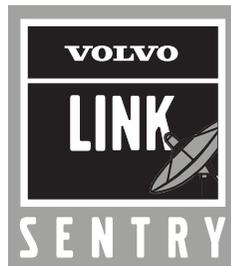


Driver's Handbook

Volvo Link Communication System
9700 US/Can



VOLVO

Foreword

This manual contains information concerning the operation and function of the Volvo Link System. The information in this manual applies to vehicles built January 2009 and later. Please keep this manual in the vehicle at all times.

Note: Illustrations in this manual are used for reference only and may differ slightly from the actual vehicle. However, key components addressed in this document are represented as accurately as possible.

Volvo Bus Corporation

Göteborg, Sweden

Order number: PV776-88914876

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Safety Information

IMPORTANT: Before driving this vehicle, be certain that you have read and that you fully understand each and every step of the driving and handling information in this manual. Be certain that you fully understand and follow all safety warnings.

IT IS IMPORTANT THAT THE FOLLOWING INFORMATION BE READ, UNDERSTOOD AND ALWAYS FOLLOWED.

The following types of advisories are used throughout this manual:



DANGER

Danger indicates an unsafe practice that could result in serious personal injury or death. A danger advisory banner is in **white** type on a **black** background with a **black** border.



WARNING

Warning indicates an unsafe practice that could result in personal injury. A warning advisory banner is in **black** type on a **gray** background with a **black** border.



CAUTION

Caution indicates an unsafe practice that could result in damage to the product. A caution advisory is in **black** type on a **white** background with a **black** border.

Note: Note indicates a procedure, practice, or condition that must be followed in order for the vehicle or component to function in the manner intended.

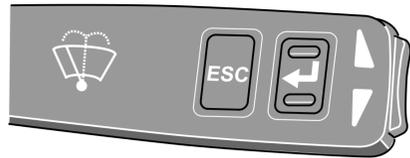
System Information

The Volvo Link System provides satellite communication between the driver and the fleet operator. It includes a satellite communication ECU, GPS antenna, VHF antenna, and wiring harnesses. This system allows communication between Volvo's web-based software and the vehicle. The driver can send and receive short text messages, which are visible through the Driver Information Display (DID) in the vehicle instrument cluster. The fleet operator can communicate with the driver through Volvo's web-based software. The Volvo Link System also provides GPS data in the DID Gauges menu. This data indicates the location and direction the vehicle is travelling to the driver and fleet operator.

Stalk Switch Control Lever

The controls for the Driver Information Display (DID) in the instrument cluster are the four buttons in the stalk switch on the right side of the steering column.

- 1 **Esc** (Escape) is used to return to the previous menu and cancel a setting or operation.
- 2 ↵ (Enter) is used to select the highlighted area.
- 3 **Up** arrow moves the cursor up.
- 4 **Down** arrow moves the cursor down.



2 General Information

Using the Display

- 1 The Volvo Link system menu is in the DID. Press **Esc** to display the main menus in the DID.
- 2 Use the up and down buttons on the stalk switch to scroll to the Volvo Link menu.
- 3 Press **↓** to select the Volvo Link menu.
- 4 After selecting Volvo Link, another screen pops up, offering the choice to read messages, send messages, or view other information.
- 5 For instructions on reading and sending messages, or other information, refer to:
 - “Read Message” page 3
 - “Send Message” page 7
 - “Other Info” page 11

The following menus are available:

- 1 Read message
 - Quick Response (Only available if there is a message available.)
- 2 Send message
 - Driver & Equipment
 - Dispatch Messages
 - Free Text
- 3 Other Info
 - Comm Link Info
 - Mailbox Info
 - GPS Info
 - INI Info
 - Configuration Info

Fuel Data		
Time / Distance		
Aftertreatment		
Volvo Link		
	N 36.0811 W 79.9688	11:45 AM
	7658.8 mi	

W3007688

Volvo Link		
Read Message		
Send Message		
Other Info		
	N 36.0811 W 79.9688	11:45 AM
CC	7658.8 mi	

W3007689

Read Message

Incoming Message Notification

The fleet operator can send messages to the driver. When a message is received by the Volvo Link ECU, the driver is notified by the INFO lamp in the instrument cluster :



W3005150

and a message in the DID. One of the following two messages will appear:

New Message in Volvo Link											
<table border="1"> <tr> <td style="text-align: center;">W</td> <td style="text-align: center;">↑ N</td> <td style="text-align: center;">E</td> </tr> <tr> <td style="text-align: center;">S</td> <td style="text-align: center;">↓</td> <td></td> </tr> </table>	W	↑ N	E	S	↓		<table border="1"> <tr> <td>N 36.0811</td> </tr> <tr> <td>W 79.9688</td> </tr> </table>	N 36.0811	W 79.9688	<table border="1"> <tr> <td>11:45 AM</td> </tr> </table>	11:45 AM
W	↑ N	E									
S	↓										
N 36.0811											
W 79.9688											
11:45 AM											
CC		7658.8 mi									

W3007516

Priority Message in Volvo Link											
<table border="1"> <tr> <td style="text-align: center;">W</td> <td style="text-align: center;">↑ N</td> <td style="text-align: center;">E</td> </tr> <tr> <td style="text-align: center;">S</td> <td style="text-align: center;">↓</td> <td></td> </tr> </table>	W	↑ N	E	S	↓		<table border="1"> <tr> <td>N 36.0811</td> </tr> <tr> <td>W 79.9688</td> </tr> </table>	N 36.0811	W 79.9688	<table border="1"> <tr> <td>11:45 AM</td> </tr> </table>	11:45 AM
W	↑ N	E									
S	↓										
N 36.0811											
W 79.9688											
11:45 AM											
CC		7658.8 mi									

W3007517

Press **Esc** on the stalk switch when the message appears to turn off the INFO lamp and message.

4 General Information

Viewing Messages

To view all stored messages, select Volvo Link, then **Read message** in the DID.

Read Message	
Please call dispatcher	
*2	
CC	7658.8 mi

W3007530

*2 indicates there are two unread messages in the queue.

There are 2 types of messages: **Standard and Priority**.

When there are no stored messages, the following screen is displayed.

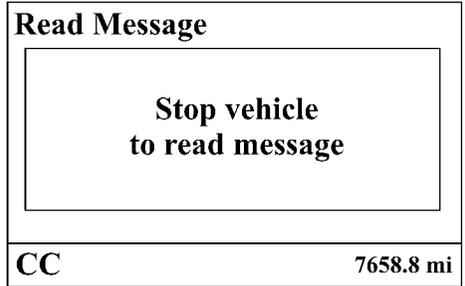
Read Message		
No messages available		
N ↑ W E ↓ S	N 36.0811 W 79.9688	11:45 AM
CC	7658.8 mi	

W3007518

Standard Messages

Standard messages **CANNOT** be read while driving.

If the driver tries to access a message while driving, the message: **Stop vehicle to read message** is displayed in the DID.



Priority Messages

The default set up for viewing **high priority messages** is **driving at 90 km/h (55 mph) or below**.

While the vehicle is moving, **ONLY** the last message received may be read.

6 General Information

Quick Response to Incoming Messages

While the message is displayed, press ↵ to access the Quick Response Menu.

The driver can send a Quick Response only to the most recent message in the queue if it was a priority message.

The Quick Response is the only reply that may be sent while driving.

The following Quick Response messages may be sent:

The driver has to confirm that he wants to send the message:

Sending Not Allowed is displayed when you attempt to send a Quick Response to an old message, if the Outbox is full, if there is no message, or if there is an antenna problem. You cannot send a Quick Response to an old message.

Read Message		
Yes/OK No Respond at Next Stop		
W ↑ E S	N 36.0811 W 79.9688	11:45 AM
CC		7658.8 mi

W3007519

Read Message		
Press ←↵ to send message or ESC to return to menu		
W ↑ E S	N 36.0811 W 79.9688	11:45 AM
CC		7658.8 mi

W3007619

Read Message		
Sending Not Allowed		
W ↑ E S	N 36.0811 W 79.9688	11:45 AM
CC		7658.8 mi

W3007682

Send Message

Sending Messages from the Vehicle

The driver can send messages to the fleet operator. Messages can be sent only when the vehicle is stopped. If the driver attempts to send a message while the vehicle is moving, the following message is displayed:

Send Message							
Stop vehicle to send message							
<table border="1"> <tr> <td style="text-align: center;">N</td> <td rowspan="2" style="text-align: center;">↑</td> <td style="text-align: center;">E</td> </tr> <tr> <td style="text-align: center;">W</td> <td style="text-align: center;">S</td> </tr> </table>	N	↑	E	W	S	N 36.0811 W 79.9688	11:45 AM
N	↑		E				
W		S					
CC		7658.8 mi					

W3007520

The driver can send three types of messages: Driver & Equipment, Dispatch Messages, and Free text. Scroll to **Send message** in the Volvo Link menu and press ↵.

