





This Bus Interface Module is designed to read engine information from specific MEGASQUIRT EFI kits. These kits include: Megasquirt-2, Microsquirt, MSPNP2, Microsquirt-module based ECUs with firmware MS2/Extra 3.4.x or later, Megasquirt-3, MS3-Pro, MS3-Gold, MSPNP-Pro, MS3-Pro-module based ECUs with firmware MS3 1.4.x or later. The module is connected to the MEGA through the CAN-bus CAN H and CAN L on the MEGASQUIRT harness. **394252 harness: Red > CANH, Black > CANL. See Megasquirt manuals for CANH and CANL wire colors.** 

There are two interface (I/O) ports on the module. Either one can be connected to the instrument system or to another module, allowing several units to be daisy chained together. Cannot daisy chain with GPS-50-2. Do not connect the I/O port to anything other than a Dakota Digital control box or BIM. Do not mount the module in the engine compartment; it should be mounted in the vehicle's cabin.

The information that is available from the unit depends on the EFI module programming and add-ons.

Available readings: Vehicle speed, Engine RPM, Engine temp, Intake/manifold temp, Fuel pressure, A/F ratio, Oil pressure, MAP / boost.

A GPS-50-2 CANNOT be linked (daisy chained) to a BIM-01-2 with a BIM cable. The two units cannot talk to the display control box at the same time.

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## **EFI System Setup:**

### User configuration in Megasquirt-2, Microsquirt and other MS2 based ECUs

The settings are on the CAN-Bus/Testmodes menu:

2	CA	N Parameters • CAN-Bus/Testmodes -> CAN Parameters Set:
<u>F</u> ile		Master enable to "Enable"
CAN Parameters		
🗹 🕜 My CAN ID 🛛 🖉		💼 🧭 🕄 Enal
C Paster enable Enable		
👌 🛛 Dash Broadcasting 🕅		
Eile		
Dash Broadcasting	•	CAN-Bus/Testmodes -> Dash Broadcasting Set:
🧭 🕜 Enable On 💌		Enable to " <b>On</b> "
Configuration Automatic		
🚿 🛐 Base CAN identifier 1512 🗣	•	Ensure Configuration is set to "Automatic" setting.
< 🔯 Outputs transmit rate 50Hz 👻		
Burn <u>C</u> lose		

### **User configuration in Megasquirt-3, MS3-Pro, MS3-Gold and other MS3 based ECUs** The settings are on the CAN-Bus/Testmodes menu:

0	C	AN Param	neters	
Eile				
CAN Parameters				
🧭 🕜 My CAN ID		0	Digital ports	<ul> <li>CAN-Bus/Testmodes -&gt; CAN Parameters Set Master enable to "On"</li> </ul>
🧭 🕜 Master enable	On			
			🧉 🖬 Table	
👌 🛛 🛛 Dash Bro	adcasting	X		
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Dash Broadcasting				
🗹 🕜 Enable	On	-	• CAN-Bus/T	Testmodes -> Dash Broadcasting Set
🗹 🕜 Configuration	Automatic	-	Enable to "	"On"
	1512	-		ofiguration is not to "Automatic" acting
🕷 🛐 Outputs transmit ra	te 50Hz	-	Ensure Cor	nfiguration is set to "Automatic" setting.
3 6	<u>Burn</u> <u>C</u> lo	se		

# **EFI System Setup Continued:**

### \*\*\*Optional\*\*\*\*\*\*Enable engine oil pressure and boost/vacuum

- To monitor engine oil pressure, you must have a pressure sensor connected on either 'Generic sensor input 1' or 'Generic sensor input 2'.
- Boost/vacuum pressure is measured from the MAP sensor reading.

