

# Wiring Installation Instructions for : Fuel Pressure - Dual Input, 2 1/16" Spek Pro Professional Racing Gauge

## SPEK PRO™ NASCAR DUAL INPUT PRESSURE GAUGE

PACKAGE CONTAINS:
<ul style="list-style-type: none"><li>• Pressure Gauge</li><li>• Pressure Sender, 30 PSI</li><li>• 3/8" Adapters</li><li>• Wiring Harness</li><li>• Mounting Cup</li><li>• (2) Neoprene EDPM Grommet</li></ul>
OPTIONAL: (Purchase Separately)
<ul style="list-style-type: none"><li>• Option: Fuel Pump (High) Pressure Sensor</li></ul>

## FEATURES:

### SPEK PERFORMANCE GAUGE FEATURES:

- INTELLIGENT ELECTRICAL GAUGES.
- GAUGES ARE PROGRAMMED THROUGH COMMAND KEYS ON FACEPLATE.
- STEPPER MOTOR DRIVES THE GAUGE POINTER OVER A 280 DEGREE SWEEP.
- WIDE-ANGLE-DIAL™ HAS A 15% LARGER VIEWING AREA ON A 2 1/16" GAUGE.
- PROGRAMMABLE 7 COLOR DIAL AND **RED** POINTER ILLUMINATION.
- OPTIONAL OUTPUT CONTROL MODULE.

## INSTALLATION INSTRUCTIONS:

- 1** DISCONNECT NEGATIVE (-) BATTERY TERMINAL.
- 2** VARIOUS MOUNTING SOLUTIONS ARE PRESENTED BY PROPARTS, LLC ON THEIR WEBSITE AT  
  
DASH INSTALLATION: SELECT LOCATION IN THE DASH TO MOUNT GAUGE AND CUT A 2 1/16" HOLE. USE A FILE TO INCREASE THE HOLE SIZE IF REQUIRED. BE SURE THERE IS SUFFICIENT ROOM BEHIND THE HOLE FOR THE METER CASE AND THE CONNECTORS YOU WILL USE.
- 3** IF A SUITABLE HOLE IN THE FIRE WALL IS NOT AVAILABLE, CUT AN 11/16 HOLE.
- 4** TWO Grommet MUST BE CUT TO PERMIT INSTALLATION OF WIRING HARNESS. (SEE **DIAGRAM 1**)

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- 5** INSTALL THE GROMMET AND MOUNTING CUP ON THE WIRING HARNESS AS SHOWN IN **DIA-GRAM 1**. GROMMET IS FOR THE HOLE IN THE FIREWALL.
- 6** DO NOT CONNECT WIRING HARNESS TO THE GAUGE UNTIL THE OTHER CONNECTIONS HAVE BEEN MADE AND TESTED.
- 7** SELECT A LOCATION FOR MOUNTING THE SENDER. SENSOR MUST BE IMMERSERD IN FLUID 3-6 MM FOR AN ACCURATE READING. WIRING SHOULD BE SECURED TO A FENDERWELL OR FIREWALL TO INSULATE THE SENDER FROM VIBRATION.
- 8** FUEL SENDERS MAY REQUIRE A MOUNTING HOLE BE DRILLED AND AN ADAPTER WELDED IN PAN.
- 9** INSTALL ON 30 PSI FUEL SENSOR IN THE LINE FROM THE FUEL PUMP TO THE REGULATOR. THIS WILL MONITOR THE (HIGH) FUEL PUMP OUTPUT PRESSURE
- 10** INSTALL THE SECOND 30 PSI FUEL SENSOR BETWEEN THE REGULATOR AND THE CARBURETOR INPUT. THIS WILL MONITOR THE (LOW) MAIN FUEL PRESSURE.
- 11** USE TEFLON SEALING COMPOUND. TAPE IS NOT RECOMMENDED.
- 12** TEST ALL FITTINGS FOR LEAKS
- 13** CONNECT THE **RED** (+ VOLT SUPPLY) WIRE FROM PIN #8 TO "ON" CIRCUIT THAT GIVES POWER WHEN THE IGNITION IS TURNED ON. THIS CIRCUIT MUST BE FUSED BEFORE THE IGNITION SWITCH, (5 AMP, FAST ACTING FUSE)
- 14** CONNECT THE **BLACK** GROUND WIRE FROM PIN #12 TO A GOOD GROUNDING POINT ON THE CAR'S CHASSIS.
- 15** IF CONTROL OUTPUT IS REQUIRED CONNECT **PURPLE** WIRE, 1.9 AMP FET OOUTUT FROM PIN 5 TO CONTROL FUNCTION OR RELAY.
- 16** CONNECT THE **RED** (+5 VOLT SUPPLY) FROM PIN #4 TO BOTH FUEL PRESSURE SENSORS.
- 17** CONNECT THE **BLACK** GROUND FROM PIN #3 TO BOTH FRUEL PRESSURE SENSORS.
- 18** CONNECT THE **WHITE** FUEL PUMP (HIGH) PRESSURE INPUT WIRE FROM PIN #6 TO FUEL PUMP PRESSURE SENSOR . IF NOT USING SECONDARY SENSOR DISCONNECT OR CUT WHITE WIRE.
- 19** CONNECT THE **BLUE** MAIN (LOW) PRESSURE INPUT WIRE FROM PIN #2 TO MAIN PRESSURE SENSOR.
- 20** PLUG THE WIRING HARNESS INTO THE GAUGE AND MOUNT IN POD OR DASH. USE CARE WHEN CONNECTING OR DISCONNECTING THE WIRING HARNESS.
- 21** FOR DASH MOUNTING, ATTACH MOUNTING CUP OVER THE BACK OF THE GAUGE AND HAND TIGHTEN. DO NOT OVER TIGHTEN. MOUNT CUP BEFORE INSTALLING GROMMET. FAILURE TO DO SO WILL TWIST WIRES CAUSING A SHORT CIRCUIT.
- 22** POWER UP THE GAUGE AND INSPECT ALL CONNECTIONS. IF GAUGE IS OPERATING NORMAL PROCEED TO "PROGRAMMING MANUAL"

