

Wiring Installation Instructions for : Temperature 2 1/16" Gauge with Optional Thermostatic Control

SPEK™ TEMPERATURE GAUGE

PACKAGE CONTAINS:

- Temperature Gauge
- Temperature Sender
- Wiring Harness
- Mounting Cup
- Bushing (1/8", 18 NPT)
- (2) Neoprene EDPM Grommet
- Weld Bushing for a 1/4" NPTF

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 **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.
- 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)
- 5 INSTALL THE TWO (2) Grommet 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 GAUGE MOUNTING CUP.

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- 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 IMMERSSED IN FLUID 3-6 MM FOR AN ACCURATE READING.
- 8** OIL, DIFFERENTIAL AND TRANSMISSION SENDERS MAY REQUIRE A MOUNTING HOLE BE DRILLED AND A 1/4" NPTF ADAPTER WELDED IN PAN..
- 9** CLEAN THREADS IN MOUNTING FITTING AND SCREW SENDER UNIT IN HAND TIGHT.
- 10** USE TEFLON SEALING COMPOUND. TAPE IS NOT RECOMMENDED.
- 11** WITH WRENCH, TIGHTEN SENDER INTO BLOCK UNTIL SECURE. DO NOT OVER TIGHTEN. TEST ALL FITTINGS FOR LEAKS.
- 12** CONNECT THE **RED** (+12 VOLT SUPPLY) WIRE TO "ON" CIRCUIT THAT GETS POWER WHEN THE IGNITION IS TURNED ON. THIS CIRCUIT MUST BE FUSED BEFORE THE IGNITION SWITCH (1 AMP, 3 AG FAST ACTING LITTLEFUSE® #312001 OR EQUIVALENT).
- 13** CONNECT THE **BLACK** WIRE TO A GOOD GROUNDING POINT ON THE CAR'S CHASSIS.
- 14** 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.
- 15** PLUG THE SENDER WIRING HARNESS INTO THE PACKARD FITTING ON THE SENSOR.
- 16** PLUG THE WIRING HARNESS INTO THE GAUGE AND MOUNT IN POD OR DASH. USE CARE WHEN CONNECTING OR DISCONNECTING THE WIRING HARNESS. PULL OUT EACH PACKARD FITTING CONNECTOR WHILE PRESSING THE LOCK OF THE CONNECTOR FIRMLY.
- 17** ATTACH THE MOUNTING CUP OVER THE BACK OF THE GAUGE AND HAND TIGHTEN. DO NOT OVER TIGHTEN.
- 18** POWER UP THE GAUGE AND INSPECT ALL CONNECTIONS. IF GAUGE IS OPERATING NORMAL, PROCEED TO "PROGRAMMING MANUAL."

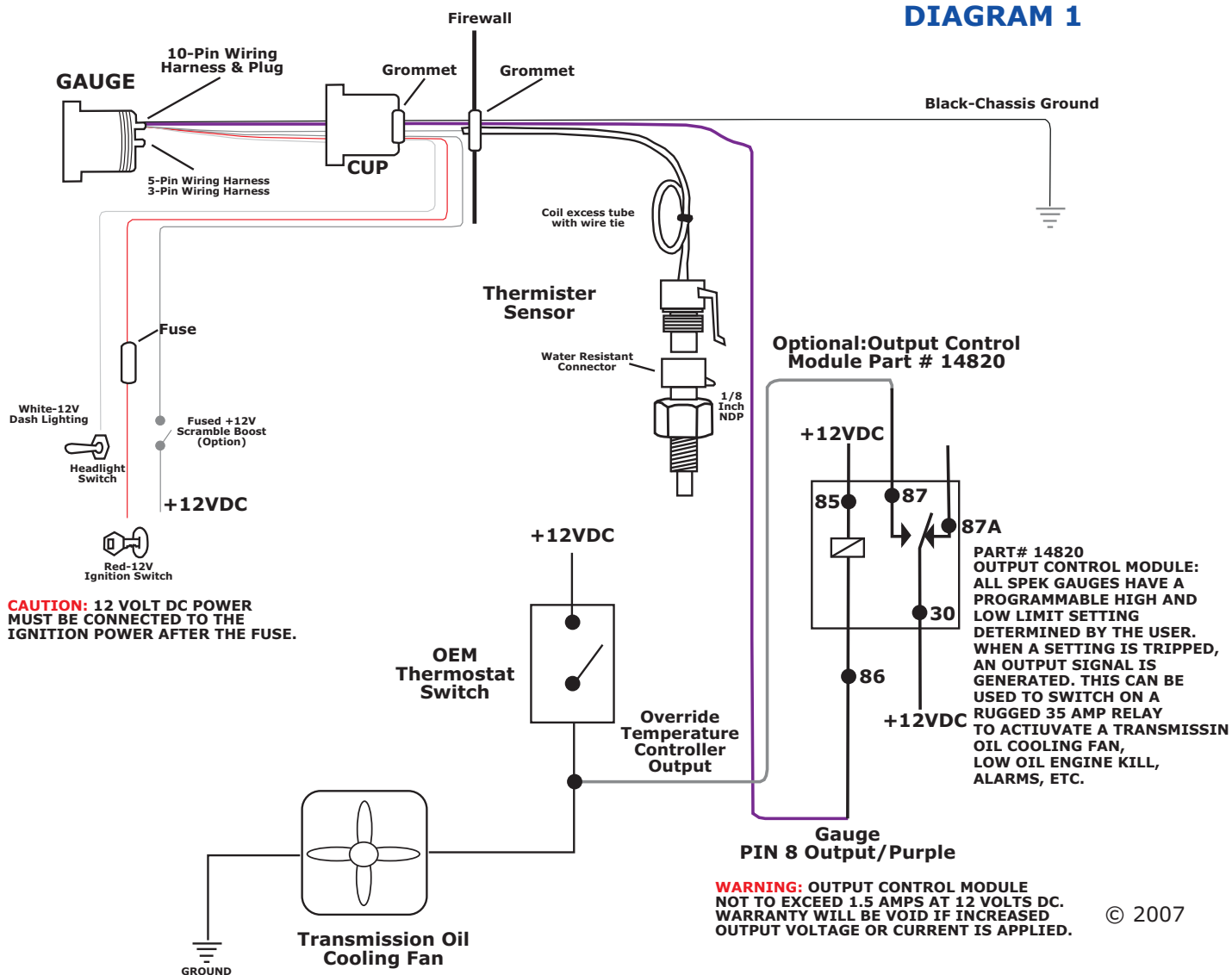
TROUBLESHOOTING:

- 1** THE GAUGE FACEPLATE WILL FLASH ALTERNATELY "**RED**" THEN "**GREEN**" IF THE SENSOR PROBE IS NOT CONNECTED TO THE WIRING HARNESS.
- 2** 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.
- 3** SENSOR CAN BE TESTED WITH AN OHM METER. CONNECT POSITIVE LEADS TO THE SENDER TERMINAL AND TO THE NEGATIVE GROUND. READING SHOULD BE AS FOLLOWS:

TEMPERATURE SENDER COLD (65°F).....4 KΩ (OHM)
TEMPERATURE SENDER HOT (250°F).....240 KΩ (OHM)

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DIAGRAM 1



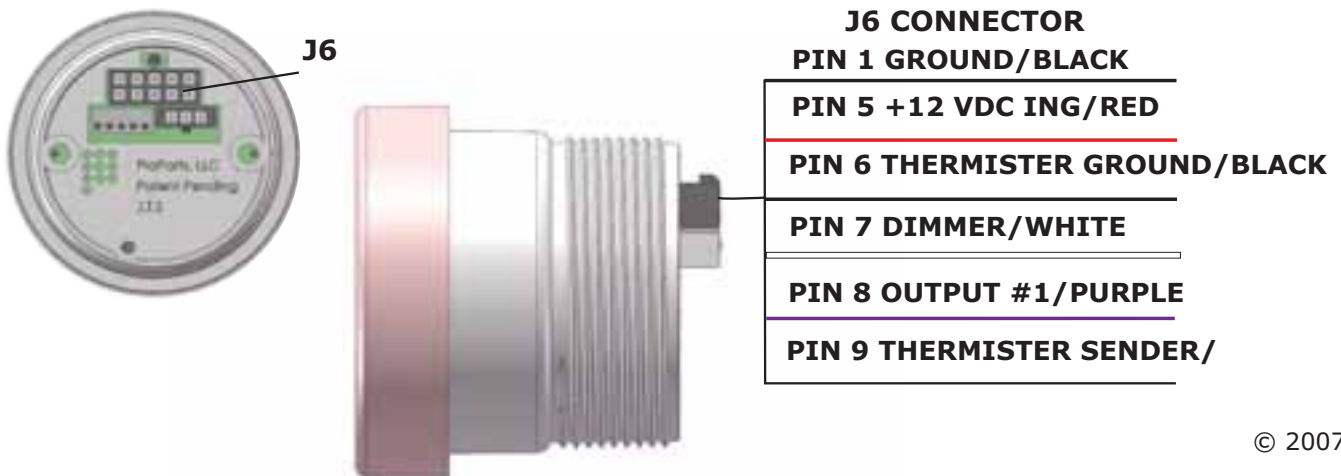
- **CAUTION: FOLLOW WIRING INSTRUCTIONS CAREFULLY. INCORRECT RELAY WIRING MAY LEAD TO PREMATURE N2O VALVE ACTIVATION.**
- **WARNING: INSTALLATION MUST BE PERFORMED BY AN EXPERIENCED TECHNICIAN. INSTALLER MUST WEAR SAFETY GLASSES. SYSTEM MUST BE INSTALLED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.**
- **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 PROGRAMMING 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.**

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- **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.**

DIAGRAM 2

WIRING FOR 2 1/16" SPEK TEMPERATURE GAUGE



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