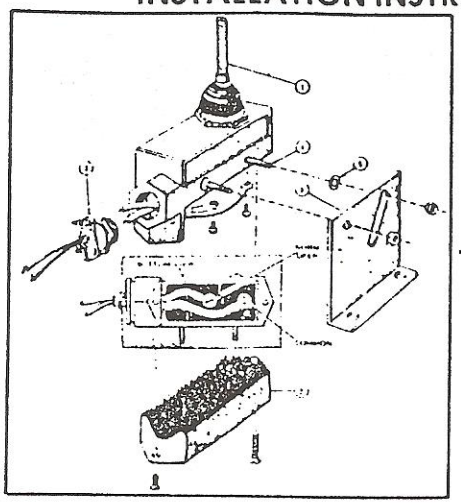
INSTALLATION INSTRUCTIONS



Back-Up Alarms must be tested each day prior to vehicle operation. A record of this test must be recorded in the vehicle maintenance file.

A. Select a convenient location for mounting the switch, either at the reverse gear linkage or shift lever, so the outer end of the switch actuating arm (1) will be moved a minimum of one inch when vehicle is put into reverse gear. Contact with the actuating arm should be made approximately 1½" from the end.

B. Thread two 14 or 16 gage wires to this switch location. One from the positive terminal of the back-up alarm (red wire or front terminal) and the other from a good source of electricity.

C. Remove lower switch housing (2). Install wire clamp (3) and insert wires through clamp. Connect one of the wires to the terminal marked "NORM OPEN" and the other wire to the terminal marked "COMMON".

NOTE: To improve moisture resistance apply a sealing compound around wires at clamp (3) after reassembly.

D. Unscrew hex nuts from switch mounting bolts (4) and attach mounting bracket (5). Be sure that sealing washers (6) are in place between bracket and switch. Bolt bracket in position on vehicle.

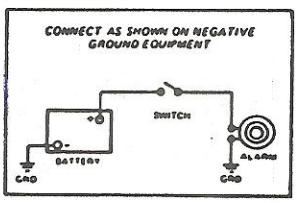
E. Check back-up alarm system for proper operation before using vehicle. If alarm does not function, reverse power leads to alarm. If alarm still does not function, check to make sure actuating arm is moving one inch.

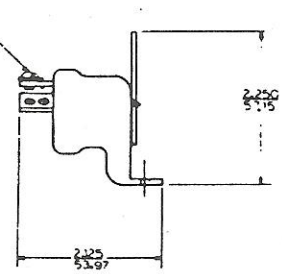
CAUTION: This switch is designed to handle the current draw of back-up alarms No other circuit can be added to system without endangering life of switch.

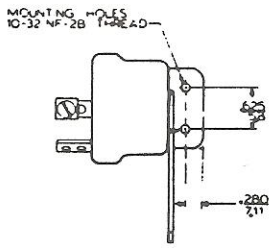
Form No. 8200-0065-1076

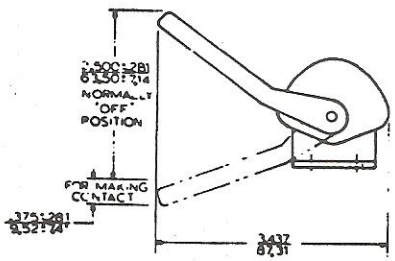
A MECHANICAL SWITCH FOR USE WITH BACK-UP ALARMS

Install the Switch adjacent to the gear shift lever so that shifting into reverse will move the switch actuator arm sufficiently to make electrical contact.









BACKUP ALARM INSTALLATION INSTRUCTIONS

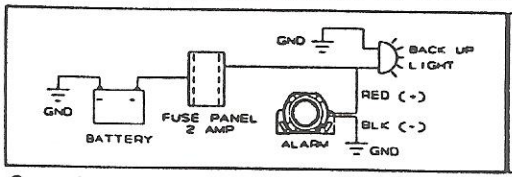
GENERAL: This BACKUP alarm is designed to provide an audible warning sound in hazardous areas associated with vehicle or mobile equipment. The alarm should be wired to sound the SAE approved warning "beep" when a vehicle moves in reverse direction.

MOUNTING: The alarm should be mounted, facing rearward approximately 4 feet above ground level. Locate the unit in a protected location, to avoid collision damage. **DO NOT** mount with the face oriented directly upward or downward.

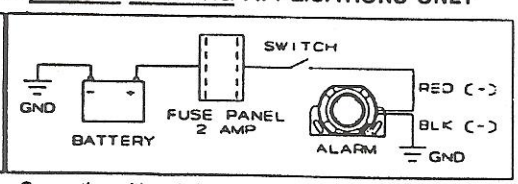
CONNECTIONS: Connect the alarm to power using the illustrations below for reference. For proper operation please observe correct polarity when hooking up wires. Alarms are polarity protected so no damage will occur if wires are accidentally connected backwards. Be sure the power circuit is fused. Switches that can be used to activate the alarm on vehicles without backup lights are available.

SOUND LEVEL: The label on each alarm describes it's level of sound output in decibels(dB). SMART ALARMs have a self-adjusting feature which automatically changes their output to be a minimum of 5 dB's above the surrounding noise levels. Manually adjustable alarms provide two sound levels. To produce the HIGH SOUND OUTPUT, connect the power wire to the (+) terminal or the red lead wire with a black trace and connect the ground wire to the (–) terminal or the black lead wire. The LOW SOUND OUTPUT is produced by connecting the power wire to the (–) terminal or the black lead wire and connecting the ground wire to the (+) terminal or the red lead wire with black trace. Non-adjustable alarms have a fixed sound level output.

NOTE: BACKUP ALARMS SHOULD BE USED FOR <u>BACKUP</u> <u>WARNING</u> APPLICATIONS ONLY



Connection to Back-up light circuit.



Connection with switch

Rev-1 Lab 102