BTL ④

ASSOCIATED EQUIPMENT CORP.

MODEL 8518
DELUXE ALTERNATOR TEST LEAD SET
MODEL 8517 IMPORT SET
MODEL 8516 DOMESTIC SET
MODEL 8519 FORD COMPUTER CONTROLLED LEAD

FOR USE WITH ALL

ASSOCIATED EQUIPMENT CORPORATION ALTERNATOR - STARTER TESTERS

ASSOCIATED EQUIPMENT CORPORATION
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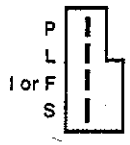
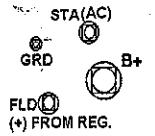
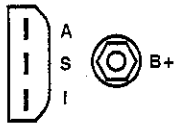
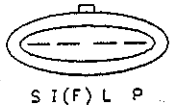
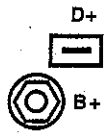
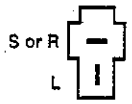
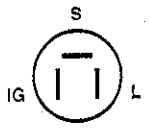
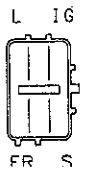
Note: Below is a list of alternator leads, style of plug, alternator manufacturer and some vehicles that use that type of alternator. It is provided for reference only. For specific lead selections refer to the "ALTERNATOR CHART INDEX" which uses Lester Numbers.

Lead No.	Alternator Plug	"Lead"	Chart No.	Alternator Mfg.	Vehicles
8516-1		CS	1	Delco	**GM** (Buick, Cadillac, Chevrolet, GMC, Oldsmobile, Pontiac) vehicles, **Eagle** Medallion and Premier, **Isuzu** Pickup, Rodeo, Trooper, **Jeep** Cherokee, Comanche, Wagoneer, **Saturn** vehicles
8516-2		EL	3	Motorcraft	**Ford** (Ford, Lincoln, Mercury) vehicles, **Cessna** Aircraft
8516-2		EL	4	Chrysler	**Chrysler** (Chrysler, Dodge, Plymouth) vehicles, **Eagle** Vision, **Jeep** Cherokee, Comanche, Grand Cherokee, Wrangler
8516-3		F	5	Motorcraft	**Ford** (Ford, Lincoln, Mercury) vehicles
8516-4		Z	14	Motorcraft	**Ford** (Ford, Lincoln, Mercury) vehicles
8516-5		ZP	15 & 16	Motorcraft/ Mitsubishi	**Ford 3G & 4G Series** (Ford, Lincoln, Mercury) vehicles
8516-6		CSD	2	Delco	**GM** (Buick, Cadillac, Chevrolet, GMC, Oldsmobile, Pontiac) vehicles, **Isuzu** Hombre, **Saturn** vehicles
8516-7		6G	17 & 18	Motorcraft	**Ford 6G Series** (Ford, Lincoln, Mercury) vehicles

Lead No.	Alternator Plug	"Lead"	Chart No.	Alternator Mfg.	Vehicles
8519		6GC	19	Motorcraft	**Ford 6G Series-Computer Active** (Ford, Lincoln, Mercury) vehicles
8517-1		FV	6	Bosch	**Alpha Romeo** vehicles, **Audi** 4000 and 5000 Series, Coupe, Quattro, **BMW** 524TD, **Fiat** Strada, X 1/9, **Merkur** XR4Ti, **Peugeot** 405, 505, 505D, **Pontiac** Lemans, **SAAB** 900, **Volkswagen** vehicles, **Volvo** vehicles
8517-2		H	7	Hitachi	**Chrysler** (Chrysler, Dodge, Plymouth) vehicles, **Ford** Fiesta, **Hyundai** Excel, **Mazda** vehicles, **Mitsubishi** vehicles, **Nissan** vehicles, **Subaru** vehicles
8517-3		HF	8	Nippondenso	**Acura** and **Honda** vehicles
8517-4		HG	9	Hitachi	**Honda** Passport, **Isuzu** Amigo, Pickup, Rodeo, Trooper
8517-5		X	13	Nippondenso	**Daihatsu** Charade, **Dodge** Viper, **GEO** vehicles, **Honda** Accord, Civic, CRX, Prelude, **Isuzu** I-Mark, Impulse, Stylus, Trooper, **Jaguar** vehicles, **Lexus** vehicles, **Toyota** vehicles
8517-6		SL	12	Mitsubishi/ Hitachi	**Dodge/Plymouth** Colt, Colt Vista, Conquest, **Dodge** Raider, Ram 50 Pickup, Stealth, **Eagle** Summit, Talon, **Ford** Aspire, Escort, Festiva, Probe, **Hyundai** vehicles, **Infiniti** vehicles, **Kia** vehicles, **Mazda** vehicles, **Mercury** Capri, Tracer, Villager, **Mitsubishi** vehicles, **Nissan** vehicles, **Plymouth** Laser, **Subaru** vehicles
8517-7		ND1	10	Nippondenso	**GEO** Prizm, **Lexus** vehicles, **Mazda** Millenia, **Toyota** vehicles
8517-8		ND2	11	Nippondenso	**Acura** and **Honda** vehicles