# Wiring Installation Instructions for : Fuel Pressure - Dual Input, 2 1/16" Spek Pro Professional Racing Gauge

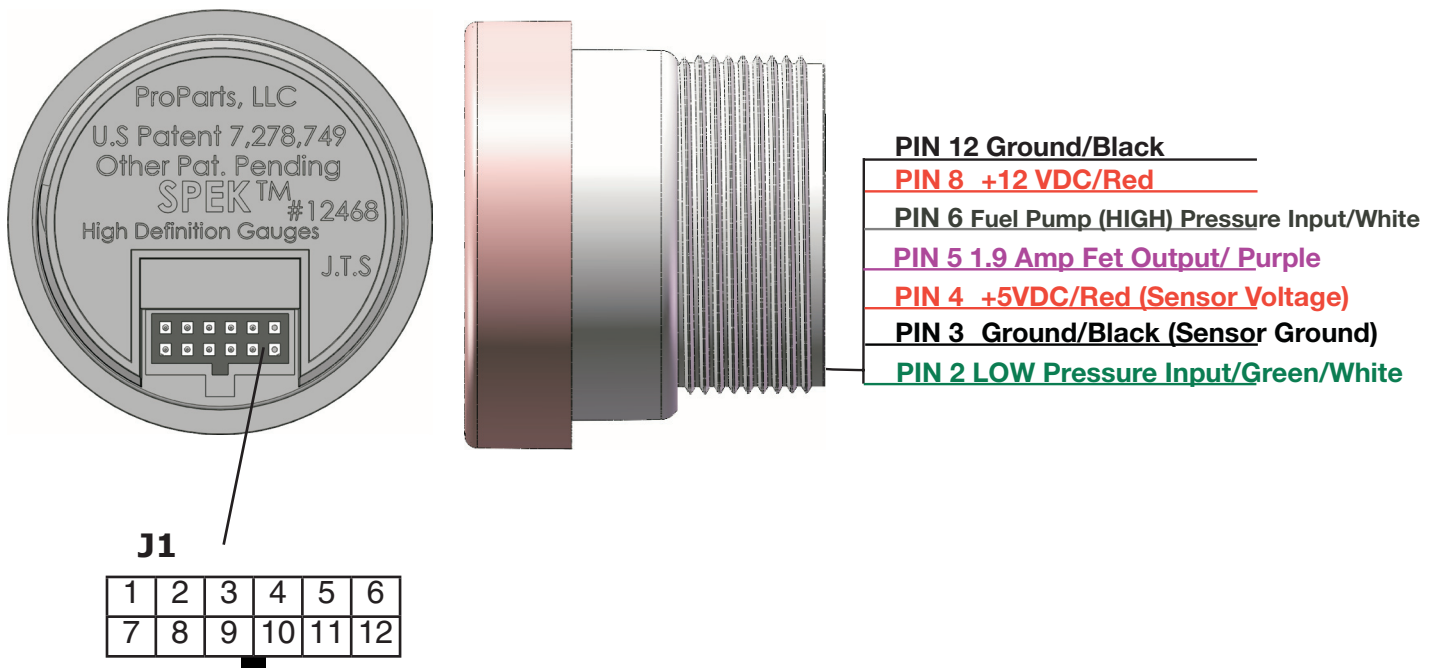
## TROUBLESHOOTING:

- 1 THE GAUGE FACEPLATE WILL FLASH ALTERNATELY "RED" THEN "GREEN" IF THE MAIN (LOW) FUEL PRESSURE SENSOR PROBE IS NOT CONNECTED TO THE WIRING HARNESS.
- 2 THE GAUGE FACEPLATE WILL FLASH ALTERNATELY "BLUE" THEN "GREEN" IF THE FUEL PUMP (HIGH) PRESSURE SENSOR PROBE IS NOT CONNECTED TO THE WIRING HARNESS.
- 3 DO NOT USE ANY SENDER ADAPTER THAT WOULD REDUCE THE SENSORS IMMERSION IN FLUID. FOR ACCURACY, SENSOR SHOULD BE 3-6MM IMMERSSED IN THE FLUID IT IS MONITORING.

**WARNING:** 1. FUEL SYSTEM MAY BE UNDER PRESSURE AND MUST BE PROPERLY VENTED BEFORE INSTALLATION OF FUEL SENDER BY AN EXPERIENCED MECHANIC.

2. FUEL AND FUEL VAPOR ARE EXTREMELY FLAMMABLE. INSTALLER MUST TAKE EVERY PRECAUTION TO REMOVE ANY HOT MATERIAL. OPEN FLAME OR ANYTHING THAT IGNITE FUEL OR FUEL VAPOR.

