

Wiring Installation Instructions for : RPM Tachometer 5" Nitrous Oxide Controller

SPEK™ MONITOR AND CONTROL PERFORMANCE GAUGE TACHOMETER WITH NITROUS OXIDE INJECTOR CONTROL

PACKAGE CONTAINS:

- Tachometer Gauge 5" INCH
- Wiring Harness
- Mounting Cup (Not required for pod installation)
- (2) Neoprene EDPM Grommets
- Control Module, Part # 14820
- Optional: Scramble Mode Switch, Part #14608
- Optional: Arming Switch, Part #14606

FEATURES:

TACHOMETER FEATURES:

- FIVE INCH (5") TACHOMETER INCLUDES PROGRAMMABLE "**HEADS-UP-REDLINE**"™ SHIFT LIGHTS WITH DIMMER THAT CHANGE FROM **HEADS-UP YELLOW** TO **RED-LINE RED** AT SET SHIFT POINT.
- TACHOMETER WITH BUILT IN N2O CONTROLLER (PART #14609) CONTROLS AN OUTPUT CONTROL MODULE (PART # 14820) FOR NITROUS OXIDE INJECTOR VALVE CONTROL.
- GAUGES ARE PROGRAMMED THROUGH WATER RESISTANT STAINLESS STEEL SEALED COMMAND KEYS LOCATED ON THE FACEPLATE. NO CONTROL BOXES OR HAND HELD REMOTE CONTROL NEEDED.
- FIVE (5") INCH TACHOMETER IS DESIGNED WITH A 2 1/16, 52MM CAP. THE GAUGE ATTACHES TO GAUGE MOUNTING BRACKET (PART # 81105) FOR EASY PILLAR POD MOUNTING. NO NEED TO DRILL HOLES IN YOUR DASH.

INSTALLATION INSTRUCTIONS:

