

Installation Guide

Throttle Body Fuel Injection

555-16800



JEGS.com

1-800-345-4545

Notes

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Parts List



1	4-Injector Throttle Body	5	ECU
	Pre-Installed Inlet/Outlet Port Plugs	6	Coolant Temperature Sensor
	Pre-Installed Injectors	7	NPT Reducer (1/2 in. NPT to 3/8 in. NPT)
	Pre-Installed Idle Air Control (IAC)	8	O2 Sensor (Wideband)
	Pre-Installed Manifold Absolute Pressure (MAP)	9	O2 Bung Kit (Clamp-On)
	Pre-Installed Throttle Position Sensor (TPS)	10	Cable to Connect Handheld Controller to USB Port
2	Main Harness	11	(2) Base Gaskets (4150-Style)
3	Handheld Controller	12	Air Filter Gasket
4	Cable for Handheld Controller	13	Stand for Handheld Controller

Fuel Injection made easy from a name you trust, JEGS.

Congratulations on purchasing one of the most dynamic fuel injection systems on the market today. This is a universal, throttle body style electronic fuel injection system, intended for most V8 engines originally equipped with carburetors. Engines with Q-Jet style manifolds will require an adapter, such as part# 555-15440, to run the Bandit system.

The JEGS Bandit fuel injection system features easy-to-use software, which is pre-installed onto a supplied touch screen controller. The software will allow you to monitor real-time system performance. Your existing distributor and ignition box, if used, functions as before and controls timing.

The JEGS Bandit is self-tuning once the initial setup is performed using the hand-held controller. When the necessary initial inputs are made the handheld controls the system which creates a base fuel map to get the engine running. Once running, the self-tuning programming will fine-tune the map to produce optimum power and performance.

Through the use of a Wide Band O2 Sensor the system can continuously make adjustments to fuel delivery to provide the correct air/fuel ratio under all climates and altitude conditions. Several sensors are also integrated into the throttle body assembly including the Throttle Position Sensor (TPS), and the Manifold Absolute Pressure Sensor (MAP). The Wideband O2 Sensor is installed into the exhaust pipe. This system is designed with safety in mind and has a self-adjusting "limp home" mode. It also has a data-logging feature to track what is going on with the system while it is running, that can be reviewed later, to ensure optimal performance.

Read Before Installation

Please be sure to verify that all of the kit components have been received. Reference the parts list on the previous page. If any components are missing or damaged, please contact Customer Service at: 1.800.345.4545

Installation of this kit can be done with basic hand tools. However, it is highly recommended that you have a professional mechanic with a solid understanding of fuel system modifications perform the installation.

Verify that you have the required fuel system prior to installation. This is crucial to ensure the proper fuel supply required for fuel injection. Below are several options depending on your project needs.

Fuel Supply Kits

- 555-15948 - Inline, Frame-mounted Pump
- 555-15949 - Inline, Frame-mounted Pump

Fuel Pump

- 555-159076 - 85gph Inline Pump

Fuel Pressure Regulator

- 555-159120 - 30-100psi

Fuel Pump Wiring Harness & Relay Kit

- 555-10564 - Single Pump with 30-Amp Relay

Warnings

Proper installation is the responsibility of the installer. Improper installation will void all manufacturer's standard warranties and may result in poor performance and/or engine or vehicle damage. The JEGS Bandit will not accept stock emission control systems.

This system is not legal for use on pollution-controlled motor vehicles.

Fuel Requirements

Because the JEGS Bandit fuel injection system uses a wideband oxygen sensor (O2), unleaded fuel must be used at all times. Using leaded fuel will damage the O2 sensor and void your warranty.

If leaded fuel is present in your fuel tank, the tank must be drained and filled with unleaded fuel.

It is also recommended to have a full fuel tank before operating the vehicle, once installation is complete.

Automatic Transmission

Automatic transmission adjustments must be completed and verified before driving. The transmission kickdown and shift points must be properly adjusted and verified before and after installation of this fuel injection system.

Cooling System

The minimum requirement for the thermostat is 180° Fahrenheit (82° Celsius).

Ignition

Verify that the ignition timing and spark advance curve have been set properly. High Electromagnetic Interference (EMI) suppression spark plug wires are a necessity. Electromagnetic interference can cause issues with the engine management system by sending erroneous signals. DO NOT use solid core spark plug wires. Resistor-type spark plugs are necessary.

Safety

Caution must be observed when installing any product involving fuel system parts. Work in a well-ventilated area with an approved fire extinguisher readily available. Eye protection and other safety apparel should be worn to protect against debris and gasoline. The finished installation must be thoroughly checked for any fuel system leaks. All safety precautions must be observed when working with fuel. Disconnect the battery ground wire (-) before starting the installation.

Installation

Connect the wiring harness to all sensors and the injector sub harness prior to routing it into the cockpit. This ensures that there is enough slack for engine movement and that all connections are secure. Failure to do so may result in the inability to correctly wire your JEGS Bandit fuel injection system.

Special Instructions

Fittings

Make sure that you remove ALL low-pressure hoses, fittings, and clamps on factory fuel lines and replace them with EFI rated hardware and hoses.

The use of proper flared connections and clamps is a necessity. Be careful not to mix 45° and 37° AN fittings. These fittings look similar, but will not work together. The 45° fittings are usually sourced from a hardware or auto parts store, while the 37° fittings are available from JEGS and most speed shops.

Controller Settings

“Cranking Fuel” and “Hard Throttle Enrichment” (accelerator pump) are tuned by the user. Selecting the correct camshaft, “Cam Mild-Wild 1-4”, and “Engine CID” (Cubic Inch Displacement) during setup allows the controller to learn the criteria for your engine. Cruise and WOT (Wide Open Throttle) mixture (trims) are continuously learned and adjusted by the ECU.

- When disconnecting the battery: Always turn the ignition off and allow at least 30 seconds for the ECU to save the latest data before disconnecting the battery.

Fuel

The JEGS Bandit is intended for use with unleaded pump gas. The system is not compatible with Ethanol fuels. The use of E-85 is not recommended and will void your warranty.

This system needs an external fuel pressure regulator set at 58 psi.

The JEGS Bandit comes with 62 lb. injectors pre-installed. This unit is capable of handling 200-550 hp @ 58 psi.

Note: Your fuel tank must have a vent to prevent pressure build up inside the tank.

Ignition

The JEGS Bandit is designed to be used with street or performance-based ignition systems. A few examples of these systems include:

- HEI Ignition
- Multi-Spark CD Ignition
- MSD Digital 6AL
- MSD Street Fire

This system will not operate with a race oriented ignition. A few examples of these systems include:

- MSD Digital 7AL
- MSD Digital 7AL-2
- MSD Digital 7AL-3
- MSD Digital 8-Plus

Please refer to the ignition system's instructions, as some features may need to be altered for proper operation. The JEGS Bandit does not control timing, but depends on the ignition/timing curve to be correct for optimal throttle response.

Engine Protection Feature

The JEGS Bandit is programmed with a limp home mode. This feature does not shut down your system; instead the ECU is designed to compensate if a sensor fails. This means that if for any reason a sensor fails, that sensor will receive either a default value or a simulated value. This is to ensure that the engine remains running in a safe and controlled manner so that you can get your vehicle to a safe location for repair.

Due to the compensation features of the ECU, the way to check if something is going wrong with your system is by the fault codes option on the main menu of your handheld controller. The fault code comes up under OBD-II, diagnostic standard. To the right of the code it will state the problematic sensor.

Another useful feature in your handheld controller is the rev offset. This will protect your engine from long term abuse by lowering your built-in rev limiter to prevent over-revving and possible damage during warm-up. It will automatically turn off once your engine reaches operating temperature.

Vacuum Port Layout

Determine the engine's need for vacuum ports including port and manifold vacuum. These ports cover accessories such as power brakes, vacuum advance, transmission modulation, PCV, and more.

There are two $\frac{3}{16}$ in. and three $\frac{3}{8}$ in. nipples. **See Figures 1 and 2** for their locations and uses.