ALTERNATOR TESTING INSTRUCTIONS

1. Read the operation and maintenance manual which came with your test bench before attempting to test an alternator.

2. Mount the alternator in the vise using the bar to secure the lower end to the vise. Lower or remove bar if lower end of alternator does not mount to it. Secure the top portion of the alternator with the hold down arm attached to the vise handle.

3. Line up the motor and the alternator pulleys by moving the vise to the left or to the right. Tighten the vise to the base with the hold down screws.

4. Push the vise handle forward; attach the V-Belt and release the vise slowly. If lower end of alternator is not secured with bar, secure alternator by running nylon strap through tie-downs and tightening. Assure end of strap is clear of any moving parts.

5. Determine the proper hook up chart and lead set to use with the alternator by referring to the ***Alternator Chart Index***. The Part Numbers in the Index are Lester Reference Numbers which can be cross-referenced to alternator manufacturer's part numbers.

6. Follow the instructions on the chart for alternator hook-up and testing.

ALTERNATOR CHART INDEX

Lester #	Chart#
7002	4
7015	4
7019	4
7022	4
7023	4
7024	4
7058	3
7068	3
7069	3
7072	5
7074	5
7077	5
7078	3
7083	3
7088	14
7503	4
7504	4
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7537	4
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7539	4
7541	4
7543	4
7544	4
7546	4
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7704	5
7705	5
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Lester #	Chart#
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13236	6
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13238	12
13239	13
13240	13
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13249	12

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13251	12
13252	13
13255	13
13256	4
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13562	13
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13566	13
13569	13
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14472	13
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14543	7
14550	7
14557	7
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14571	7
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14931	8
14935	13
14937	13
14939	13
14940	13
14943	7
14946	6
14950	7
14960	9
14965	6
14967	7
14979	12
14980	7
14982	7
14989	8

STARTER TESTING INSTRUCTIONS

1. Read the Operation and Maintenance Manual which came with your test bench before attempting to test a starter.
2. Mount the starter in the vise and secure it with the hold down clamp.
3. Connect the large Black Negative (-Neg.) clamp to a good ground connection on the starter.
4. Connect the large Red Positive (+Pos) clamp to the battery post of the solenoid or starter under test. See instructions for Ford Type starter.
5. On solenoid equipped Starters, connect the short lead from the large Red clamp to the Solenoid switch (SW) terminal. If this lead is not used, be sure it is not contacting ground.
6. On ignition terminal (R) equipped solenoid, connect the ignition clip (small Blue wire on universal lead) to the terminal. The ignition LED should come on when this type of starter is being tested.
7. Hold the Starter Test Switch: The starter should engage and spin up. Observe the meter reading, allow time for meter to stablize. The meter should initially read low and then ramp up to the stable current reading.

DO NOT OVER REV THE STARTER. LIMIT THE TEST TO 2 SECONDS.

8. Check the meter reading (no load current draw), against the manufacturer's published specifications or use the table below.

GENERAL STARTER FREE SPIN AMPERAGE SPECIFICATIONS

CHRYSLER GEAR REDUCTION	70 TO 125 AMPS
CHRYSLER DIRECT DRIVE	85 TO 125 AMPS
DELCO WITH SOLENOID, 5 MT	70 TO 100 AMPS
DELCO WITH SOLENOID, 10 MT	100 TO 125 AMPS
DELCO WITHOUT SOLENOID	70 TO 100 AMPS
FORD WITH SOLENOID	100 TO 125 AMPS
FORD WITHOUT SOLENOID	60 TO 90 AMPS
DIESEL STARTER	75 TO 125 AMPS
IMPORT DIRECT DRIVE	50 TO 80 AMPS
IMPORT, GEAR REDUCTION	60 TO 100 AMPS
SOLENOID WITH IGNITION TERMINAL (R)	IGN. LAMP ON

FORD OR FORD TYPE STARTERS WITH BATTERY TERMINAL ON END OF UNIT.

