

Flow Chart Programming Instructions for : Boost Gauge 2 1/16" Monitor and Controller



START HERE MAIN MENU

PROGRAM MAIN MENU

(Press one button at a time)



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



PEAK PLAYBACK:
Pointer will now display peak playback. Press the center button to advance to **HIGH RED-LINE SETTING**.



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 **LOW THRESHOLD SETTING**.



LOW THRESHOLD SETTING:
Press the down or up button to move pointer to low threshold. Press the center button to save and advance to **COLOR SCHEME**.



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



NORMAL/BOOST CONTROL:
ON POWER UP THE GAUGE READS THE SENSOR RPM. Press the center button to advance to **PEAK PLAYBACK**.
OPTION:SET MAXIMUM ALLOWABLE ENGINE RPM
OPTION:SET MAXIMUM ACCELERATION



PEAK PLAYBACK:
Press the center button to advance to **HIGH RED-LINE SETTING**. OR
OPTION:RESTORE FACTORY DEFAULT
OPTION:SET THROTTLE POSITION



HIGH RED-LINE SETTING:
Press the center button to advance to **LOW THRESHOLD SETTING**. OR
OPTION:PROGRAM BOOST CONTROLLER



LOW THRESHOLD SETTING:
Press the center button to advance to **COLOR SCHEME**.



COLOR SCHEME:
Press the center button to advance to **NORMAL/BOOST CONTROL**. OR
OPTION A:DEMO MODE
OPTION B:POINTER BRIGHTNESS

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• **CAUTION:** FOLLOW WIRING INSTRUCTION CAREFULLY. INCORRECT RELAY WIRING WILL LEAD TO PREMATURE NITROUS OXIDE ACTIVATION.

• **WARNING:** INSTALLATION MUST BE PERFORMED BY AN EXPERIENCED TECHNICIAN. SYSTEM MUST BE INSTALLED ACCORDING TO MANUFACTURER RECOMMENDATIONS.

• DISCONNECT THE NEGATIVE BATTERY TERMINAL BEFORE INSTALLATION.

• USE CARE WHEN CONNECTING OR DISCONNECTING THE

WIRING HARNESS. PULL OUT EACH CONNECTOR WHILE PRESSING THE LOCK OF THE CONNECTOR FIRMLY.

• NEVER DISASSEMBLE, MODIFY OR TAMPER WITH THE UNIT.

• PROPARTS,LLC IS NOT RESPONSIBLE FOR INCORRECT TURBOCHARGER SIZING, EXCESSIVE EXHAUST PRESSURE, OR INADEQUATE WASTE GATE OPERATION.

• THIS UNIT IS DESIGNED ONLY FOR DC 12V TYPE VEHICLES WITH NEGATIVE GROUND.

• CHECK THE AIR/FUEL RATIO ONCE THE BOOST PRESSURE IS

SET TO PROTECT AGAINST LEAN FUEL SUPPLY THAT COULD CAUSE ENGINE DAMAGE.

• DO NOT USE BOOST CONTROL IN CONJUNCTION WITH ANY TYPE OF "DRAW THROUGH" FUEL SYSTEM.

• DO NOT ADJUST THE UNIT WHILE DRIVING.

• DO NOT USE THIS UNIT UNDER EXTREMELY HOT OR COLD CONDITIONS.

• DISCONTINUE USE OF THIS PRODUCT IF THE GAUGE DOES NOT OPERATE OR A STRANGE ODOR OR SMOKE IS PRESENT.

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SUBMENU

(ENTER FROM MAIN MENU)

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

OPTION:SET RED-LINE CUT-OFF:

TURN THE IGNITION OFF THEN ON AGAIN AND LET IT IDLE. FROM NORMAL MODE PRESS THE CENTER AND LEFT BUTTONS SIMULTANEOUSLY FOR FIVE (5) SECONDS. THE DIAL POINTER WILL STEP FIVE TIMES AND THE DIAL BACKGROUND WILL FLASH "RED" SLOWLY. IF IT FLASHES "GREEN" SOMETHING IS WRONG WITH THE TACH CONNECTION. WHILE STILL PARKED, IN NEUTRAL, INCREASE THE SPEED TO HALF OF THE DESIRED RPM LIMIT. RELEASE THE ACCELERATOR AND PRESS THE CENTER AND RIGHT BUTTONS SIMULTANEOUSLY. THIS WILL ADVANCE YOU TO THE "SET DRIVING STYLE" PROGRAM.