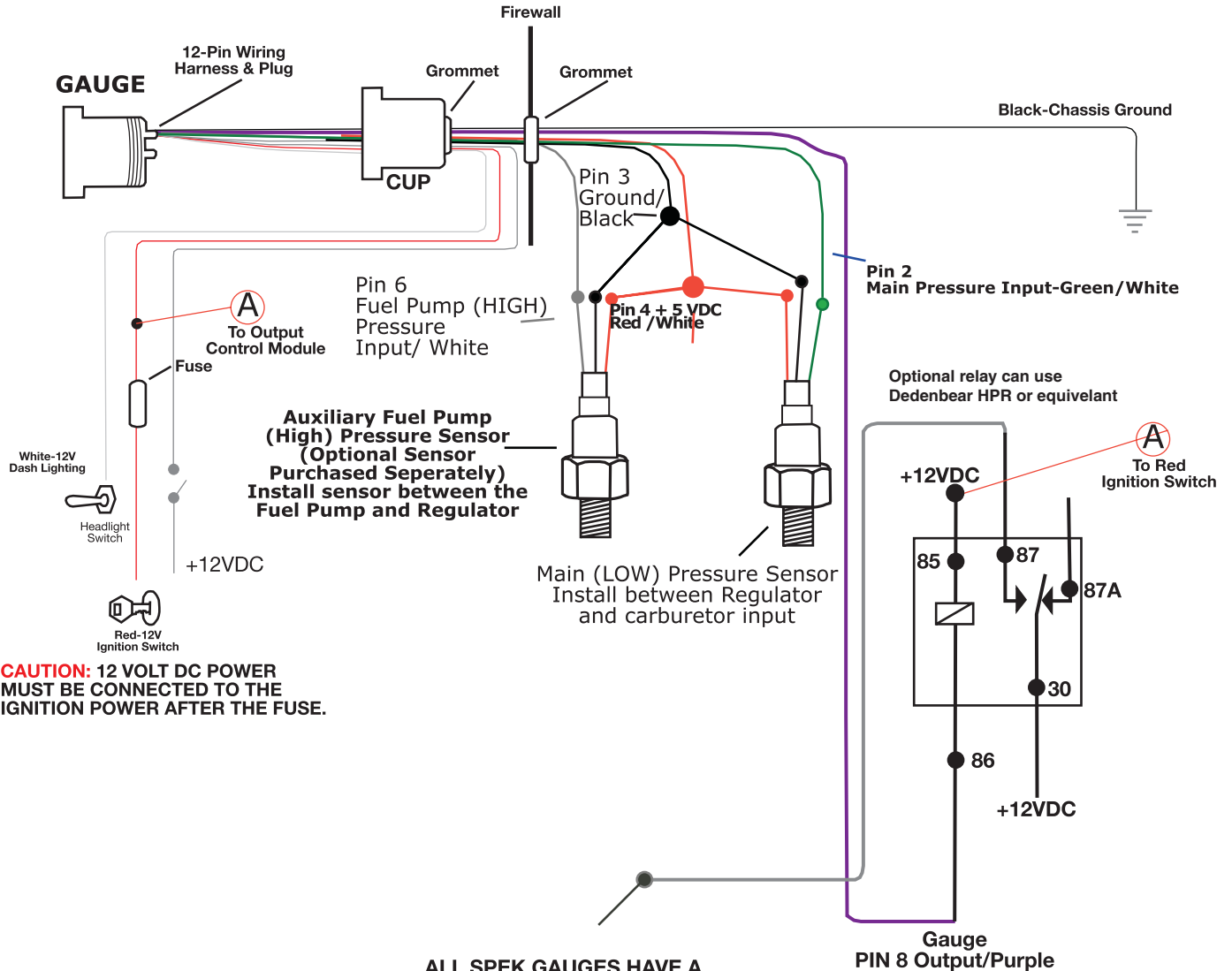
## DIAGRAM 1



PATENTED WIDE ANGLE DIAL  
FOR SUPERIOR VISIBILITY  
U.S PATENT #7,278,749

# Wiring Installation Instructions for : Fuel Pressure - Dual Input, 2 1/16" Spek Pro Professional Racing Gauge

**DIAGRAM 2**



ALL SPEK GAUGES HAVE A PROGRAMMABLE LIMIT SETTING . WHEN A SETTING IS TRIPPED, AN OUTPUT SIGNAL IS GENERATED. THIS CAN BE USED TO SWITCH ON A RUGGED 35 AMP RELAY TO ACTIVATE A LOW OIL ENGINE KILL, ALARMS, CUT THROTTLE BODY SENSOR TO DEFUEL KILL BOOST VALVE.

# **Wiring Installation Instructions for : Fuel Pressure - Dual Input, 2 1/16" Spek Pro Professional Racing Gauge**

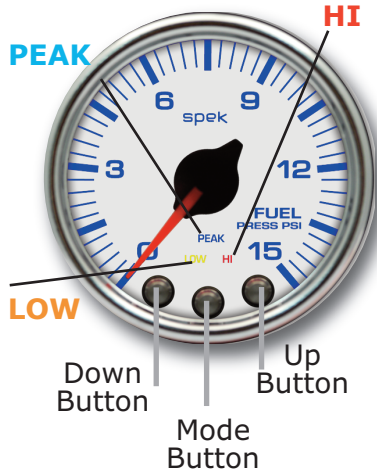
**THERE ARE THREE SECTIONS TO THIS MANUAL: WIRING INSTRUCTIONS, PROGRAMMING INSTRUCTIONS AND FLOW CHART PROGRAMMING INSTRUCTIONS. PLEASE READ EACH SECTION CAREFULLY BEFORE ATTEMPTING TO INSTALL OR OPERATE THIS PRODUCT.**

## **WARNING:**

- **ALL INSTRUCTIONS IN THIS MANUAL MUST BE FOLLOWED TO INSURE SAFE INSTALLATION AND OPERATION OF THIS PRODUCT.**
  - **NEVER DISASSEMBLE MODIFY OR TAMPER WITH THIS PRODUCT. THIS COULD CAUSE DAMAGE AND MAKE THEM UNSAFE TO USE. TAMPERING WITH THE PRODUCT WILL VOID THE LIMITED WARRANTY.**
  - **INSTALLATION MUST BE PERFORMED BY AN EXPERIENCED AUTOMOTIVE TECHNICIAN.**
  - **INSTALLER MUST USE SAFETY GLASSES.**
  - **DISCONNECT THE NEGATIVE BATTERY TERMINAL BEFORE BEGINNING INSTALLATION. PROPARTS LLC IS NOT RESPONSIBLE FOR DAMAGE TO ENGINE, VEHICLE OR UNIT CAUSED BY ELECTRICAL SHORTS.**
  - **DURING INSTALLATION, DO NOT INTERFERE WITH ANY EXISTING CONNECTIONS OR WIRES.**
  - **ALL ELECTRICAL CONNECTIONS USE SOLDER LESS CONNECTORS AND INSULATE ALL CONNECTIONS WITH ELECTRICAL TAPE.**
  - **AVOID WIRING NEAR ENGINE, EXHAUST SYSTEM, TURBINE OR ANY AREA THAT MAY RESULT IN DAMAGE.**
  - **DISCONTINUE USE OF THE PRODUCT IF SMOKE OR A STRANGE ODOR IS PRESENT.**
- CAUTION**