CAN Realtime Data Broadcasting	x	J	
<u>File V</u> iew			CAN-Bus/Testmodes -> CAN Realtime Data Broadcasting
CAN Realtime Data Broadcasting			Realine Data Dioducasting
Image: California and the second seco	On 🚽 🗸		
🔮 Base message identifier (decimal)	1520 🗧		Set Enable realtime data broadcasting
2 00: Seconds,PW1,PW2,RPM	50Hz -	· ·	over CAN to " <b>On</b> "
01: Advance, Squirt, Engine, AFRtgt1, 2, WBen1, 2	Off		
02: Baro,MAP,MAT,CLT	On OR 50Hz 🖛 🗸	•	Set RPM send frequency to 50Hz
03: TPS,Batt,EGO1,2	Off 🗨		
04: Knock,egocor1,2,aircor	Off	•	To enable boost CAN output set:
05: warmcor,tpsaccel,tpsfuelcut,barocor	Off 🗨		"02: Baro, MAP, MAT, CLT" to: " <b>On</b> " for MS2, or
06: totalcor,ve1,ve2,iacstep	Off		" <b>50Hz</b> " for MS3.
07: cold_adv,TPSdot,MAPdot,RPMdot	Off 🗨		
08: MAFload,fuelload,fuelcor,MAF	Off 🗨		
	Off	•	To enable engine oil pressure CAN
10: status 1,2,3,4,5,6,7	Off		output set:
11: fuelload2,ignload1,2,airtemp	Off		"13: sensors 1,2,3,4" to: " <b>On</b> " for MS2, or
12: wallfuel1,2	Off		" <b>50Hz</b> " for MS3.
13: sensors 1, 2, 3, 4	On OR 50Hz 🖛 👻		
14: sensors5,6,7,8	Off 🗨		
15: sensors9,10,11,12	Off		
<u> </u>	<u>B</u> urn <u>C</u> lose		

#### EFI engine oil pressure input

This module is programmed to monitor an engine oil pressure sensor that is connected to 'Generic sensor input 1' or 'Generic sensor input 2'.

If you wish to enable this reading you must enable the  $E_{DP}$  (engine oil pressure) option through the setup menu. See page [9] "BIM Setup".

#### EFI boost

This module is programmed to monitor boost (PSI) data from the MAP sensor. To enable this feature, you must enable the b5t (boost) option through the setup menu. See page [9] "BIM Setup".

VFD and VHX system will add extra readings to the message displays under the tach. HDX and RTX need a group screen configured to show additional information, as Boost.

# **Display Setup**

Setting up the display system will configure the instrument control box to read each input from either the terminals or through the BIM cable from the Bus Interface Module.

The BIM menu of the display will not find the BIM-01-2-MEGA, but will find specific channels for Fuel Pressure, Air/Fuel Ratio, and Boost/Vacuum.

There is no Check Engine option for the BIM-01-2- MEGA to pick up.

The following settings are for the basic information to be displayed with data from the BIM module.

Extra data that might be sent such as Intake Air Temp, Fuel Pressure, Air/Fuel Ratio or Boost, can be brought up in the message centers of the VFD3 and VHX system by toggling SW2 in normal operation of the vehicle.

Similar data that might be present will not automatically be shown in the HDX and RTX systems. That extra information must be placed in a group screen of your choice, in the HDX and RTX setup, or automotive app.

### Display data usage

The following readings can each be used in place of dedicated sending units to the instrument system control box. These are individually selectable in the display system instrument setup menus.

\*Some gauge features require a minimum software revision or higher to be supported:

	Oil Pressure
VHX	VX04
VFD3	SE47
VFD3X	SE55

## VFD3, VFD3X and VHX setup:

Entering the VFD3 setup is done by holding SW1 (I) and turning the ignition to "on", or "acc".

Once in setup, one can move between speed, tach, volt, water, etc... by tapping SW1 (I) If you are setting multiple items, once done with one section you will automatically move onto the next item.

### Obtaining speed from the BIM-01-2-MEGA

- Hold the SW1 switch from the instrument system control box while turning the key on.
  - The speed display will show 5EE and the message display will show SETUP.
- Release SW1. The displays should show 5EE and SPEED, respectively.
- Press and hold SW1 for at least 3 seconds, until 5EE changes to "-". The message display will show SENDER.
- Press and hold SW1 for at least 3 seconds, until 5EE changes to "-". The speed display will show the current setting.
- Tap SW1 until 5EŁ and BUS are displayed.
- Press and hold SW1 until 5EE and DONE are displayed.
  - NOTE: The AUTO, auto calibration, is removed.
  - Speed can only be fine-tuned with the ADJUST mode at a standstill.
  - ADJUST now only alters the percentage of speed by +/- 25%.
    - Drive a known speed and calculate how far off the speed is in percentage.
      - GPS speed / displayed speed x 100
      - Sample [60/50=1.2] [1.2x100 = 120] **120%**
      - Enter setup and go to ADJUST, tap SW1 to increment from 100% up to 125%.
      - After 125% the values will fall back to 75% and increment up again.
      - When the desired percentage is reached, hold SW1 until 5EE changes to "-".
- Tap SW1 until 5EE and DONE are displayed.

