



# MDI

## Multiple Diagnostic Interface Pre-Installation Instructions

There are three methods for connecting the MDI to a Techline Laptop or PC Device for Service Programming and future Diagnostics. The methods include USB, Wired Ethernet and Wireless LAN. The USB method is the default method and will not require special setup. However, the USB cable is 9 feet long and severely minimizes the mobility and the usefulness of the tool. The maximum USB cable permitted is 15 feet.

**MDI setup for the Wired Ethernet or Wireless LAN configurations should be completed by your Network Administrator or onsite IT Person.**

### MDI PC Requirements:

**PIV 1.3 GHz**  
**512 MB RAM**  
**CD/DVD Player**  
**USB Port – 1 or More**

MDI Software Manager must be loaded on each PC device that will be performing TIS2WEB Service Programming.

The following information is required prior to configuring your MDI:

### Wired Ethernet

Determine if the Network in your Service Department utilizes *Static IP Addresses* or are the IP addresses Automatically Assigned (*DHCP*).

DHCP: No pre-installation information is needed.

Static IP's:

1. Unused or Available IP address to be assigned to each MDI.
2. The Subnet Mask that is utilized in the Service Department
3. An open or unused Network Port in the LAN or install a switch for connectivity of the MDI into the LAN.
4. CAT 5 or better network cable installed between the open port or switch and the MDI RJ45 connector.

## Wireless LAN

### **Requires Cisco Aironet 1100 Series or HP ProCurve Series supported Access Point**

Determine if the Network in your Service Department utilizes *Static IP Addresses* or are the IP addresses Automatically Assigned (*DHCP*).

- DHCP:
1. Network Name/SSID associated with the Wireless Access Point/Router
  2. Network Authentication Type\*
  3. Data Encryption Type\*\*
  4. Wireless Security Password (Encryption Key)\*\*\*

- Static IP's:
1. Available or Unused IP address to be assigned to each MDI
  2. The Subnet Mask utilized in the Service Department
  3. Network Name/SSID associated with the Wireless Access Point/Router
  4. Network Authentication Type\*
  5. Data Encryption Type\*\*
  6. Wireless Security Password (Encryption Key)\*\*\*

When setting up the Wireless Access Point, be sure the channel select is NOT set to Auto Detect. Also ensure that the Access Point is set to a frequency that is 5 Channels different than any other Access Point within the dealership to prevent Shadowing. Auto Detect and Channel Shadowing can cause MDI communication failures.

\* **Special Note: The required Network Authentication is WPA-Personal, Open, or Shared.**

\*\* **Special Note: The required Data Encryption is TKIP or WEP (64 bit or 128 bit)**

\*\*\* **Special Note: All Wireless LAN must be secured by an encryption key.**

