

TERMINATOR™

STEALTH *EFI*



550-440 EFI Throttle Body - Polished
550-441 EFI Throttle Body – Hard Core Gray
550-444 EFI Throttle Body – Classic Gold

FUEL INJECTION INSTALLATION MANUAL

Read this manual before using this product.

WARNING!

This instruction manual must be read and fully understood before beginning installation. If the instructions are not fully understood, installation should not be attempted. Failure to follow the instructions may result in subsequent system failure and could result in serious personal injury and/or property damage. Keep this manual.

For the safety and protection of you and others as well as your vehicle, only a trained mechanic having adequate fuel system experience should perform the installation, adjustment, and repair.

While undertaking any work involving the fuel system, it is particularly important to remember one of the very basic principles of safety: fuel vapors are heavier than air and tend to collect in low places where an explosive fuel/air mixture may be ignited by any spark or flame resulting in property damage, personal injury, and/or death. Extreme caution must be exercised to prevent spillage and thus eliminate the formation of such fuel vapors. All work involving this product and the fuel system generally **MUST** be performed in a well-ventilated area. Do **NOT** smoke or have an open flame present near gasoline vapors or an explosion may result.

Any components damaged due to failure to follow these instructions will not be covered by the warranty. Failure of any one component does not constitute, nor does it justify, warranty of the complete system. Individual service items are available for replacement of components. If assistance is required or if you need further warranty clarification, please call Holley Technical Service at 1 (270) 781-9741 or (866) 464-6553.

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1.0 INTRODUCTION & SYSTEM REQUIREMENTS

Holley Performance Products has written this manual for the installation of the **TERMINATOR STEALTH™ EFI** TBI fuel injection system. This manual contains the information necessary for the installation of this kit. It also contains all tuning information. Please read all the **WARNINGS** and **NOTES**, as they contain valuable information that can save you time and money. It is our intent to provide the best possible products for our customer; products that perform properly and satisfy your expectations.

1.1 Engine Requirements

Before moving forward with the installation, please verify your vehicle meets the engine and fuel system requirements below:

- Engine is a naturally aspirated (no supercharger, turbocharger, etc.) V8
- Engine horsepower is between 250 – 600
- Engine has a 4 BBL, 4150 style square flange or universal flanged spread bore intake manifold*
- Unleaded fuel only
- Any RTV silicone sealants used on the engine are sensor safe

* Any square flange Holley type intake manifold will work. A spread bore intake manifold may work with no adapter as long as it is an aftermarket “universal flange” (meaning it has dual bolt patterns), and as long as it has enough material such that no vacuum leaks occur along the perimeter of the throttle body. If there is not enough material, a sealing plate (Weiand® PN 9006) can be used. Factory dual plane intakes will require an adapter (PN 17-6).

NOTE: The **STEALTH TERMINATOR™** system requires the use of the supplied 5/16" thick gasket to provide proper clearance.

1.2 Fuel System Requirements

A complete high pressure EFI fuel system must be installed for the STEALTH TERMINATOR™. The pump should be capable of supplying 255 liters/hour or 400 lb./hr. of fuel at 45 PSI. If using an in-line fuel pump, there should be a coarse pre-filter before the pump. All systems should contain a 10 micron post filter after the fuel pump. An EFI fuel pressure regulator is required. See **Figure 1** below for an example when utilizing a bypass regulator.

Holley offers four fuel system kits. These kits contain all components except the return line. They include detailed instructions (downloadable at www.holley.com). These kits are:

- 526-1 – Perform-O-Flex Stainless Hose, Billet Pump, Regulator, and Filters
- 526-2 – Pro-Lite 350 Hose, Billet Pump, Regulator, and Filters
- 526-3 – Super Stock Hose, Billet Regulator, 12-920 Fuel Pump, and Filters
- 526-4 – Super Stock Hose, Billet Regulator, 12-920 Fuel Pump, and Metal Filters

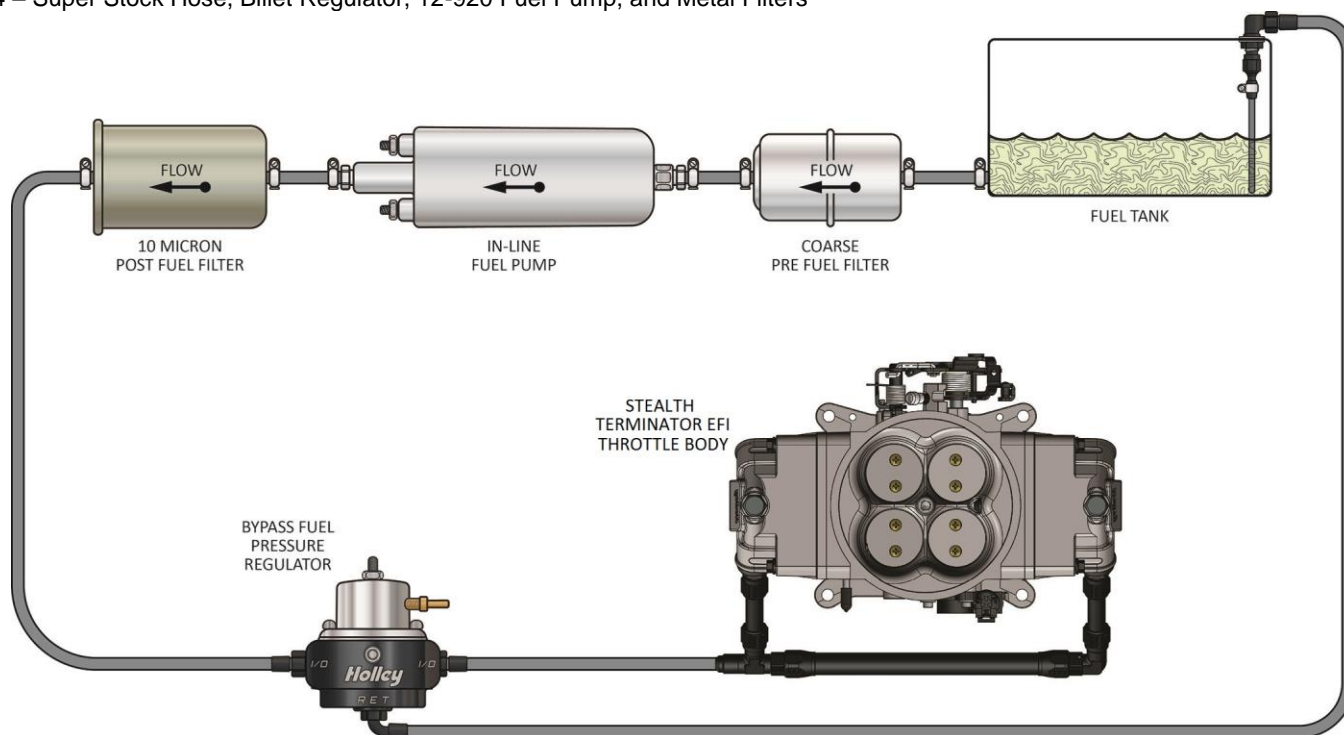

























Figure 1

2.0 PARTS IDENTIFICATION

ITEM NUMBER	IMAGE	DESCRIPTION	QTY	SERVICE PART NUMBER	NOTES
1		Bosch Wide Band Oxygen Sensor	1	554-101	<ul style="list-style-type: none"> Use of leaded fuel will degrade sensor. Prolonged use will require periodic replacement. Mounting procedure below is critical for system performance
2a		Clamp-On Oxygen Sensor Bung (Optional)	1	Varies per Size (see page 6)	<ul style="list-style-type: none"> Requires 3/4" hole to be drilled
2b		Oxygen Sensor Weld Ring		534-49	<ul style="list-style-type: none"> Requires 7/8" hole to be drilled Welding should be performed by competent welder or exhaust shop
3		Coolant Temperature Sensor	1	534-10	<ul style="list-style-type: none"> 3/8" NPT Threads – Adapters to 1/2" NPT are available Must be installed in a coolant passage in either the intake manifold or cylinder head. Do not install in thermostat housing.

4		STEALTH TERMINATOR™ EFI Throttle Bodies	1	534-225 (Polished) 534-226 (Hard Core Gray™) 534-229 (Classic Gold) All Without Harnesses	<ul style="list-style-type: none"> 4150 style mounting flange Includes injectors, MAP sensor, TPS, IAT sensor, and IAC
5		Air Cleaner Gasket	1	108-4	<ul style="list-style-type: none"> Hardware and gaskets for mounting throttle body to intake manifold Should be tightened down progressively in a criss-cross pattern to 5-7ft./lbs. Overtightening will damage throttle body!
6		5/16-24 Nuts	4	N/A	
7		Washers	4	N/A	
8		Flange Gasket	1	108-12	
9		Manifold Flange Studs	4	N/A	
10		TERMINATOR™ EFI Electronic Control Unit (ECU)	1	554-119	<ul style="list-style-type: none"> ECU can be mounted inside passenger compartment or in engine compartment if precautions in the installation section are followed Do NOT remove plastic shoulders on mounting ears of ECU
11		3.5" Touch Screen Controller	1	553-108	<ul style="list-style-type: none"> Includes harness to connect directly to CAN connector
12		Main Power Harness	1	558-308	<ul style="list-style-type: none"> Must be connected DIRECTLY to the battery, no exceptions Do not connect to ECU until ALL wiring and installation is performed
13		TERMINATOR™ EFI Main Wiring Harness	1	558-414	<ul style="list-style-type: none"> Connectors are labeled to simplify installation If ECU is mounted in passenger compartment, be sure to use grommet (included) where harness passes through firewall
14		Grommet	1	N/A	<ul style="list-style-type: none"> Used to route Main Harness through firewall Requires 2" hole to be drilled using a hole saw
15		Output Harness	1	558-420	<ul style="list-style-type: none"> Mates to Input/Output connector on Main Wiring Harness and can be used for A/C Shutdown, Electric Fan #1 Output, and/or Electric Fan #2 Output.
16		Ignition Adapter	1	N/A	<ul style="list-style-type: none"> This is only used on applications using a CD box such as an MSD 6AL, when timing control is not desired This plugs in to the connector labeled "IGNITION" and the loose yellow/black wire connects to the "Tach Out" connection on the ignition box Never connect this wire directly to the ignition coil!
17		Throttle Bracket, Throttle and Transmission	1	20-150	<ul style="list-style-type: none"> Used for throttle cable and transmission kickdown for 700/200R
18		Throttle Bracket, Throttle Only	1	20-151	
19		1/4-20 x 5/8 Socket Head Cap Screw	1	N/A	<ul style="list-style-type: none"> Used to secure throttle cable bracket to throttle body with a lock washer (Item 24)

20		Throttle and Cruise Control Stud	1	20-36	<ul style="list-style-type: none"> Used for various throttle and/or transmission combinations
21		Throttle Lever Ball	1	20-2	
22		Throttle Lever Stud	1	20-37	
23		Transmission Kickdown Stud	1	20-40	
24		Lock Washers	3	N/A	
25		1/4-28 Nuts	2	N/A	
26		Stealth Terminator Fuel Line Assembly	1	534-247	

Throttle Body Service Parts:

	<u>QTY</u>	<u>P/N</u>
STEALTH TERMINATOR™ Sub-Harness	1	558-441
Intake Air Temperature (IAT) Sensor	1	554-121
Terminator 80PPH Fuel Injector (requires purchase of 4)	1	522-801
Manifold Absolute Pressure (MAP) Sensor	1	554-120
Idle Air Control (IAC) Motor	1	543-105
Throttle Position Sensor (TPS)	1	9920-110
40 AMP Relay	1	534-26

Optional Parts:

Small Cap GM HEI Ignition Adapter	1	558-304
Ford TFI Ignition Adapter	1	558-305
Ford Transmission Kickdown Bracket Kit	1	20-152
0-100 PSI Pressure Transducer (1/8" NPT; for monitoring fuel pressure)	1	554-102

3.0 TOOLS REQUIRED FOR INSTALLATION

<ul style="list-style-type: none"> Standard wrench set Medium blade screwdriver Drill and assorted bit sizes Factory Service Manual for your vehicle 	<ul style="list-style-type: none"> Small blade screwdriver #2 Phillips screwdriver Hole saw (2") (depending on ECU location) O2 Bung Installation (drilling, welding) 	<ul style="list-style-type: none"> Allen Wrench set Digital Volt meter Terminal crimping tool
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An assistant is necessary for some installation and adjustment procedures and should be present for safety reasons.