Figure 1

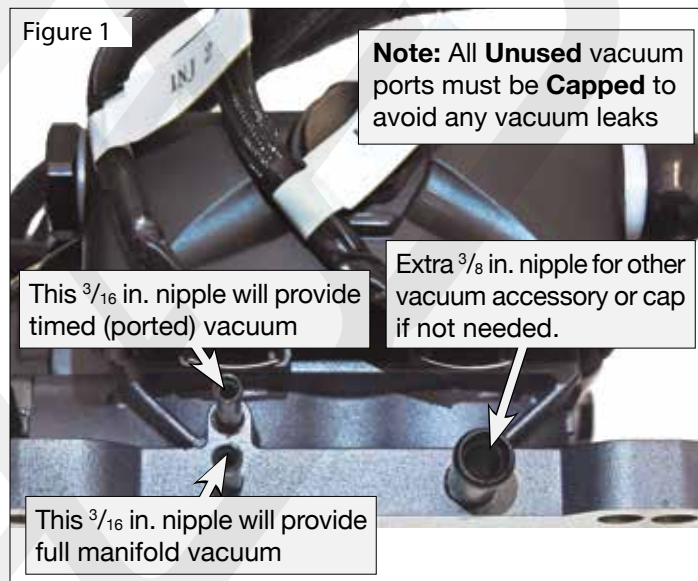
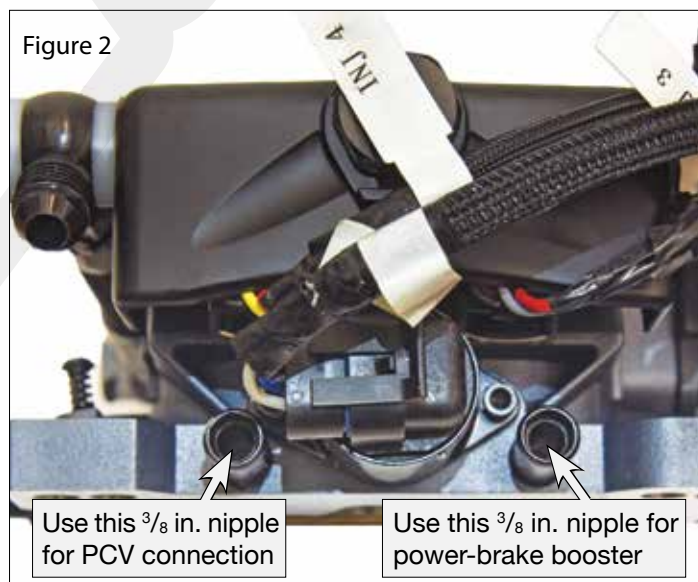


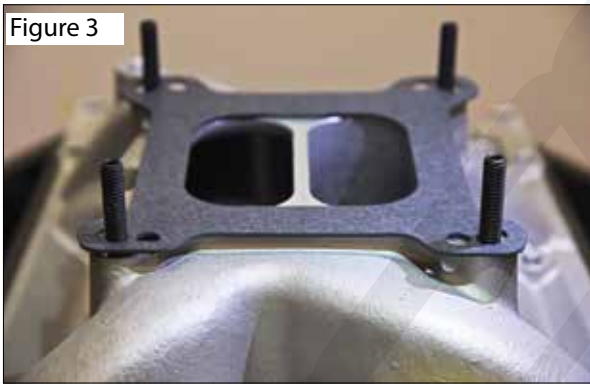
Figure 2



Throttle Body

1. Remove the existing carburetor and gasket.
2. Install the supplied base gaskets on the intake manifold. Using the existing studs, install the throttle body. The throttle body linkage must be on the driver's side of the engine.
3. Install throttle cable bracket and cable.
4. Secure the throttle body to the studs with the original nuts and washers.
5. Rotate throttle and check for interference.
6. Torque the manifold nuts to 10 lb. ft. in several steps using a crisscross pattern.

Figure 3



Coolant Temp Sensor

1. Remove existing sensor, if one is already in use.
2. Install new sensor with thread sealer, use the supplied $\frac{1}{2}$ in. NPT to $\frac{3}{8}$ in. NPT adapter if needed.

Figure 4



Wide-Band O2 Sensor

The O2 sensor is the key component of any fuel injection system. Only one sensor is required. This unit continuously monitors the exhaust gas mixture and sends the information to the ECU where adjustments are constantly made to maintain the air/fuel targets.

1. The supplied O2 sensor bung can be installed in either exhaust bank.
2. The O2 sensor connects to the cable in the main wiring harness.
3. Ideally the sensor should be in the exhaust collector or within 8 inches of collector. It must always be at least 18 inches from the exhaust tip to prevent reversion and false lean readings.
4. The sensor should be at 10° to 14° above horizontal to allow condensation to run off. If this is not done, the sensor is susceptible to damage.

See Figure 5.

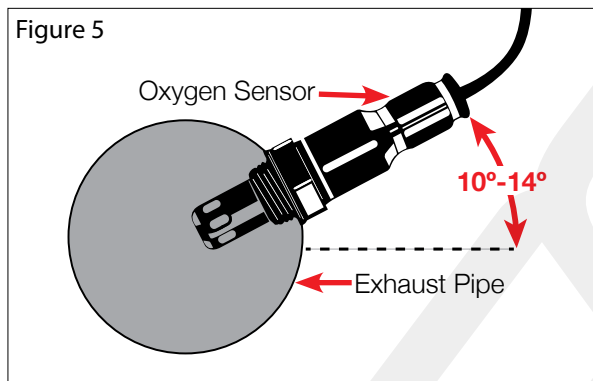
5. Never position the sensor on the outside of a bend in the exhaust tubing.
6. Drill a $\frac{7}{8}$ in. diameter hole in the desired location.
7. The supplied bung kit can either be welded in place or clamped in place. The clamp-on style works well and will not leak. If welded, make sure the bung is welded completely all the way around and does not leak. Thread a M18-1.5 bolt into the bung to prevent distortion when welding.
8. Install the sensor into the bung. Tighten securely.
9. Connect the O2 sensor to the sub-harness that connects to the throttle body.
10. Note: The O2 sensor will not work on "Zoomie" style headers.

Warning: Do not start the engine without the sensor cable sub-harness connected to the throttle body and the fuel injection system is fully operational, or damage will occur to the sensor!

See images on to the next page →

Wide-Band O2 Sensor

Warning: A properly sealed exhaust system is critical for the JEGS Bandit system to function properly. Any air leaks in the exhaust system upstream of the O2 sensor will skew O2 sensor output to the ECU resulting in improper calibration that may result in damage to your engine. Improper installation of the O2 sensor and any damage that may result is not covered by any JEGS Warranty.



Wiring Harness

The harness connections include the following:

- MAP
- IAC
- O2
- TPS
- CTS
- Fan
- Tach
- Injectors
- Ground
- Battery Positive
- ECU
- Controller Connection
- Fuel Pump
- Key Hot

ECU (Engine Control Unit)

When installing the harness, the external ECU can be mounted anywhere in the engine bay or under the dashboard. Position away from areas of excessive heat to prevent damage. When mounting, use a vibration isolation mounting kit (such as 555-40687).

Wiring Harness

MAP (Manifold Absolute Pressure)

The MAP sensor is attached to the outside of the throttle body on the passenger side. Two sensors, Inlet Air Temperature (IAT) and Manifold Absolute Pressure (MAP), are combined for ease of installation. The Manifold Absolute Pressure measures the load of the engine and will range between 10-90 kPa while the engine is running. When the engine is off it will read at 99-100 kPa.

See figure 6 below.



IAC (Idle Air Control)

The Idle Air Control valve gets installed directly into the throttle body. It is used to control the idle speed of the engine. **See Figure 7.**



Wiring Harness

TPS (Throttle Position Sensor)

The Throttle Position Sensor's purpose is to record how far the throttle blades are opened. The ECU maintains the calibration of the sensor, but if the TPS does not read 0 at idle then the sensor needs recalibrated. **See Figure 8.**



Figure 8

CTS (Coolant Temperature Sensor)

The Coolant Temperature Sensor, fitted to the intake manifold, plugs into the Bandit's wiring harness. This unit measures the temperature of the engine coolant. The information is sent to the ECU to adjust the fuel trim accordingly. Use thread sealer on the sensor when mounting it to the water port. A supplied NPT adapter is included, if needed. **See Figures 9.**



Figure 9

Injectors

The throttle body has four 62 lb. injectors already installed. This arrangement will allow the system to supply enough fuel flow for up to 550 hp. The throttle body has the injectors and harness pre-installed and ready to go.