Send Message							
Driver & Equipment Dispatch Messages Free Text							
<table border="1"> <tr> <td style="text-align: center;">N</td> <td rowspan="2" style="text-align: center;">↑</td> <td style="text-align: center;">E</td> </tr> <tr> <td style="text-align: center;">W</td> <td style="text-align: center;">S</td> </tr> </table>	N	↑	E	W	S	N 36.0811 W 79.9688	11:45 AM
N	↑		E				
W		S					
CC		7658.8 mi					

W3007521

8 General Information

The Driver & Equipment and Dispatch Messages menus contain standard messages.

Driver & Equipment

- Driver1:Start/Resume
- Driver2:Start/Resume
- Pre-Trip Check OK
- Stopped: On Duty
- Stopped: Off Duty
- Please Call Me ASAP
- Instructions Needed
- Breakdown: Stranded
- Breakdown: Driveable

Dispatch Messages

- Trip/Leg: Started
- Trip/Leg: Completed
- Status: Loaded
- Status: Deadhead
- Status: Bobtail
- Picked Up Load/Trailer
- Dropped Load/Trailer
- Stop-Off
- Will Deliver On Time
- Late: More Than 1 h
- Send Dispatch Info

To select a message, scroll to the message and press ↵. To send the message, press ↵. Press **Esc** to return to the menu.

Send Message		
Press ↵ to send message or ESC to return to menu		
N ↑ W E ↓ S	N 36.0811 W 79.9688	11:45 AM
CC		7658.8 mi

Free Text

Free text messages are sent as follows:

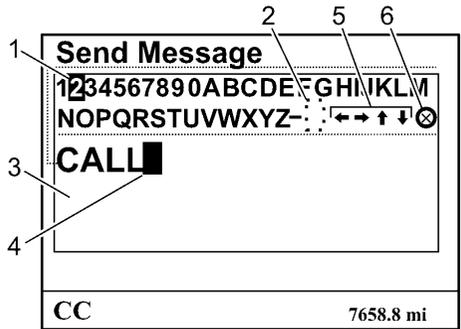
Use the stalk switch to scroll the cursor (see 1 in illustration) through the available characters. Press the UP arrow to move to the left and the DOWN arrow to move to the right. Once the cursor has highlighted the correct character, press ↵. Repeat for each character.

Hold the UP or DOWN arrow to quickly move the cursor through the available characters.

Use the message movement arrows (see 5 in illustration) to move the cursor (see 4 in illustration) in the message area.

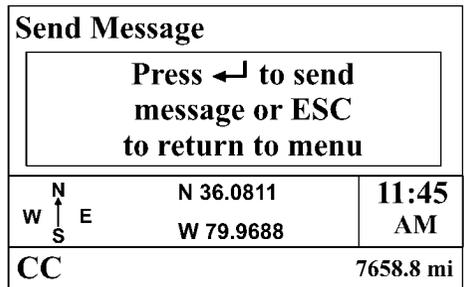
When finished with the message select X (see 6 in illustration), or press ↵ and hold for 3 seconds, to send the message.

Note: Press **Esc** to go back to the previous character. To cancel sending a typed message, press **Esc** until the message is cleared from the screen.



W3007522

- 1 Selection Cursor
- 2 Space
- 3 Message Area
- 4 Message Cursor
- 5 Message Movement Arrows
- 6 Send Icon



W3007605

10 General Information

After Message is Sent

After a message is sent, one of the following confirmations will appear on screen:

If **Message Placed In Outbox** is displayed, the message was received by the Volvo Link ECU and will be sent during the next satellite transmission.

If **Sending Not Allowed** is displayed, the message was **NOT** sent. The reason for this failure may be the system is busy or the output queue is full. Wait briefly and try sending the message again. If the error message persists, please contact your Volvo fleet operator.

