Positive battery cable (SOLD SEPARATELY)

E

BROWN (ALTERNATOR IGN)

J

1 2

BAT

Delco-Remy
made in USA

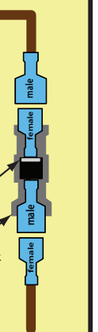
GM "SI" series
alternator shown
as sample

SEE PAGE 2 FOR OTHER
ALTERNATOR CONNECTIONS

Optional 500529
In-line diode kit

To Alternator

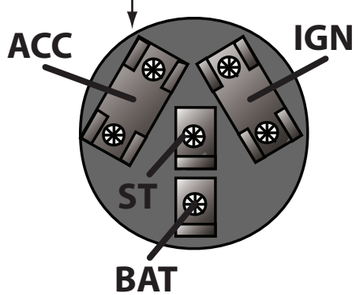
The diode blocks accessory voltage at the alternator from reaching the ignition switch which commonly causes vehicle "run-on".



To Ignition
Switch

A

B



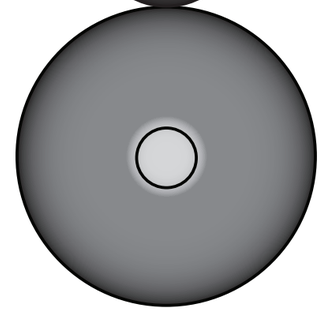
Ignition Switch
from Bag 500456

6 gauge red wire
from 510476 Bag Z

"BAT" stud

F G

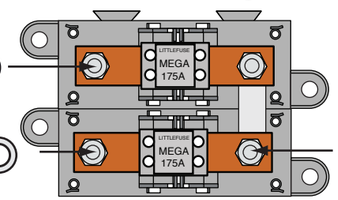
R S



STARTER

Assembled Megafuses
from 510476 kit Bag Z

F H



H F

FUSED SIDE

UNFUSED SIDE

Shown for reference
(See 500700 - Ignition
Switch & Starter
Wiring Kit)

NOTE: The Mega-Fuse box should be mounted as close to the battery power source (junction block, starter relay, starter solenoid, etc.) as possible. The battery feed wire to the Mega-Fuse is an unfused lead, and as such, AAW does not recommend mounting on the inside of the vehicle.