Wiring the Fuel Injection System

See the wiring chart, **Figure 11**, which lists each wire in the main harness that is used in the system and where it connects.

Note: Typically some of the wires listed in the chart may need to be extended. It is strongly suggested that any wire extensions are made with the same gauge and color wires as is used in the supplied harness. Make connections as a soldered joint rather than a crimped connection. Utilize a shrink-wrapped sleeve covering. **See Image 10.**

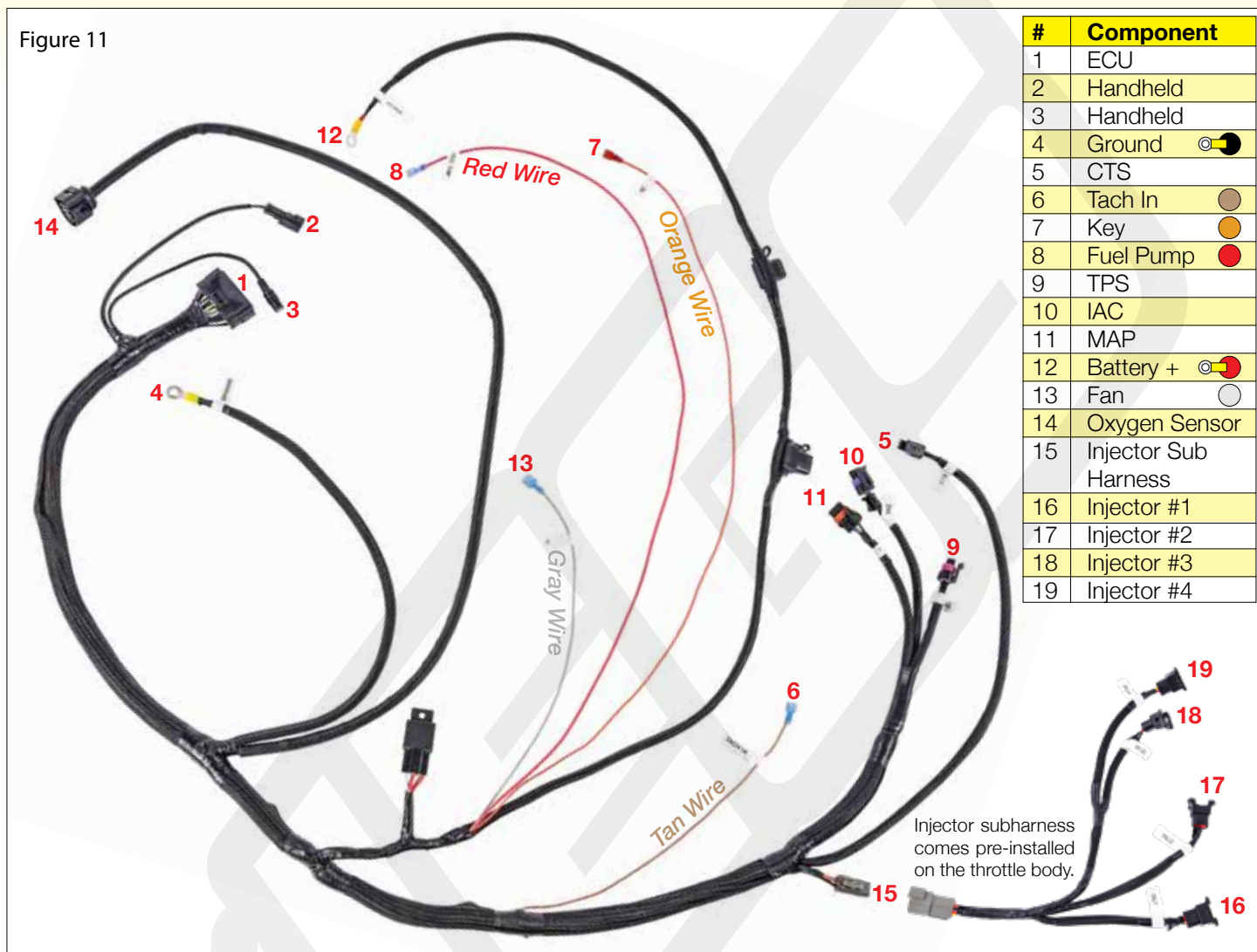
All modifications made to the wiring can only be made on wires listed in the wire chart, **Figure 12**, such as extensions and cuts. Any modification of the ECU main harness, other than these listed wires, will void the JEGS Fuel Injection Warranty.



Figure 10

Wiring Harness

Figure 11



#	Component
1	ECU
2	Handheld
3	Handheld
4	Ground
5	CTS
6	Tach In
7	Key
8	Fuel Pump
9	TPS
10	IAC
11	MAP
12	Battery +
13	Fan
14	Oxygen Sensor
15	Injector Sub Harness
16	Injector #1
17	Injector #2
18	Injector #3
19	Injector #4

Wire Color	Components that Connect to Wiring Harness	Figure 12
Red	Fuel Pump Circuit #8 - This wire provides 12v power to the fuel pump. Connect to the positive (+) terminal on the pump. No relay required. The fuel pump circuit is rated at 15 Amps max.	
Orange	Main Power (Key) #7 - Connect this wire to the ignition switch or other switched 12v power source that is hot when the key is in the "ON" and "Crank" (Start) position, and not when powered OFF.	
Tan	Tachometer Input Wire #6 - This triggers the ignition system. It connects to the negative (-) terminal on the coil. It connects to the "Tach" terminal on the distributor caps, or connects to a tach output on a CDI box.	
Gray	Fan Circuit #13 - This wire goes to the ground (-) terminal of the fan relay.	
Red	Battery Positive #12 - This eyelet connects to the positive battery terminal.	
Black	Ground #4 - This eyelet connects to the negative battery terminal.	

Handheld Controller

There are two ways to navigate the Bandit handheld controller; you can use the touchscreen with your finger, or the keypad: up, down, left, and right. The keypad consists of the black buttons on the right hand side of your controller. It can be used to view the displays on the controller by moving the buttons up, down, or side-to-side. To complete the selection (Enter), press “OK” in the center of the keypad.

See Figure 13.



ECU Changes Procedure

1. When making changes to the ECU through the controller, make sure that the ignition key is in the “ON” position.
2. Once the changes are made, turn the key off, and wait 30 seconds until the values disappear under the “Dashboard” feature. Doing this will ensure that your changes received a hard save.
3. Once the hard save is completed, if desired, the vehicle battery can be disconnected without interference with the calibrations.

Initial Programming

This simple procedure is performed using the handheld controller. A laptop is not required.

See Figure 14.

1. Plug the controller into the wiring harness.
2. Input the engine criteria
 - Cylinders
 - Engine CID (Cubic Inch Displacement)
 - Cam Mild-Wild
 - Rev Limit RPM
 - Idle RPM Warm
 - Fan Control (Coolant Temp)

Note: When changing values on the handheld controller, you must depress the keypad button, press “OK”, to send your info to the ECU. You will then see the “Sent ECU Succeed” message. This is a confirmation that the transfer was successful. Changing the number alone will not change the value in the ECU. Also, all tunes have a factory default which may work for you. Change only as needed.

3. The controller can be removed or left connected. When connected, there is a “Dashboard” and Large Gauges” screen that will show engine parameters in real time. Included in your kit is a windshield or dash mounted bracket to hold the controller while driving.



Handheld Controller

Value Selection Step-by-Step

The following steps will guide you through entering the correct criteria for the initial programming. These settings will vary by engine. Please verify your information is correct to ensure proper fueling. For the best performance, you may have to try multiple settings with criteria such as “Cam Mild-Wild 1-4,” and “Rev Limit RPM.”

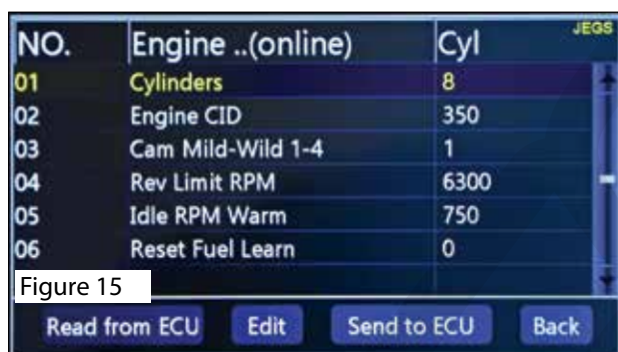


Figure 15

1. **Cylinder** - Factory preset is 8 and shouldn't need to be changed for most installations
See Figure 15.