WARNING! Disconnect battery before proceeding with any installation.

4.0 OXYGEN SENSOR INSTALLATION

IMPORTANT! Position and support your vehicle on a suitable surface. **USE CAUTION AND WORK ONLY ON A LEVEL SURFACE USING JACKS AND JACK STANDS OF SUFFICIENT CAPACITY TO LIFT AND SUPPORT YOUR VEHICLE. NEVER WORK UNDER A VEHICLE SUPPORTED BY A FLOOR OR BUMPER JACK.** Use of a two-post under arm lift or four-post drive-on lift will considerably reduce the time and effort required to complete the installation. **MAKE SURE LIFT LOCKS ARE ENGAGED BEFORE WORKING UNDER THE VEHICLE.**

OXYGEN SENSOR WELD RING INSTALLATION (Recommended):

WARNING! Failure to disconnect the AIR pump or locating the oxygen sensor downstream from AIR injection will result in an extremely rich mixture, which could cause drivability problems and severe engine damage. If disconnecting AIR pump, check with local ordinances for the legality of this procedure in your area.

1. Locate a position for the oxygen sensor as close to the engine as possible. The oxygen sensor should be mounted at a point where it can read a good average of all the cylinders on one bank. This would be slightly after all the cylinders merge. If you have long tube headers, mount the sensor approximately 1-10" after the collector. You must have at least 18" of exhaust pipe after the sensor. If your vehicle has catalytic converters, the oxygen sensor **MUST** be located between the engine and the catalytic converters.
2. Ensure the location for the sensor is at the angle in **Figure 2**. This will help prevent condensation in the exhaust tubing from entering the sensor. The sensor can be mounted on either side of the tubing.

- Drill a 7/8" hole in the intended location for the sensor. Weld the **Oxygen Sensor Weld Ring (Item 2b)** into the 7/8" hole. Weld all the way around the boss to insure a leak proof connection. Install the **Oxygen Sensor (Item 1)** into the weld ring and tighten securely. It is a good idea to add anti-seize to the threads to aid in removal. Do not get any anti-seize on the tip of the sensor.

NOTE: Never run the engine with the oxygen sensor installed if it is not plugged in and powered by the ECU, or it will be damaged. If you need to plug the hole temporarily, use an O2 sensor plug or a spark plug with an 18mm thread.

CLAMP-ON OXYGEN SENSOR BUNG INSTALLATION (Optional):

WARNING!

Failure to disconnect the AIR pump or locating the oxygen sensor downstream from AIR injection will result in an extremely rich mixture, which could cause drivability problems and severe engine damage. If disconnecting AIR pump, check with local ordinances for the legality of this procedure in your area.

Your vehicle may already have an O2 sensor bung welded into the exhaust. This bung location needs to be verified before using it with the Oxygen sensor included in the Sniper EFI system. Ideally, the bung will be 6-10 inches after the collector for a true reading of all cylinders and have a minimum of 18" length past the sensor location. If the vehicle is equipped with a catalytic converter, the bung must be between the engine and the catalytic converter. The bung also must be on the top side of the tube so moisture cannot collect on the oxygen sensor. If there is an acceptable bung already present, go ahead and tighten the oxygen sensor supplied with your Sniper EFI in the bung. If there is not an acceptable bung already in the exhaust, please plug all poorly placed bungs and follow the following instructions for the included Clamp-On O2 bung.

If needed, Hooker Blackheart offers different diameter Clamp-On O2 Bung kits:

2.25" Diameter: [71014303-RHKR](#)

2.5" Diameter: [71014302-RHKR](#)

3.0" Diameter: [71014301-RHKR](#)

- Locate a place in the exhaust to drill a 3/4" hole. Make sure to allow enough clearance for an O2 sensor and wiring harness. It is important to keep the O2 bung (**Item 2a**) at least 12 inches from open exhaust. Ensure the location for the sensor is at an angle (**Figure 2**). This will help prevent condensation in the exhaust tubing from entering the sensor. The sensor can be mounted on either side of the tubing.

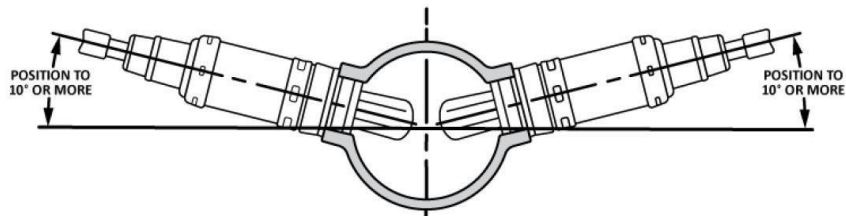


Figure 2

- Mark the center of the casting on the exhaust tube and drill a 3/4" hole. Deburr the hole after drilling (**Figure 2**).

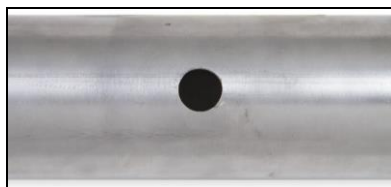


Figure 3



Figure 4

- Place the gasket on the tube, then the casting on the tube. Slip a clamp on one side and lightly tighten. Slip the second clamp on and lightly tighten.

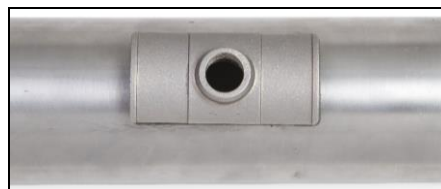


Figure 5



Figure 6

- Verify the center of the casting is in the center of the hole and tighten clamps.
- Install the O2 sensor in the bung. Lightly tighten with a wrench.



Figure 7

5.0 COOLANT TEMPERATURE SENSOR INSTALLATION

1. Install the **Coolant Temperature Sensor (Item 3)** into a 3/8" NPT coolant passage in either the intake manifold or cylinder head. Do not overtighten or damage to the cylinder head or intake may occur. It is best to drain the some of the coolant before the sensor is installed. Use thread sealer or a small amount of thread tape. Do not install the sensor in the thermostat housing, or in an area that will not see a constant flow of coolant.

6.0 THROTTLE BODY & CABLE BRACKET INSTALLATION

1. Disconnect the battery and remove the air cleaner.
2. Before disconnecting any vacuum hoses, it is a good idea to sketch out the vacuum hose routing. Using masking tape and a permanent marker, mark all the vacuum hoses, vacuum sources, and ports before removing the old fuel delivery system.
3. Remove and discard the fuel line that connects to the carburetor from the mechanical fuel pump. This will not be needed in the installation. Remove the throttle return springs and keep for later installation.
4. Remove carburetor (if applicable) and clean mounting flange ensuring no debris falls into intake manifold.
5. Install the four **Manifold Flange Studs (Item 9)** into the intake manifold. Install the **Flange Gasket (Item 8)** between the manifold and the STEALTH TERMINATOR™. Check for sufficient thread engagement of the throttle body hold down studs and nuts.

DANGER! Check for proper clearance between engine components, such as the distributor, coil, etc., and the throttle body. Also check for clearance between the air cleaner and hood. If any interference is found, correct the condition before continuing. Failure to do so can result in damage to the engine components, throttle body, or hood.

6. Position the **STEALTH TERMINATOR™ Throttle Body Assembly (Item 4)** over the manifold flange studs with the throttle lever located on the driver's side.
7. Place the **Throttle Bracket (Item 17 or 18)** for your application over the rear driver's side stud and use 1/4-20 x 5/8 SHCS (Item 19) and a **Lockwasher (Item 24)** to secure.
8. Using the supplied **5/16-24 Nuts and Washers (Items 6 & 7)**, tighten the throttle body down in a criss-cross pattern. Proper torque is 5-7 ft./lbs. **DO NOT OVERTIGHTEN!**

6.1 Throttle Connections

1. The throttle body is designed to provide the proper cable geometry for TH350, TH200R, and TH700R4 transmissions as shown in **Figure 8**. Install the **Throttle and Transmission Studs (Items 20, 21, 22, and/or 23)** for your application in their dedicated holes and secure each with a **Lock Washer (Item 24)** and 1/4-28 Nut (Item 25).



Figure 8

2. Once the throttle linkage is attached, have an assistant get in the vehicle and fully actuate the throttle controls. Make the necessary adjustments to the throttle linkage to ensure that the throttle plates are vertical when the throttle control is wide open. Work the throttle linkage back and forth several times to ensure it operates smoothly with no binding or sticking.

DANGER! A sticking throttle may result in uncontrolled engine or vehicle speed. This could cause property damage, personal injury, or death. A sticking throttle may be caused by improperly installed throttle cables, lack of clearance for any of the throttle linkage, or by a binding throttle linkage. Check all throttle cables for proper installation and alignment. Actuate the throttle to check for any potential binding or clearance problems. Repair any problems before continuing.

3. If the vehicle is equipped with an automatic transmission, ensure that the transmission kickdown is properly adjusted. Follow the vehicle manufacturer's procedure for the correct adjustment procedure.

NOTE: On late model GM and Ford overdrive transmissions with a lockup torque converter, make sure the lockup function is properly retained. Failure to do so will result in premature transmission failure.

NOTE: On Chrysler vehicles, a lever extension will be needed, Holley PN 20-7. Van applications may require the use of throttle lever extension Holley PN 20-14.