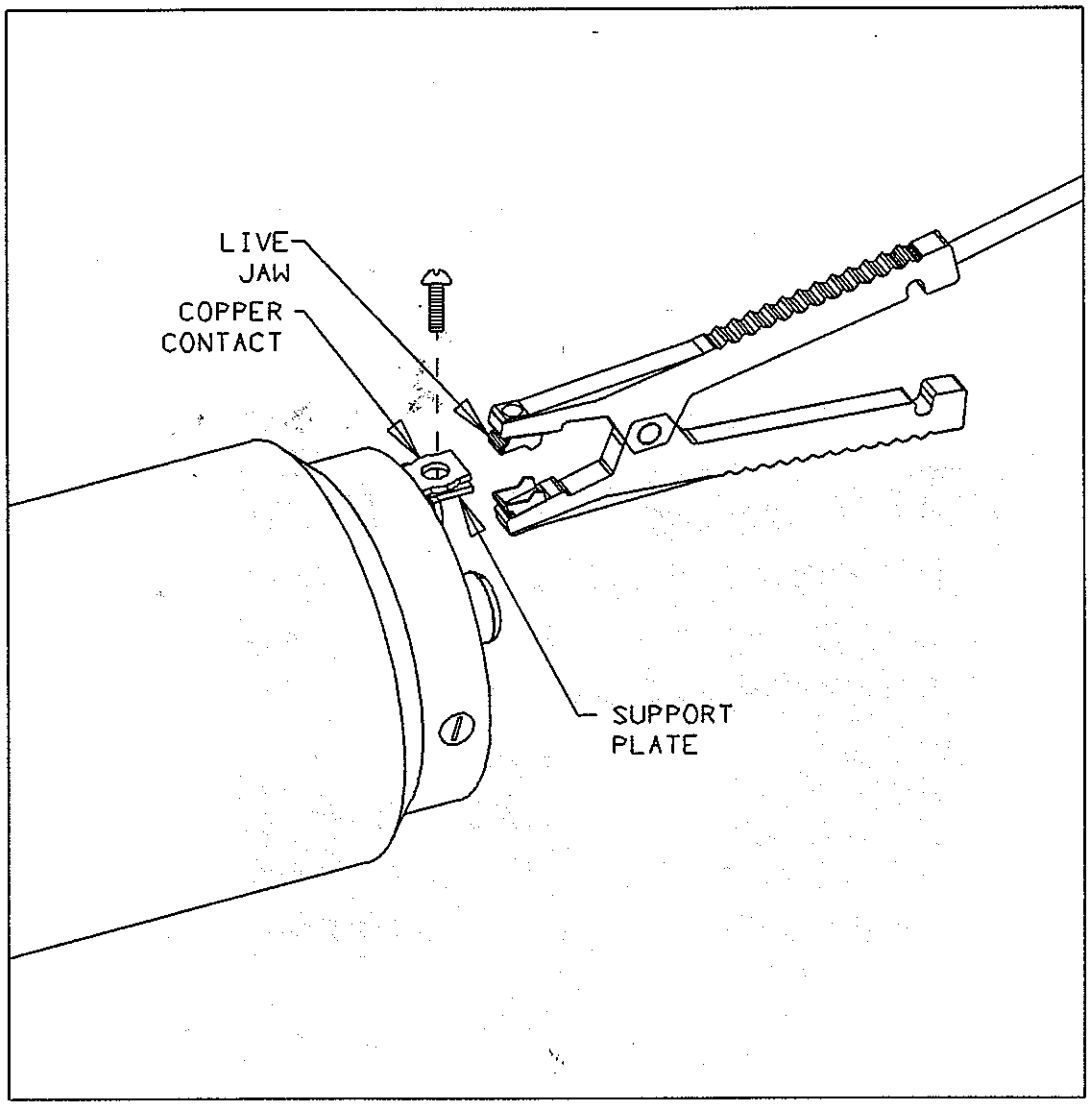
1. Remove the cable bolt from the positive support plate (see illustration).