Figure 16

2. **Engine CID** - Factory preset is 350 CID. To change value you can use the touchscreen buttons. (Edit > CLR value from screen > Enter correct CID > Press OK > Depress keypad button to Enter). **See Figure 16.**

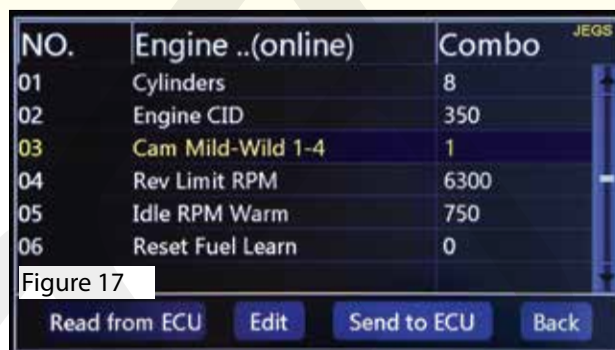


Figure 17

3. **Cam Mild-Wild** - Camshaft selection is based on the engine's vacuum load. Choose the selection that corresponds with the amount of manifold vacuum your engine produces at idle (in neutral). **See Figure 17.**

The following specification are estimates. Depending on your cam's vacuum load you may need to switch between the available options to get the engine to run better for you application.

- Cam 1 - 15 in. Hg or above
- Cam 2 - 10 in. Hg to 15 in. Hg
- Cam 3 - 8 in. Hg to 10 in. Hg
- Cam 4 - 6 in. Hg to 8 in. Hg

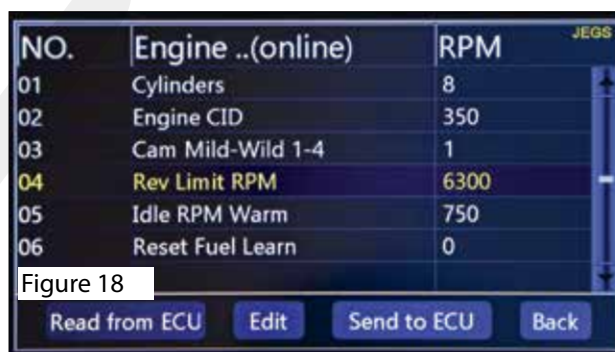


Figure 18

4. **Rev Limit RPM** - This is a fuel cut. Please set at least 200 RPM above the maximum RPM of your engine. This is not a soft touch rev limiter, but a built-in safety feature. **See Figure 18.**

Handheld Controller

NO.	Engine ..(online)	RPM
01	Cylinders	8
02	Engine CID	350
03	Cam Mild-Wild 1-4	1
04	Rev Limit RPM	6300
05	Idle RPM Warm	750
06	Reset Fuel Learn	0

Figure 19

- 5. Idle Speed Warm** - The idle speed at which you wish your engine to run at 150° F (65° C) and above. If you are using the JEGS Bandit to control your electric fans, your idle speed will increase by 30 rpm.

Note: The idle will be higher when the engine is cold and will taper down to the set speed at 150° F (66° C). **See Figure 19.**

Fan 1 Setup

Calibration	
1.	Engine Setup
2.	Idle Setup
3.	Fan Setup
4.	Reset Learn

Figure 20

On the Calibration screen, **See Figure 20**, follow these steps:

If using an electric fan, go to option #3 and select "Enable" or depress the joystick button to send info to the ECU. If not using an electric fan, select "Disable" and continue the Enter/Send steps above.

Note: This step is important to eliminate a fault code from appearing when not using an electric fan, and also preventing the idle from increasing when the fan "On" temperature is achieved and no fan is used.

If the fan is enabled, **See Figure 21**, follow these steps:

1. Fan 1 ON Temp - Enter the desired temperature
2. Enter/depress to send to ECU.
3. Idle speed will increase when the fan is activated.

Note: Idle speed increase is not user programmable in basic calibration, but can be adjusted in the pro-tuning screen.

4. Fan 1 OFF Temp - This is usually set approximately 5 degrees lower than the Fan ON temperature, but is up to user preference.

Note: Setting must be lower than fan ON temperatures for fans to shut off.

DO NOT start your engine until you have turned the ignition to the OFF position for at least 30 seconds for the ECU to store the data. At this point you have made all of the selections needed to start your engine. This is a one-time setup and the changes are permanently stored in the ECU even if you disconnect the battery. These edits can be changed anytime in the future, but no battery power is needed for the ECU to keep these selections in it's memory.

NO.	Fan Set.(online)	deg F
01	Fan ON Temp	192
02	Fan OFF Temp	187
03	Option Fan Enable	enabled

Figure 21

On-Engine Adjustment

When you set the idle speed, you may notice some new sounds, compared to when running the carburetor. Suction and whistling noises from air bypassing the IAC valve (Idle Air Control), is normal. The IAC valve maintains idle speed when the A/C compressor or electric fans engage.

IAC Setup

The idle screw on the throttle body will need to be adjusted. This screw has to be set so that the IAC value is nearly closed when the engine is at operating temperature and idling. 3-10 IAC steps are recommended for an engine at operating temperature, out of gear, and idling. When the engine is at idle, the IAC will learn the necessary position to maintain the RPM at the Target Idle Speed. When loads are placed on the engine or when the throttle is open, the ECU will adjust the IAC steps, this is normal. It's best to adjust this screw from a more open position to start with. This will allow the engine to start at a high idle, which will make adjusting the IAC easier.

Note: Once the IAC setup is complete no further adjustments are necessary.

IAC Setup

Steps for adjusting the IAC:

1. Start the engine and get it to operating temperature.



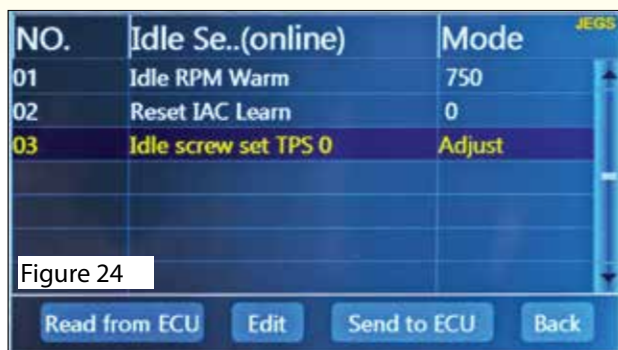
2. Select **#4 - Initial Setup** in the handheld controller
See Figure 22



3. Select **#2 - Idle Setup** in the handheld controller
See Figure 23

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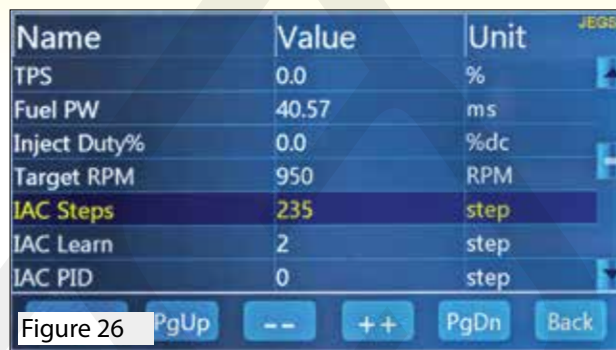
IAC Setup



- Using the keypad scroll down to **#3 - Idle screw set TPS 0**. This setting will need to be changed from “Normal” to “Adjust”. Once the setting has been changed, press the “OK” button to send the information to the ECU.
See Figure 24



- Press the back button to return to the main menu, once on the Main Menu select **#1 - Dashboard**.
See Figure 25



- Using the keypad scroll down until you see **IAC Steps**. This setting should ideally read between 3-10 steps. **See Figure 26**

