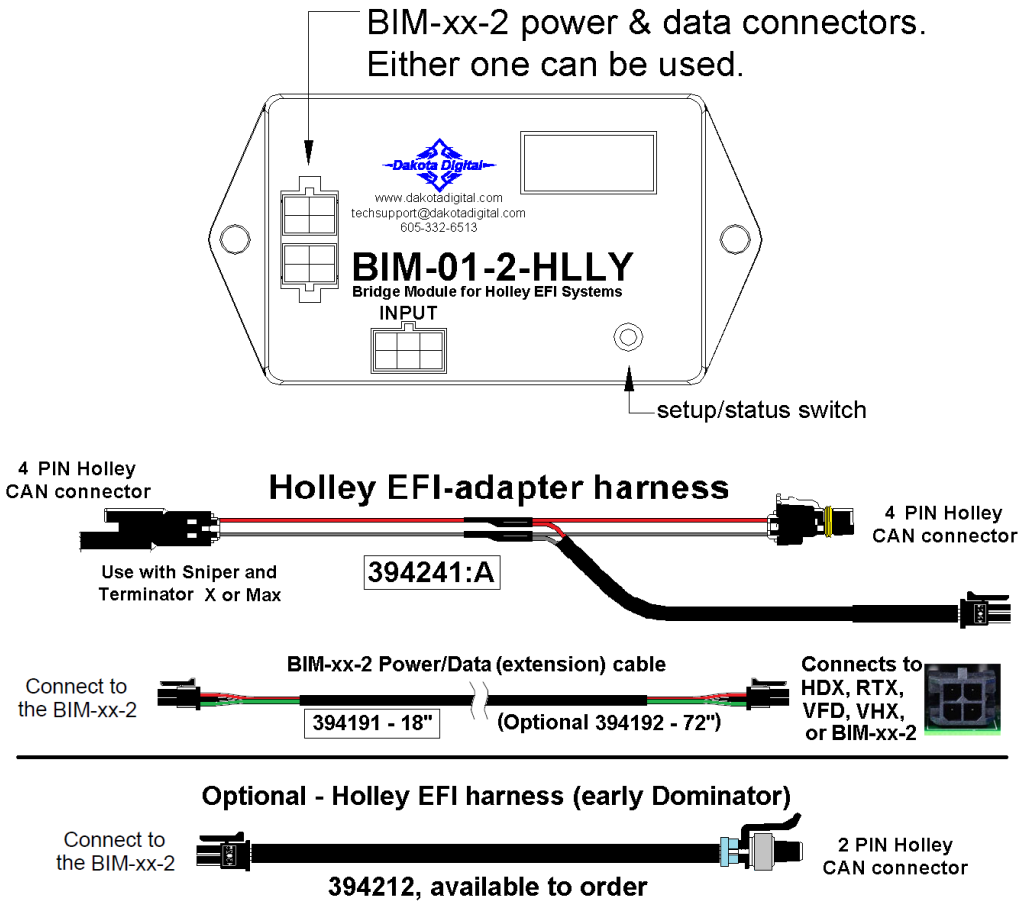
BIM-01-2-HLLY

Bus Interface Module for Holley EFI



This Bus Interface Module is designed to read engine information from specific Holley EFI kits. The Holley Terminator, HP, Sniper, Dominator and Terminator X and X Max. The module is connected to the Holley EFI through the CAN-bus plug on the EFI harness. Depending on your EFI module you may have a 2-pin or 4-pin CAN connector. We supply EFI adapter harnesses that will allow you to connect with your particular kit.

There are two interface (I/O) ports on the BIM-01-2-HLLYmodule. 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; as it should be mounted in the vehicle's cabin.

The engine and transmission information that is available from the unit depends on the EFI kit and module programming and add-ons. For specific data readings: see individual setups below for each version of Holley EFI system below.