American Autowire

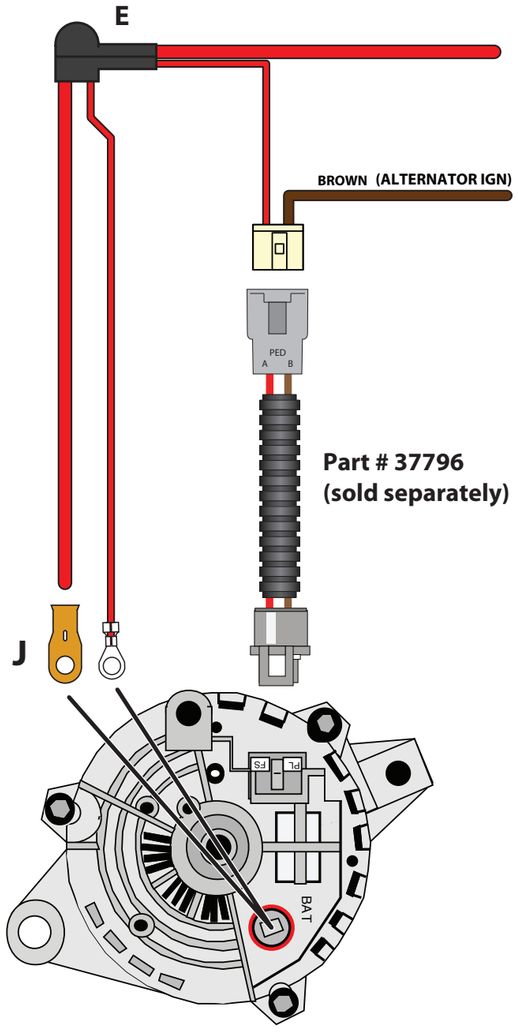
www.americanautowire.com 856-933-0801

HIGHWAY 22 PLUS

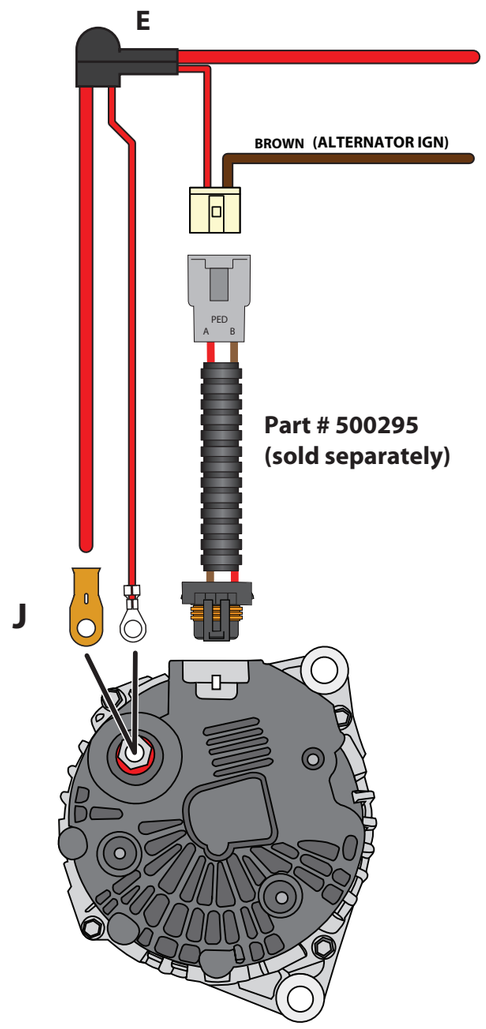
bag B

Alternator
Connection Kit
510493

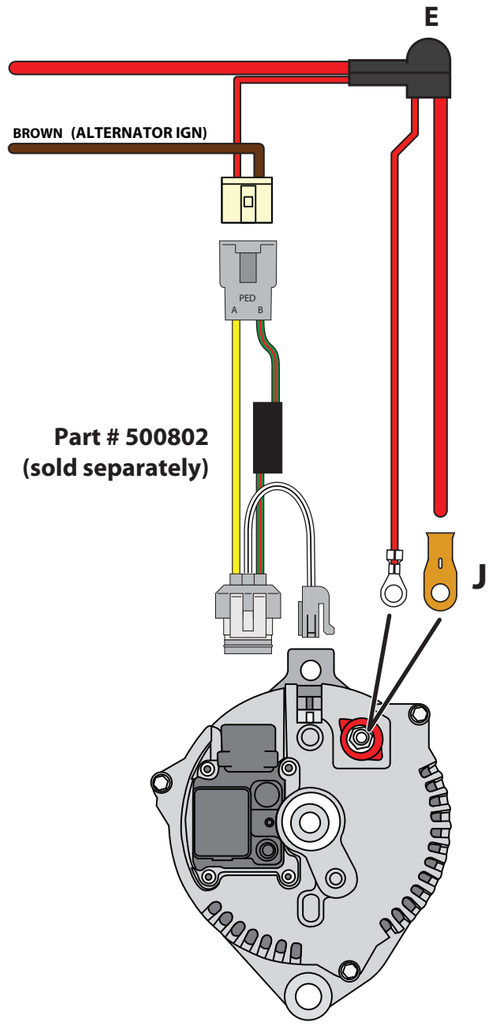
92972356 Instruction rev 1.0 06/08/2021 CAD



GM CS130, CS144 Alternator
1986 - 1999



GM CS130-D Alternator
1994 - Beyond



Ford 3G Alternator
1994 - 2000

Common alternator connections

INSTALLATION OF POWER WIRE - ALL ALTERNATORS

1. Install rubber boot (E) on to the 6 gauge red wire from the 510476 kit as shown below in **DETAIL A**.
2. After passing the wire through the boot, crimp terminal J onto the 6 gauge red wire and connect it to the alternator "BAT" stud.
3. Route the other end of this wire to the FUSED SIDE of the MEGA-FUSE and cut to length. The MEGA-FUSE connector is meant to be installed in line (as shown in the diagram) between the alternator and the battery source.
4. Connect the red wire to the supplied MEGA-FUSE connector using shrink tube "F" and terminal "H" as shown on page 1. diagram. Be sure to install the shrink tube before final crimp and soldering of the ring terminal.

