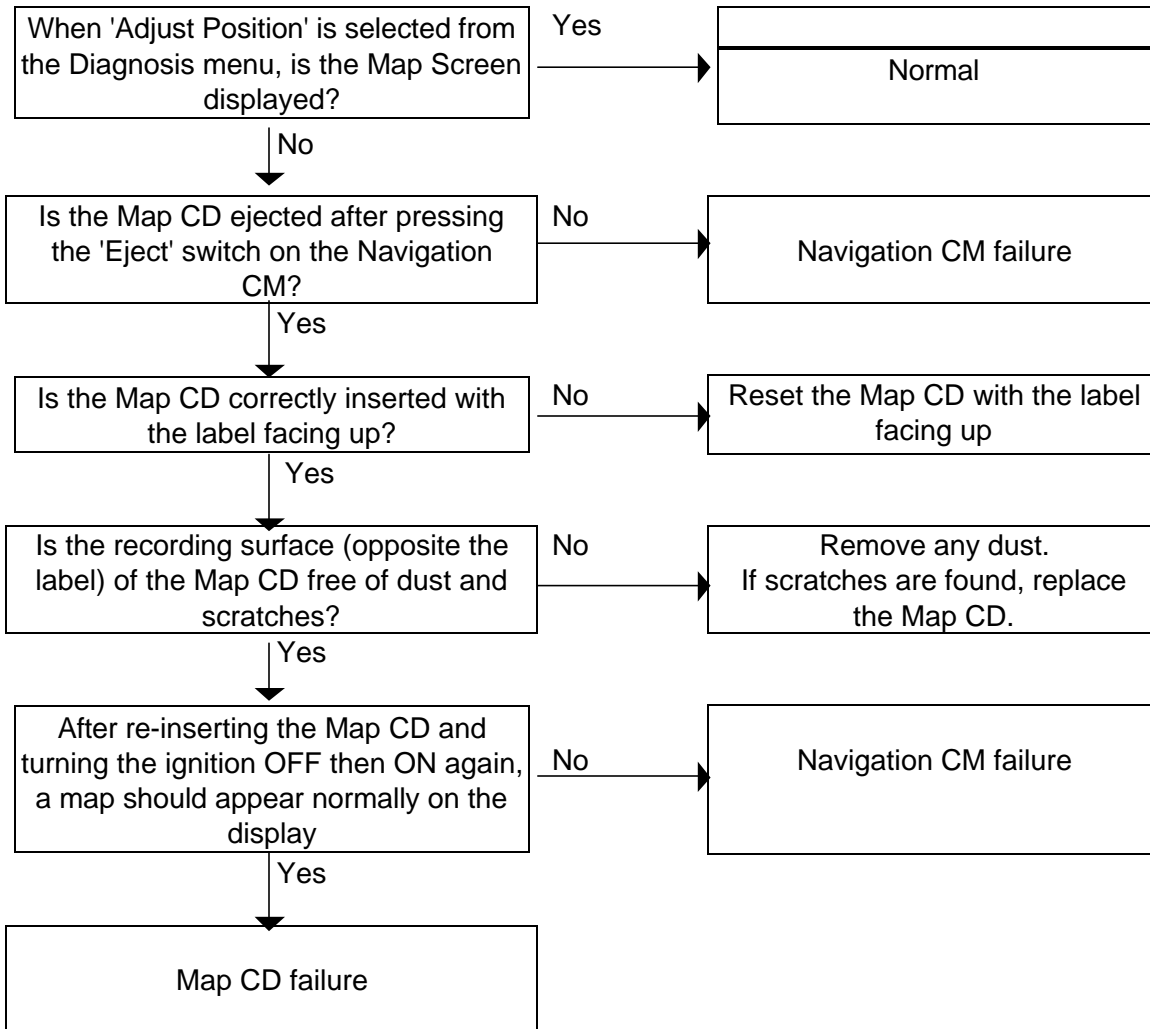