4. Install external throttle return springs that you previously removed from the carburetor. External springs should be used in addition to the springs on the throttle body itself. Have an assistant get in the vehicle and fully depress the accelerator pedal. Make the necessary adjustments to the throttle linkage to insure that the throttle reaches wide-open position when the accelerator is depressed. Work throttle linkage back and forth several times to ensure that it operates smoothly with no binding or sticking.

DANGER! Failure to attach the throttle return spring or a sticking throttle may result in uncontrolled engine or vehicle speed, which could cause personal property damage, serious injury, or death.

6.2 Vacuum Line Connections

1. Connect the vacuum lines that were previously disconnected. **Figures 9 & 10** show the function of the ports in the STEALTH TERMINATOR™ throttle body.

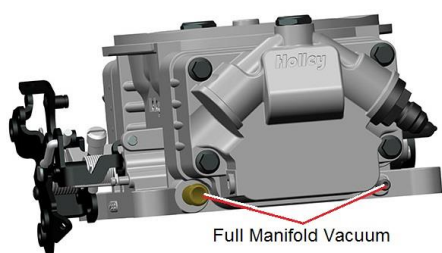


Figure 9

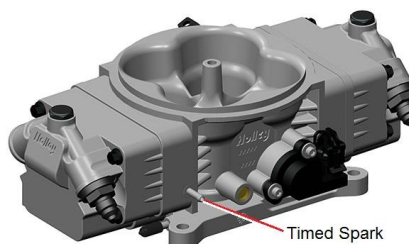


Figure 10

7.0 FUEL SYSTEM

Connect the fuel system per the manufacturer's instructions.

8.0 ECU MOUNTING AND WIRING OVERVIEW

The **Terminator™ EFI ECU (Item 10)** can be mounted inside the passenger compartment (preferable location) or in the engine compartment. If mounted in the engine compartment, follow these guidelines:

- The ECU should be located such that it isn't being directly hit by water or road debris.
- It should also be located such that it isn't extremely close to exhaust manifolds or headers.
- It should be mounted such that it is as far away from spark plug wires, CD ignition boxes, or other "electrically noisy" devices as is reasonable possible.
- Make sure the connector end of the ECU is pointed DOWN such that water can't make its way into the ECU terminals.

The ECU comes with mounting hardware (stainless steel screws and nuts). The ECU has plastic shoulders on the mounting ears. **DO NOT REMOVE THEM.** Do not over-tighten the mounting hardware if the ECU is not mounted on a flat surface.

EFI systems depends heavily on a clean and constant voltage source. ALL grounds of an electrical system are just as important as the power side.

TERMINATOR™ ECU's contain multiple processing devices that require clean power and ground sources. Wiring harnesses must be installed in such a manner that they are separated from "dirty" power and ground sources.

DO'S

- Install the main power and ground directly to the battery. To the POSTS/TERMINALS, not to any other place.
- Keep sensor wiring away from high voltage or "noisy/dirty" components and wiring, especially secondary ignition wiring (plug wires), ignition boxes and associated wiring. It is best that the plug wires not physically contact any EFI wires.
- Properly crimp or crimp and solder any wire connections. Apply quality heat shrink over any of these connections.
- Ensure that the engine is properly grounded to the negative battery post/terminal, as well as chassis.

DON'TS

- NEVER run high voltage or “noisy/dirty” wires in parallel (bundle/loom together) with any EFI sensor wiring. If wires need to cross, try to do so at an angle.
- Don't use the electric fan outputs to directly power a fan. They must only trigger a relay.
- Don't use improper crimping tools.
- Don't use things like “t-taps”, etc. Use proper crimpers/solder and heat shrink.
- It is never recommended to splice/share signal wires (such as TPS, etc.) between different electronic control units (i.e. “piggyback”).
- Don't connect the red/white switched +12V wire to “dirty” sources, such as the ignition coil, audio systems, or 12V sources connected to HID head lamps.
- NEVER start an engine with a battery charger attached

9.0 WIRING HARNESS INSTALLATION

The STEALTH TERMINATOR™ throttle body comes with sensors pre-wired for easy installation. The illustrated diagram below (**Figure 11**) is intended as an overview of how the system should be wired. Remember, the main ECU power and ground must be connected directly to the battery post/terminal AFTER all other wiring installation has been performed. Do not attach the loose white or yellow wires, or ignition connector until you have referred to section **10.0 (Ignition Wiring)**.

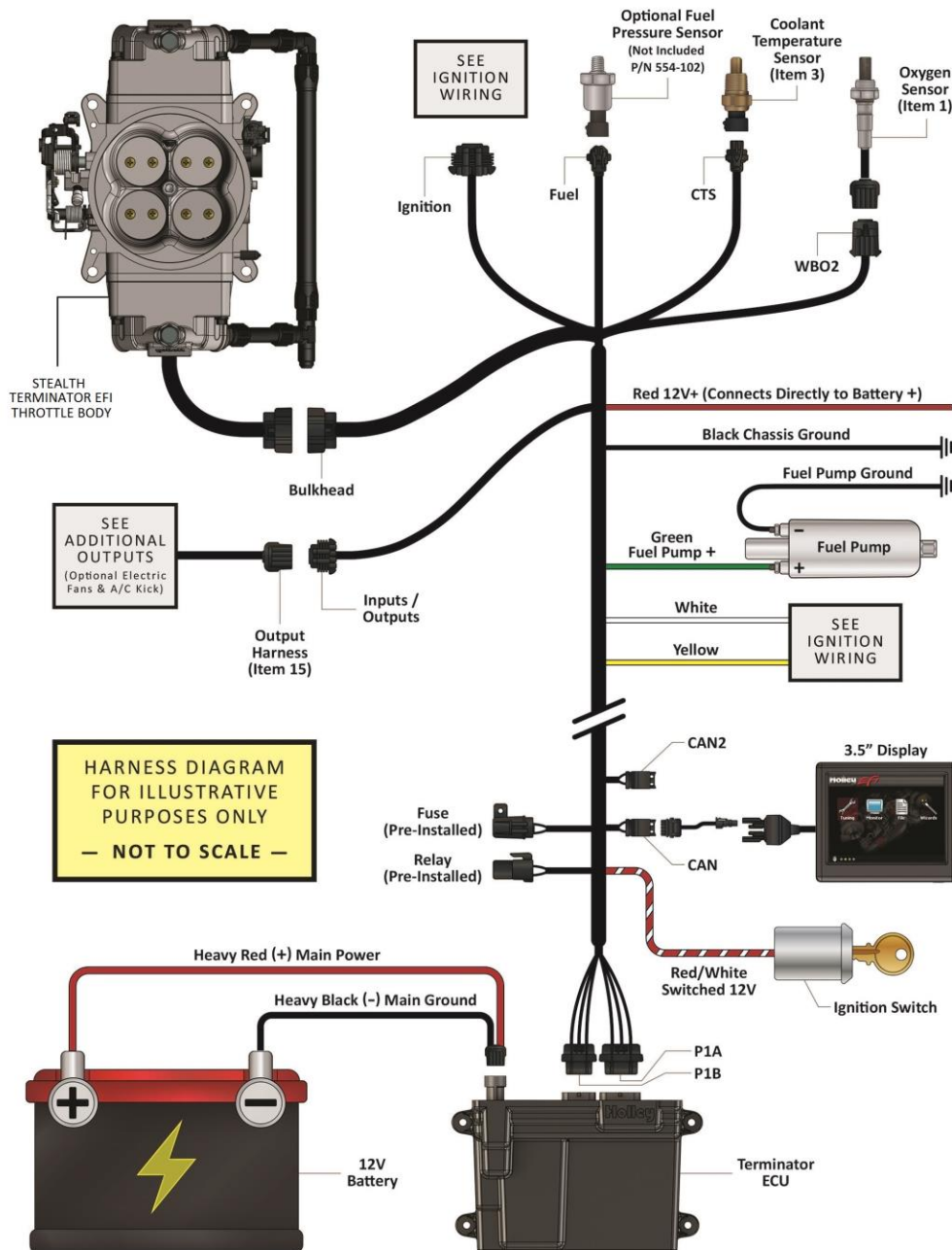


Figure 11

9.1 Harness Routing

If the ECU is mounted in the interior, the harness will have to be routed through the firewall into the engine compartment. Use a 2" hole saw to create a hole in a desired location if no other point of access is available. A **Grommet (Item 14)** is supplied for a 2" hole to seal this area.

If the ECU is mounted in the engine compartment, the hand-held tuning module cable will have to be routed to the "CAN" connector on the main harness (located near the ECU connector main connector). This is assuming you want to access the hand-held module after startup. This will require routing the small CAN connector somewhere through the firewall.

Connect the P1A and P1B connectors of the main harness into the ECU.

About 18" from the ECU main connectors is a 40A Relay. This powers the injectors and fuel pump. There is also a 20 amp fuse for the injectors and fuel pump pre-installed in this location.

9.2 Sensor Connections & Loose Wires

At this time, connect the Bulkhead, CTS, WBO2, CAN, and Fuel (for optional fuel pressure transducer P/N 554-102) connectors to their dedicated sensors/connectors in the diagram on page 8.

The loose wires shown in **Figure 12** should be connected as follows on all systems. These wires come out of the harness about 40" from the ECU connectors except for the "12V Switched" wire (approximately 7").

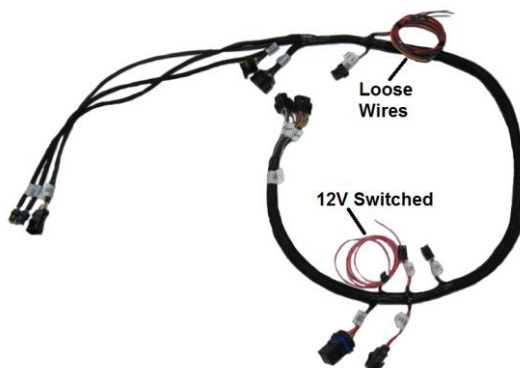


Figure 12

Red/White Wire = 12V Switched

Should be connected to a clean +12 volt switched power source. Switched power source should only be active when the ignition is on. Ensure switched power source has power when engine is cranking as well (check with voltmeter). Not all sources apply power when the ignition switch is in "cranking" position. This wire is located approximately 7" from the ECU connectors. **DO NOT connect to a "DIRTY" source like an ignition coil!**

Red Wire = 12V Battery

Should be connected directly to the battery. This powers the fuel pump and fuel injectors. This wire is protected by a fuse in a sealed fuse holder. The fuse holder is located about 18" from the ECU connector. A fuse is pre-installed (20A).

Green Wire = 12V Fuel Pump

Used to directly power a fuel pump (+12 volt). **Do not use this wire to power fuel pumps that require over 15 Amps.** For high current pumps, use this wire to trigger a separate relay and use larger gauge wire to supply voltage to the pump - 10 gauge is recommended. The pump included with some STEALTH TERMINATOR™ systems draws less than 10 Amps and can be powered directly by this wire. The fuel pump also requires a ground wire. Run a wire from the negative side of the fuel pump. Connect it to a solid chassis/frame ground.