1 DISCONNECT NEGATIVE (-) BATTERY TERMINAL.

2 VARIOUS MOUNTING SOLUTIONS ARE PRESENTED BY PROPARTS, LLC ON THEIR WEBSITE AT **www.ProPartsLLc.com**

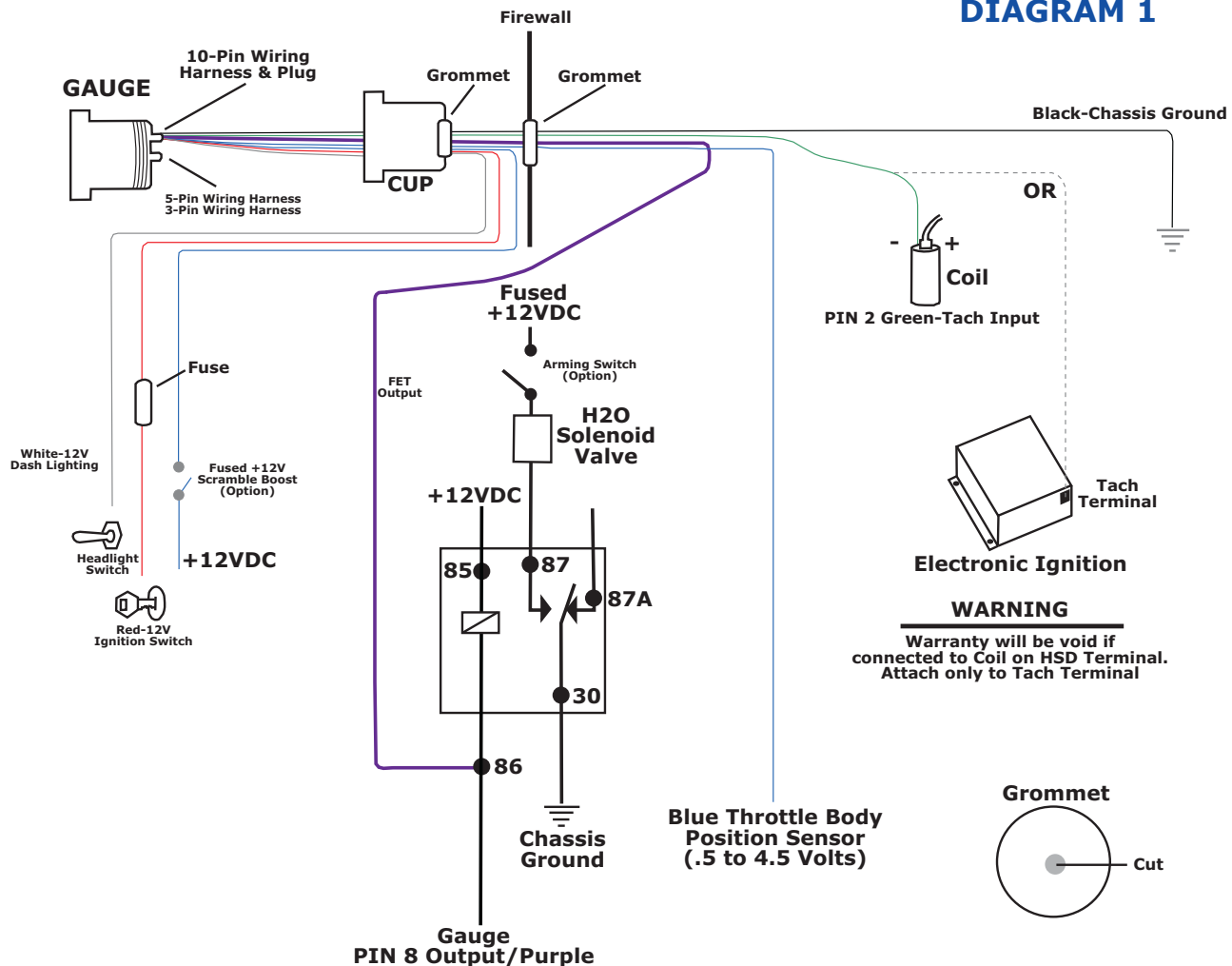
DASH INSTALLATION: SELECT LOCATION IN THE DASH TO MOUNT GAUGE AND CUT A 2 1/16" HOLE. USE A FILE TO INCREASE THE HOLE SIZE IF REQUIRED. BE SURE THERE IS SUFFICIENT ROOM BEHIND THE HOLE FOR THE METER CASE AND THE CONNECTORS YOU WILL USE.

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- 3** IF A SUITABLE HOLE IN THE FIRE WALL IS NOT AVAILABLE, CUT AN 11/16 HOLE.
- 4** TWO GROMMETS MUST BE CUT TO PERMIT INSTALLATION OF WIRING HARNESS. ([SEE DIAGRAM 1](#))
- 5** INSTALL THE TWO (2) GROMMETS AND MOUNTING CUP ON THE WIRING HARNESS AS SHOWN IN [DIAGRAM 1](#). ONE GROMMET IS FOR THE HOLE IN THE FIREWALL AND THE SECOND IS FOR THE BACK OF THE DASH GAUGE MOUNTING CAP.
- 6** DO NOT CONNECT WIRING HARNESS TO THE GAUGE UNTIL THE OTHER CONNECTIONS HAVE BEEN MADE AND TESTED.
- 7** CONNECT THE **RED** (+ 12 VOLT SUPPLY) WIRE TO "ON" CIRCUITS THAT GET POWER WHEN THE IGNITION IS TURNED-ON. THIS CIRCUIT MUST BE FUSED BEFORE THE IGNITION SWITCH (1 AMP, 3AG FAST ACTING LITTLEFUSE® #312001 OR EQUIVALENT).
- 8** CONNECT THE **BLACK** WIRE TO A GOOD GROUNDING POINT ON THE CAR'S CHASSIS.