- **PROPARTS LLC IS NOT RESPONSIBLE FOR INCORRECT INSTALLATION OR PROGRAMMING OF SPEK™ GAUGES OR CONTROLLERS.**
- **SPEK™ GAUGES AND CONTROLLERS ARE DESIGNED FOR 12V DC ELECTRICAL SYSTEMS WITH A NEGATIVE GROUND.**
- **DO NOT ADJUST THE GAUGES OR GAUGE PROGRAM WHILE DRIVING**
- **OBEY ALL RULES AND REGULATIONS OF HIGHWAY AND STREET DRIVING.**
- **INSTALL SENSOR AND WIRE AWAY FROM HIGH HEAT AND / OR VIBRATION AREAS.**
- **USE CARE WHEN CONNECTING OR DISCONNECTING THE WIRING HARNESS. PULL OUT EACH CONNECTOR WHILE PRESSING THE LOCK OF THE CONNECTOR FIRMLY.**
- **IF THE BATTERY TERMINAL IS DISCONNECTED, THE AUDIO, CLOCK AND OTHER MEMORY DATA MAY BE LOST. THE NECESSARY DATA WILL HAVE TO BE RESET AFTER INSTALLATION.**

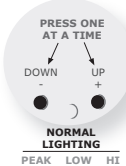
# Flow Chart Programming Instructions for :Dual Input Fuel Pressure 2 1/16"



## PROGRAM MAIN MENU

(Press one button at a time)

## START HERE MAIN MENU



**NORMAL/DIAL BRIGHTNESS:**  
Press the down or up button to adjust dial brightness. Press the center button to save and advance to **PEAK PLAYBACK**.



**NORMAL/DIAL BRIGHTNESS:**  
ON POWER UP THE GAUGE READS THE PRESSURE.

**OPTION: CALIBRATE GAUGE**

Press the center button to advance to **PEAK PLAYBACK**.



**PEAK PLAYBACK:**  
Reads the highest value displayed on the gauge since the last time the PEAK value was displayed. PEAK value will be held in memory until erased by pressing the RIGHT or LEFT button while in the PEAK level. Press the center button to advance to **HIGH RED-LINE SETTING**.



**PEAK PLAYBACK:**  
Press the center button to advance to **HIGH RED-LINE SETTING**. OR  
**OPTION: RESTORE FACTORY DEFAULT**  
**OPTION: PROGRAM SENSOR OPERATION**



**HIGH RED-LINE SETTING:**  
Press the down or up button to move dial pointer to the high threshold. Press the center button to save and advance to **MAIN (LOW) THRESHOLD SETTING**.



**HIGH RED-LINE SETTING:**  
Press the center button to advance to **MAIN (LOW) FUEL PRESSURE SETTING**.  
**OPTION: Set Fuel Pump Alarm Sensitivity:**



**MAIN (LOW) FUEL PRESSURE SETTING:**  
Sets the value at which Low Main Fuel Pressure Warning is reached. This indicates gas is not reaching the Carburetor. The dial faceplate will flash **RED** for 60 seconds and then stay lit. Press the RIGHT or LEFT buttons to select the Low Main Fuel Pressure Setting. Press the center button to save and advance to **COLOR SCHEME**.



**MAIN (LOW) FUEL PRESSURE SETTING:**  
Press the center button to advance to **COLOR SCHEME**.  
**OPTION: READ FUEL PUMP OUTPUT PRESSURE**  
**OPTION: PROGRAM FUEL PRESSURE ALERT**



**COLOR SCHEME:**  
Press down and up buttons to select a color scheme. (OFF-VIOLET-BLUE-GREEN-YELLOW-ORANGE-RED-WHITE). Press the center button to save and return to **NORMAL/DIAL BRIGHTNESS**.



**COLOR SCHEME:**  
Press the center button to advance to **NORMAL/DIAL BRIGHTNESS**. OR  
**OPTION A: DEMO MODE**



**DIAL BRIGHTNESS:**  
Press the RIGHT or LEFT command buttons to Control the brightness of the faceplate illumination. Press the center button to save and advance to **NORMAL OPERATION**.



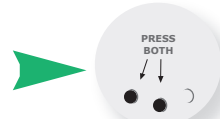
**DIAL BRIGHTNESS:**  
Press the center button to advance to **NORMAL OPERATION**  
**OPTION: POINTER BRIGHTNESS**

# Flow Chart Programming Instructions for : Dual Input Fuel Pressure 2 1/16"

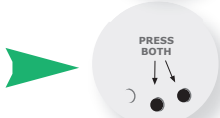
## SUBMENU

(ENTER FROM MAIN MENU)

(Press two(2) buttons simultaneously for 5 seconds)

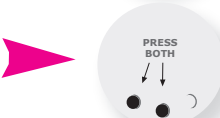


**Calibrate Gauge to Environment:** Turn the ignition ON with the engine OFF. While in the Normal Mode, press and hold the CENTER and LEFT buttons for five (5) seconds. The dial face plate will flash GREEN rapidly. Press the CENTER mode button to save the setting and return to **NORMAL OPERATION**.