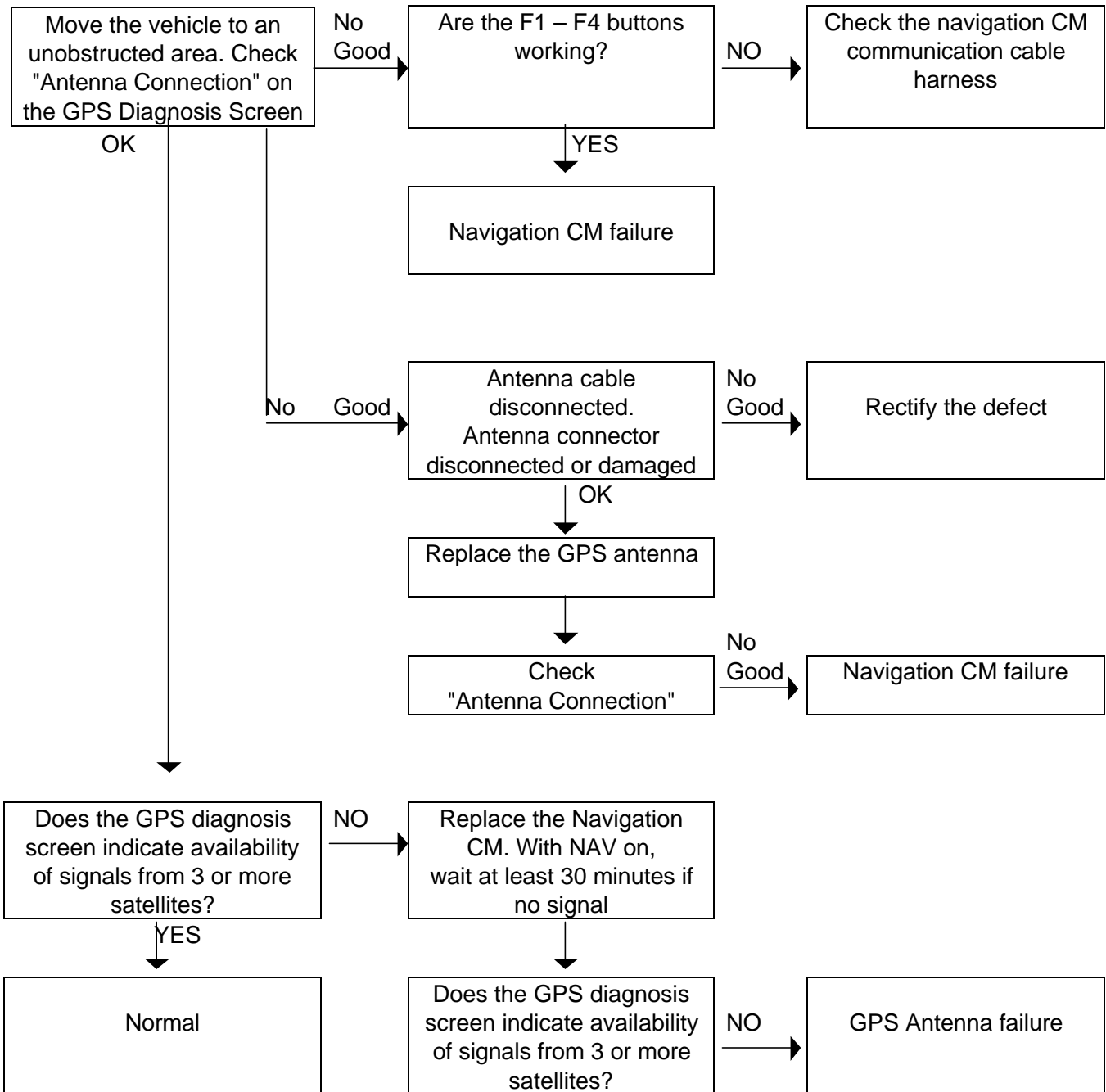