- 9** CONNECT THE **WHITE** WIRE TO THE DIMMER VOLTAGE GOING TO THE DASH LIGHTS. THIS WILL CAUSE THE METER BRIGHTNESS TO TRACK THE BRIGHTNESS OF THE REST OF THE INDICATORS.
- 10** CONNECT THE **GREEN** SENSING WIRE TO THE PRIMARY TERMINAL ON THE IGNITION COIL (STANDARD-TYPE COIL) OR TO THE AUXILIARY TERMINAL MEANT FOR THE TACH WIRE (AFTER MARKET, HIGH PERFORMANCE COIL). DO NOT CONNECT TO COIL ON MSD IGNITION. ATTACH ONLY TO TACH TERMINAL.
- 11** CONNECT THE **BLUE** THROTTLE SENSOR WIRE TO THE THROTTLE MONITOR.
- 12** CONNECT 12V POWER SUPPLY WIRE TO THE POSITIVE TERMINAL ON THE N2O SOLENOID.
- 13** CONNECT A FET OUTPUT WIRE FROM THE GAUGE TO OUTPUT CONTROL RELAY GROUND TERMINAL (86).
- 14** CONNECT RELAY OUTPUT WIRE FROM TERMINAL (87) TO THE NEGATIVE (-) TERMINAL OF THE NITROUS OXIDE GAS RELEASE SOLENOID.
- 15** CONNECT AN IN LINE FUSED 12V POWER SUPPLY WIRE TO RELAY TERMINAL 85.
- 16** CONNECT A 14 AWG WIRE FROM THE POSITIVE END OF THE DISPENSING SOLENOID VALVE TO THE IGNITION BUS.
- 17** PLUG THE WIRING HARNESSES INTO THE GAUGE AND MOUNT IN POD OR DASH.
- 18** IF DASH INSTALLATION, ATTACH MOUNTING CUP OVER THE BACK OF THE GAUGE AND HAND TIGHTEN. DO NOT OVER TIGHTEN.
- 19** POWER UP THE GAUGE AND INSPECT ALL CONNECTIONS. IF GAUGE IS OPERATING NORMALLY, PROCEED TO "PROGRAMMING MANUAL".