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• Press and hold SW1 until "-" and DONE are display.

# VFD3 Setup Continued:

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### Obtaining RPM from the BIM-01-2-MEGA

- Hold the SW1 switch from the instrument system control box while turning the key on.
  - The speed display should show 5EE and the message display should show SETUP.
  - Release SW1. Tap SW1 until 5EE and TACH are displayed.
- Press and hold SW1 for at least 3 seconds, until 5EE changes to "-". The displays should show 5EE and T CAL.
- Press and hold SW1 for at least 3 seconds, until 5EŁ changes to "-". The speed display will show the current setting.
- Tap SW1 until 5EE and BUS are displayed.
- Press and hold SW1 until "-" and DONE are displayed.
- Tap SW1 until 5EE and DONE are displayed.
- Press and hold SW1 until "-" and DONE are displayed.

#### Obtaining engine temperature from the BIM-01-2-MEGA

- Hold the SW1 switch from the instrument system control box while turning the key on.
  - The speed display should show 5EE and the message display should show SETUP.
- Release SW1. Tap SW1 until 5EE and WATER are displayed.
- Press and hold SW1 for at least 3 seconds, until 5EL changes to "-". The displays should show 5EL and SENDER.
- Press and hold SW1 for at least 3 seconds, until 5EŁ changes to "-". The speed display will show the current setting.
- Tap SW1 until 5EE and BUS F (Fahrenheit) is displayed.
  - Tap SW1 once more for 5EE and BUS C (Celsius) if desired.
- Press and hold SW1 until "-" and DONE are displayed.
- Tap SW1 until 5EE and DONE are displayed.
- Press and hold SW1 until "-" and DONE are displayed.

#### Obtaining oil pressure from the BIM-01-2-MEGA

- Hold the SW1 switch from the instrument system control box while turning the key on.
  - The speed display should show 5EŁ and the message display should show SETUP.
- Release SW1. Tap SW1 until 5EE and OIL are displayed.
- Press and hold SW1 for at least 3 seconds, until 5EŁ changes to "-". The displays should show 5EŁ and SENDER.
- Press and hold SW1 for at least 3 seconds, until 5EŁ changes to "-". The speed display will show the current setting.
- Tap SW1 until 5EE and BUS are displayed.
- Press and hold SW1 until "-" and DONE are displayed.
- Tap SW1 until 5EE and DONE are displayed.
- Press and hold SW1 until "-" and DONE are displayed.

# VHX Setup:

### Entering the VHX setup is done by holding SW1 (I) and turning the ignition to "on", or "acc".

Once in setup, one can move between **speed**, **tach**, **volt**, **water**, etc.... by tapping SW1 (I) If you are setting multiple items, once done with one section you will automatically move onto the next item.

### Obtaining speed from the BIM-01-2-MEGA

- Hold the SW1 (I) switch from the instrument system control box while turning the key on.
   The message display should show SETUP.
- Release SW1 (I) LCD1 should show SETUP SPEED.
- Press and hold SW1 (I) for at least 3 seconds until SPEED SENDER is displayed.
- Press and hold SW1 (I) for at least 3 seconds until **SENDER** is displayed.
- Release the switch and SENDER NORMAL will be displayed.
- Tap SW1 (I) until SENDER BUS is displayed.
- Press and hold SW1 (I) until **DONE** is displayed.
  - NOTE: The AUTO, auto calibration, is removed.
  - Speed can only be fine-tuned with the ADJUST mode at a standstill.
  - ADJUST now only alters the percentage of speed by +/- 25%.
    - Drive a known speed and calculate how far off the speed is in percentage.
      - GPS speed / displayed speed x 100
      - Sample [60/50=1.2] [1.2x100 = 120] 120%
    - Enter setup and go to ADJUST, tap SW1 (I) to increment from 100% up to 125%.
    - After 125% the values will fall back to 75% and increment up again.
    - When the desired percentage is reached, hold SW1 (I) until DONE is displayed
- Tap SW1 (I) until SPEED DONE is displayed.
- Press and hold SW1 (I) until a big **DONE** is displayed.