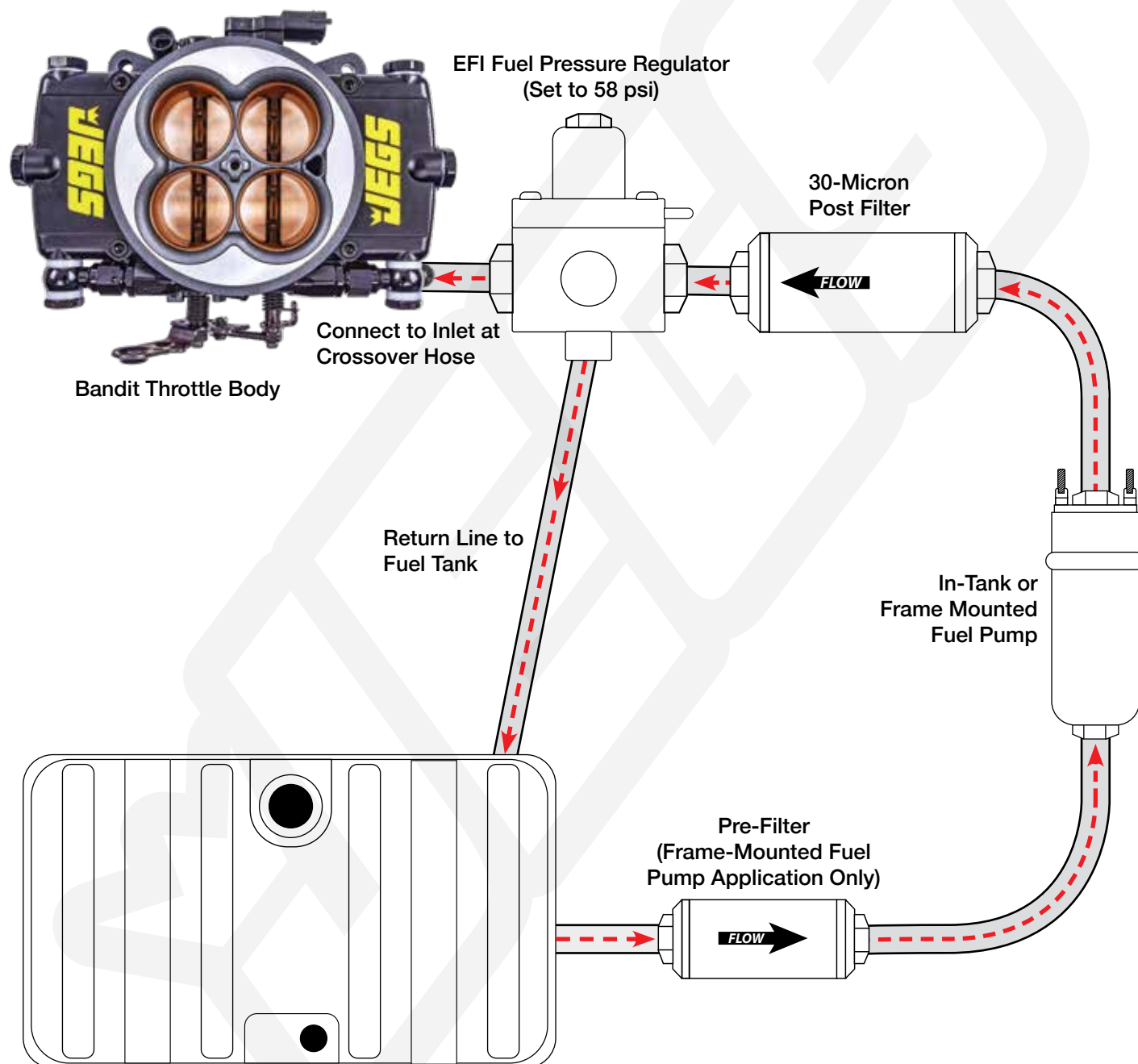


- If the number is above 10, then you will need to turn the adjuster screw In or Clockwise. It will take a moment for the IAC to compensate, so make small adjustments and wait for the idle to stabilize between adjustments. **See Figure 27**
- Once you're finished adjusting the IAC turn the Key off so the changes can be saved to the ECU. Wait at least 30 seconds before turning the key back on.