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/BOOST CONTROL**.

SET CRUISING BOOST PRESSURE:

PARK THE CAR. TURN THE IGNITION OFF THEN ON AGAIN BUT DO NOT START THE ENGINE. PRESS THE "MODE" AND "UP" BUTTONS SIMULTANEOUSLY FOR 5 SECONDS. GAUGE DIAL WILL FLASH "GREEN" SLOWLY.

SET DRIVING STYLE:

THE DIAL BACKGROUND WILL FLASH WHITE RAPIDLY. USE THE DOWN OR UP BUTTON TO MOVE THE POINTER TO SELECT STYLE. 9:00 O'CLOCK - PULL HEAVY LOAD, 12:00 O'CLOCK - STREET PERFORMANCE, 3:00 O'CLOCK - HIGH PERFORMANCE. PRESS THE CENTER "MODE" BUTTON TO SAVE THE SETTING AND RETURN TO NORMAL OPERATION PERFORMANCE.

PROGRAM SUBMENU

OPTION:SET MAXIMUM ACCELERATION:

AFTER PROGRAMMING THE "SET DRIVING STYLE". PROCEED TO A RACE SHOP WITH A DYNAMOMETER OR RACE TRACK WHERE THE THROTTLE CAN BE OPERATED IN A FLAT OUT POSITION. FROM THE **MAIN MENU**, NORMAL OPERATION, PRESS THE CENTER AND RIGHT BUTTONS SIMULTANEOUSLY FOR 5 SECONDS TO ENTER SET MAXIMUM ACCELERATION. THE DIAL FACE-PLATE WILL FLASH "BLUE" RAPIDLY IN THIS MODE. THIS WILL LIMIT TURBO CHARGING IF THE ENGINE IS ACCELERATING FASTER THAN THE LIMIT DUE TO BROKEN TRACTION. ACCELERATE THE VEHICLE THROUGH FIRST GEAR, MAYBE SECOND UNTIL YOU ARE IN THE LOWEST GEAR WHERE YOU WANT TO TURN ON CHARGING. STOMP THE ACCELERATOR UNTIL THE ENGINE IS REVVED TO HALF (1/2) OF THE RED-LINE. THE TURBO CHARGER/OUTPUT WILL LIMIT ACCELERATION TO **TWICE** THE ACCELERATION YOU LOGGED. RELEASE THE ACCELERATOR AND PRESS THE CENTER MODE BUTTON. SETUP IS COMPLETE. THIS SECTION CAN BE PROGRAMMED DIRECTLY FROM THE MAIN MENU, IF THERE IS NO CHANGE IN THE "RED-LINE CUT-OUT", OR "DRIVING STYLE".

1. SET MAXIMUM CRUISING BOOST PRESSURE:

PRESS THE "DOWN" OR "UP" BUTTON TO SELECT THE MAXIMUM MANIFOLD PRESSURE THAT YOU CAN USE WHILE CRUISING. PRESS THE CENTER MODE BUTTON TO SET THE DESIRED PRESSURE AND ADVANCE TO SET SCRAMBLE BOOST PRESSURE.

2. SET MAXIMUM BOOST (SCRAMBLE):

THE DIAL BACKGROUND WILL FLASH "GREEN" RAPIDLY IN THE SET SCRAMBLE BOOST MODE. THIS IS TYPICALLY SET TO THE HIGHEST VALUE THE ENGINE CAN ENDURE. THIS PRESSURE IS USED TEMPORARILY IN EMERGENCY OR RACING SITUATIONS WHERE ADDITIONAL ENGINE WEAR IS PERMISSIBLE. THIS IS USUALLY 25% TO 50% HIGHER THAN CRUISE LEVEL. A SCRAMBLE SWITCH MUST BE INSTALLED TO ACTIVATE THIS MODE. PRESS THE CENTER BUTTON TO ADVANCE TO SET MAXIMUM BOOST SOLENOID DUTY FACTORY MODE BELOW.