### Obtaining RPM from the BIM-01-2-MEGA

- Hold the SW1 (I) switch from the instrument system control box while turning the key on.
   The message display should show SETUP.
- Release SW1 (I) LCD1 should show SETUP SPEED.
- Tap SW1 (I) until **SETUP TACH** is displayed.
- Press and hold SW1 (I) for at least 3 seconds until TACH ENGINE is displayed.
- Press and hold SW1 (I) for at least 3 seconds until ENGINE is displayed.
- Release the switch and ENGINE 8 will be displayed.
- Tap SW1 (I) until ENGINE BUS is displayed.
- Press and hold SW1 (I) until **DONE** is displayed.
- Tap SW1 (I) until TACH DONE is displayed.
- Press and hold SW1 (I) until a big **DONE** is displayed.

### Obtaining engine temperature from the BIM-01-2-MEGA

- Hold the SW1 (I) switch from the instrument system control box while turning the key on.
   The message display should show SETUP.
- Release SW1 (I) LCD1 should show SETUP SPEED.
- Tap SW1 (I) until **SETUP WATER** is displayed.
- Press and hold SW1 (I) for at least 3 seconds until WATER SENDER is displayed.
- Press and hold SW1 (I) for at least 3 seconds until **SENDER DD F** is displayed.
- Release the switch and **SENDER DD F** will be displayed.
- Tap SW1 (I) until SENDER BUS F (Fahrenheit) is displayed.
  - Tap SW1 (I) once more for SENDER BUS C (Celsius) if desired.
- Press and hold SW1 until **DONE** is displayed.
- Tap SW1 (I) until WATER DONE is displayed.
- Press and hold SW1 (I) until a big **DONE** is displayed.

# **VHX Setup Continued:**

### Obtaining oil pressure from the BIM-01-2-MEGA

- Hold the SW1 (I) switch from the instrument system control box while turning the key on.
   The message display should show SETUP.
- Release SW1 (I) LCD1 should show SETUP SPEED.
- Tap SW1 until SETUP OIL is displayed.
- Press and hold SW1 (I) for at least 3 seconds until **OIL SENDER** is displayed.
- Press and hold SW1 (I) for at least 3 seconds until SENDER NORMAL is displayed.
- Release the switch and SENDER NORMAL will be displayed.
- Tap SW1 (I) until SENDER BUS is displayed.
- Press and hold SW1 (I) until **DONE** is displayed.
- Tap SW1 (I) until OIL DONE is displayed.
- Press and hold SW1 (I) until a big **DONE** is displayed.

### \*\*HDX/RTX systems can be configured with the Dakota Digital app for Apple and Android devices\*\*

### HDX and RTX Operations

- HDX: With the ignition key already on, press and hold both switches to enter SETUP, release when instructed.
  - If using the external rocker switch, hold SW2 (II) while turning the ignition on.
  - Release the switch when SETUP is shown.
  - Left switch on display is SW1, and right switch on display is SW2
- RTX: With the ignition off, press hold SW2 (II) while turning the ignition key on to enter SETUP
   Release the switch when SETUP is shown.
- BOTH: When holding for an option, release the button when the screens says "RELEASE"
- **BOTH:** You may skip to whichever reading you'd like to configure below; they do not need to be done in order.
- **BOTH:** After making a selection, tap a switch and select BACK to save and return to the main menu, then select EXIT SETUP to return to normal operation.
- BOTH: SWI (left) moves up ↑ the menu list, SWII (right) moves down ↓ the menu list

### Obtaining speed from the BIM-01-2-MEGA

- Tap SWII (right) switch until SPEED is selected. Press and hold SWII (right) switch to enter SPEED menu.
- Tap SWII (right) switch until INPUT is displayed. Press and hold SWII (right) switch to enter INPUT menu.
- SIGNAL will be is displayed. Press and hold SWII (right) switch to enter SIGNAL menu.
- Tap right switch until BIM is displayed. Press and hold SWII (right) switch to select BIM.
- When SIGNAL is displayed again, tap switch until BACK is displayed, then hold to return to INPUT.
- When INPUT is displayed again, tap switch until BACK is displayed, then hold the switch to exit.
  - **NOTE**: The AUTO CAL, auto calibration, is not accessible.
  - ADJUST now only alters the percentage of speed by +/- 25%.
    - After the engine is running, enter setup and go to ADJUST.
    - While driving a known speed, SWI and SWII (left/right) can adjust speed.
      - Percentage can also be adjusted without driving.
    - Tap SWII (right) to increment up to 125%.
    - Tap SW1 (left) to decrement down to 75%.
    - The speed will be displayed in the LCD along with the percent chosen.
    - Once the speed is correct, hold either switches until RELEASE is displayed.
      - You may now continue to exit the setup menu.
  - The Dakota Digital Automotive app can also be used either while driving or not driving.