Diagrams

Plumbing Schematic for Return-Style System

Figure 28



Diagrams

Connections for JEGS EFI System with Ready-to-Run Distributor

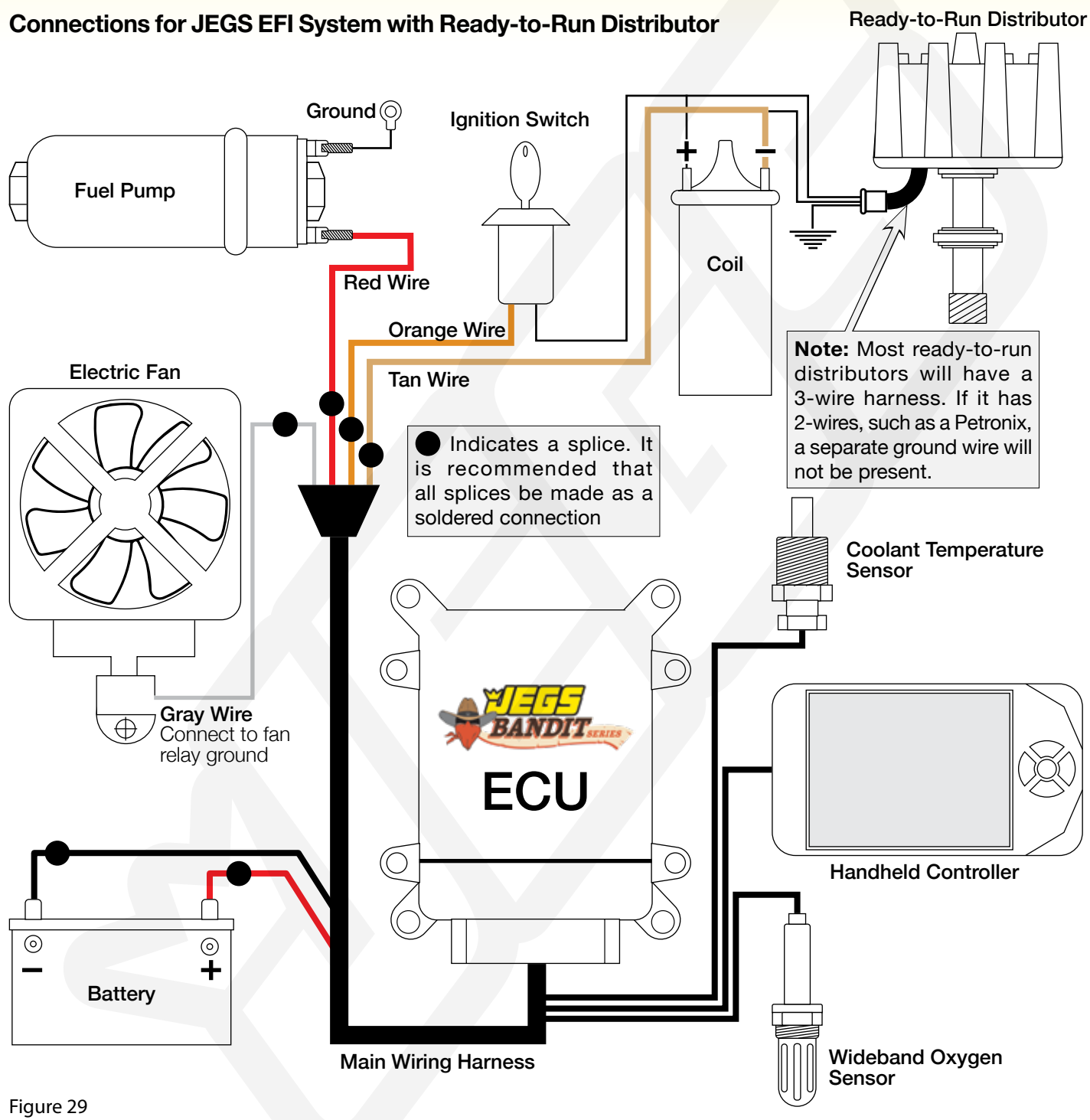


Figure 29

Diagrams

Connections for JEGS EFI System with an HEI Distributor

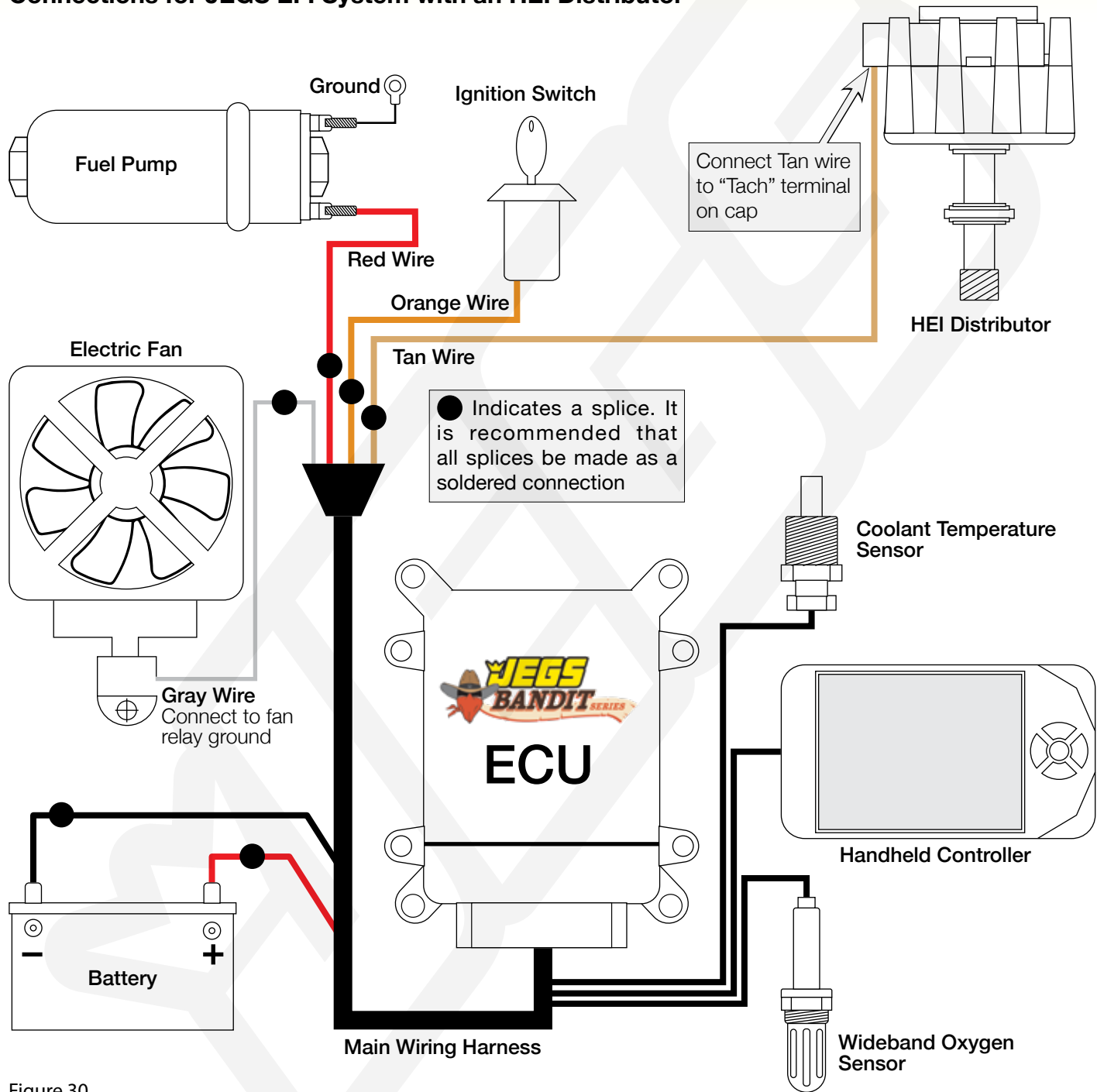


Figure 30

Use this schematic for HEI distributors without an external CDI box, such as an MSD 6AL, or similar aftermarket ignition box.

Diagrams

Connections for JEGS EFI System with External CDI Box

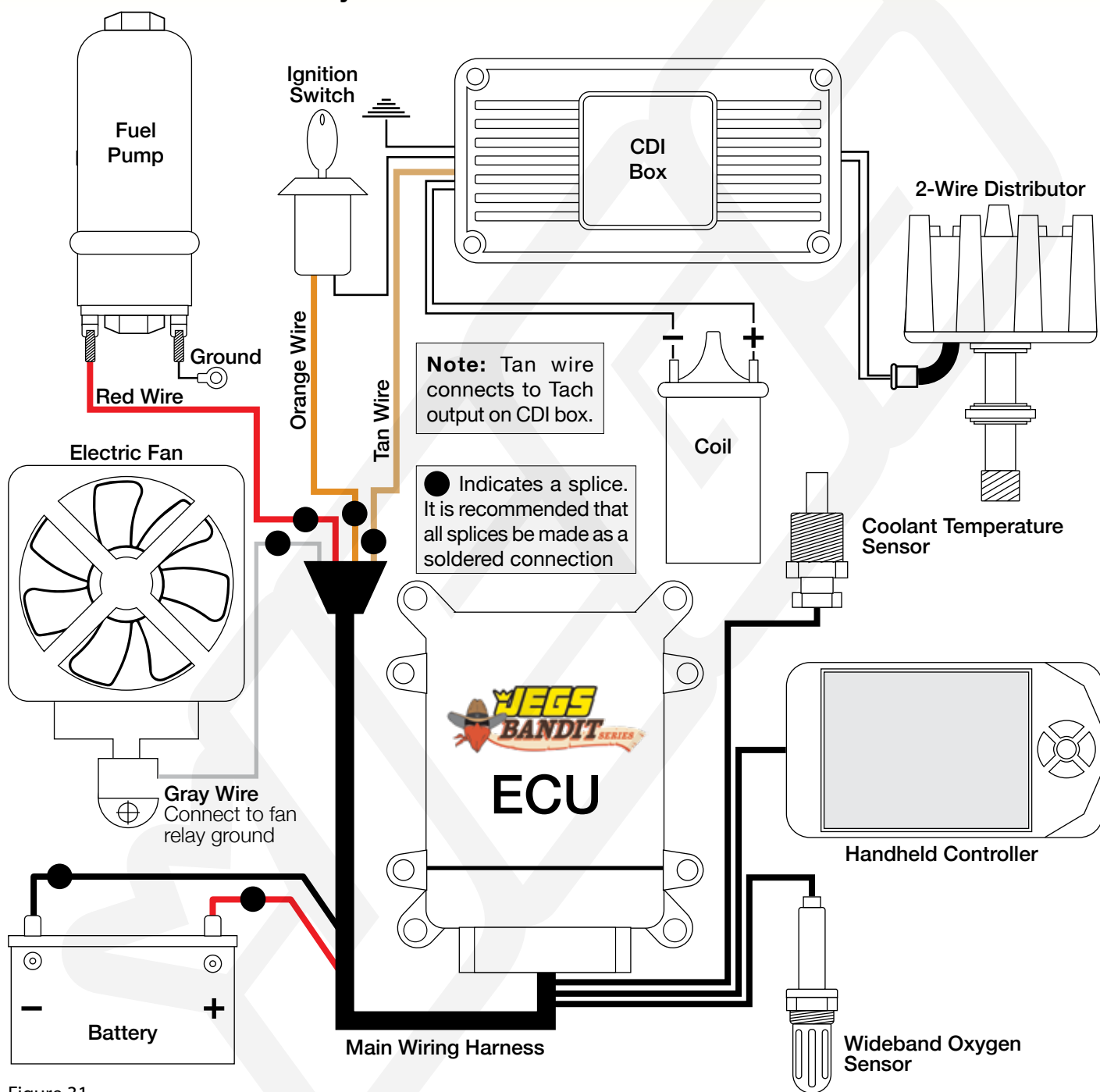


Figure 31

Use this schematic for conventional 2-wire distributors with an external CDI box, such as an MSD 6AL, or similar CDI box.

Fuel Delivery

Fuel Deliver Requirements

Note: Before starting any installation, disconnect the ground connection (-) on the battery. Be very careful when disconnecting any fuel lines and let the fuel drain into a receptacle or a dry cloth. Do not allow raw fuel to collect on the engine as this is a fire hazard. Please use extreme caution when working on the fuel system.