White Wire = Points Output

Used for ignition configurations that must be configured with a laptop computer. See pages 13-21 in the Holley EFI Wiring Manual, located at <http://documents.holley.com/techlibrary199r10555rev17.pdf> or go to www.holley.com, click on SUPPORT, then TECH SERVICE, scroll down and click Resource Documents & Library. Go to the Fuel Injection tab and scroll down to the Holley EFI Wiring Manual.

Black Wire = Chassis Ground

Connect to a chassis ground point that has excellent connectivity with both the engine and battery. This ground should not be connected at the same location as other grounds. It is also important that you have a sufficient ground strap from the engine block to the chassis.

Yellow Wire = "Coil -"

See section 10.0 below. This is an RPM input wire used for *some* applications.

10.0 IGNITION WIRING

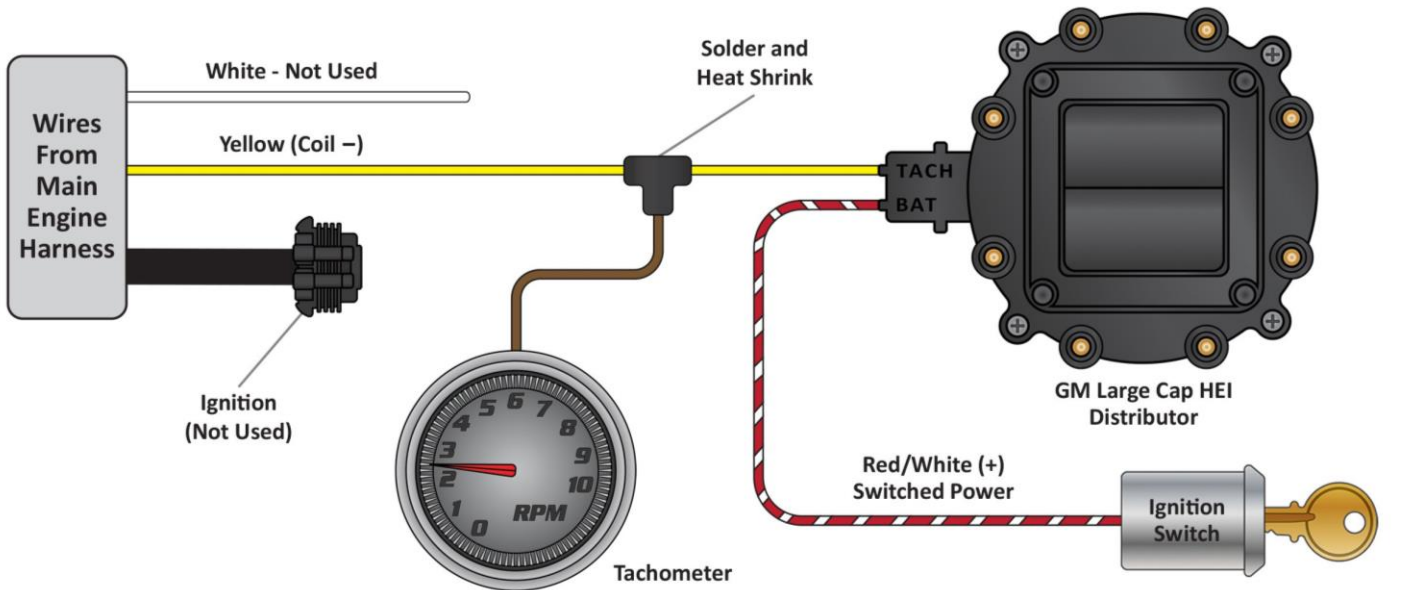
The most important signal for the ECU is the Engine Speed input. It is critical that this is configured and wired correctly or poor performance will result. Pay close attention to the options below or ECU damage could result! It is very important that any aftermarket distributors with a rev limiter verification feature

OPTION 1: "Coil -" engine speed input – Use this if:

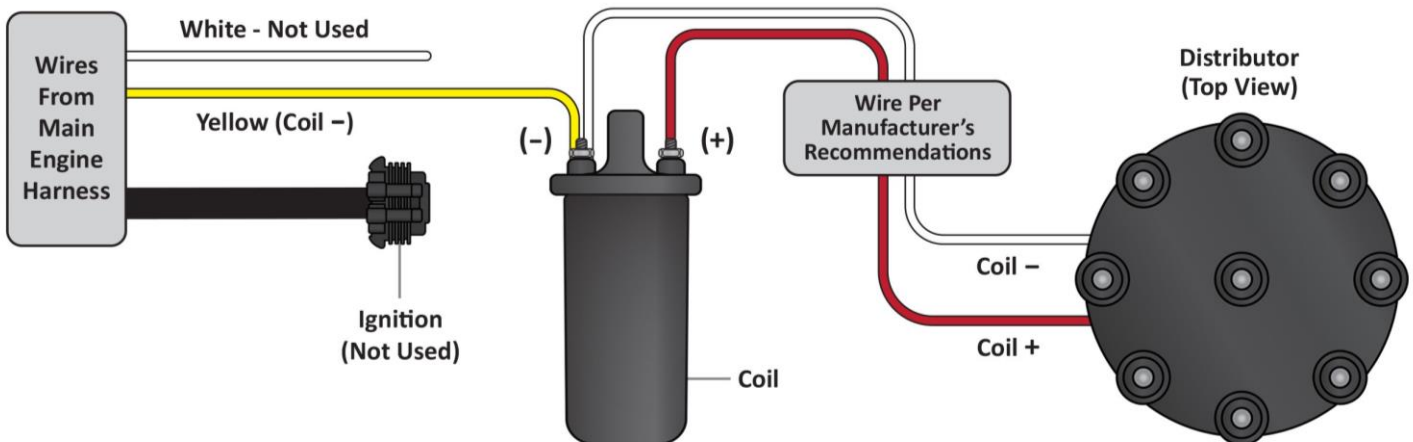
- You are using a stock type mechanical advance distributor with a stock inductive ignition coil. Examples of this would be any older style points distributor, a 1974-1981 GM large cap HEI.
- Do NOT use this input if you are using an aftermarket Capacitive Discharge (CD) ignition system such as a MSD, Mallory, or others. The ECU will be damaged if you connect to a capacitive discharge type ignition coil.

NOTE: When using this input, the EFI will **NOT** control the ignition timing of the engine. The timing will be based on the distributor initial, mechanical, and vacuum advance, just like it did with a carburetor.

OPTION 1 WIRING:



OR



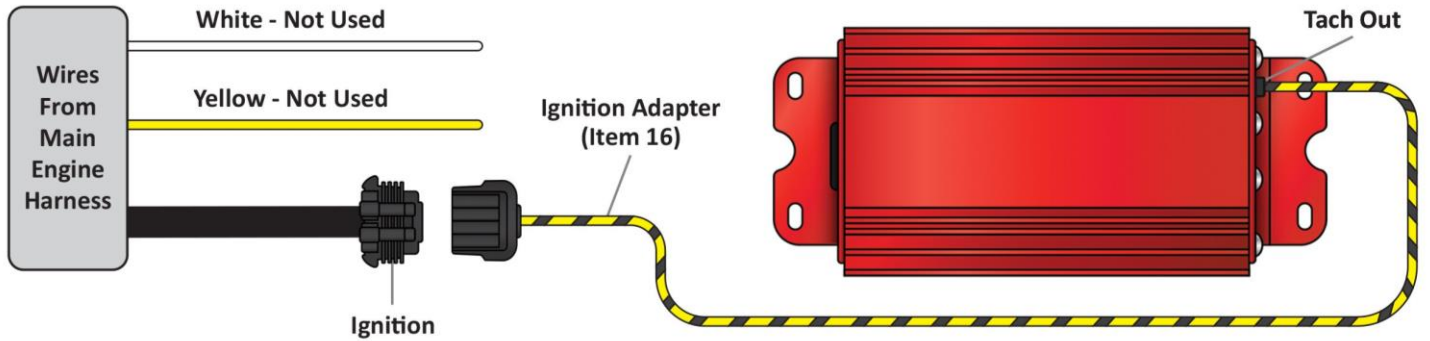
OPTION 2: “Tach Out” engine speed input -

- If you are using an aftermarket Capacitive Discharge (CD) ignition system such as a MSD, Accel, or others, you need to connect to the “Tach Out” connection or wire these systems provide. This is a 12 volt square wave output.

CAUTION! NEVER, NEVER connect any of the EFI wires to the coil on any CD type ignition system. The ECU will be permanently damaged!

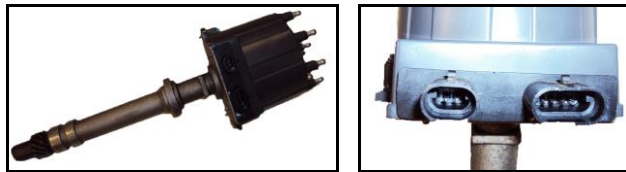
NOTE: When using this input, the EFI will **NOT** control the ignition timing of the engine. The timing will be based on the distributor initial, mechanical, and vacuum advance, just like it did with a carburetor.

OPTION 2 WIRING:

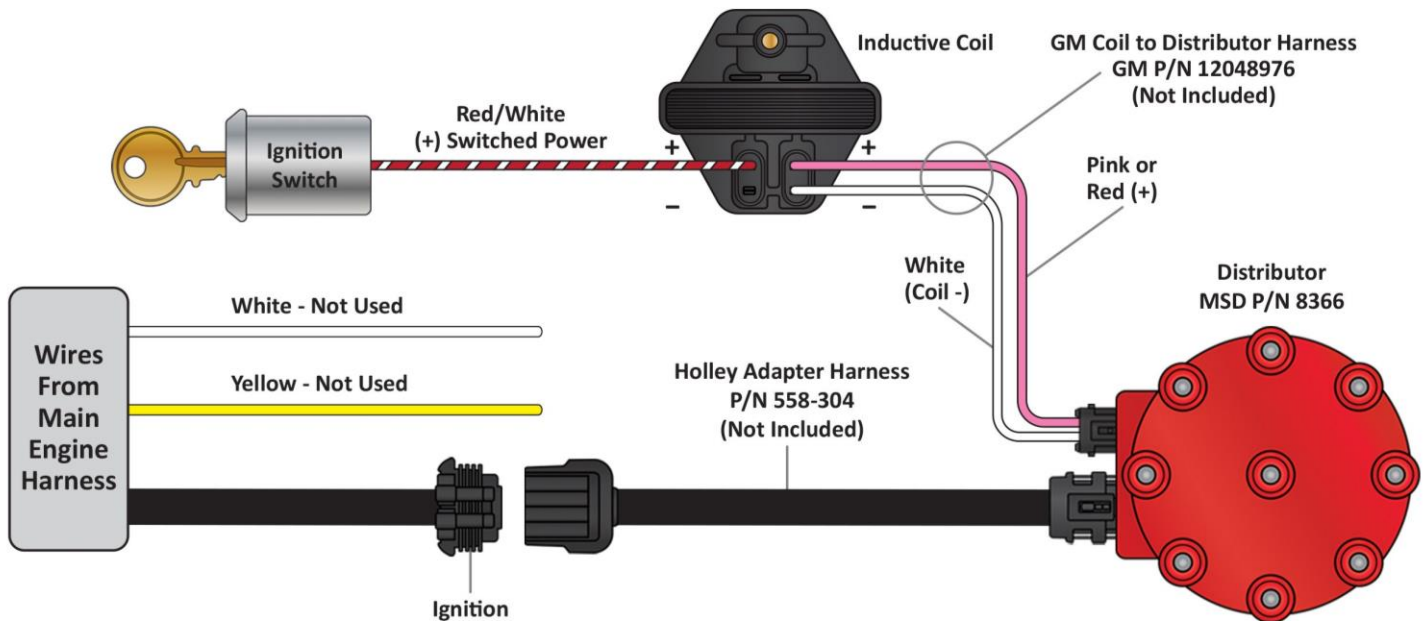


OPTION 3: “GM Small Cap HEI” Computer Controlled Distributor (Requires Holley Ignition Adapter PN 558-304) –