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DIAGRAM 1

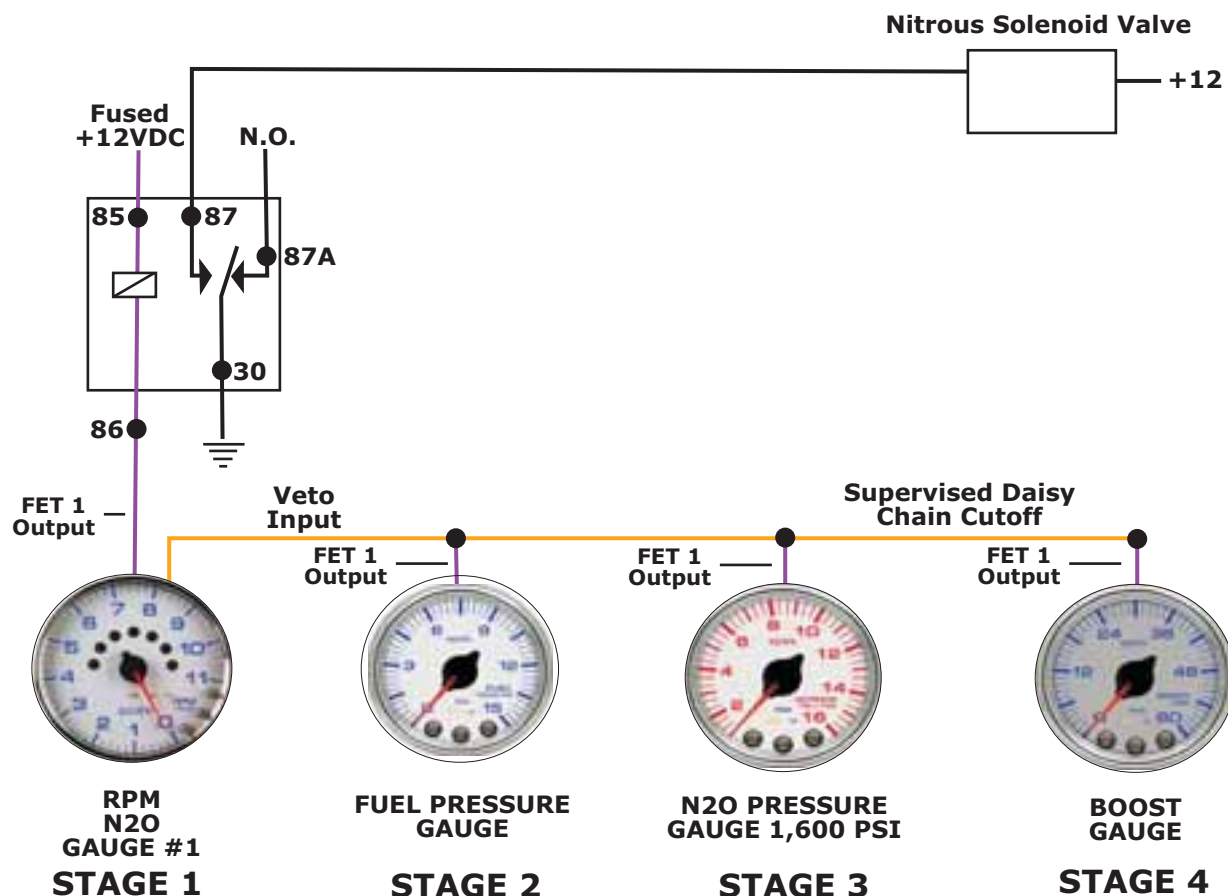


- **CAUTION:** FOLLOW WIRING INSTRUCTIONS CAREFULLY. INCORRECT RELAY WIRING MAY LEAD TO PREMATURE N2O VALVE ACTIVATION.
- **WARNING:** INSTALLATION MUST BE PERFORMED BY AN EXPERIENCED TECHNICIAN. INSTALLER MUST WEAR SAFETY GLASSES. SYSTEM MUST BE INSTALLED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
- 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 GAUGE.
- PROPARTS LLC, IS NOT RESPONSIBLE FOR INCORRECT INSTALLATION OR PROGRAMING OF THE SPEK™ TACHOMETER WITH NITROUS OXIDE CONTROLLER.
- THIS UNIT IS DESIGNED ONLY FOR DC12V TYPE VEHICLES WITH NEGATIVE GROUND.
- CHECK LEAN FUEL SUPPLY THAT COULD CAUSE ENGINE DAMAGE.
- DO NOT ENGAGE YOUR NITROUS SYSTEM WITH THE ENGINE OFF. SEVERE ENGINE DAMAGE COULD OCCUR.
- DO NOT ADJUST THE UNIT WHILE DRIVING. OBEY ALL OF THE RULES AND REGULATIONS OF HIGHWAY DRIVING.
- DO NOT USE THIS UNIT UNDER EXTREMELY HOT OR COLD CONDITIONS.
- DISCONTINUE USE OF THIS PRODUCT IF THE GAUGE DOES NOT OPERATE OR IF A STRANGE ODOR OR SMOKE IS PRESENT.

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APPLICATION INFORMATION

SPEK™ PRO-SERIES THREE (3) STAGE TACHOMETER WITH NITROUS OXIDE CONTROL (N2O)



STAGE 1
Stage 1 is the Spek™ Tachometer with Nitrous Oxide Control that can manage a N2O injector valve. You can preset the range of RPMs to inject the gas. Nitrous Oxide will be injected from the reservoir whenever the engine speed is between high and low field programmed limits and the throttle is flat out. To program the gauge to the characteristics of the vehicle follow the directions in the program manual.

STAGE 2
Stage 2 includes the addition of the Spek™ Fuel Pressure Control Gauges. It works in conjunction with the nitrous oxide control by monitoring the pressure in the fuel supply. A significant decrease in fuel pressure will light the programmable **LOW** indicator led and produce a signal to the Tachometer that results in turning off the N2O release circuit. The trouble signal to the Tach is supervised. If the Tach loses the supervisory signal from the pressure gauge, the pressure gauge faceplate light will flash alternating from **RED** to **GREEN**. The low fuel pressure setting should be set at a race track under normal fuel pressure conditions. Fuel pressure under load can decrease in volume. Set the low pressure just below the normal fuel pressure to achieve a fast response.