The JEGS Bandit is an unregulated system that comes with a fuel crossover hose installed. An external regulator must be used to ensure that the throttle body receives the proper 58 psi. When plumbing the JEGS Bandit run a fuel line from the tank through your fuel delivery system and then to the (-6AN) crossover hose. **See Figure 22.**

If you are using a regulated fuel delivery system, then an external regulator is not necessary. If the fuel delivery system does not have a regulator, an external regulator must be installed after the filter.

The JEGS Bandit is not compatible with a low pressure carbureted style pump. It requires a high pressure fuel injection pump that is either inside the gas tank or mounted between the fuel tank and fuel pressure regulator. It is also important to make sure that the system uses a **30 micron filter**.

Warranty

JEGS provides customers with the highest quality performance products. JEGS warrants the Bandit -Series Fuel Injection System to be free from defects in both workmanship and materials for a period of one year from date of purchase, provided that the product is properly installed and subjected to normal use and service, is not used for racing or competition purposes and that the product is not modified or altered in any way unless specified by our instructions.

Customers requiring warranty assistance should contact JEGS and we will determine the method of satisfying the warranty. Should JEGS determine that the product needs to be returned, it should be accompanied by proof of purchase and a clear description of the exact problem. The product must be returned freight pre-paid. If a thorough inspection of the product by JEGS indicates defects in workmanship or material, our sole obligation shall be to repair or replace the product. This warranty covers only the product itself and not the cost of installation or removal.

JEGS SHALL NOT BE LIABLE FOR ANY AND ALL CONSEQUENTIAL DAMAGES OCCASIONED BY THE BREACH OF ANY WRITTEN OR IMPLIED WARRANTY PERTAINING TO THIS SALE, IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT SOLD.

If you have any questions regarding this product or installation, please contact our Technical Department at 1-800-345-4545.