**OPTION:RESTORE FACTORY DEFAULT:**

While in **PEAK PLAYBACK**, press and hold the center and right buttons for five seconds. Dial pointer will step five times and return to zero. This will erase all user-programmed calibrations and settings, and return to **NORMAL OPERATION**.



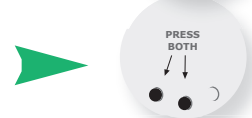
**OPTION:PROGRAM SENSOR OPERATION:**

Press and Hold both the CENTER and LEFT buttons for five (5) seconds. The pointer will step five times and the dial background will flash **BLUE**. To program Sensor Operation, use the Right or Left button to select operation. Main sensor is always active and if reached will flash **RED**. • Zero (0) setting indicates second sensor is inactive • Pointer at midrange (1/2 dial faceplate) second Sensor is activated. If the Fuel Pump pressure drops, the background color changes to flashing **BLUE**. Gauge reads MAIN SENSOR. • Pointer at full-scale. Second Sensor is activated and the gauge will read MAIN pressure until the PUMP pressure setting is reached. Then the gauge will read PUMP PRESSURE and the dial will flash **BLUE**.



**OPTION: SET FUEL PUMP ALARM SENSITIVITY:**

PRESS AND HOLD BOTH THE CENTER AND RIGHT BUTTONS FOR 5 SECONDS UNTIL THE POINTER STOPS MOVING. THE GAUGE CAN IGNORE BRIEF DROPS IN PUMP OUTPUT PRESSURE BY DELAYING THE ALARM SIGNAL FOR SHORT PERIODS OF TIME. (MAXIMUM 2 SECONDS) USE THE RIGHT OR LEFT BUTTON TO MOVE THE POINTER TO SELECT SENSITIVITY. NO DELAY WOULD BE ZERO (0). THE SENSITIVITY INCREASES INCREMENTALLY AS THE POINTER MOVES TO HIGHER PRESSURE. THE MAXIMUM DELAY IS 2 SECONDS.



**OPTION:READ THE FUEL PUMP OUTPUT PRESSURE:**

Press and hold both the CENTER and LEFT buttons. The pointer will step five (5) times and return to zero (0). The pointer will then move to 1/2 the current FUEL PUMP PRESSURE. Total pressure is this value multiplied by 2. This is because the dial faceplate is 15 PSI while the sensor is 30 PSI. Press the CENTER mode button to return to NORMAL OPERATION.



**OPTION:PROGRAM FUEL PUMP ALERT SIGNAL:**

This will indicate the vehicle is low on gas or may have a defective regulator. Dial faceplate will flash BLUE for 60 seconds and then stay lit. To program Alert Value, press and hold the CENTER and RIGHT buttons. The pointer will step five times and return to zero (0) Press the Right or Left button to select the Alert Value. Default value is Zero (0) PSI. If Zero is selected the Fuel Pump Pressure Sensor is deleted from the program **PROGRAM SENSOR OPERATION (ABOVE) MUST BE SET TO ACTIVATE THE FUEL PUMP PRESSURE SENSOR**. Press Center button to **Normal Operation**



**OPTION :DEMO MODE:**

WHILE IN **COLOR SCHEME**, press and hold the center and right buttons for five seconds. Dial will scroll through the seven color schemes. The **HI,LOW** and **PEAK** will light, and the dial pointer will move. Press the center button to return to **NORMAL OPERATION**.



**OPTION :POINTER BRIGHTNESS:**

While in **DIAL BRIGHTNESS**, press and hold the center and left buttons for five seconds to enter pointer brightness mode. The dial pointer will start to flash and point to the upper right.



**OPTION :POINTER BRIGHTNESS:**

Press down and up buttons to adjust the pointer brightness. Press the center button to save and return to **NORMAL OPERATION**.

# Programming Instructions for :Pressure

## 2 1/16" Spek Pro Professional Racing Gauge

**Refer to the "Flow Chart Programming Instructions" while reviewing this guide.**

Gauge is field programmable by the operator while installed in the vehicle. This programming is accessed by pressing the control buttons located on the face or the meter dial, **ONE AT A TIME**. The "Down" and "Up" buttons move the pointer to a desired setting or controls the faceplate illumination.