Note: If you are not utilizing a Holley handheld display, you must disable the HND setting within this BIMs setup menu (Page 9-10). With the HND setting disabled, you must unplug this BIM unit if you perform a Holley firmware update using Holley's CAN to USB adapter.
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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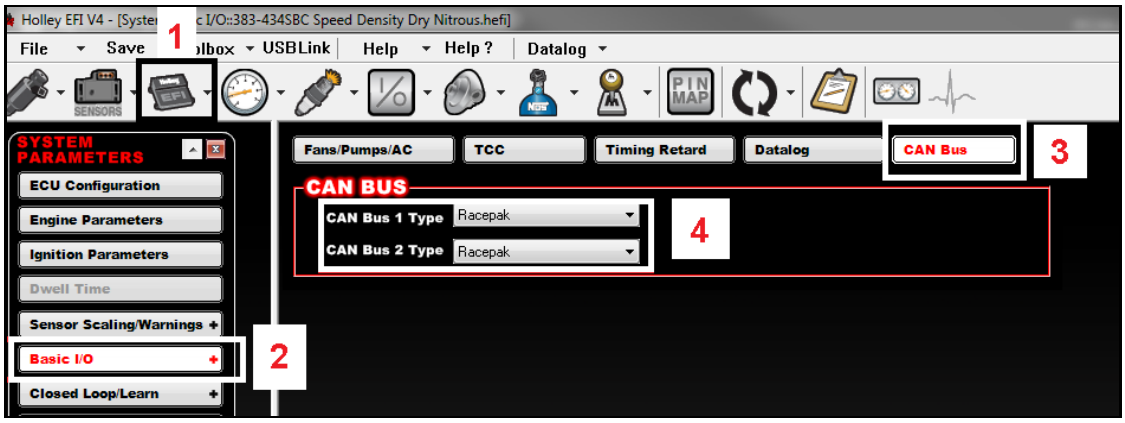
Holley Terminator, HP and Dominator EFI system setup:

For this to unit to function correctly with the Holley Terminator, HP and Dominator systems, you will need to ensure the Holley CAN settings are set to “Racepak.” These settings are adjusted through Holley’s PC or MAC computer software.

To make this change select:

1. ‘System ICF’ tab along the top icon menu.
2. Then select ’Basic I/O’ on left menu.
3. Then select ’CAN Bus’ button on the right to show ’CAN Bus 1 Type’ and ‘CAN Bus 2 Type’.
4. Select the dropdown and select “Racepak”.
    - Terminator or HP ECU – Both 1 and 2 must be set to ‘Racepack’
    - Dominator ECU – change 1 or 2 to ‘Racepack’ and connect BIM cable to that CAN 1 or 2 cable



Terminator, HP and Dominator EFI speed input:

Data that should be available: RPM, Engine temp, Intake/manifold temp, MAP/boost, A/F ratio.
Data that is kit and add-on dependent: Vehicle speed, Oil pressure, Fuel pressure.

This module is programmed to monitor speed broadcasted from Dominator and Terminator/HP ECU’s.
By default, it is pre-programmed to monitor the Dominator ECU speed input (J4 pin B18).
It’s also capable of monitoring Terminator / HP and Dominator Input #1 (J1A pin A12) for speed (F).

To enable Input for speed monitoring,

For the BIM-01-2-HLLY, to read speed, please verify the following:

1. The Holley ECU must be wired and configured within the Holley computer software to read vehicle speed
    a. If speed sensor is connected to Input #1, the BIM-01-2-HLLY must have the speed input enabled

Holley ECU speed input wiring:

- Vehicle speed must be wired to:
    - Dominator ECU: Input #39 on J4, pin B18
    - Terminator/HP ECU: Input #1 on J1A, pin A12 (alternate option for Dominator).

Terminator, HP and Dominator EFI speed input setup, continued:

If speed sensor is connected to Input #1 on J1A, pin A12

- Using the Holley computer software, the Input #1 must be labeled as **Speed.**
- Ensure the **Speed** input is mapped to a frequency (**F**) Input Type on the Holley Pin Map.
- These settings will enable the Holley to send speed out on the Racepack CAN

To monitor Input #1 on J1A, pin A12 you must enable the SPd setting within the BIM:

- Hold button on BIM-01-2-HLLY and turn ignition on, then release the button.
- Tap button to display InP (Input).
- Hold button until a dash (**–**) is displayed, and then release.
- Tap the button to display SPd**.**
- Hold button until a dash (**–**) is displayed, and then release.
- Tap button to display End, then hold to save.

Sniper EFI system setup:

Data that should be available: RPM, Engine temp, Intake/manifold temp, MAP/boost, A/F ratio.

Holley system setup: No configuration within the Sniper EFI system or software is required.
BIM-01-2-HLLY setup: The BIM must be configured to understand it will be talking to the Sniper EFI

- Hold button on BIM-01-2-HLLY and turn ignition on, then release the button.
- The BIM module should display SYS (System).
- Hold button until a dash (**–**) is displayed, and then release.
- Tap the button to display SPr (Sniper)
- Hold button until a dash (**–**) is displayed, and then release.
- Tap button to display End, then hold to save.

Note: Speed Input is not a selectable menu option with SPr selection – Sniper does not send speed.

Terminator X, X Max EFI system setup:

Data that should be available: RPM, Engine temp, Intake/manifold temp, Boost only, A/F ratio, Oil pressure, Fuel pressure.
Terminator X Max: Reads everything as the Terminator X, plus Vehicle speed.