ONE WIRE ALTERNATOR

Installation of the alternator power wire is the only connection required for a ONE-WIRE alternator. This type of alternator has a self exciting regulator which is activated by the RPM of the engine.

GM INTERNALLY REGULATED ALTERNATOR ("SI" SERIES)

5) Plug the white connector into the 2 male blades on alternator. (It will only plug in one way.)
6) Route and connect the small red wire through the insulating boot and on to the alternator “BAT” stud. Slide the insulating boot over the battery stud connection.
7) Connect the brown wire to the "ACC" terminal of the ignition switch either directly or through the optional in-line diode as follows:

Note 1: Depending on your alternator and ignition switch manufacturer, it may be necessary to use a DIODE in the alternator's regulator circuit to prohibit any alternator feedback after the motor is shut off. If so, install the diode "in series" as shown on page 1. Optional Diode Kit 500529, is available from AAW, or your local AAW distributor.

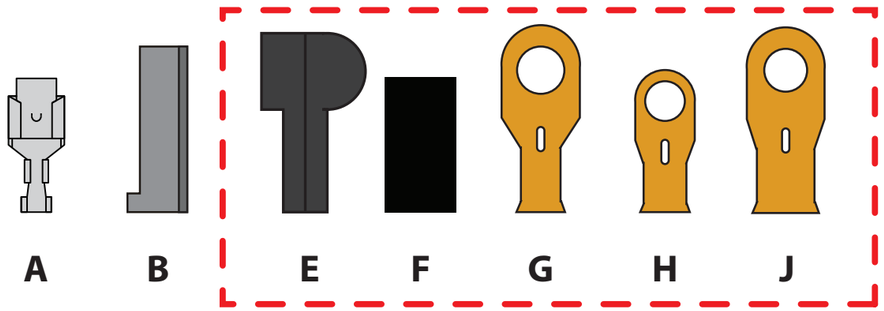
Note 2: When performing electrical testing on the vehicle during installation, disconnect the diode from the circuit to prevent any possible damage to the diode until the testing is complete.

a. If diode installation is not needed for your alternator, connect the BROWN wire from the alternator directly to the ignition switch "ACC" terminal using supplied female terminal "A” and connector "B".

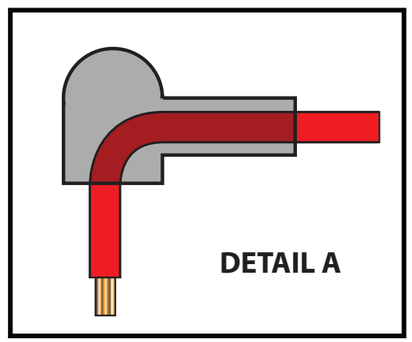
b. If diode installation is needed for your alternator, connect the BROWN wire from the alternator to the in line diode as shown in the diagram and complete the connection to the ignition switch "ACC" terminal using supplied female terminal "A" and connector "B".

Note: <u>Be sure to have the gray line (on diode) towards the alternator.</u> This line indicates the "direction of flow" of electricity. Failure to have this line in the right direction will prevent current from flowing properly.

Note: See Page 4 for accessories to assist you with your installation.



From 510476 Alternator Connection Kit BAG Z



Accessories

Battery Cables

500723
Top Post
w/neg. secondary 10 ga. lead (36" long), cables, lugs, crimping tool

500724
Side Post
w/ cables, lugs, crimping tool

500725
Top Post
w/neg. secondary 10 ga. lead (36" long), cables, lugs, crimping tool

500726
Side Post
w/ cables, lugs, crimping tool

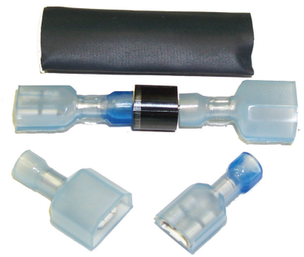
Alternator Adapters

37796
GM "SI" Series to GM "CS" Series

500295
GM "SI" Series Internal Regulator to GM "CS130D"

500802
GM "SI" Series to FORD "3G" Internal Regulator Alternator

Diodes



500529
Diode Kit
In-line 6 AMP

500541
Diode Adapter Kit
for the SI Series Alternator