3. SET MAXIMUM BOOST SOLENOID DUTY FACTORY:

THE DIAL BACKGROUND WILL FLASH "BLUE" RAPIDLY. THIS SETTING PROVIDES A SECONDARY GUARD AGAINST EXCESSIVE MANIFOLD PRESSURE. WE RECOMMEND A FACTORY SETTING OF 50%. HIGHER SETTINGS PERMIT HIGHER PERFORMANCE AT THE COST OF MORE ENGINE STRESS. PRESS THE DOWN OR UP BUTTONS TO SELECT THE DUTY CYCLE. PRESS THE CENTER BUTTON TO SAVE THE SETTING. THE METER WILL GO DARK MOMENTARILY. Press the center button to return to **NORMAL/BOOST CONTROL**.

OPTION A: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/BOOST CONTROL**.

OPTION B:POINTER BRIGHTNESS:

While in **COLOR SCHEME**, 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 B:POINTER BRIGHTNESS:

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

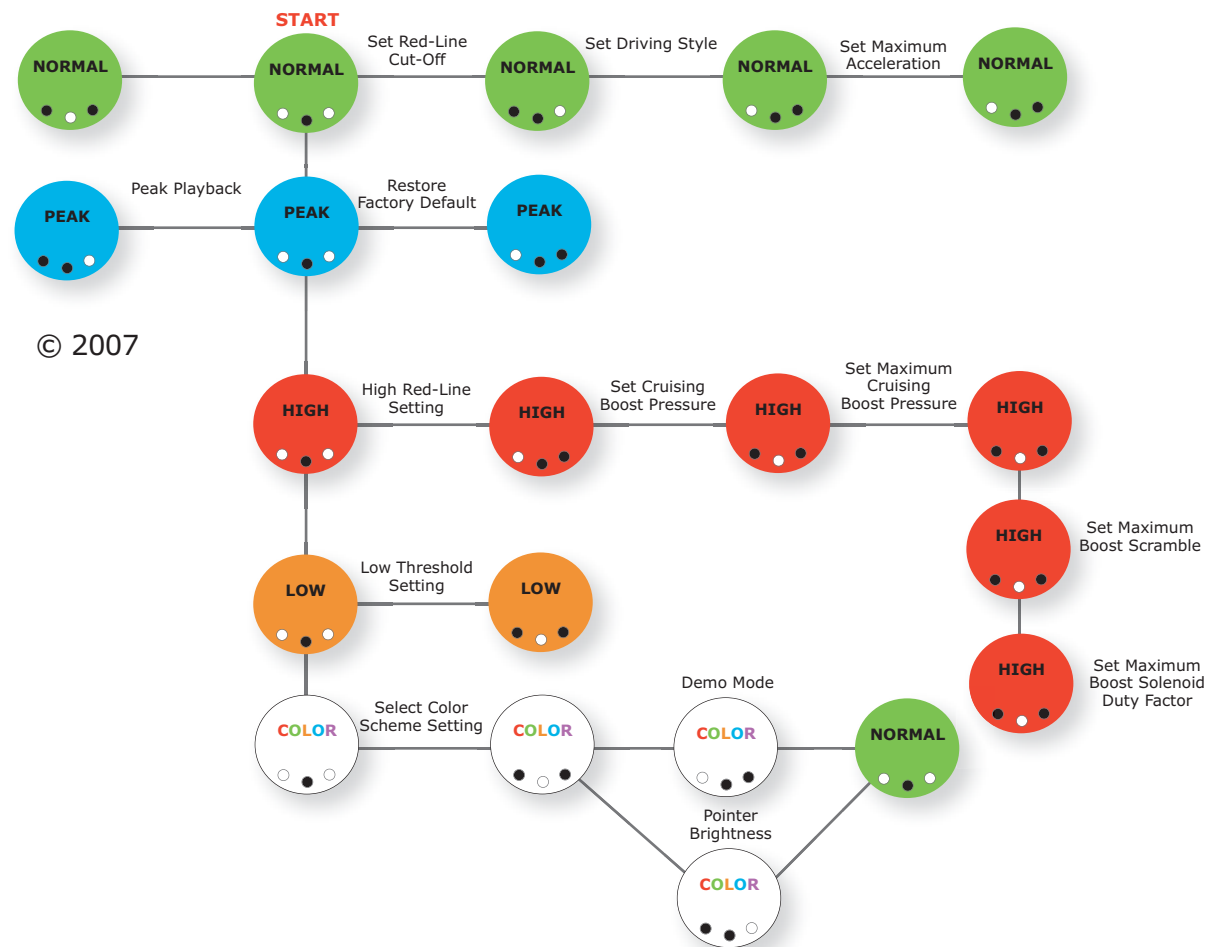
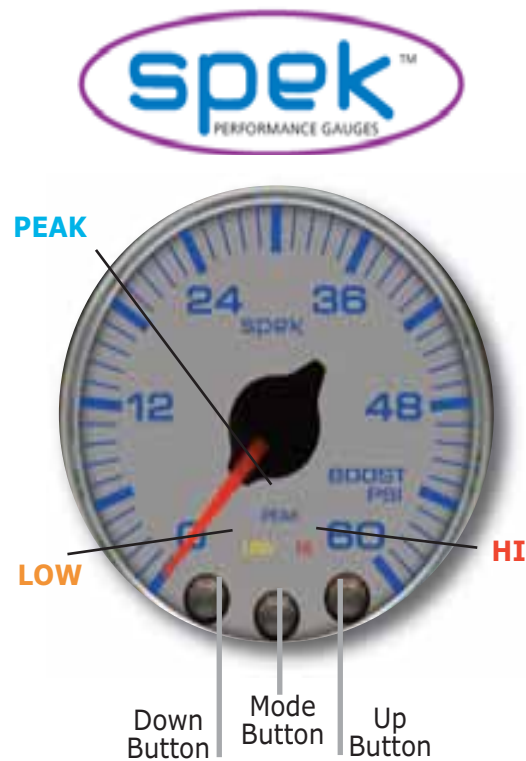
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Flow Chart Programming Instructions for : Boost Gauge 2 1/16" Monitor and Controller