Holley system setup: No configuration within the Sniper EFI system or software is required.
BIM-01-2-HLLY setup: The BIM must be configured to understand it will be talking to the Terminator X, X Max.

- Hold button on BIM-01-2-HLLY and turn ignition on, then release the button.
- The BIM module should display SYS (System).
- Hold button until a dash (**–**) is displayed, and then release.
- Tap the button to display tEr (Terminator X)
- Hold button until a dash (**–**) is displayed, and then release.
- Tap button to display End, then hold to save.

EFI MAP/boost:
This module is programmed to monitor MAP(PSI/inHg) and boost (PSI/inHg) data broadcasted on the Holley EFI. MAP and boost will both be displayed with the boost label on our system. MAP is the default reading preset from the factory. If you wish to monitor boost pressure you must enable the bSt (boost) option through the setup menu. Please see setup steps on page 10.

Note: Terminator X will not show MAP, only boost PSI readings. Speed input is not a selectable menu option with tEr selection.

Display Setup

VFD and VHX systems will add extra readings to the message displays under the tach.
HDX and RTX need a group screen configured to show additional information such as Boost or Intake temp

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-HLLY, but will find specific channels for Fuel Pressure and Air/Fuel Ratio.

There is no Check Engine option for the BIM-01-2-HLLY 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.

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.

VFD3, and VFD3X setup:

****Only VFD3/3X systems with a plastic case, support adding BIMs****

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-HLLY

Dominator, HP, and Terminator X Max - Not Sniper, nor Terminator X

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

VFD3, and VFD3X Setup Continued:

Obtaining RPM from the BIM-01-2-HLLY

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

Obtaining engine temperature from the BIM-01-2-HLLY

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

Obtaining oil pressure from the BIM-01-2-HLLY (not Sniper, if available in HP/Dominator)

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

Dominator, HP, and Terminator X Max - Not Sniper, nor Terminator X

- 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-HLLY

- 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-HLLY

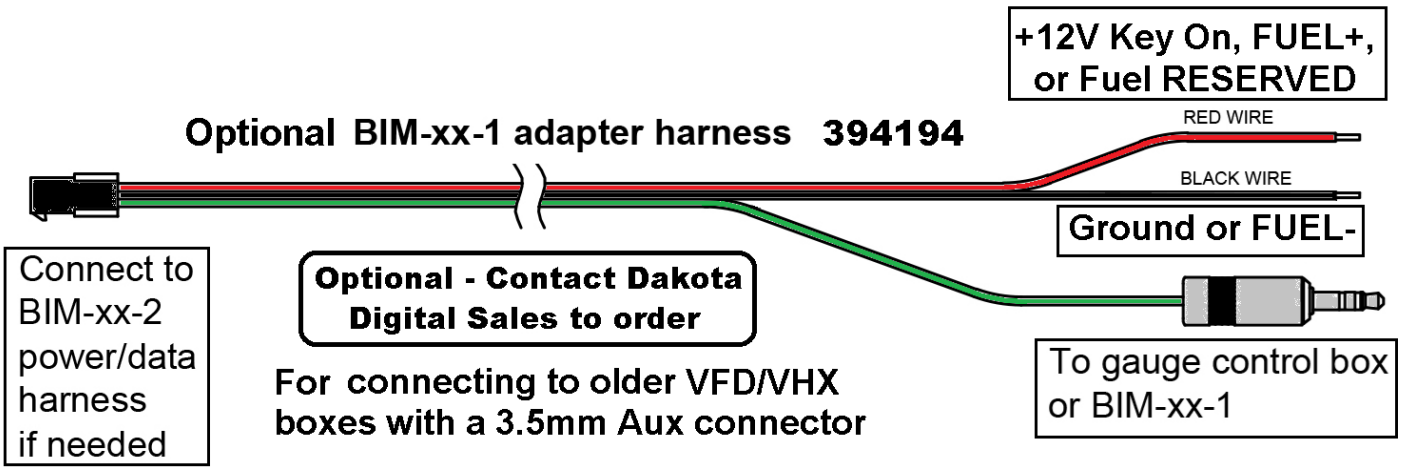
- Hold the SW1 (I) switch from the instrument system control box while turning the key on.
  - The message display should show **SETUP**.
- Release SW1 (I) - LCD1 should show **SETUP SPEED**.
- Tap SW1 (I) until **SETUP WATER** is displayed.
- Press and hold SW1 (I) for at least 3 seconds until **WATER 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-HLLY (not Sniper, if available in HP/Dominator)

- 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.

Optional BIM harness for older VFD3 and VHX boxes using a 3.5mmm AUX port for a BIM connection.



