DEDENBEAR
PRODUCTS, INC.
1917 OAK PARK BLVD. PLEASANT HILL, CA 94523
(925)935-3025 FAX (925)935-2287

INSTALLATION INSTRUCTIONS

SOLENOID SHIFTER Model SS-2

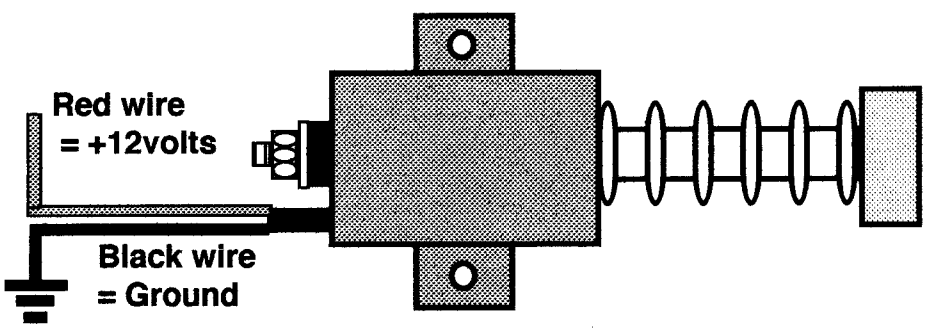
APPLICATION - The Dedenbear Products Solenoid Shifter is designed to push any "gate" style shifter from first gear into second gear. It was designed to make only one shift per run. On a forward pattern shifter, with first gear being farthest away from park, mount the Solenoid Shifter on the transmission tunnel behind the shifter. If the shifter is in a rear engine dragster or altered, with the shifter centered between the driver's legs and up against the seat, it may be possible to turn the shifter around so "Park" is now up against the seat. Then mount the Solenoid Shifter "behind" the shifter, so it pushes towards the back of the car.

The Solenoid Shifter has been used quite often on 3 speed transmissions, making the 1-2 shift, but it will not do the 2-3 shift on the same transmission. Custom mounting bracket or modifying the end of the plunger is required to do this. Please call if you have any questions.

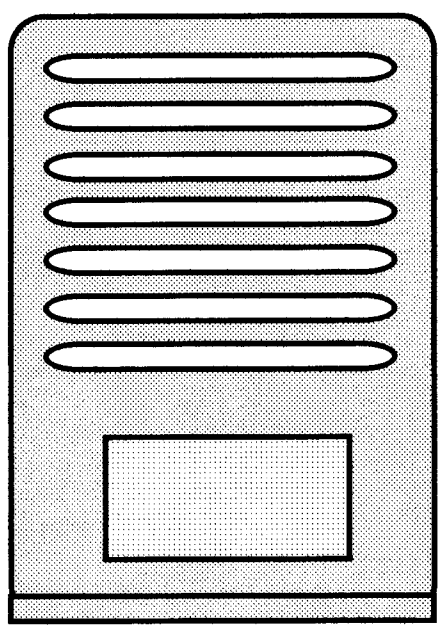
WIRING - The solenoid works by **"holding"** the plunger back when +12volts is applied. When the +12volts is cut, the spring-loaded plunger fires forward, pushing the shifter lever into the next gear. Locking the plunger back is accomplished by pulling the shifter lever back into low gear or manually compressing the plunger.

Wire the solenoid so that it has a constant +12volt power supply, and (if shifting by RPM) when the selected RPM is reached, the +12volt power is cut off. "Short shifting" is accomplished by removing the +12v power, by use of a toggle switch or "normally closed" momentary contact push-button. See diagrams on back for typical wiring schematics.

THE SOLENOID WILL GET VERY WARM. THIS IS NORMAL. IT HAS A CONTINUOUS DUTY COIL THAT ONLY DRAWS ONE (1) AMP! THIS IS EQUAL TO A "DOME LIGHT" IN A STREET CAR. IT WILL NOT PUT AN EXCESSIVE DRAIN ON THE BATTERY.



Custom manufactured Solenoid with 1 amp holding coil, all parts plated. Replacement Solenoid: p/n SOLSS2



Clear hard anodized aluminum striker button and aluminum mounting bracket.