#### **Obtaining RPM from the BIM-01-2-MEGA**

- Tap SWII (right) switch until TACH is selected. Press and hold SWII (right) switch to enter TACH menu.
- Tap SWII (right) switch until INPUT is displayed. Press and hold SWII (right) switch to enter INPUT menu.
- Tap SWII (right) switch until CYLINDER is displayed. Press and hold SWII (right) switch to select CYLINDER.
- Tap SWI (left) switch until BIM is displayed. Press and hold SWII (right) switch to select BIM.
- When INPUT is displayed again, tap until BACK is displayed, then hold the switch to exit.

#### Obtaining engine temperature from the BIM-01-2-MEGA

- Tap SWII (right) switch until WATER is selected. Press and hold SWII (right) switch to enter WATER menu.
- Tap SWII (right) switch until INPUT is displayed. Press and hold SWII (right) switch to enter INPUT menu.
- Tap SWII (right) switch until BIM is displayed. Press and hold SWII (right) switch to select BIM.
- When INPUT is displayed again, tap until BACK is displayed, then hold the switch to exit.

### Obtaining oil pressure from the BIM-01-2-MEGA (if available)

- Tap SWII (right) switch until OIL is selected. Press and hold SWII (right) switch to enter OIL menu.
- Tap SWII (right) switch until INPUT is displayed. Press and hold SWII (right) switch to enter INPUT menu.
- Tap SWII (right) switch until BIM is displayed. Press and hold SWII (right) switch to select BIM.
- When INPUT is displayed again, tap until BACK is displayed, then hold the switch to exit.

## BIM setup:

### BIM menu table:

Menu	Options	Default	Notes	
EoP	oFF	oFF		
	inl		Engine oil pressure sensor is connected to Universal Input 1	
	ιn2		Engine oil pressure sensor is connected to Universal Input 2	
ЬSE	OFF	OFF	Enables boost reading (reads PSI from MAP sensor)	
	On			
ıd	UPd		Update communications with other BIM modules attached	
End			Exit Setup.	

### **Enabling Oil Pressure**

The BIM-01-2-MEGA has the option t oread oil pressure off Universal Input 1 or 2.

- Hold the switch on the BIM-01-2-MEGA case while turning the key on. The BIM display will show the current revision code while this is held.
- Release the switch.
- Tap the switch until the display shows **EoP** (engine oil pressure). Press and hold to enter this menu.
- When you see "---" on the display release the switch.
- The display will show the current boost state, oFF (disable)
- Tap the switch to change the state.
  - If pressure sensor is connected to universal input 1
  - o In **2** if pressure sensor is connected to universal input 2
  - To save setting press and hold the switch until you see "---" on the display, then release the switch.
- The display will show End. Press and hold the switch to exit setup or tap to choose another menu option.

### Enabling Boost:

The BIM-01-2-MEGA has an option to enable boost readings if the car has turbocharger.

- Hold the switch on the BIM-01-2-MEGA case while turning the key on. The BIM display will show the current revision code while this is held.
- Release the switch.
- Tap the switch until the display shows **b5***t* (boost). Press and hold to enter this menu.
- When you see "---" on the display release the switch.
- The display will show the current boost state, **DFF** (disable) or **Dn** (enable).
- Tap the switch to change the state.
- To save setting press and hold the switch until you see "---" on the display, then release the switch.
- The display will show End. Press and hold the switch to exit setup or tap to choose another menu option.

## **BIM setup continued:**

### To set or change the ID number:

The ID will not normally need to be changed. The fuel PSI and A/F ratio readings both use bus ID's so if you have other BIM units connected along with this one, there is a chance of ID conflicts. This can easily be resolved. If fuel PSI or A/F ratio is not showing up in the BIM setup menu on your system you may need to resolve an ID conflict. The following procedure will allow the BIM-01-2 to automatically select a new, unused ID.

- Hold the switch on the BIM-01-2-MEGA case while turning the key on. The BIM display will show the current revision code while this is held.
- Release the switch.
- Tap the switch until the display shows d (ID).
- Press and hold until you see "---" on the display, then release the switch.
- **UPd** will be shown.
- Press and hold until dnE is displayed.
- Release the switch, and the BIM unit will now go back to normal operation.