<b>MAIN MENU</b>		<b>SUBMENU</b>	
PRESS "MODE" BUTTON TO PROGRAM LEVEL. THEN PRESS BOTH CENTER AND LEFT OR CENTER AND RIGHT BUTTONS FOR FIVE SECONDS TO ENTER SUBMENU			
<b>NORMAL/DIAL BRIGHTNESS</b>		<b>OPTION: CALIBRATE GAUGE TO ENVIORNMENT</b>	
<b>PEAK PLAYBACK</b>		<b>OPTION:RESTORE FACTORY DEFAULT</b>	
<b>HIGH RED-LINE SETTING</b>			
<b>MAIN (LOW) FUEL PRESSURE SETTING</b>		<b>OPTION: READ FUEL PUMP (HIGH) OUTPUT PRESSURE</b> <b>OPTION: SET FUEL PUMP (HIGH) PRESSURE ALERT</b>	
<b>COLOR SCHEME</b>		<b>OPTION A:DEMO MODE</b>	
<b>DIAL BRIGHTNESS</b>		<b>OPTION: ADJUST POINTER BRIGHTNES</b>	



# Programming Instructions for :Pressure 2 1/16" Spek Pro Professional Racing Gauge

## PROGRAMMING STARTS IN MAIN MENU

PRESS PROGRAM BUTTON ONE (1) AT A TIME IN THE **MAIN MENU** MODE.

### **1** **NORMAL/DIAL BRIGHTNESS:**

On power up, the meter usually starts operation in **NORMAL/DIAL BRIGHTNESS**. Gauge reads the sensor value as temperature, pressure, etc. The "Down" and "Up" buttons will control the brightness of the dial lighting. Press the center "Mode" button to save the setting and advance you to **PEAK PLAYBACK**

### **2** **PEAK PLAYBACK:**

Reads the highest value displayed on the gauge since the last time the peak value was displayed. PEAK value will be held in memory until erased by pressing the RIGHT or LEFT button while in the PEAK level. Press the Center mode button to save the setting and advance to **HIGH RED-LINE SETTING**

### **3** **HIGH RED-LINE SETTING:**

Sets the point at which "HIGH" warning threshold is reached for that specific gauge. The "Down and "Up" buttons will move the dial pointer to select **HIGH RED-LINE SETTING**. During normal operation the gauge constantly monitors the sensor value and compares it to the "HIGH" threshold. If the threshold is exceeded, the red "**HI**" indicator is turned on. Press the center "Mode" button to save the setting and advance to **MAIN (LOW) FUEL PRESSURE SETTING**

### **4** **MAIN (LOW) FUEL PRESSURE SETTING:**

Sets the value at which the Low Main Fuel Pressure Warning is reached. The indicates gas is not reaching the Carburetor. The dial faceplate will flash RED for 60 seconds and then stay lit. Press the RIGHT or LEFT buttons to select the LOW Main Fuel Pressure Setting. Press the center "Mode" button save the setting and advance to

### **5** **COLOR SCHEME**

### **5** **COLOR SCHEME:**

Set Faceplate Color Scheme: Operator can select the color of the gauge dial illumination. Each time you press the "Down" control button you scroll through dial color selection until the dial light goes off. Then press the "Up" button to reverse the scroll. Select your dial color illumination by pressing the center "Mode" button to save the setting and advance to **NORMAL/DIAL BRIGHTNESS**

### **6** **DIAL BRIGHTNESS:**

The RIGHT and LEFT command buttons control the brightness of the faceplate illumination. Press the Center mode button to save the setting and return to **NORMAL/DIAL BRIGHTNESS**

# Programming Instructions for :Pressure 2 1/16" Spek Pro Professional Racing Gauge

## SUBMENU

**SUBMENU** IS ACCESSED THROUGH THE **MAIN MENU**. FIRST GO TO THE APPROPRIATE LEVEL OF THE **MAIN MENU** AND THEN FOLLOW THE INSTRUCTIONS IN THE PROGRAMMING FLOW DIAGRAM TO ENTER THE **SUBMENU**. PRESS THE "MODE" AND "UP" OR "MODE" AND "DOWN" BUTTONS SIMULTANEOUSLY FOR 5 SECONDS TO ENTER THE **SUBMENU** AND ONE BUTTON AT A TIME WHILE IN THAT **SUBMENU**.

**OPTION:RESTORE FACTORY DEFAULT:** While in PEAK PLAYBACK, Main Menu, press and hold both the CENTER and RIGHT buttons for 5 seconds. The dial pointer will step 5 times and return to zero (0). All user programmed settings will be erased and the gauge will return to **NORMAL OPERATION**.

**OPTION A:DEMO MODE:** Displays the features of the meter. The pointer goes up and down the scale, the dial colors change and the **HI**, **LOW** and **PEAK** warning indicators light. The **DEMO MODE** does not time out. If the gauge is turned off in the **DEMO MODE**, it will start up in the **DEMO MODE**. Press the "Mode" button to return the gauge to **NORMAL OPERATION**.