LIMITED 1 YEAR WARRANTY

Dedenbear Products components are warranted directly by Dedenbear Products against defective materialor workmanship under normal use and service for a period of one (1) year after purchase. Dedenbear Products will repair or replace the defective unit, at Dedenbear Products option, free of charge. This warranty does not cover any damage to the component caused by abuse, mishandling, alteration, accident, electrical current fluctuations, failure to follow installation/operating instructions, maintenance, storage and environmental conditions, or repair attemps made by anyone other than Dedenbear Products Authorized Service facility. DEDENBEAR PRODUCTS SHALL NOT BE LIABLE FOR INJURY, CONSEQUENTIAL, OR OTHER TYPE DAMAGES RESULTING FROM THE USE OF IT'S PRODUCTS, OTHER THAN THE LIABILITY STATED ABOVE. This warranty is in lieu of all other warrantiesof merchantability or fitness of use. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

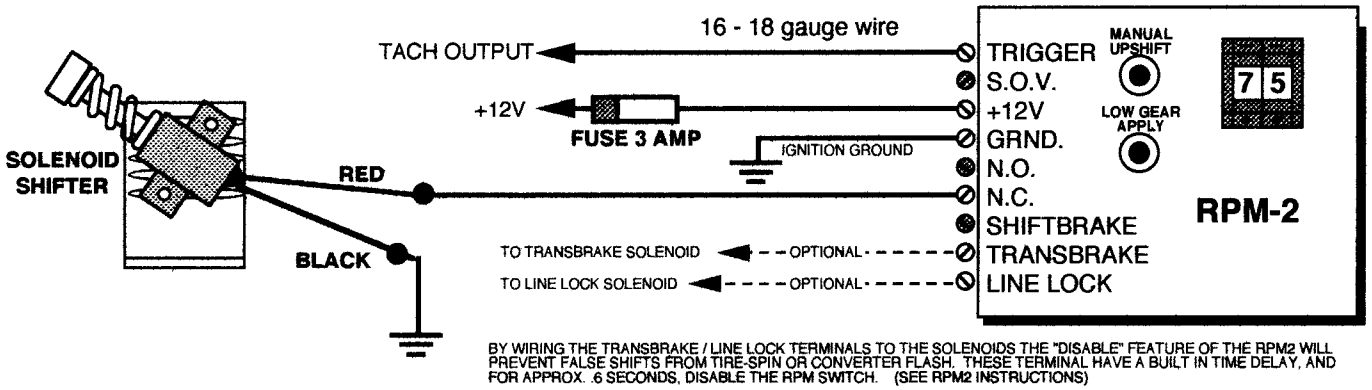
FOR SERVICE on all Dedenbear Products, return directly to: DEDENBEAR PRODUCTS, INC. • ATTN: REPAIRS • 1917 OAK PARK BLVD. • PLEASANT HILL, CA 94523. For faster service, please include a note describing the nature of the problem, a photocopy of your original invoice, your name, return shipping address, and a daytime phone number where you can be reached.

For Tech. Assistance. Call: (925)935-3025

Solenoid Shifter using DEDENBEAR RPM2 rpm activated switch

When using a Dedenbear RPM2 rpm activated switch (p/n #RPM2) to make the Solenoid Shifter shift wire as shown below.

The Solenoid Shifter unit must be energized to properly determine the mounting position, so the first step is to wire the MSD rpm switch as shown. Use at least 16 - 18 gauge wire, and install a 3 amp fuse in the +12v wire.



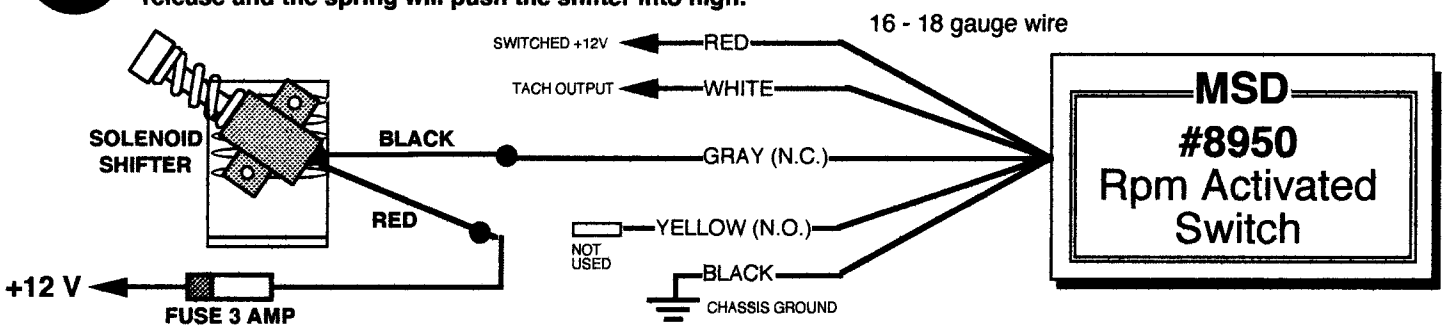
BY WIRING THE TRANSBRAKE / LINE LOCK TERMINALS TO THE SOLENOIDS THE "DISABLE" FEATURE OF THE RPM2 WILL PREVENT FALSE SHIFTS FROM TIRE-SPIN OR CONVERTER FLASH. THESE TERMINAL HAVE A BUILT IN TIME DELAY, AND FOR APPROX. .6 SECONDS, DISABLE THE RPM SWITCH. (SEE RPM2 INSTRUCTIONS)

