



## Using the MCP50

The DIU50 presents information by:

- Displaying it on the color touchscreen
- Playing an alert sound
- Reading text out loud

You provide it by tapping icons and buttons or characters on the virtual keypad.

### Understanding the Home Screen

The Home screen displays buttons that start applications. If a button is grayed out, that app is not available.



### The Home Screen while Moving



The unit can help maximize safety by helping minimize driver distraction. Unless two drivers are logged in, only four simplified applications are available. The only things a driver can do are:

- Listen to messages, but not read or write.
- See time remaining before a potential HOS violation.
- Follow turn-by-turn directions.
- Initiate a Critical Event Report.

## Activating the Hardware

At least one day before installation, someone in your organization must activate the VTM over the internet. The MCP50 needs this step to be able to connect with dispatch. Your installation is not complete until you verify it can send and receive information.

Each component has a Serial Number (SN) and a Verification Code on its label. Write down the VTM50 serial number. You may need to enter it during online activation.

4. Select the serial numbers of the VTMs planned for installation, then click **Add Selected Units**.
5. Click **Continue**. GO TO STEP 9.
6. Click **Enter Sets Manually** and key in the Serial Numbers you wrote down earlier.
7. Click **Validate & Add**.
8. Review the devices selected, then click **Continue**.
9. Click **Submit**. Units will be activated within 2 hours.

### Activating New Systems

1. Log in to Omnitracs Customer Portal at <https://customer.omnitracs.com>.
2. Click the **Activations** icon from the main page.
3. Click **Continue** under **System Activation**.

If Serial Numbers for the devices are on-screen, GO TO STEP 4. If not, GO TO STEP 6.

## Keeping Electronic Hours of Service Logs

### Logging in

1. From **Home**, tap **Driver Login**.
2. Tap **Keypad** to open the keypad
3. Enter Driver ID/password and leave status **Active**. (second driver logs in as inactive.)
4. Tap **OK**. Driver ID will be replaced by your name when login is successful.

### Changing Duty Status

When you log in, your duty status defaults to On Duty. HOS automatically captures driving time when vehicle is moving. You change duty status to Sleeper Berth or Off Duty as needed. Logging off sets your duty status to Off Duty automatically.

1. Within HOS, tap the **Status** tab.
2. Tap **Change**.
3. Tap your new status.

OFF=Off Duty | SB=Sleeper berth  
DRV=Driving | ON=On Duty

Your company may also use  
OFF-DRV=Off Duty Driving.

4. Enter remark, then tap **OK**.

### Reviewing-Editing-Approving Logs

1. From **Home**, tap **Hours of Service/MIR**.
2. Read message at top of screen. When logs are correct, tap **Approve**.
3. Review your logs. If a non-driving status needs to be corrected:
  - Tap status to correct and tap **Edit**.
  - Select new status, enter remarks, tap **OK**.
  - Enter Edit Reason, tap **OK**.
4. When you have no more changes, tap **Approve All**, then tap **OK**.

### Logging Out

1. From **Home**, tap **Driver Login**.
2. Tap your name, tap **Logout**, then **OK**.

## Installing the Hardware

### 1 Install the VTM50

1. Mount in dash with easy access to LED and connectors.
2. Secure with provided screws or dual-lock tape to prevent movement and vibration.

### 2 Install the Antenna

1. Mount horizontally on top of or in dash, with no metal obstructions above.
2. Secure with provided dual-lock tape. Arrow on side of the antenna faces up.
3. Connect color-coded connectors to VTM50.

### 3 Install the DIU50

1. Attach RAM mount to dash with backing plate.
2. Attach holster to RAM mount and insert DIU50 into holster.
3. Route cable to VTM50 and connect.
4. Secure cable with tie wraps.

### 4 Install the Power/IO Cable

1. Connect the Power/IO cable to the truck's diagnostic connector.
2. Connect IGN wire to ignition source.
3. Secure cabling with tie wraps.
4. Connect Power/IO dsusb to VTM50.
5. Loop and secure all excess cable.

For complete instructions, refer to the MCP50 Installation and Troubleshooting Guide (80-JB566-1).

### WARNING

Never connect the MCP50 display cable and the power cable directly to each other. Only connect these cables to the VTM.

Use of the MCP50 must not divert attention from road and traffic. Driving while distracted can lead to a serious accident.

Mount the display so that it does not interfere with the operation of the vehicle in any way.

Improper cable installation can interfere with the vehicle pedals or steering. This can cause a crash that results in serious injury or death.

Mount the cables so that they cannot interfere with the brake, accelerator, clutch, or steering wheel, EVEN IF THE TIE WRAPS FAIL.

## Obtaining Return Material Authorizations (RMAs)

Before removing a potentially defective component, consult the MCP50 Installation and Troubleshooting Guide (80-JB566-1).

You need the Serial Numbers of both the old and new units.

If you have a substitute VTM in stock, activate it and then install it the next day. If you have a substitute DIU in stock, just install it and it will automatically become updated. Initiate an RMA request afterward. If you do not have a substitute, initiate the RMA request first in order to obtain an Advance Replacement.

### Initiating an RMA Request

1. Log in to Omnitracs Customer Portal at <https://customer.omnitracs.com>.
2. Click the **Returns** icon.
3. Click **Continue** under **Initiate RMA**.
4. After you are issued an RMA number, a replacement will be shipped.
5. Return the defective device within 30 days.

## Verifying & Troubleshooting Installations

### System Verification

Make sure ignition is ON and the vehicle is parked with a clear view of sky.

1. From **Home**, tap right arrow, tap **System**, tap **Diag**, then tap **Run All**.



2. Confirm **✓** for Cellular Signal Strength, Cellular End to End, GPS, Core Data Items, Ignition ON, and CDD Database Synch. J1939 and J1587 are dependent on databus connections and mobile configuration set from VDC on portal.
3. From **Home**, tap **Messaging** > **Compose**, then tap **Freeform** to send message.
4. Check **Outbox** for **✓** to confirm it was sent.
5. From **Home**, tap **Settings** > **Volume** and set volume level and tap **Test**.

### Installation Troubleshooting

Begin without power and a blank screen.

1. Turn ignition ON and repeat System Verification steps 1 & 2.



2. If **✗** appears in a row, tap row to highlight it, then tap **Details**.



3. Specific troubleshooting steps for that failure appear at the bottom.

### Regulatory Compliance Information: FCC/IC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### Caution

This equipment should be installed and operated with minimum 20 cm between the radiator and body. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC/IC.

When applicable, if customer chooses to perform self-installation of terminals, it must be in accordance with Omnitracs' installation and training guidelines. Failure to do so may void the warranty.

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80-JB107-1 Rev. K  
July 2015