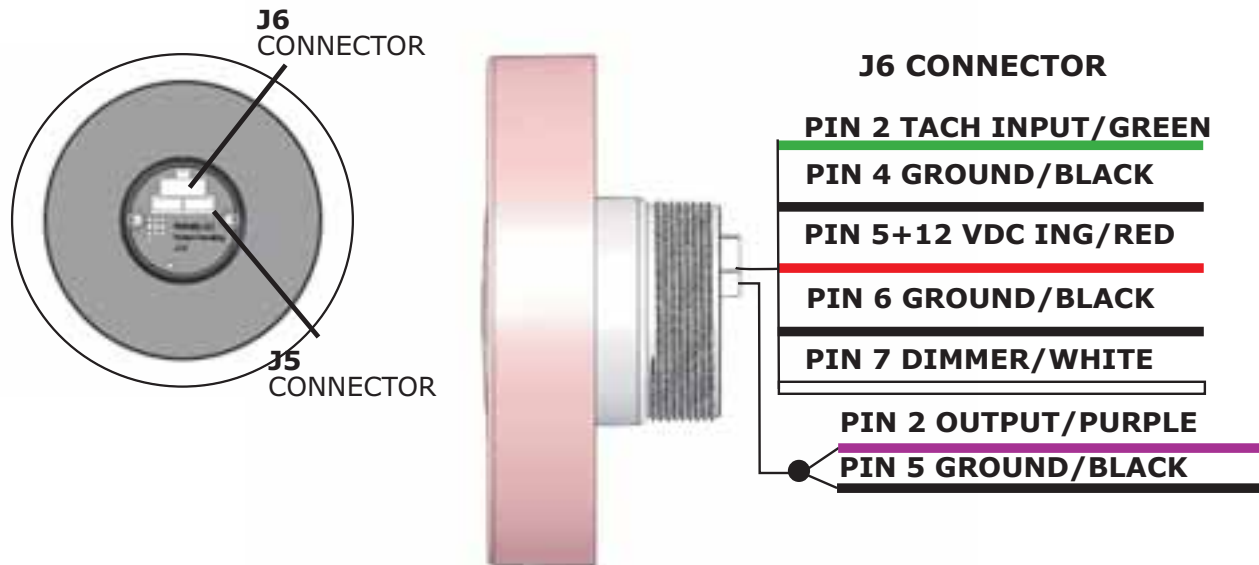
STAGE 3
Stage 3 adds the SPEK™ Nitrous Oxide Pressure Gauge to create a three gauge kit. If either gauge loses pressure both faceplates will flash alternately **RED** and **GREEN** and the programmable **LOW** indicator led will light in the gauge with low pressure. In addition, the Tach will activate a signal to close the N2O solenoid valve.

STAGE 4
Stage 4 adds the SPEK™ Boost Controller to create a 4 gauge kit. Either one of these Stage 2, 3 or 4 can work independently. Set Boost limit to desired High Level, to deactivate the Nitrous controller when the limit is reached.

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DIAGRAM 2

WIRING FOR 5" SPEK™ TACHOMETER



ProParts, LLC Limited Warranty: ProParts, LLC warrants all merchandise against defects in factory workmanship and material for 12 months from date of original purchase. Proof of purchase is required; otherwise the warranty period shall default to 12 months from date of manufacture as indicated by the date code on the product. This warranty applies to the first retail purchaser and covers only those products exposed to normal use or service. This warranty excludes items used for a purpose for which it is not designed, or which has been altered in any way that would be detrimental to the performance or life of the product or misapplication, misuse, negligence or accident. When it is determined by ProParts, LLC after examination that a product is defective, ProParts, LLC will repair, replace or issue credit for any defective product through the original selling dealer or on a direct bases. In no event shall this warranty exceed the original price of the product. ProParts LLC assumes no responsibility for diagnosis, removal and/or installation labor, loss of vehicles use, loss of time, inconvenience or any other consequential expense. ProParts LLC disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by ProParts LLC.

The purchaser or user of any products distributed, sold or manufactured by ProParts, LLC assumes all risk related to and/or arising from the ownership or use of said product and agrees to indemnify and hold ProParts, LLC harmless from any and all claims brought by any person or entity against ProParts, LLC related to and/or arising from ownership and/or use of said product.

Return Goods Authorization:

Warranty returns will only be accepted by ProParts, LLC when accompanied by a valid Return Goods Authorization (RGA) number. Product must be received by ProParts, LLC within 30 days of the date the RGA is issued. Before a RGA can be issued, the installer or end user must contact ProParts, LLC Technical Department to discuss the problem. Any out of warranty ProParts, LLC products can be returned for repair. There is a minimum charge of \$50.00 for inspection and diagnosis. ProParts, LLC will provide an estimate of repairs and receive written authorization before repairs are made to the product.