Solenoid Shifter using MSD RPM switch #8950

Some racer's use MSD rpm activated switch (p/n #8950) to make the Solenoid Shifter shift so we've included the correct wiring diagram for them.

The Solenoid Shifter unit must be energized to properly determine the mounting position, so the first step is to wire the MSD rpm switch as shown. Use at least 16 - 18 gauge wire, and install a 3 amp fuse in the +12v wire for the solenoid.

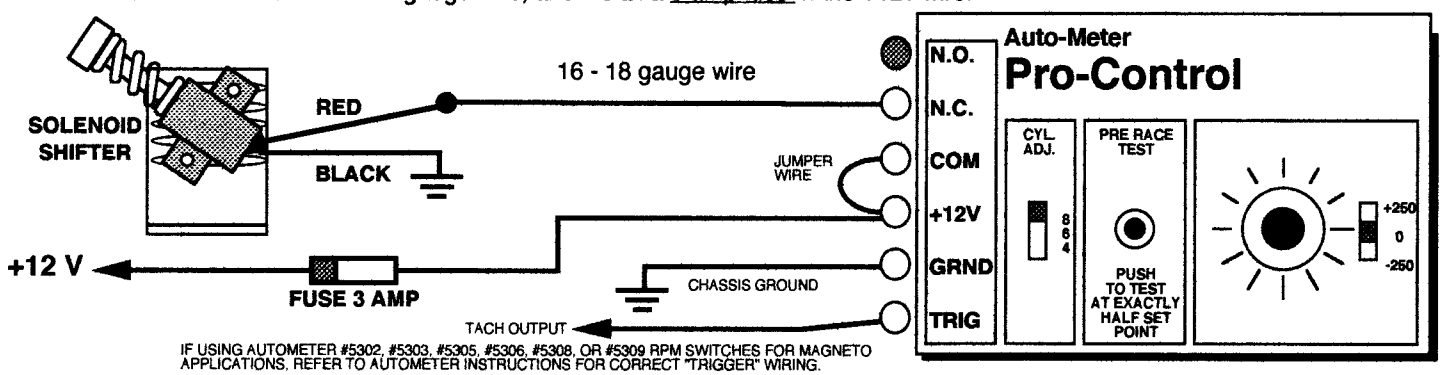
Remember: MSD #8950 rpm activated switch controls (switches) ground. This means the solenoid will be wired to a constant "hot" source. When the MSD #8950 "removes" ground (gray wire), the solenoid will release and the spring will push the shifter into high.



Solenoid Shifter using AutoMeter Pro-Control rpm switch #5301, #5304, #5307 (Std./MSD ign)

Some racer's use AutoMeter Pro-Control rpm activated switch (p/n #5301) to make the Solenoid Shifter shift so we've included the correct wiring diagram for them.

The Solenoid Shifter unit must be energized to properly determine the mounting position, so the first step is to wire the AutoMeter rpm switch as shown. Use at least 16 - 18 gauge wire, and install a 3 amp fuse in the +12v wire.



IF USING AUTOMETER #5302, #5303, #5305, #5306, #5308, OR #5309 RPM SWITCHES FOR MAGNETO APPLICATIONS, REFER TO AUTOMETER INSTRUCTIONS FOR CORRECT "TRIGGER" WIRING.

NOTE: Dedenbear Products warranty covers only Dedenbear Products components, not any other device used in conjuction with our products. We suggest reading the other manufacturer's instructions to be sure there will not be any problems. If you have any questions, please call us. Thank you.

For Tech. Assistance, Call: (510)935-3025

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