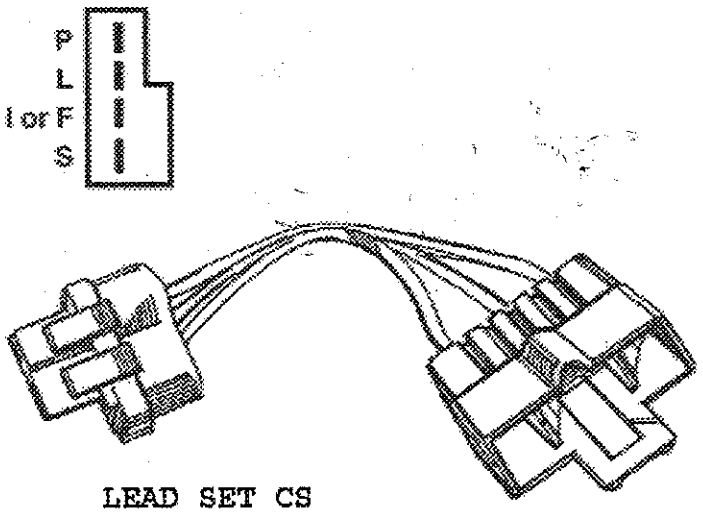
2. Make sure the copper contact is clean and free of paint, grease, or corrosion.

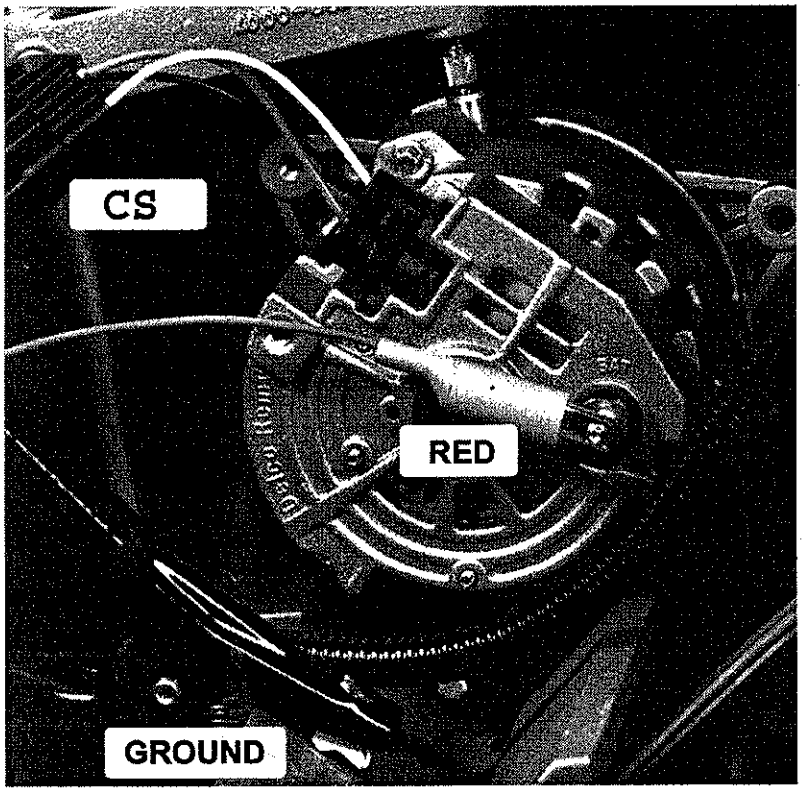
3. Connect the large Red clamp around both the copper contact and the support plate (see illustration).

NOTE: be sure the hot side (cable side) of the clamp is placed on the copper contact.

4. Perform test as described in steps 5 through 8 above.







Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

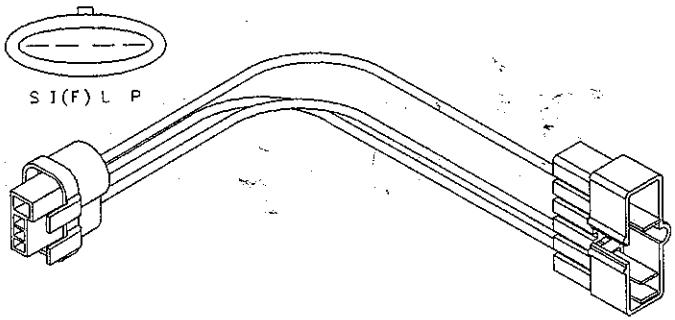
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