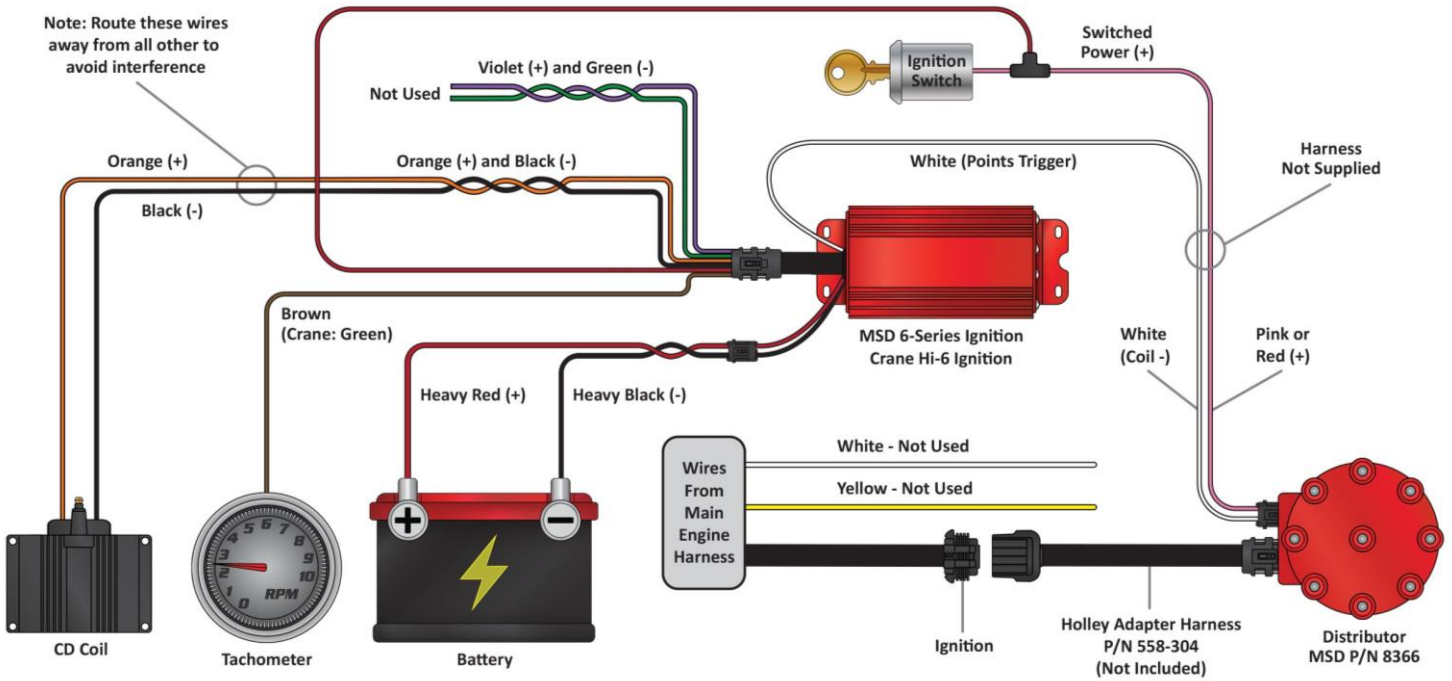
- Small and Big Block Chevy engines can use a small cap GM HEI computer controlled distributor that was available on factory GM vehicles from the 1980’s through mid-1990’s. This distributor is also available through MSD under part number 8366. The distributor (shown below) provides an engine speed signal to the EFI, as well as allowing the EFI to control the ignition timing.



OPTION 3 WIRING:



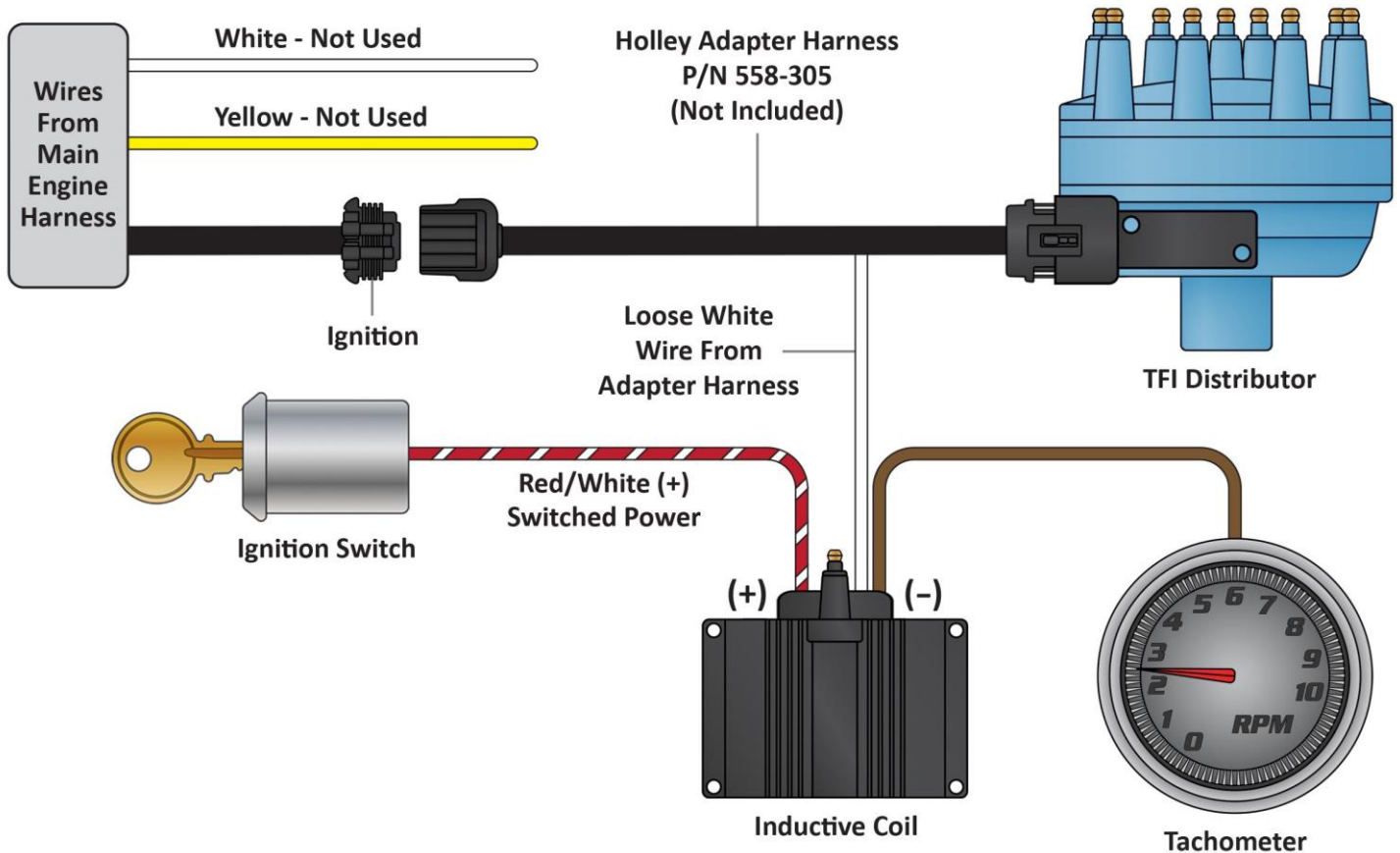
OPTION 3 WIRING W/ CAPACITIVE DISCHARGE BOX (Such as MSD 6AL)



OPTION 4: "Ford TFI" Computer Controlled Distributor (Requires Holley Ignition Adapter PN 558-305) –

- Ford Sequentially Injected 5.0-5.8L engines from 1987-1995 used this distributor. This option will allow the EFI to control the ignition timing.

OPTION 4 WIRING:



12.0 PREVIOUS INSTALLATION REQUIRED

At this point, the installation of your EFI system should be 100 percent complete. The ECU, TERMINATOR™ Handheld controller, throttle body and intake hardware, all sensors, wiring, fuel pump, regulator and return line, and all other hardware should be installed. The vehicle should be ready to start and run. If this is not the case, refer to the hardware installation manual included with your particular system.

13.0 TERMINATOR™ INSTRUCTIONS AND TUNING

The TERMINATOR™ EFI systems are designed to be easy to use for the first time EFI tuner. The instructions are set up in that manner as well. These instructions will not get into detail about EFI theory and operation. They will provide the steps necessary to get you up and running quickly. The TERMINATOR™ system allows for the user to perform some basic changes to the tuning *if they desire to do so*. The instructions are sequenced to get you up and running so you can enjoy your vehicle, then review some of the parameters that can be adjusted to fine tune your vehicle at a later time if desired. **FOR ADVANCED TUNING INFORMATION PLEASE GO TO http://documents.holley.com/techlibrary_199r10751.pdf**

14.0 INITIAL POWER-UP

Turn the ignition key to the “run” position. This should apply power to the ECU as well as the TERMINATOR™ Handheld control module. The handheld should power up and the Home Screen (**Figure 13**) should appear.

The Home screen contains icons which will navigate to different functional features of the 3.5 Touch Screen. These features will be discussed in detail throughout this manual.



Figure 13 – Home Screen

NOTE: DO NOT ATTEMPT TO START THE VEHICLE UNTIL YOU ARE TOLD TO DO SO IN THE INSTRUCTIONS BELOW.

NOTE: The handheld has a SD memory card installed in the side. This card contains specific information that is required for the use of the TERMINATOR™ product. DO NOT replace this card with another. There should be no need to remove this card for normal use.

15.0 HANDHELD NAVIGATION & USE

The 3.5" handheld utilizes a touch screen display. All navigation is done through "touching" an icon or button on the screen. The following is an overview of the different types of adjustment screens that are used in the display, and that may be utilized when tuning or making selections.

15.1 Making Adjustments

Slider Bar: Slide the bar left or right with the stylus, or use the right and left arrow keys for fine adjustment (**Figure 14**).