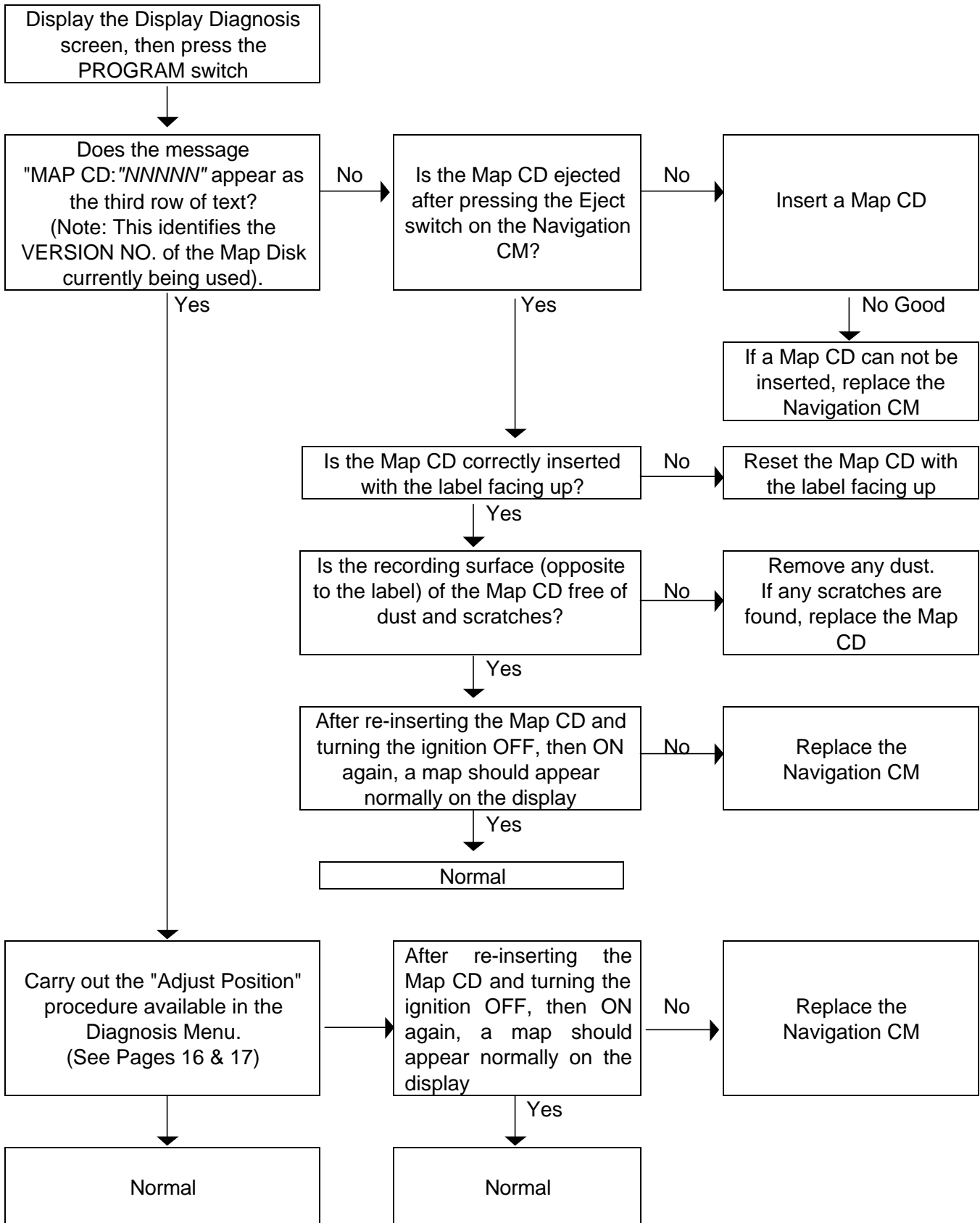