Programming Instructions for : Boost Pressure Gauge 2 1/16" Monitor and Controller

SPEK™ MONITOR AND BOOST CONTROL

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.



MAIN MENU PRESS "MODE" BUTTON TO PROGRAM LEVEL. THEN PRESS BOTH CENTER AND LEFT OR CENTER AND RIGHT BUTTONS FOR FIVE SECONDS TO ENTER SUBMENU	
NORMAL/DIAL BRIGHTNESS	
PEAK PLAYBACK	OPTION:RESTORE FACTORY DEFAULT
HIGH RED-LINE SETTING	
LOW THRESHOLD SETTING	
COLOR SCHEME	OPTION A:DEMO MODE OR OPTION B:POINTER BRIGHTNESS

Programming Instructions for : Boost Pressure Gauge 2 1/16" Monitor and Controller

PROGRAMMING STARTS IN MAIN MENU

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

1 **NORMAL/BOOST CONTROL:**

On power up, the meter usually starts operation in **NORMAL/BOOST CONTROL**. Gauge reads the sensor value as temperature, pressure, etc. The "Down" and "Up" buttons will control the Boost Pressure. 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 meter since the last time the "**PEAK**" value was displayed. Pressing the "Down" or "Up" control button will control the gauge dial illumination. Press the center "Mode" button to 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 **LOW THRESHOLD SETTING**

4 **LOW THRESHOLD SETTING:**

Set the Minimum Threshold: Sets the point at which "**LOW**" warning threshold is reached for that specific gauge. The "Down" and "Up" buttons will move the dial pointer to select the **LOW SHIFT SETTING**. During normal operation the gauge constantly monitors the sensor value and compares it to the "**LOW**" threshold. If the sensor value drops below the threshold, the yellow "**LOW**" indicator is turned on. Press the center "Mode" button save the setting and advance to **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/BOOST CONTROL**

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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**.