HDX and RTX setup:

****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-HLLY

Dominator, HP, and Terminator X Max - Not Sniper, nor Terminator X

- 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-HLLY

- 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-HLLY

- 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-HLLY (not Sniper, if available in HP/Dominator)

- 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
SYS	Std		Std	For Terminator HP and Dominator systems
	SPr			For Sniper EFI
	tEr			For Terminator X and Terminator X Max
InP	OFF		OFF	Input 1 speed enable, only in menu when SYS is set to Std (HP & Dominator)
	On			
hnd	YES		YES	For a handheld display connection to the Holley ECU.
	no			YES (handheld connected) or no (handheld not connected).
bSt	OFF		OFF	Gauge will display MAP/vacuum reading ***** Terminator X cannot read MAP**
	On			Gauge will display boost
id	UPd			Update communications with other BIM modules attached
End				Exit Setup.

System Selection for Holley module

The BIM-01-2-HLLY must be configured for the correct type of Holley EFI system being used.

- Hold the switch on the BIM-01-2-HLLY case while turning the key on. The BIM display will show the current revision code while this is held.
- Release the switch.
- The BIM module should display SYS (System). Press and hold to enter this menu.
- When you see "---" on the display release the switch.
- The display will show the current system Std, SPr, or tEr
- Tap the switch to change the system.
    - Std – Standard = Dominator or Terminator HP
    - SPr – Sniper
    - tEr – Terminator X only
- 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.

Enable or disable ability to read speed (HP and Dominator SYS = Std)

Not an option when SYS is set to SPr or tEr

With the configuration of the speed input in either the Dominator or Terminator HP, the BIM-01-2-HLLY has the option

- Hold the switch on the BIM-01-2-HLLY 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 InP (input). Press and hold to enter this menu.
- When you see "---" on the display release the switch.
- The display will show the current state or the speed input On (enable) or oFF (disable).
- 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:

Holley Handheld
Most Holley systems come with a handheld display which attaches to the Holley ECU. By default, this unit is programmed to assume the Holley handheld is in use. If your Holley system does not have a Holley handheld unit attached, please change this setting to '**NO**'

Note - If you change this setting to 'NO', and plan to use a Holley CAN to USB adapter to perform Holley firmware updates, you must disconnect this BIM module prior to the firmware update. After the firmware update is complete, you can re-connect this BIM module.

- Hold the switch on the BIM-01-2-HLLY 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 hnd(handheld). Press and hold to enter this menu.
- When you see "---" on the display release the switch
- The display will show the current setting, YES (handheld attached) or no (handheld not attached).
- 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.

Enabling Boost:
All Holley systems (except for Terminator X) will always send MAP/vacuum data to the BIM-01-2-HLLY.
The BIM-01-2-HLLY has an option to enable boost readings if the car has turbocharger, and this works on all models of Holley EFI systems.

- Hold the switch on the BIM-01-2-HLLY 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 bSt (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, oFF (disable) or On (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.

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 BIM while turning the key on. The BIM will show the current software code.
- Release the switch.
- Press and release the switch until Id is shown on the display.
- Press and hold. UPd will be shown while the BIM is scanning the bus for other BIM units.
- When you see dnE shown on the display release the switch.
- The BIM unit will now go back to normal operation.

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.

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 "bUS" 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 will show the bus type ("EF I" Holley EFI). The next screens will indicate which (if any) extended data is available: " IAt" for intake/manifold temp, "EOP" for engine oil pressure.

Troubleshooting guide:

Problem	Possible cause	Solution
BIM will not light up at all	• PWR wire does not have power. • Connect to a different ground location • Power/data harness is damaged. • Module is damaged.	• Connect to a location that has +12V key-on power. • Inspect harness and repair or replace. • Return for service. (See Instructions below)
BIM display is scanning "bUS"	• EFI adapter harness is not connected • The EFI system is not compatible • The EFI is not powered on. • The EFI CAN is not configured to "Racepak"	• Connect the appropriate harness to the EFI CAN. • Verify compatibility. • Verify EFI system is powered on. • Verify CAN settings within EFI software. • If connected to Dominator, HP or Terminator ve SYS is set to Std in the BIMs setup menu
BIM has a steady dot lit	• Interface cable is not connected • Interface cable is loose. • On VHX systems, the BIM display for this is disabled.	• Connect the supplied data cable between the BIM unit and the instrument system control box. • Make sure both ends of the cable are seated. • Follow instructions in VHX manual to enable the BIM display screen.
BIM display shows "88:8"	• Data cable is damaged. • Another module on the bus is damaged or connected improperly.	• Inspect and replace the data cable. • Inspect other modules on the bus.

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 www.dakotadigital.com. 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

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