CHART 10

GPS DOES NOT DISPLAY THE CURRENT POSITION MARKER



Procedure to be followed after identification of Navigation CM failure:



DISPLAY - STRANGE COLORS or UNSTEADY DISPLAY

Should the screen display strange colors, or the display is unsteady, a fault with the R, G, B or SYNCHRO signals is to be suspected. There are no tests that can be carried out on the hardware. If, after checking the harness for short circuits and continuity, the fault has not been rectified, call Dealer Technical Support for further assistance.

“ADJUST POSITION” PROCEDURE

The Navigation System may be confused as to the geographic location of the vehicle following long-distance transportation, such as inside a car ferry or ship's hold. The system will normally recognize its location after a few minutes of operation, with the appropriate map disk in use, if driven on open roads. If driven rapidly from a ship into an enclosed building, the system may be unable to 'see' three satellites for sufficient time to enable it to determine the current location. In such situations, the following procedures provide a means of providing the system with specific details of the current location of the vehicle.

Note: This procedure will locate the vehicle to the default city on the map CD being used.

- | | | | | | |
|-------|-------------|-------|------------|-------|---------------|
| MCA 1 | Los Angeles | MCA 4 | Houston | MCA 7 | New York City |
| MCA 2 | Phoenix | MCA 5 | Chicago | MCA 8 | Washington DC |
| MCA 3 | Kansas City | MCA 6 | Pittsburgh | MCA 9 | Atlanta |

<u>ADJUST POSITION FROM DIAGNOSIS MENU</u>	<u>ADJUST POSITION FROM MAIN MENU (DEALER POINT OF INTEREST)</u>
<ul style="list-style-type: none"> • Ignition ON • Slide open the CD-ROM cover • Insert the appropriate Map Disk • Close the CD-ROM cover • From the CAUTION screen, input the access code sequence (Refer to Page 1 - Access to the Diagnostic Menu - Step 4) • Select ADJUST POSITION • Press F1 • Switch ignition OFF • Switch ignition ON • At the CAUTION screen, select F1 • Select F1, MAIN MENU • Select SET UP • Select CALIBRATION 	<ul style="list-style-type: none"> • Ignition ON • Slide open the CD-ROM cover • Insert the appropriate Map Disk • Close the CD-ROM cover • At the CAUTION screen, select F1 • Select F1, MAIN MENU • Select F1, Enter DESTINATION • Select a Point of Interest / Town Center • Select F2, CLASS • Select JAGUAR DEALER • Select F1, LIST • Select DEALERSHIP and press <ENTER> • Press MAP • Select F1, MAIN MENU • Select SET UP • Select CALIBRATION • Select F1, RELOCATE

**RELOCATION FROM MAIN MENU
(NO DEALER POINT OF INTEREST)**

- Ignition ON
- Slide open the CD-ROM cover
- Insert the appropriate Map Disk
- Close the CD-ROM cover
- At the CAUTION screen, select F1
- Select F1, MAIN MENU
- Select F1, Enter DESTINATION
- Select F2, ADDRESS
- Enter Address of present location and press <ENTER>
- Select HOUSE NUMBER of present location and press <ENTER>
- Select TOWN of present location and press <ENTER>
- Press MAP
- Select F1, MAIN MENU
- Select SET UP
- Select CALIBRATION
- Select F1, RELOCATE

FAULT REPORTING:

If it is necessary to contact the Technical Hotline, make a photocopy of the attached Navigation Fault Report Sheet and fill in or check the boxes with all appropriate details prior to making contact. The Technical Hotline may request you to send the completed form by FAX.

Navigation Exchange Program

Product Problem Report



In order to assist in the verification of a failure/malfunction, during warranty testing, please complete ALL sections of this form and enclose with the failed unit upon return.