Items You Need

Part No.			Description			Part No.			Description		
1.	555-10564	Fuel Pump Harness & Relay	70.	555-100285	AN Hose Complete Pressure Test Kit (-03AN to -16AN)	71.	555-80544	Nylon Vise Jaws (4 in. wide for AN Hose Ends)	72.	555-80547	Aluminum Vise Jaws (4 in. Wide for AN Hose Ends)
2.	555-159120	Fuel Pressure Regulator (EFI Billet)	73.	555-80548	Vise Jaw Protector (For AN Hose Ends)	74.	555-82035	Cushion Clamps (-6AN Hose)	75.	555-W5355	Screw Assortment
3.	555-159076	Inline Fuel Pump (Bosch-Style)	76.	555-W50092	Cordless Drill (19.2-Volt with 13-Piece Bit Set, 3/8 in. Chuck)	77.	555-W50086	Electric Drill (3/8 in. Chuck with Keyless Chuck)	78.	555-150114	Step Drill Bit Set (3-Piece)
4.	555-15948	Inline Fuel Delivery Kit	79.	555-81903	Extension Cord (With Retractable Reel)	80.	555-W2270	Extension Cord (25 ft. 16 ga.)	81.	555-W4034K	Funnel and Drain Pan Kit
5.	555-15949	Inline Fuel Delivery Kit	82.	555-80006	Aluminum Low-Profile Floor Jack (2-Ton)	83.	555-80037	Jack Stands (6-Ton)	84.	555-W41001	Wheel Chocks
6.	555-15440	Spread Bore Adapter	85.	555-1250	Safety Glasses	86.	555-65010	Fender Cover	87.	555-W2237	Work Light (120V)
7.	555-15840	Carburetor Studs	88.	555-81927	Work Light (LED 60-Watt)	89.	298-52811	Pod Light (LED)	90.	555-80427	Tool Set (123-Piece)
8.	555-157110	Linkage Plate	91.	555-81440	Work Bench	92.	555-80170	Work Bench Utility Mat (24 in. L x 16 in. W)	Optional Parts Description		
9.	555-157050	Throttle Bracket (Driver Side Rear Stud)	Part No.								
10.	555-157052	Throttle Bracket (Driver Side Rear Stud)	1.	555-500078	Air Cleaner (14 in. x 4 in. Chrome)	2.	555-500080	Air Cleaner (14 in. x 4 in. Chrome w/l ogo)	3.	555-500074	Air Cleaner (14 in. x 3 in. Chrome)
11.	555-157210	Throttle Linkage Adapter (1977-1986 GM)	3.	555-500074	Air Cleaner (14 in. x 3 in. Chrome)	4.	555-500052	Air Cleaner (14 in. x 3 in. Blk)	5.	555-154055	Carburetor Heat Shield (4150-Style)
12.	555-15150	Throttle Bracket & Return Spring (GM-Style Cable)	4.	555-500052	Air Cleaner (14 in. x 3 in. Blk)	6.	555-15495	Carburetor Spacer (4150-Style, 1/2 in. Height)	7.	555-15496	Carburetor Spacer (4150-Style, 1 in. Height)
13.	555-15151	Throttle Bracket & Return Spring (Ford-Style Cable)	5.	555-154055	Carburetor Heat Shield (4150-Style)	8.	555-15497	Carburetor Spacer (4150-Style, 2 in. Height)	9.	555-40002	Distributor (Ready-to-Run, SBC/BBC)
14.	555-15152	Throttle Bracket & Return Spring (Lokar-Style Cable)	6.	555-15495	Carburetor Spacer (4150-Style, 1/2 in. Height)	10.	444-40032	Distributor (Ready-to-Run, Ford 221-302)	11.	555-40002K	HEI Distributor (SBC/BBC)
15.	555-15153	Throttle Bracket & Return Spring (Morse-Style Cable)	7.	555-15496	Carburetor Spacer (4150-Style, 1 in. Height)	12.	555-40620	Distributor Hold Down (SBC/BBC/90° v6)	13.	121-6425	Ignition (MSD 6AL)
16.	555-15154	Throttle Bracket & Return Spring (Mopar-Style Cable)	8.	555-15497	Carburetor Spacer (4150-Style, 2 in. Height)	14.	555-40100	Ignition Coil (High-Energy for Breaker Points/Non-CD, Chrome)	15.	555-40155	Ignition Coil (High Output, Red)
17.	555-157100	Throttle Return Spring Kit	9.	555-40002	Distributor (Ready-to-Run, SBC/BBC)	16.	555-40200	Spark Plug Wires (Universal, 8mm, Red)	17.	555-402000	Spark Plug Wires (Universal, 8mm, Blk)
18.	555-40687	Vibration Isolation Mount Kit (1/4 in. -20 Threads)	10.	444-40032	Distributor (Ready-to-Run, Ford 221-302)	18.	555-402030	Spark Plug Wires (SBC 302 w/HEI Cap, 8mm, Red Hot Pow'r)	19.	555-402030	Spark Plug Wires (SBC 302 w/HEI Cap, 8mm, Blk Hot Pow'r)
19.	555-10859	Tan Wire (16-gauge)	11.	555-40002K	HEI Distributor (SBC/BBC)	20.	555-40231	Spark Plug Wires (Ford 351-460 w/HEI Cap, 8mm, Red Hot Pow'r)	21.	555-402031	Spark Plug Wires (Ford 351-460 w/HEI Cap, 8mm, Blk Hot Pow'r)
20.	555-10851	Red Wire (16-gauge)	12.	555-40620	Distributor Hold Down (SBC/BBC/90° v6)	22.	555-83250	Zinc Manifold Bolts	23.	555-513000	Intake Manifold (SBC, 1955-1986, Cast)
21.	555-10856	Gray Wire (16-gauge)	13.	121-6425	Ignition (MSD 6AL)	24.	555-513074	Intake Manifold (SBC Vortech, Cast)	25.	555-513002	Intake Manifold (SBC Vortech w/L31, Cast)
22.	555-10854	Orange Wire (16-gauge)	14.	555-40100	Ignition Coil (High-Energy for Breaker Points/Non-CD, Chrome)	26.	555-513020	Intake Manifold (SBC 289/302, Except Boss, Cast)	27.	555-210003	Intake Manifold Gaskets (SBC Vortec w/L31, Port: Tapered x 2.1 in. H)
23.	555-10630	Heat Shrink	15.	555-40155	Ignition Coil (High Output, Red)	28.	555-210000	Intake Manifold Gaskets (SBC, Port: 1.34 in. x 2.21 in.)	29.	555-210001	Intake Manifold Gaskets (SBC, Port: 1.28 in. x 2.09 in.)
24.	555-8076	Heat Gun	16.	555-40200	Spark Plug Wires (Universal, 8mm, Red)	30.	555-210002	Intake Manifold Gaskets (SBC, Port: 1.23 in. x 1.99 in.)	31.	555-210004	Intake Manifold Gaskets (SBC, Port: 1.23 in. x 2 in.)
25.	555-80720	Butane Torch	17.	555-402000	Spark Plug Wires (Universal, 8mm, Blk)	32.	555-210008	Intake Manifold Gaskets (SBC, Port: 1.25 in. x 2 in.)	33.	555-210100	Intake Manifold Gaskets (BBC, Port: 1.8 in. x 2.5 in., w/out Upper Bolts)
26.	555-80569	Circuit Tester	18.	555-402030	Spark Plug Wires (SBC 302 w/HEI Cap, 8mm, Red Hot Pow'r)	34.	555-210101	Intake Manifold Gaskets (BBC, Port: 1.8 in. x 2.5 in., with Upper Bolts)	35.	555-210102	Intake Manifold Gaskets (BBC, Port: 1.82 in. x 2.05 in., Open X-Over)
27.	555-w2974	Digital Multi-Tester	19.	555-402030	Spark Plug Wires (SBC 302 w/HEI Cap, 8mm, Blk Hot Pow'r)	36.	555-210103	Intake Manifold Gaskets (BBC, Port: 1.82 in. x 2.05in., Blocked X-Over)	37.	555-210400	Intake Manifold Gaskets (Chrysler 318-360, Port: 1.12 in. x 2.25 in.)
28.	555-28020	Dielectric Grease	20.	555-40231	Spark Plug Wires (Ford 351-460 w/HEI Cap, 8mm, Red Hot Pow'r)	38.	555-210200	Intake Manifold Gaskets (SBC 260-351W, Port: 1.20 in. x 2 in.)	39.	555-210201	Intake Manifold Gaskets (SBC 260-351W, Port: 1.28 in. x 2.10 in.)
29.	555-80575	Wire Crimper	21.	555-402031	Spark Plug Wires (Ford 351-460 w/HEI Cap, 8mm, Blk Hot Pow'r)	40.	555-210205	Intake Manifold Gaskets (Ford 351C, Port: 1.65 in. x 2.25 in., 2BBL)	41.	555-210206	Intake Manifold Gaskets (Ford 351C, Port: 1.88 in. x 2.65 in., 4BBL)
30.	555-80160	Solder Gun	22.	555-83250	Zinc Manifold Bolts	42.	555-210700	Intake Manifold Gaskets (Oldsmobile 260-403)	43.	555-210600	Intake Manifold Gaskets (Pontiac 326-455, Port: 1.12 in. x 2.04 in.)
31.	555-w3248	Solder	23.	555-513000	Intake Manifold (SBC, 1955-1986, Cast)						
32.	555-10600	Zip Ties (4 in. Length)	24.	555-513074	Intake Manifold (SBC Vortech, Cast)						
33.	555-10605	Zip Tie (8 in. Length)	25.	555-513002	Intake Manifold (SBC Vortech w/L31, Cast)						
34.	555-53221	Thermostat (180°, Pre-LT1 SBC)	26.	555-513020	Intake Manifold (SBC 289/302, Except Boss, Cast)						
35.	555-28010	Hose & Fitting Assembly Kit	27.	555-210003	Intake Manifold Gaskets (SBC Vortec w/L31, Port: Tapered x 2.1 in. H)						
36.	555-110027	30° Max Flow (Blk, -6 AN)	28.	555-210000	Intake Manifold Gaskets (SBC, Port: 1.34 in. x 2.21 in.)						
37.	555-110011	45° Max Flow (Blk, -6 AN)	29.	555-210001	Intake Manifold Gaskets (SBC, Port: 1.28 in. x 2.09 in.)						
38.	555-110037	60° Max Flow (Blk, -6 AN)	30.	555-210002	Intake Manifold Gaskets (SBC, Port: 1.23 in. x 1.99 in.)						
39.	555-110021	90° Max Flow (Blk, -6 AN)	31.	555-210004	Intake Manifold Gaskets (SBC, Port: 1.23 in. x 2 in.)						
40.	555-108031	120° Max Flow (Blk, -6 AN)	32.	555-210008	Intake Manifold Gaskets (SBC, Port: 1.25 in. x 2 in.)						
41.	555-110031	150° Max Flow (Blk, -6 AN)	33.	555-210100	Intake Manifold Gaskets (BBC, Port: 1.8 in. x 2.5 in., w/out Upper Bolts)						
42.	555-110046	180° Max Flow (Blk, -6 AN)	34.	555-210101	Intake Manifold Gaskets (BBC, Port: 1.8 in. x 2.5 in., with Upper Bolts)						
43.	555-110091	Stgt Max Flow, Male (Blk, -6 AN)	35.	555-210102	Intake Manifold Gaskets (BBC, Port: 1.82 in. x 2.05 in., Open X-Over)						
44.	555-110001	Stgt Max Flow, Female (Blk, -6 AN)	36.	555-210103	Intake Manifold Gaskets (BBC, Port: 1.82 in. x 2.05in., Blocked X-Over)						
45.	555-100910	Pro-Flow Hose 200 Series (3 ft, -6 AN)	37.	555-210400	Intake Manifold Gaskets (Chrysler 318-360, Port: 1.12 in. x 2.25 in.)						
46.	555-100911	Pro-Flow Hose 200 Series (6 ft, -6 AN)	38.	555-210200	Intake Manifold Gaskets (SBC 260-351W, Port: 1.20 in. x 2 in.)						
47.	555-100912	Pro-Flow Hose 200 Series (10 ft, -6 AN)	39.	555-210201	Intake Manifold Gaskets (SBC 260-351W, Port: 1.28 in. x 2.10 in.)						
48.	555-100913	Pro-Flow Hose 200 Series (15 ft, -6 AN)	40.	555-210205	Intake Manifold Gaskets (Ford 351C, Port: 1.65 in. x 2.25 in., 2BBL)						
49.	555-100914	Pro-Flow Hose 200 Series (20 ft, -6 AN)	41.	555-210206	Intake Manifold Gaskets (Ford 351C, Port: 1.88 in. x 2.65 in., 4BBL)						
50.	555-110104	Straight Flare Fitting (Blk, 1/4 in. NPT to -6 AN Flare)	42.	555-210700	Intake Manifold Gaskets (Oldsmobile 260-403)						
51.	555-110106	Straight Flare Fitting (Blk, 3/8 in. NPT to -6 AN Flare)	43.	555-210600	Intake Manifold Gaskets (Pontiac 326-455, Port: 1.12 in. x 2.04 in.)						
52.	555-110322	Swivel Coupler (Blk, -6 AN)	44.	555-210600	Intake Manifold Gaskets (Pontiac 326-455, Port: 1.12 in. x 2.04 in.)						
53.	555-110640	Swivel Coupler (Blk, -6 AN, 45°)									
54.	555-110647	Swivel Coupler (Blk, -6 AN, 90°)									
55.	555-110670	Female Coupler (Blk, -6 AN Male to -6 AN, 90°)									
56.	555-110202	Flare Union (-6AN)									
57.	555-15164	Y-Fitting									
58.	555-110892	AN Female to Male Union (-6AN Female to -6AN Male)									
59.	555-110882	AN Female to Male Union (-6AN Female to -6AN Male)									
60.	555-80558	AN Wrench Set (-4AN to -12AN)									
61.	555-80559	AN Wrench Set (-4AN to -20AN)									
62.	555-80625	Adjustable Wrench (Billet Aluminum, -3AN to -12AN)									
63.	555-82035	Cushion Clamps (-6 AN Hose)									
64.	555-80589	Ratcheting Hose Cutter Rubber & Plastic hose									
65.	581-409B	KOUL tools EZ-ON Hose Press (1/4 in. to 1 in. Hose)									
66.	555-82055	Tite-Seal Pinch Clamp (-6AN)									
67.	555-28011	Thread Sealing Paste									
68.	555-75055	Thread Sealing Tape (1/2 in. x 43 ft.)									
69.	555-28010	Hose & Fitting Assembly Kit									



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