List: Use the scroll bar on the right hand side of the screen to view all list entries. Touch the desired list item and click 'OK' to make a selection (**Figure 15**).

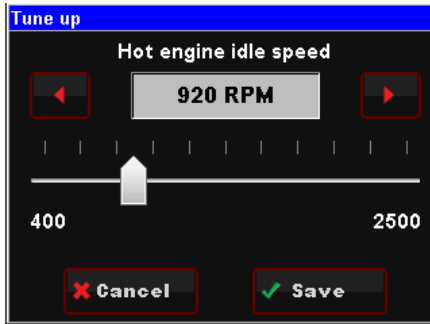


Figure 14 – Slider Bar

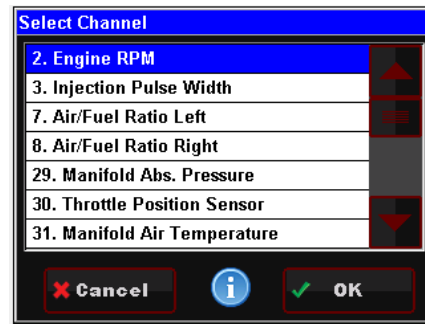


Figure 15 – List

On Screen Prompts: Follow the on screen text and use buttons at the bottom of the screen to continue or confirm.

16.0 HOME SCREEN

The HOME SCREEN has 4 selections (**Figure 16**). They are explained in more detail later in the instructions.

TUNING – Allows for various parameters to be easily adjusted.

MONITOR – A variety of gauge and dash displays.

FILE – Saves and loads files. Also shows information about the ECU and handheld controller.

WIZARDS – Creates a base calibration and performs the "TPS Autose" function.



Figure 16

17.0 CALIBRATION WIZARD

The first step is to create an initial calibration using the WIZARDS located on the HOME SCREEN.

1. Select WIZARDS
2. Select START GCF WIZARD (**Figure 17**)
3. The Wizard process will guide you through each selection step. There will be a question at the top. Select the proper response and select "Next" at the bottom. Selecting "Home" at any time will cancel the process.
4. Next, select "Holley TBI" for the system type (**Figure 18**)
5. Next, select "Terminator" for the TBI System Type
6. Select "None" for the Transmission Control



Figure 17



Figure 18

7. If your engine is up to 409 cubic inches, select “Up To 409 CID”. If your engine is larger than 409 cubic inches, select “410 CID and Larger” (Figure 19).
8. The next choice should be dictated by the camshaft size and characteristics (Figure 20). If you have no idea, just simply select “Don’t Know”.

The choices are further defined as:

- “Street Strip” – Camshafts with over 225 degrees duration at .050” valve lift (225°@.050”).
- “Mild Street” – Engines with non-stock camshafts that have between 214-224 degrees duration at .050” valve lift (214°-224°@.050”).
- “Factory Stock” – Engine that have a stock, factory camshaft, or aftermarket camshafts that have a duration BELOW 214 degrees at .050” valve lift (below 214°@.050”).
- “Don’t know” – If you have no idea as to what type of camshaft is in your engine, choose this selection.

NOTE: If you are not sure of the camshaft size, it is best to select “Don’t know”.

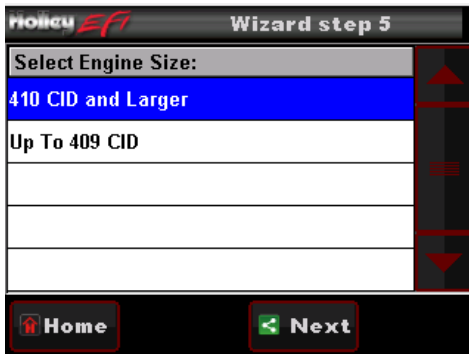


Figure 19



Figure 20

9. Next, you need to select whether the ECU will be controlling the ignition timing (Figure 21). Select “Yes” ONLY if you are using a GM small cap computer controlled HEI distributor or Ford TFI distributor. These are the only ignition distributors that allow the ECU timing control using the TERMINATOR™ system. All other ignition/distributor types must be a standard mechanical advance type used on any carbureted application. If you select “Yes”, proceed to step 10. If you select “No”, proceed to step 11.

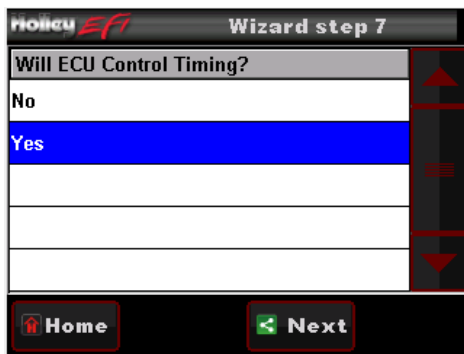


Figure 21

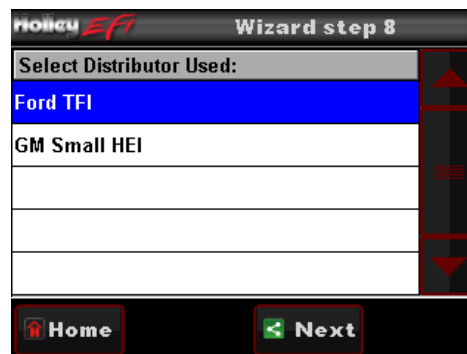


Figure 22

10. Select “GM Small HEI” or “Ford TFI” (**Figure 23**). Proceed to step 12.

11. If you are not controlling timing, you will have the following two choices. It is important the correct item is selected, as well as to double-check that you used the proper input wire when the vehicle was wired.

“Coil – (neg)-” – Select this if you are NOT using an aftermarket Capacitive Discharge (CD) ignition box such as a MSD, Mallory, or others. This is for stock, factory inductive ignition coils. Examples would be a factory GM large cap HEI, or a points style ignition with a canister coil. You should have connected the solid yellow wire in the harness to the negative side of the ignition coil when the wiring was performed.

“CD Box Tach Out” – Select this if you are using an aftermarket Capacitive Discharge (CD) ignition box such as a MSD, Mallory, or others. When you wired the vehicle, you should have used an ignition adapter harness that had a yellow/black wire that you connected to the “tach out” on the ignition box. Nothing should have been wired directly to the ignition coil.

NOTE: If you are unsure of this selection, or wiring, contact Holley tech service. Damage to the ECU will result due to improper wiring.

12. After entering the ignition type, your calibration will be created. Press the “Upload” button to send the calibration to the ECU (**Figure 18**). You will then see a screen showing “Uploading”. Finally you will see a screen indicating the file is uploaded (**Figure 24**). Cycle the ignition switch for the calibration to take effect.

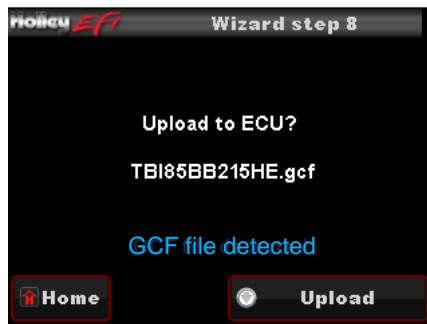


Figure 23



Figure 24

18.0 TPS AUTOSET

The next step is to perform a “TPS Autaset”. This must be done with the vehicle ignition power on. **This must be done on a brand new system otherwise the injectors and ignition will not be fired by the ECU.** A TPS Autaset programs the ECU with the full travel/voltage range from idle to wide open throttle for the Throttle Position Sensor (TPS). The TPS Autaset function is found under the “WIZARDS” choice under the HOME SCREEN. Select “START TPS AUTOSET”. Follow the prompts. You can select “Home” at any point to stop the process. If everything is successful, you will see a TPS Autaset Successful message.



Step 1: Select TPS Autaset



Step 2



Step 3



Step 4: Select 'Done'

19.0 SENSOR VERIFICATION

Before starting the vehicle, verify that all of the sensors are reading properly. At this time, turn the key off, and cycle it back on. At this time you should hear the fuel pump come on and run for 5 seconds. Check for fuel leaks at this time as well.

On the HOME SCREEN, select the MONITOR tab. This will bring up various options. Select the "Monitors" screen. You will see a screen called "Sensors". Select this. With the key on and the engine off, these sensors should read as follows:

- **MAP** (Manifold Air Pressure Sensor) – Should read from 95-102. At high elevations it could read as low as 75.
- **TPS** (Throttle Position Sensor) – Should read 0. Slowly depress the throttle to wide open. It should read 100 at wide open throttle. If it reads 1-2, you may want to lower the idle screw on the throttle body.
- **MAT** (Manifold Air Temperature Sensor) – reads current air temperature
- **CTS** (Coolant Temperature Sensor) – reads engine temperature. If the engine is "cold", it should read almost the same as the MAT sensor.
- **Battery** – Will read battery voltage. Should be 12.0 volts minimum.

If ANY of these sensors are not reading properly, this must be resolved before the engine is started.

20.0 STARTUP

The vehicle should be ready to be started. Open the sensors screen. Make sure the TPS is reading 0. If it does not, do a TPS AUTOSET, or if it is reading 1-2%, close the idle screw on the throttle body slightly.

Crank the engine and look at the RPM parameter. It should change to "Syncng", indicating the ECU is syncing with the RPM signal for an instant, then show an RPM signal. The engine should fire and run and come to an idle.

If you do not get an RPM signal, there is an error in the wiring or system setup. Call Holley Tech service for advice.

If the engine starts but is idling too low and appears to be struggling for air, you may have to open the throttle body idle speed screw at this time. If you move the screw, you will need to perform a TPS Autoset.

21.0 SETTING IGNITION TIMING

If you are using a computer controlled GM HEI or Ford TFI distributor, you must sync up the ignition timing with the ECU. You must have a timing light to perform this. You will possibly need a dial-back timing light or a harmonic balancer that is degreed up to 40 degrees. Again, open the Sensors monitor screen. You will see the "Ign Timing" parameter which will display what the commanded ignition timing is. Rev the engine up (CAREFULLY) to approximately 2000 RPM. Note the timing value on the handheld. Using the timing light, turn the distributor until the timing you see with the timing light matches what is on the handheld. Once synced, tighten down the distributor. From this point on, do not turn the distributor. The timing on the handheld should always match the timing on the distributor.

IMPORTANT NOTE: The timing at idle (TPS = 0) might be seen to be rapidly fluctuating. This is due to the ECU using the ignition timing to stabilize the idle. This is normal. This is why you need to check and sync the timing around 2000 RPM.

22.0 AFTER-STARTUP

Once the vehicle has started, look for any fuel or coolant leaks. Let the vehicle warm up and look at some other parameters to make everything is operating properly. Go into the MONITOR, MONITORS, and select the "Closed Loop" Icon.