**OPTION : Read the Fuel Pump Output Pressure :** Press and hold both the Center and Left buttons. The pointer will step five times and return to zero (0). The pointer will then move to 1/2 the current Fuel Pump Pressure. Total Pressure is this value multiplied by 2. This is because the dial faceplate is 15 PSI while the sensor is 30 PSI. Press the CENTER mode button to return to **NORMAL OPERATION**.

**OPTION : Program Fuel Pump Pressure Alert Value:** This will indicate the vehicle is very low on gas or may have a defective regulator. Dial faceplate will flash BLUE for 60 seconds and then stay lit. To program Alert Value, press and hold the CENTER and RIGHT buttons. The pointer will step five times and return to zero (0). Press the LEFT or RIGHT buttons to select the alert value. Default value is zero (0) PSI. If zero is selected the Fuel Pump Pressure sensor is deleted from the program. Press the CENTER mode button to save and return to **NORMAL OPERATION**.

**OPTION : ADJUST POINTER BRIGHTNESS:** While in the Adjust Dial Brightness, Main Menu, press and hold the CENTER and LEFT buttons for five (5) seconds. The pointer will start flashing and point to upper right. Press the RIGHT or LEFT buttons to adjust pointer brightness. Press the CENTER mode button to save and return to **NORMAL OPERATION**.

# Programming Instructions for :Pressure 2 1/16" Spek Pro Professional Racing Gauge

## GAUGE CRITICAL CONDITION ALERT OUTPUT GUIDE

GAUGE TYPE	ALERT FLASHES "RED"
TEMPERATURE	HIGH
PRESSURE	LOW
TACHOMETER	HIGH
PYROMETER	HIGH
NITROUS OXIDE PRESSURE	LOW
BOOST PRESSURE	HIGH
AIR/FUEL	LOW
VOLTMETER	LOW

### PROGRAMMING INFORMATION:

- TO RESET THE PROGRAM TO **NORMAL OPERATION** FROM ANY MODE PRESS THE "UP" AND "DOWN" BUTTONS SIMULTANEOUSLY. THIS SOFT RESET CANCELS THE INFORMATION YOU PROGRAMMED IN THAT MODE ONLY AND RETURN YOU TO **NORMAL OPERATION**.
  - THE FACEPLATE WILL "FLASH" WHEN BUTTONS ARE DEPRESSED TO ACKNOWLEDGE COMMANDS.
  - PROGRAMMING ERRORS WILL BE SIGNALLED BY FLASHING THE FACEPLATE LIGHTING "**PURPLE**", "**BLUE**", "**GREEN**" THEN "**ORANGE**".
  - IF PROGRAMMING IS INACTIVE FOR 60 SECONDS THE MODE WILL TIME OUT AND THE GAUGE WILL RETURN TO NORMAL OPERATION, EXCEPT FOR IN THE DEMONSTRATION MODE. THE DEMO MODE WILL NOT TIME OUT UNTIL THE CENTER "MODE" BUTTON IS PRESSED. IF THE GAUGE IS TURNED OFF IN THE DEMO MODE, IT WILL START-UP IN THE DEMO MODE.
  - TO RESTORE FACTORY DEFAULTS, PRESS THE "MODE" BUTTON ONCE TO ENTER THE **PEAK PLAYBACK**. THEN PRESS AND HOLD THE "MODE" AND "UP" BUTTONS FOR FIVE SECONDS. YOUR PROGRAMMING WILL BE ERASED BUT FACTORY PROGRAM WILL NOT BE AFFECTED.
- 1 THE GAUGE FACEPLATE WILL FLASH ALTERNATELY "**RED**" THEN "**GREEN**" IF THE MAIN (LOW) FUEL PRESSURE SENSOR PROBE IS NOT COMMUNICATING WITH THE GAUGE.
  - 2 THE GAUGE FACEPLATE WILL FLASH ALTERNATELY "**BLUE**" THEN "**GREEN**" IF THE FUEL PUMP (HIGH) FUEL PRESSURE SENSOR PROBE IS NOT COMMUNICATING WITH THE GAUGE.
  - 3 DO NOT USE ANY SENDER ADAPTER THAT WOULD REDUCE THE SENSORS IMMERSION IN FLUID. FOR ACCURACY, SENSOR SHOULD BE 3-6MM IMMERSSED IN THE FLUID IT IS MONITORING.

U.S. Patent # 7,612,660 and 7,278,749  
Additional Patents Pending