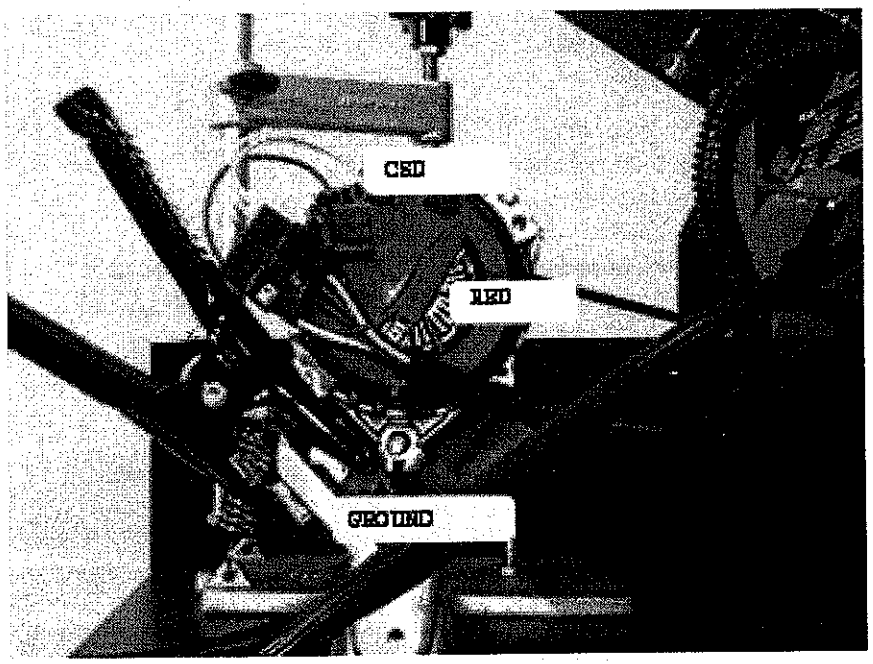
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	Off O
Alt.	**On ✱**	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts



LEAD SET CSD



Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

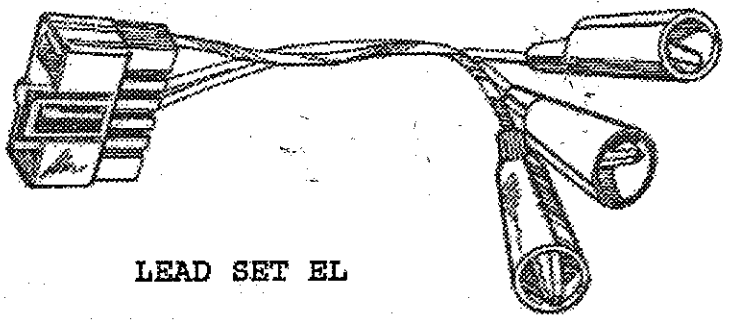
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

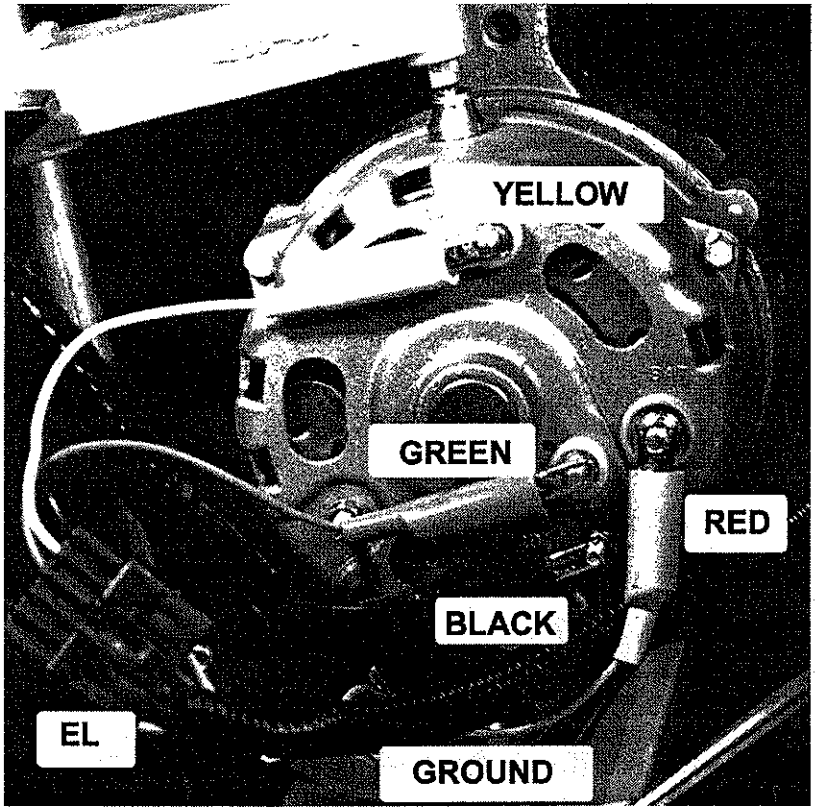
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	On *
Alt.	Off O	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts



LEAD SET EL



Hook-Up

Connect Yellow clip of Test Lead EL to "STA" terminal on alternator.
Connect Green clip of Test Lead EL to "F" or "FLD" terminal on alternator.
Connect Black clip of Test Lead EL to Ground Post or alternator housing.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

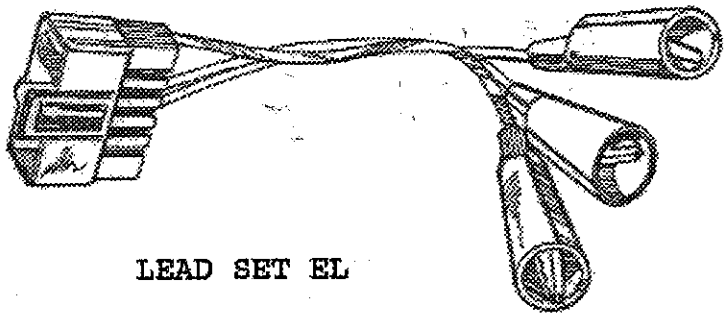
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

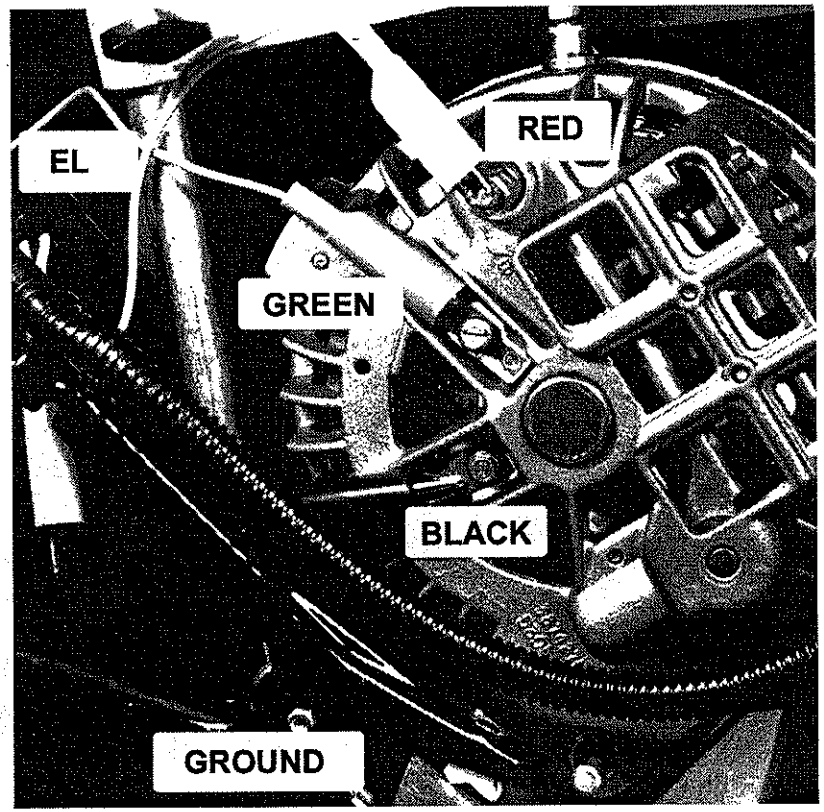
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	On *
Alt.	Off O	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts



LEAD SET EL



Hook-Up

Connect Green clip of Test Lead EL to one field terminal "F" or "FLD".
Connect Black clip of Test Lead EL to the other field terminal.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