- **Closed Loop Status** – Indicates whether the engine is "Closed Loop" or "Open Loop". Closed Loop indicates that the ECU is adding or subtracting fuel to maintain the target air/fuel ratio. The TERMINATOR™ calibrations are such that the system should be operating closed loop almost all of the time.
- **Closed Loop Compensation** – This is the percentage of fuel that the ECU is adding or subtracting to maintain the target air/fuel ratio at any specific moment. A value with a minus (-) sign in front indicates the ECU is removing fuel. A value with no minus sign indicates the ECU is adding fuel. When in open loop operation, this will always stay at 0%.
- **Target Air/Fuel Ratio** – This is the target AFR (air/fuel ratio) the ECU is trying to maintain. This will vary depending on the engine speed and load.
- **Air/Fuel Ratio Left** – This will show the air/fuel ratio the wideband oxygen sensor is reading. The Closed Loop Compensation should be adding or subtracting fuel all the time such that the AFR Left should always be close to the Target AFR value. (Note ARF Right will only be active if a second sensor is being used which is not included).

- **Fuel Learn Status** – This indicates the status of the TERMINATOR™ “Self Tuning” operation (Learn Status). The system will automatically tune itself as you drive around. There are several conditions that must occur in order for the Self Tuning to occur. The engine temperature must exceed 160° F. The system must be operating in a closed loop mode, and the Self Tuning must be enabled. The base TERMINATOR™ setups have the Self Tuning enabled. Once the engine reaches 160° F, the Self Tuning should be active. The Learn Stat will show “NoLearn” when Self Tuning is not active and “Learn” if Self-tuning is active.

If any of these parameters are not showing a proper value, find out why before further driving the vehicle.

23.0 IDLE SETTING/THROTTLE PLATE SETTING

Once the engine is up to operating temperature, the idle speed can be set to what is desired.

From the HOME SCREEN, select the TUNING tab. Then select the BASIC and then BASIC IDLE. You can see what the target hot idle speed is set to (**Figure 25**). If you are happy with the current value, use the BACK or HOME button to exit. If you would like to change it, click on the IDLE SPEED. This brings up a screen to adjust the idle speed. Move the button left and right to adjust it. Click the button to save the new value or select CANCEL at the bottom to move out of this screen.

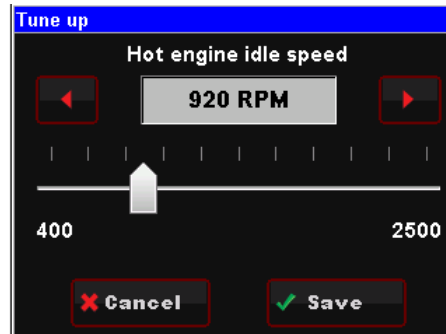


Figure 25

Whether you change the target idle or not, you need to set the throttle plates on the throttle body to an optimal position. To do so, with the engine running select the MONITOR tab. You will see the IDLE screen. Look at the “IAC Position” value. This value should be set between 2 and 10 with the engine in neutral and up to operating temperature. Also make sure the “TPS” value is showing a value of 0. If it is not, you need to perform a TPS AUTOSET.

If the “IAC Position” value is showing zero, you must close the throttle plates until it reads a value of 2-10. Slowly turn the throttle shaft adjustment screw on the throttle body out (counter-clockwise). If the IAC position is “stuck” at 0, it is likely that the engine is idling at a higher speed than you have set the target idle speed for. You need to adjust the throttle plates to resolve this issue.

If the “IAC Position” value is greater than 10, it is a good idea to open (turn the throttle shaft adjustment screw in, clockwise) the throttle plates until the “IAC Position” value is between 2 and 10. Note that if you open the throttle plates such that the “TPS” position goes above a value of 0, you will need to shut the vehicle off and perform a TPS AUTOSET. Then restart the vehicle and continue adjusting the throttle plates. Once the TPS goes above a value of 0, the ECU goes out of its “idle” mode and will lock the IAC Position to a fixed value.

When the adjustments are completed, make sure the TPS reads a value of 0 with the engine idling.

24.0 SELF-TUNING

At this point, it is time to just drive the vehicle and let the system perform its self-tuning process. The best way for this is to drive the vehicle under as many different operating conditions as possible. Different engine speeds and loads. Start by slowly revving the engine up in neutral and holding it at different speeds up to 2500 RPM. This will help the system learn these points. Then drive the vehicle, possibly using different transmission gears to learn in different areas. If you have an automatic transmission you may want to put it in gear, and with your foot on the brake pedal, apply a SMALL amount of throttle so that the system learns in this area as well.

NOTE: There are several conditions where Learning will NOT occur. They are the following:

- If the engine is below 160° F
- When the engine sees quick accelerator pedal movement
- Certain times when the accelerator pedal is lifted and the vehicle is coasting
- If the learn is disabled by the user

If you are interested in seeing if Self Tuning is completed in a certain area, you can look at the following:

- Select MONITORS from the HOME SCREEN
- Select the LEARN icon
- The FUEL LEARN STATUS indicates if the learn feature is active. The FUEL LEARN PERCENT indicates what the learn value is.
- Look at the CLOSED LOOP COMPENSATION value. Once this value is close to zero, learning is complete in an area.

At this point you can drive and enjoy your TERMINATOR™ EFI as it is. Sections 25.0 – 26.0 describe how you can adjust various parameters to further optimize fuel economy and overall performance, if desired.

25.0 BASIC TUNING

The TERMINATOR™ systems allow the user to perform some basic tuning changes to help optimize mileage, drivability, and performance. The tuning is split up into “Basic Tuning” and “Advanced Tuning” (Figure 26). The Basic Tuning allows changes to the Air/Fuel Ratio’s the engine runs at and changes to Ignition Timing if a GM HEI or Ford TFI is used. The Advanced Tuning is typically not needed, but allows changes to some items that are less commonly used, or require some careful understanding before changing.

From the HOME SCREEN, select TUNING, and BASIC. There are six areas you can modify, BASIC FUEL, FUEL LEARN, BASIC IDLE, & SPARK (DRIVE BY WIRE and TRANSMISSION will not be used with this installation). These are reviewed below.

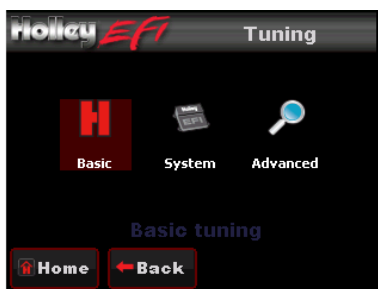


Figure 26

25.1 Basic Fuel

Selecting BASIC FUEL brings up the following menu (Figure 27):



Figure 27

25.1.1 Target AFR

Allows changes to the Target Air/Fuel ratio at idle, cruise, and wide open throttle (Figure 28). The following are typical values and some tuning notes.

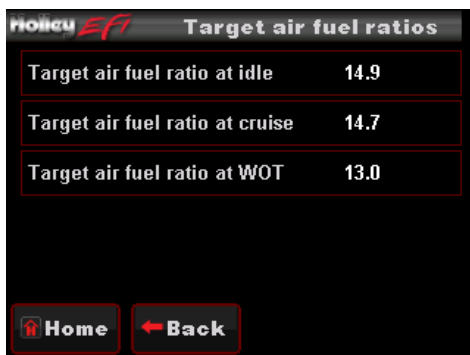


Figure 28

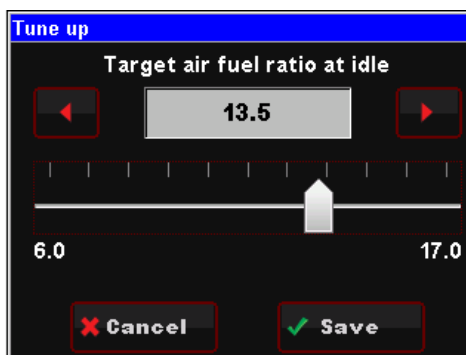


Figure 29

- **Idle Air/Fuel Ratio** – Typically between 13.5 and 15.0. Engines with larger cams may need a richer setting for smoothest idle.
- **Cruise Air/Fuel Ratio** – Typically between 13.5 and 15.5. Engines with larger cams may need a richer setting for smoothest operation.
- **Wide Open Throttle Air/Fuel Ratio (WOT)** – Typically between 12.0 and 13.0. Running richer may reduce power. Running leaner may reduce power or cause potential engine damage.

NOTE: The Target Air/Fuel setting between IDLE, CRUISE, and WOT is blended together automatically. Consequently, the air/fuel you see on the MONITOR screen, may not be exactly what you set for the settings. Changing these settings raises or lowers the “curve” of that specific area.

25.1.2 Acceleration Enrichment

Changes the “accelerator pump” function of the fuel injection. Raising the number increases the amount of fuel added when the pedal is pushed. Lowering the number decreases the amount of fuel added when the pedal is pushed. It is highly recommended NOT to change this until the ECU is allowed to perform self-tuning (**Figure 30**).

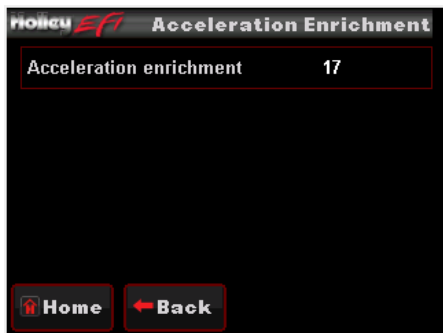


Figure 30

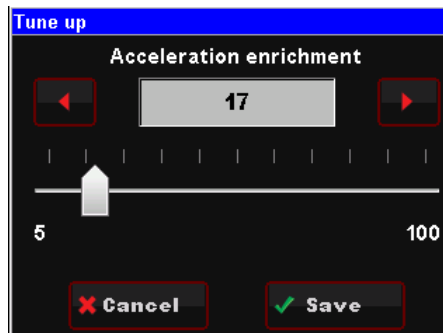


Figure 31

25.1.3 Fuel Prime

Fuel prime is an option that is enabled by default in all of the base calibrations. The fuel prime function injects a small shot of fuel into the intake manifold when the ignition is turned on, wetting the intake and allowing the engine to start much quicker. The amount of fuel is based on the engine temperature and how long it was since the engine previously ran. This amount of fuel can be increased or decreased by changing the “Percent” value. If the engine seems flooded reduce this value, if the engine seems to want more fuel, increase it. Experiment for best results. Typically this value will range from 75-150% with a maximum of 200% typically used (**Figure 32**).