1. SET RED-LINE CUTOFF: This is necessary for the gauge to learn the car's a maximum allowable engine RPM Mode.

2. SET DRIVING STYLE: Select the performance enhancement boost required for your operation. Use the Down or Up button to move the pointer to one of the following styles. 9:00 o'clock position is to deliver more power to a pull heavy load, 12:00 o'clock position is for performance. This is performance for street use, but with some provisions for fuel efficiency and reliability. The 3:00 o'clock position is for high performance. This is a flat-out racing mode. Performance is adjusted to deliver maximum performance at the cost of reduced gas mileage and engine lifetime. Press the center mode button to save your setting and return to Normal operation.

SET MAXIMUM ACCELERATION: This will limit turbo charging if the engine is accelerating faster than the limit due to broken traction.

OPTION:RESTORE FACTORY DEFAULT: Activation of the Default will erase all field calibration setup settings that are programmed. Factory calibrations will not be affected.

SET CRUISING BOOST PRESSURE: Press the "Down" or "Up" button to select the maximum manifold pressure that you use while cruising. Press the "Mode" button to set the desired pressure and advance to **SET MAXIMUM BOOST (SCRAMBLE)**.

SET MAXIMUM BOOST (SCRAMBLE): The dial background will flash "**Green**" rapidly in the **SET MAXIMUM BOOST (SCRAMBLE)** Mode. This is typically set to the highest value the engine can endure. This pressure is used temporarily in emergency or racing situations where additional engine wear is permissible. This will typically be 25% to 50% higher than cruise level. A scramble switch must be installed to activate this mode. Press the center "Mode" button to save and advance to **SET MAXIMUM BOOST SOLENOID DUTY FACTOR MODE**.

MODE:SET MAXIMUM RPM: The dial background will flash "**Blue**" rapidly in the **SET MAXIMUM BOOST SOLENOID DUTY FACTOR** Mode. This setting provides a secondary guard against excessive manifold pressure. We recommend a factory setting of 50%. Higher settings permit higher performance at the cost of more engine stress. Press the "Down" or "Up" buttons to select the **SET MAXIMUM BOOST SOLENOID DUTY FACTOR**. Press the center "Mode" button to save the setting. The meter will go dark momentarily.

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**.

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OPTION B: POINTER BRIGHTNESS MODE: The "Down" and "Up" buttons adjust the dial pointer brightness to blend in with original manufacturer's gauges and the owner's requirements. Press the "Mode" button to return the gauge to **NORMAL/BOOST CONTROL**.

CRITICAL CONDITION ALERT/OUTPUT SIGNAL: The dial faceplate will flash "**Red**" and an output signal generated when the programmed "Threshold Setting" is reached. This setting can be "**HIGH**" or "**LOW**" depending upon the gauge function. That is; a temperature gauge would flash "**Red**" when a "**HIGH**" temperature setting is reached while an oil pressure gauge would flash "**Red**" when the "**LOW**" pressure setting is reached. The operator can turn off this signal through the gauge program. See the PROGRAMMING FLOW CHART. From the main menu press the center mode button 3 times. The "**LOW**" LED will light. You are now in the "LOW THRESHOLD SETTING."

OPTION: THRESHOLD ALERT SIGNAL: While in "Low Threshold Setting: press and hold the center and left buttons for five seconds. Dial pointer will step five times and then go to zero or the twelve o'clock position. Select alert signal status: The alert signal is deactivated if the pointer is at the twelve o'clock position. Pressing the left button selects alert signal "ON". Pressing the right button selects alert signal "OFF"

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

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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 RETURNS 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 120 SECONDS THE MODE WILL TIME OUT AND THE GAUGE WILL RETURN TO NORMAL OPERATION, EXCEPT IN DEMO MODE. THE DEMO MODE WILL NOT TIME OUT UNTIL THE "CENTER" 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 **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.