(Fill in BOTH sections completely)

Dealer Name	Vehicle Identification Number (VIN) <small>Enter 17 digits</small>	Repair Mileage	In Service Date (mm/dd/yy)																							
Repair Date (mm/dd/yy)	Tech Hotline Case # (if applicable)	Dealer Code	Warranty Claim #																							
JAGUAR Part Number (from failed unit) Part Replaced: <input type="checkbox"/> NCM <input type="checkbox"/> DISPLAY	JAGUAR CD-ROM Part Number <small>(if NCM is replaced)</small>	Additional Part Replacement <input type="checkbox"/> GPS ANTENNA <input type="checkbox"/> VECM <input type="checkbox"/> AUDIO/STEREO <input type="checkbox"/> ABS/TCCM <input type="checkbox"/> OTHER (list) _____																								
Customer Complaint Description _____ _____ _____			Can the described problem be duplicated? <input type="checkbox"/> YES <input type="checkbox"/> NO																							
Location <input type="checkbox"/> Suburb <input type="checkbox"/> Rural Area <input type="checkbox"/> City Country _____ State _____	Frequency of Occurrence <small>(check one)</small> <input type="checkbox"/> Intermittent <input type="checkbox"/> Always	Time or Day <input type="checkbox"/> Daytime <input type="checkbox"/> Evening	Humidity <input type="checkbox"/> Dry <input type="checkbox"/> Humid <input type="checkbox"/> Very Humid <input type="checkbox"/> Rain <input type="checkbox"/> All Conditions																							
Horizon (check one) <input type="checkbox"/> LOW (open area) <input type="checkbox"/> Limited (tall buildings, structures, etc.)	Vehicle Speed <input type="checkbox"/> At rest <input type="checkbox"/> In motion (____mph, kph)	Engine <input type="checkbox"/> ON <input type="checkbox"/> OFF	Ambient Temperature _____ (°F)																							
Vehicle Accessories (check all that apply)			System Reset Does system reset automatically? <input type="checkbox"/> YES <input type="checkbox"/> NO If 'YES' within ____ min(s). Does system reset by other methods; control switch, ignition on/off, etc.? Describe _____ _____																							
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 10%; text-align: center;"><small>Factory</small></td> <td style="width: 10%; text-align: center;"><small>Aftermarket</small></td> <td style="width: 25%;"></td> <td style="width: 10%; text-align: center;"><small>Factory</small></td> <td style="width: 10%; text-align: center;"><small>Aftermarket</small></td> </tr> <tr> <td>Alarm</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Radar Detector</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Cellular Phone</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Rear Window Tint</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Laptop Computer</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Remote Starter</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>					<small>Factory</small>	<small>Aftermarket</small>		<small>Factory</small>	<small>Aftermarket</small>	Alarm	<input type="checkbox"/>	<input type="checkbox"/>	Radar Detector	N/A	<input type="checkbox"/>	Cellular Phone	<input type="checkbox"/>	<input type="checkbox"/>	Rear Window Tint	<input type="checkbox"/>	<input type="checkbox"/>	Laptop Computer	N/A	<input type="checkbox"/>	Remote Starter	N/A
	<small>Factory</small>	<small>Aftermarket</small>		<small>Factory</small>	<small>Aftermarket</small>																					
Alarm	<input type="checkbox"/>	<input type="checkbox"/>	Radar Detector	N/A	<input type="checkbox"/>																					
Cellular Phone	<input type="checkbox"/>	<input type="checkbox"/>	Rear Window Tint	<input type="checkbox"/>	<input type="checkbox"/>																					
Laptop Computer	N/A	<input type="checkbox"/>	Remote Starter	N/A	<input type="checkbox"/>																					