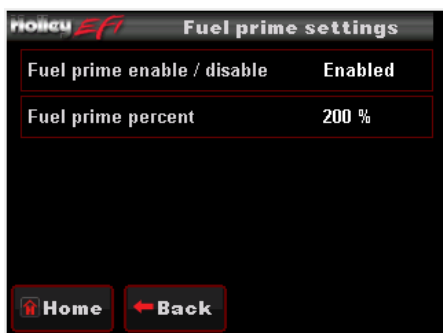


Figure 32

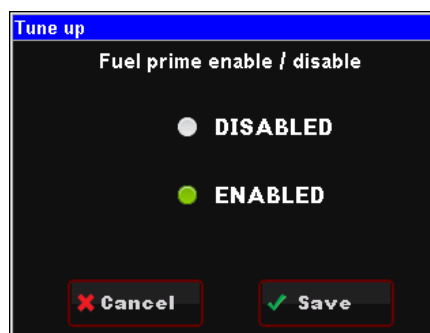


Figure 33

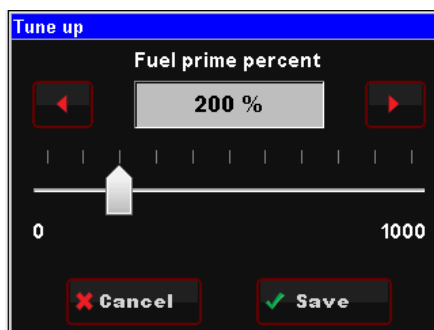


Figure 34

NOTE: This only injects fuel once at key-on, and will not do it again until the engine has run. This fuel prime occurs ½ of a second after key-on. If you quickly turn the ignition key without waiting for ½ a second, the prime will not occur and it may take longer for the engine to start.

25.2 Fuel Learn

25.2.1 Learn Enable/Disable

The LEARN Enable / Disable menu turns the Self Tuning “On” and “Off”. If enabled, self-tuning is performed. Learning should be enabled when an engine is just started and the tuning process is occurring. After the vehicle is driven under various operating conditions, and is running well, it is advised to disable learning, OR slow the Learn Speed to “Slow”. See **Figure 35**.

25.2.2 Learn Speed

This parameter adjusts how fast the learning process occurs. In the beginning with a new tune it should be set to “Fast”. After the vehicle is driven under various operating conditions, and is running well, it is advised to disable learning, OR slow the Learn Speed to “Slow”. See **Figure 37**.

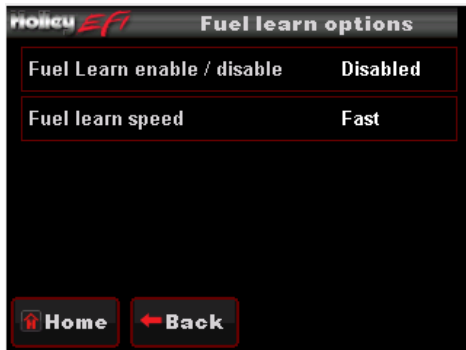


Figure 35

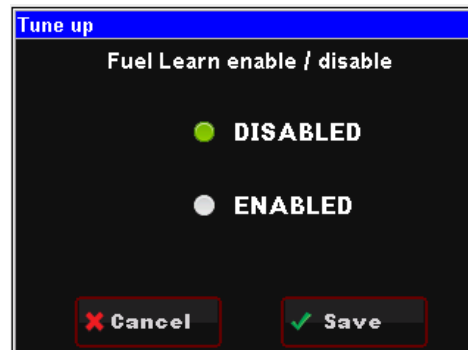


Figure 36

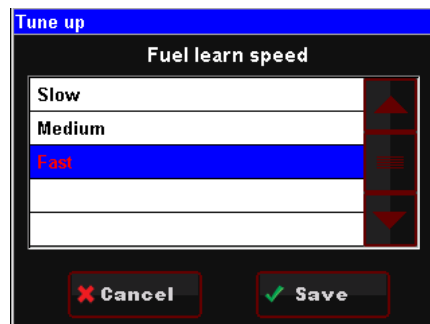


Figure 37

25.3 Basic Idle

Selecting BASIC IDLE allows you to change the Target Hot Engine Idle Speed. This should be adjusted to your desired idle RPM. Values between 650-800 rpm are typical. Larger camshafts or aftermarket torque converters may require a slightly higher value to maintain proper idle quality while in gear (**Figure 38**).

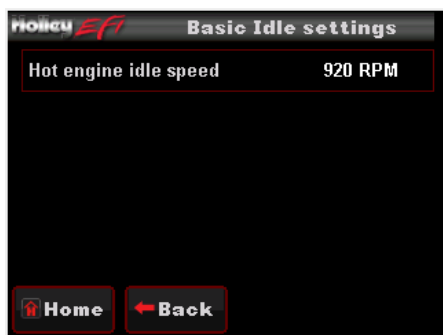


Figure 38

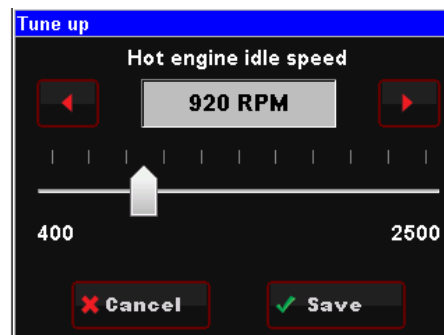


Figure 39

Selecting IDLE allows you to change the Target Idle Speed.

IDLE SPEED: Adjust the idle speed to what is desired.

25.4 Spark



Figure 40

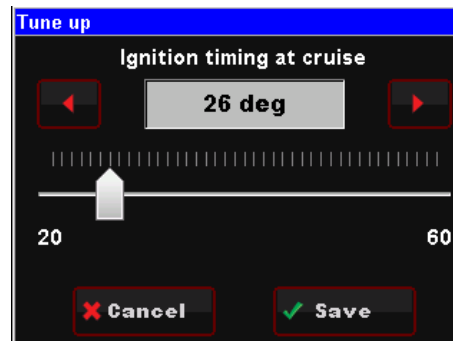


Figure 41

All Holley base tunes contain timing curves that will provide adequate engine operation, however the ignition timing at idle, cruise, and wide open throttle can be adjusted independently from each other to compensate for different engine combinations and geographical and climate extremes (Figure 40).

The following are typical values for each:

- **Idle Timing** – 18-34 degrees is typically used at idle. The larger the camshaft, the more timing is usually used.
- **Cruise Timing** – 32-48 degrees is typically used when cruising for optimal fuel economy.
- **Wide Open Throttle Timing (WOT)** – LSx applications typically don't use more than 28 degrees at WOT. Older V8 engines are usually between 32-38 degrees.

NOTE: Too much timing can cause pre-ignition that can damage an engine. Be cautious when tuning.

NOTE: The actual timing between IDLE, CRUISE, and WOT is blended together automatically. Consequently, the timing you see on the MONITOR screen, may not be exactly what you set for these settings. Changing these settings raises or lowers the "curve" of that specific area.

26.0 SYSTEM SETUP

26.1 System Tuning

From the HOME MENU, select TUNING, and SYSTEM. There are four areas you can modify; OUTPUTS, ENGINE SETUP, and IGNITION SETUP (Figure 42). **NOTE:** TRANSMISSION is not applicable for this installation.

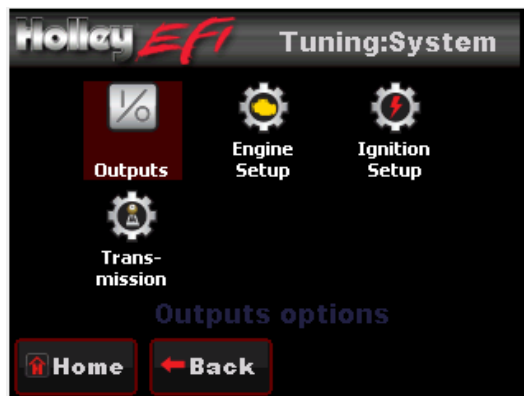


Figure 42

26.1.1 Outputs

The OUTPUT screen allows for the Fan #1 and Fan #2 ON and OFF temperatures to be adjusted (**Figure 43**). The ON temp needs to always be a higher value than the OFF temp. Use a difference of at least 5 degrees so they aren't cycling excessively. In Terminator Kits these are ground outputs that should be wired to trigger the fan relays. NEVER wire them directly to the fans! The AC Disable value is a TPS value above which a 12 volt output is sent out to deactivate the air conditioning compressor at wide open throttle (**Figure 44**).

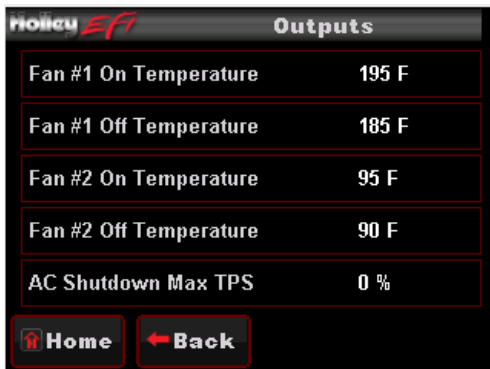


Figure 43

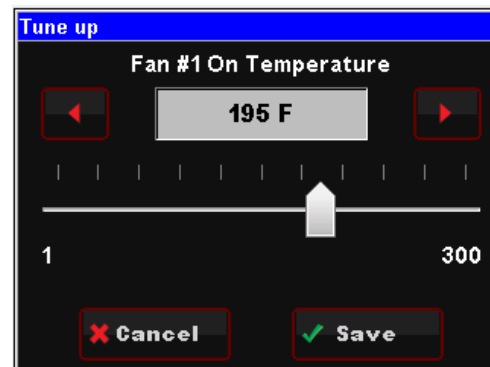


Figure 44

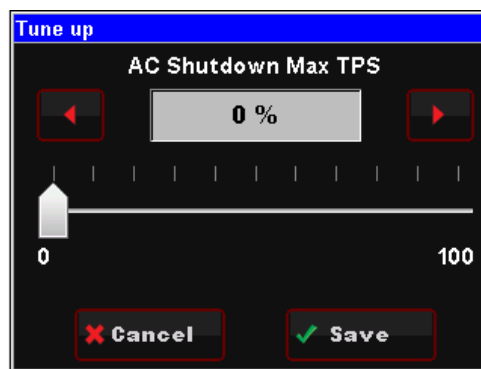


Figure 45

26.1.2 Ignition Setup

There are two parameters that are adjustable in the IGNITION SETUP. Ignition input type and engine rev limiter (**Figure 46**).

REV LIMIT – The rev limiter is only enabled when using a computer controlled small cap GM HEI. It is an ignition-only rev limiter. It will not shut fuel off. Enter a value for which you'd like the rev limiter to start.



Figure 46

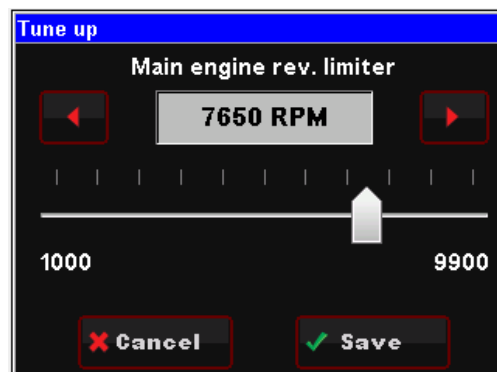


Figure 47

NOTE: STEALTH TERMINATOR™ injector size/flow is calculated at 43 PSI.

FOR ADVANCED TUNING INFORMATION PLEASE GO TO http://documents.holley.com/techlibrary_199r10751.pdf

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