Note: **Sending Not Allowed** is displayed if the Outbox is full or there is an antenna problem. Scroll to Mailbox Info and Comm Link Info screens for additional information.

If **No Subscription (800) 52-VOLVO US/CA (800) 90-94-900 MX** is displayed, the message was **NOT** sent. This indicates that messaging capabilities have not been activated or they have been disabled by the fleet. Please contact your Volvo fleet operator.

Send Message		
Message Placed In Outbox		
N ↑ W E ↓ S	N 36.0811 W 79.9688	11:45 AM
CC		7658.8 mi

W3007523

Send Message		
Sending Not Allowed		
N ↑ W E ↓ S	N 36.0811 W 79.9688	11:45 AM
CC		7658.8 mi

W3007524

Send Message		
No Subscription (800) 52-VOLVO US/CA (800) 90-94-900 MX		
N ↑ W E ↓ S	N 36.0811 W 79.9688	11:45 AM
CC		7658.8 mi

W3007740

Other Info

The **Other Info** menu displays general operational information about the Volvo Link System. Information includes:

- Comm Link Info
- Mailbox Info
- GPS Info
- INI Info
- Configuration Info

Use the stalk switch to scroll through each screen. To update the information in each screen, scroll to the next screen then return to the previous screen.

The **Comm Link Info** screens provide information about the satellite signal. **Sat in View** indicates the ID of the current communications satellite in view. **Gap**, if shown, represents the time in minutes since the last satellite was in view.

Comm Link Info		
Sat In View: 15		
	N 36.0811	11:45 AM
	W 79.9688	
	7658.8 mi	

W3007686

Comm Link Info		
Sat In View: None		
Gap: < 1 min		
	N 36.0811	11:45 AM
	W 79.9688	
	7658.8 mi	

W3007687

12 General Information

The **Mailbox Info** screen indicates the total number of messages sent and received. Also indicated is the number of messages currently in the outbox waiting to be transmitted and whether or not the outbox is full.

Mailbox Info Sent: 3 Received: 5 Outbox: 0		
	N 36.0811 W 79.9688	11:45 AM
	7658.8 mi	

W3007683

The **GPS Info** screen provides information about the GPS signal. It displays how many satellites are in view and the type of **Fix** (3D, 2D or No Fix). **Lat** is the current latitude. **Lon** is the current longitude.

GPS Info 7 Sats In View, 3D Fix Lat: N 36.0811 Lon: W 79.9688		
	N 36.0811 W 79.9688	11:45 AM
	7658.8 mi	

W3007772

The **INI Info** screen displays the current state of the ECU initialization (start-up) and the VIN Check status.

INI Info INI Sent: 1 VIN Check: OK		
	N 36.0811 W 79.9688	11:45 AM
	7658.8 mi	

W3007685

The **Configuration Info** screen indicates the status of active schedules and driver messaging. When schedules are enabled, the number of active schedules is also displayed.

Configuration Info Schedules Active: 2 Driver Messaging: On		
	N 36.0811 W 79.9688	11:45 AM
	7658.8 mi	

14 General Information

Satellite Message Icons

The following icon will be displayed if a GPS fix is not available.

GPS Inoperative Location Not Available		
	N 36.0811 W 79.9688	11:45 AM
	7658.8 mi	

W3007538

The following icon will be displayed if the satellite service is not available.

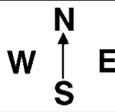
No Satellite Service Check Diagnostics Screens		
	N 36.0811 W 79.9688	11:45 AM
	7658.8 mi	

W3007606

Compass Gauge

Select **Gauges** in the DID main menu and scroll UP or DOWN to display the compass gauge.

If a GPS fix is not available, the gauge may or may not display the compass arrow, a latitude and longitude reading, a 0.0 or dashes latitude and longitude reading. Scroll to the **GPS Info** screen to check the GPS signal status.

Gauges		
	N 36.0811 W 79.9688	
	75°F	11:45 AM
CC	7658.8 mi	

Location

The location of the vehicle is displayed in degrees latitude and longitude. The top value shows the latitude. The bottom value shows the longitude.

Directional Arrow

The compass arrow shows the direction the vehicle is travelling. After the vehicle is stopped, the arrow stays pointed in the last direction of travel.

VOLVO

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