Technician's Name (Print) _____

<p>DISPLAY (check all that apply)</p> <p>Vehicle headlights are ¹ <input type="checkbox"/> ON ² <input type="checkbox"/> OFF</p> <p>³ <input type="checkbox"/> Brightness varies ³³ <input type="checkbox"/> No display</p> <p>⁴ <input type="checkbox"/> Bright or dark spot ³⁴ <input type="checkbox"/> Dark</p> <p>⁵ <input type="checkbox"/> Bright ³⁵ <input type="checkbox"/> All black</p> <p>⁶ <input type="checkbox"/> All white ³⁶ <input type="checkbox"/> Color</p> <p>Indicate which Display</p> <p>⁸ <input type="checkbox"/> NAV ⁹ <input type="checkbox"/> ¹⁰ <input type="checkbox"/></p> <p>¹¹ <input type="checkbox"/> 'i' switch LED always off?</p> <p>¹² <input type="checkbox"/> 'i' switch LED always on?</p> <p>¹³ <input type="checkbox"/> Out of sync (horizontal/vertical)</p> <p>¹⁴ <input type="checkbox"/> Contrast in coloring</p> <p>¹⁵ <input type="checkbox"/> Switch does not function (select)</p> <p>¹⁶ <input type="checkbox"/> F1 ¹⁹ <input type="checkbox"/> F4 ²² <input type="checkbox"/> '+' ²⁵ <input type="checkbox"/> OFF</p> <p>¹⁷ <input type="checkbox"/> F2 ²⁰ <input type="checkbox"/> Enter ²³ <input type="checkbox"/> '-' ²⁶ <input type="checkbox"/> Cursor</p> <p>¹⁸ <input type="checkbox"/> F3 ²¹ <input type="checkbox"/> Map ²⁴ <input type="checkbox"/> 'i'</p> <p>²⁷ <input type="checkbox"/> Lines in screen</p> <p>²⁸ <input type="checkbox"/> Drifts ²⁹ <input type="checkbox"/> Poor focus</p> <p>³⁰ <input type="checkbox"/> Other _____</p> <p>'Beep' emitted when keys are depressed?</p> <p>³¹ <input type="checkbox"/> YES ³² <input type="checkbox"/> NO</p>	<p>PROGRAM / NCM (check all that apply)</p> <p>Cursor</p> <p>³⁷ <input type="checkbox"/> Shifts (jumps) during turns</p> <p>³⁸ <input type="checkbox"/> Continuously shifts (jumps)</p> <p>³⁹ <input type="checkbox"/> Continuously rotates</p> <p>⁴⁰ <input type="checkbox"/> Shifts gradually on a straight line</p> <p>⁴¹ <input type="checkbox"/> Does not match the road driven</p> <p>⁴² <input type="checkbox"/> GPS icon does not appear on display</p> <p>⁴³ <input type="checkbox"/> Display does not change (frozen)</p> <p>⁴⁴ <input type="checkbox"/> While driving straight, cursor goes straight</p> <p>⁴⁵ <input type="checkbox"/> Cursor skips</p> <p>⁴⁶ <input type="checkbox"/> Route guidance error</p> <p>⁴⁷ <input type="checkbox"/> Voice guidance error</p> <p>⁴⁸ <input type="checkbox"/> Map error</p> <p>⁴⁹ <input type="checkbox"/> Other _____</p>	<p>AUDIO (Check all that apply)</p> <p>Voice Guidance Symptoms</p> <p>⁵⁰ <input type="checkbox"/> No sound (all speakers)</p> <p>⁵¹ <input type="checkbox"/> Static</p> <p>⁵² <input type="checkbox"/> Sound cuts in and out</p> <p>⁵³ <input type="checkbox"/> Background noise</p> <p>⁵⁴ <input type="checkbox"/> Sound distorted</p> <p>⁵⁵ <input type="checkbox"/> Sound fades in and out</p> <p>⁵⁶ <input type="checkbox"/> Weak sound</p> <p>Course Route</p> <p>Route and location where malfunction in the voice instruction occurred.</p> <p>Location _____</p> <p>Starting point _____</p> <p>Target point _____</p>
<p>System Inspection (Diagnostic Code Displayed)</p> <p>GPS _____</p> <p>NCM _____</p> <p>DISPLAY _____</p> <p>CD-ROM _____</p> <p>SCP _____</p> <p>VECM _____</p>		

NOTE: Submission of an incomplete form OR failure to enclose a completed form with the returned unit MAY RESULT IN THE NON-PAYMENT OF THE WARRANTY CLAIM.