

HDR™ Users Manual

Technical Assistance and Warranty Info - 800-328-6657

SAFETY PRECAUTIONS

WARNING: Read and understand all instructions in this manual. Use appropriate personal safety equipment including hearing and eye protections when using the scanner in or near the vehicle engine compartment. Failure to comply can result in accidents involving fire, electrical shock, or serious personal injury.

Electrical

- Do not allow anything to rest on the cable assembly. Do not allow the cable assembly to be pinched. Keep the cable assembly away from contact with heat, oil, sharp edges, or moving parts. Replace damaged cables immediately. Damaged cables increases the risk of electrical shock.
- To reduce the risk of electrical shock do not disassemble the HDR. There are no user repairable components inside the unit.
- Please dispose of used batteries properly. Do not incinerate batteries. Consult your local waste authority for information regarding available recycling and/or disposal options.

Use and Care

- Stay alert, pay attention to what you are doing, and use common sense when operating the HDR. Several operational tests require the engine in the vehicle to be running during testing. Keep all children and visitors a safe distance from the work area.
- Keep the HDR dry, clean, and free from oil and grease. Use a mild detergent on a clean cloth to wipe the outside off, when necessary.
- Only use accessories that are recommended by SPX.

Service

Service must only be performed by SPX repair personnel. Service or repair by unqualified personnel may result in injury, damage to the unit, and may void your warranty. Refer to the Product warranty Policy section of this manual.

INTRODUCTION

Your HDR will:

- Read the codes off of your vehicles computer.
- Provide on-screen definitions of generic and manufacturer specific codes.
- Clear the codes in your vehicles computer.

The purpose of this manual is to guide you in successfully using the HDR. This is not a repair manual for your vehicle. For specific information on troubleshooting issues with your vehicle, please refer to the owner's manual or various other repair manuals.

Accessories

85111832 – 6 pin Adapter Cable

85111833 – USB Update Cable

85111834 – Rubber Boot

Note: Accessories available from either your Volvo or Mack dealer.

SET-UP & OPERATION

1. Install new batteries: The HDR is powered by 4 AAA batteries. Before the code reader is used the first time, you need to install batteries in the unit. Make sure the batteries are put in according to the diagram on the back of the battery compartment.

- 1a.** If the low battery icon becomes visible, the batteries need to be replaced. Replace all four batteries to avoid unit malfunction. When it is time to change the batteries, the Data Holder Feature will save all data if fresh batteries are installed immediately after removing the old ones.

CAUTION: Leaving used or dead batteries in the HDR beyond the battery date may result in damage to the unit

- 1b.** As long as good batteries are in the code reader, saved scans will remain in the code reader's memory, even after the unit is powered off.

2. Adjust the display contrast: If desired, the contrast on your HDR can be adjusted for easier viewing under different lighting conditions. Note, if the code reader is left in direct sunlight the display can turn completely black. Should this happen, put the HDR in a cool dark place for approximately 10 to 15 minutes. The display should return to normal.

- a.** To adjust the contrast of the screens, power the unit on.
b. Press the "Menu" key, arrow down to "adjust contrast", press enter.
c. Arrow up or down for more or less contrast, press enter when finished.

3. Connect the HDR to your vehicle: The HDR communicates with the computer in your vehicle through a special connection cable. The cable is plugged into a connector on the bottom of the HDR and into a computer interface port on your vehicle.

- a.** Each vehicle manufacturer has it's own specific computer connection location.

- b. Make sure that all pins are straight and the connecting surfaces are free of oils, grease and moisture.
- c. Push the HDR cable into the vehicle port firmly.
- d. Insert the HDR cable into the bottom of the code reader.

READ THE VEHICLE

1. Power the HDR on. Make sure the vehicle is connected.
2. Turn the vehicle ignition key to ON or start the engine.
3. The Fault Codes are automatically read when the vehicle is connected. (To purge the data from the HDR memory and start a fresh scan of the vehicle press Read at any time.)

CLEARING THE CODES

To Clear All Codes:

1. Power the HDR on. Make sure the vehicle is connected.
2. Turn the vehicle ignition key to ON or start the engine.
3. Press CLEAR.
4. Read the confirm screen and press ENTER to clear the codes.
5. Once the codes are clear, you will be taken back to the "Vehicle Connected" screen. The "Clear Error" screen will display if it was unable to clear the codes.

To Clear an Individual Code:

1. Power the HDR on. Make sure the vehicle is connected or have a saved scan present in the HDR.
2. View individual fault codes.
3. Press CLEAR on the unwanted code screen. You will be given the choice to clear all codes or the individual code.
4. Read the confirm screen and press ENTER to clear the codes.
5. Once the codes are clear, you will be taken back to the "Vehicle Connected" screen. The "Clear Error" screen will display if it was unable to clear the codes.

TROUBLESHOOTING

What to do if the HDR is unable to read or clear:

1. Make sure the vehicle ignition key is in the full ON position.
2. Make sure the diagnostic connector is clean.
3. Make sure the cable connectors are pushed in firmly.
4. Make sure the pins in the connectors are not bent and are making contact.
5. Try wiggling the connector during the attempted read.

How to reset the HDR:

1. Power the HDR on.
2. Open the battery compartment and remove one battery.
3. Hold down POWER for 30 seconds.
4. Put the battery back in, and power on.

NOTE: These steps will reset the HDR. If your problem persists please contact SPX technical support.

UPDATE INFORMATION

Your HDR is field updateable through a PC connection. As update information is available, it will be posted on the website along with new fault codes. This information will contain content details and procedures for purchase.

Current version of HDR Software: From January 1, 2007.

WARRANTY INFORMATION

SPX Corporation Limited Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO ORIGINAL BUYERS OF SPX ELECTRONIC DIAGNOSTIC TOOLS ("UNITS"). SPX Units are warranted against defects in materials and workmanship for one year (12 months) from date of delivery. This warranty does not cover any Unit that has been abused, altered, used for a purpose other than that for which it was intended, or used in a manner inconsistent with instructions regarding use. The sole and exclusive remedy for any Unit found to be defective is repair or replacement, at the option of SPX. In no event shall SPX be liable for any direct, indirect, special, incidental or consequential damages (including lost profit) whether based on warranty, contract, tort or any other legal theory. The existence of a defect shall be determined by SPX in accordance with procedures established by SPX. No one is authorized to make any statement or representation altering the terms of this warranty.

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TECHNICAL SERVICE

If you have any questions on the operation of the product, please call
(800) 328-6657.

ADDITIONAL INFORMATION

ORDER INFORMATION

Replacement and optional parts can be ordered exclusively through your parts PDC. Your order should include the following information: quantity; part number; and item description.

The latest Fault Code list can be found at the following websites:

Mack Trucks home page / Parts & Service / Service / Diagnostics.

OR:

<http://www.macktrucks.com/default.aspx?pageid=1092>

Volvo Trucks North America home page/ Parts & Service / Service / Diagnostics.

OR:

http://www.volvo.com/trucks/na/en-us/parts_service/service/diagnostics/

Dealer Part # 85112462

REPAIR SERVICE

For more information on repair service please call us at 800-328-6657

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