## Quick tips:

While the BIM is operating, the dot in the upper left corner of the display will indicate the status. On steady indicates it is powered up but not receiving any BIM bus activity. Flashing indicates it is communicating on the BIM bus. If the display shows "bu5" then it is scanning to try and communicate with the EFI system bus but cannot get an answer. To see the sensor and channel status on the BIM display, press and hold the switch. The display will cycle through several screens. The first screen will show the bus type ("EF5" MEGASQUIRT EFI). The next screens will indicate which (if any) extended data is available: " IRL" for intake/manifold temp, "EDP" for engine oil pressure.

HDX/RTX TIP: Intake/manifold air temp, Fuel PSI, boost and A/F ratio will be displayed in the group screens if activated through the displays >> group set menu setup, or through the automotive app.

Problem	Possible cause	Solution
BIM does not light up	<ul> <li>PWR wire does not have power.</li> <li>Connect to a different ground location</li> <li>Power/data harness is damaged.</li> </ul>	<ul> <li>Inspect harness and repair or replace.</li> </ul>
	Module is damaged.	Return for service. (See Instructions below)
BIM display is scanning "եՍ5"	EFI adapter harness is not connected	Connect the appropriate harness to the EFI CAN.
	<ul> <li>The EFI system is not compatible</li> </ul>	<ul> <li>Verify compatibility.</li> </ul>
	<ul> <li>The EFI is not powered on.</li> </ul>	<ul> <li>Verify EFI system is powered on.</li> </ul>
	<ul> <li>The system isn't configured to Dash Broadcasting 'Enable'</li> </ul>	Verify CAN settings within EFI software.
BIM has a steady dot lit	Interface cable is not connected	Connect the supplied data cable between the BIM unit and the instrument control box.
	Interface cable is loose.	• Make sure both ends of the cable are seated.
	<ul> <li>On VHX systems, the BIM display for this is disabled.</li> </ul>	<ul> <li>Follow instructions in VHX manual to enable The BIM display screen.</li> </ul>
BIM display shows "88:8"	Data cable is damaged.	<ul> <li>Inspect and replace the data cable.</li> </ul>
	Another module on the bus is damaged or connected improperly.	Inspect other modules on the bus.

## **Troubleshooting guide:**

# Notes:

## SERVICE AND REPAIR

DAKOTA DIGITAL offers complete service and repair of its product line. In addition, technical support is available to help you work through any questions or problems you may be having installing one of our products. Please read through the Troubleshooting Guide. There, you will find the solution to most problems.

For additional support, please visit <u>www.dakotadigital.com</u>. A "**Product Support**" link will be found at the bottom of the home page.

Should you ever need to send the unit back for repairs, please call our technical support line, (605) 332-6513, to request a Return Merchandise Authorization number.

- Package the product in a good quality box along with plenty of packing material.
- Ship the product by a common carrier with tracking abilities.
- Be sure to include the RMA number on the package.
- Include a complete description of the problem, with RMA number, your full name and address (street address preferred), and a telephone number where you can be reached during the day.
- Any returns for warranty work must include a copy of the dated sales receipt from your place of purchase.
- Send no money. We will contact you for payment.

## **Dakota Digital Limited Lifetime Warranty**

DAKOTA DIGITAL warrants to the ORIGINAL PURCHASER of this product that should it, under normal use and condition, be proven defective in material or workmanship for the lifetime of the original vehicle it was installed in, such defect(s) will be repaired or replaced at Dakota Digital's option.

This warranty does not cover nor extend to damage to the vehicle's systems, and does not cover diagnosis, removal or reinstallation of the product. This Warranty does not apply to any product or part thereof which in the opinion of the Company has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident. Dakota Digital assumes no responsibility for loss of time, vehicle use, owner inconvenience nor related expenses. Dakota Digital will cover the return standard freight once the product has been evaluated for warranty consideration, however the incoming transportation is to be covered by the owner.

This Warranty is in lieu of all other expressed warranties or liabilities. Any implied warranties, including any implied warranty of merchantability, shall be limited to the duration of this written warranty. No person or representative is authorized to assume, for Dakota Digital, any liability other than expressed herein in connection with the sale of this product.

▲WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



4510 W. 61st St. North Sioux Falls, SD 57107 www.dakotadigital.com dakotasupport@dakotadigital.com Phone (605) 332-6513 Fax (605) 339-4106

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