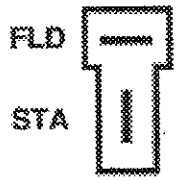
Switch Settings

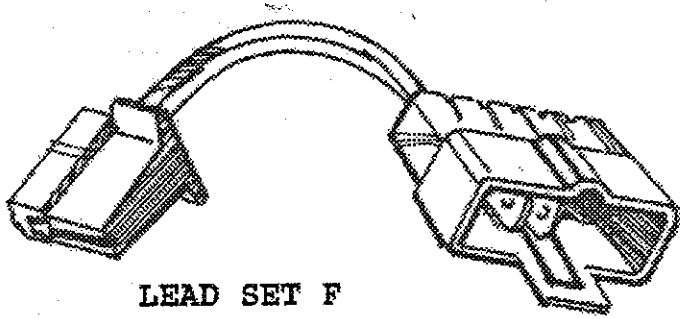
Voltage - 12
Circuit - B
Motor - CW

Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	Off O
Alt.	Off O	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts





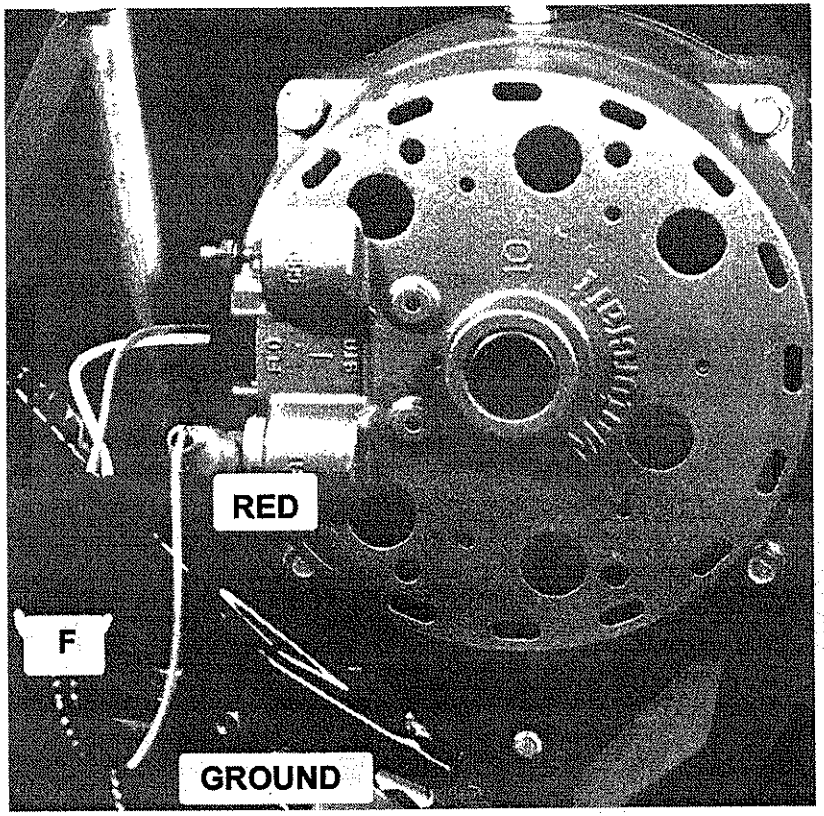
LEAD SET F

Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

Switch Settings

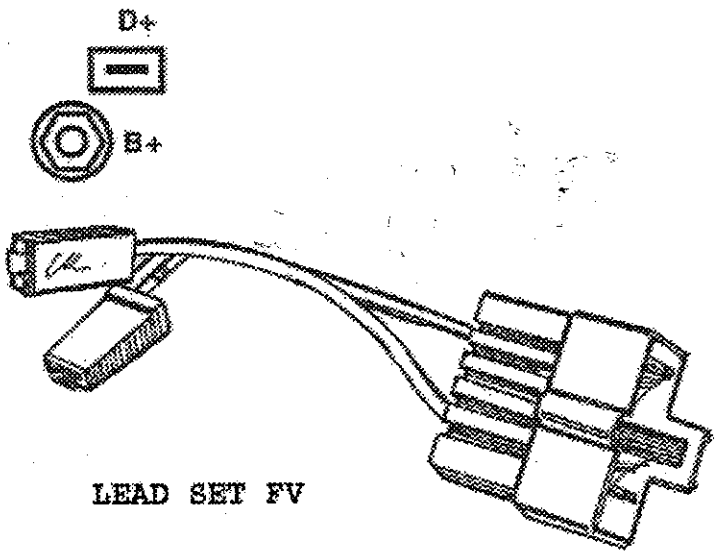
Voltage - 12
Circuit - B
Motor - CW

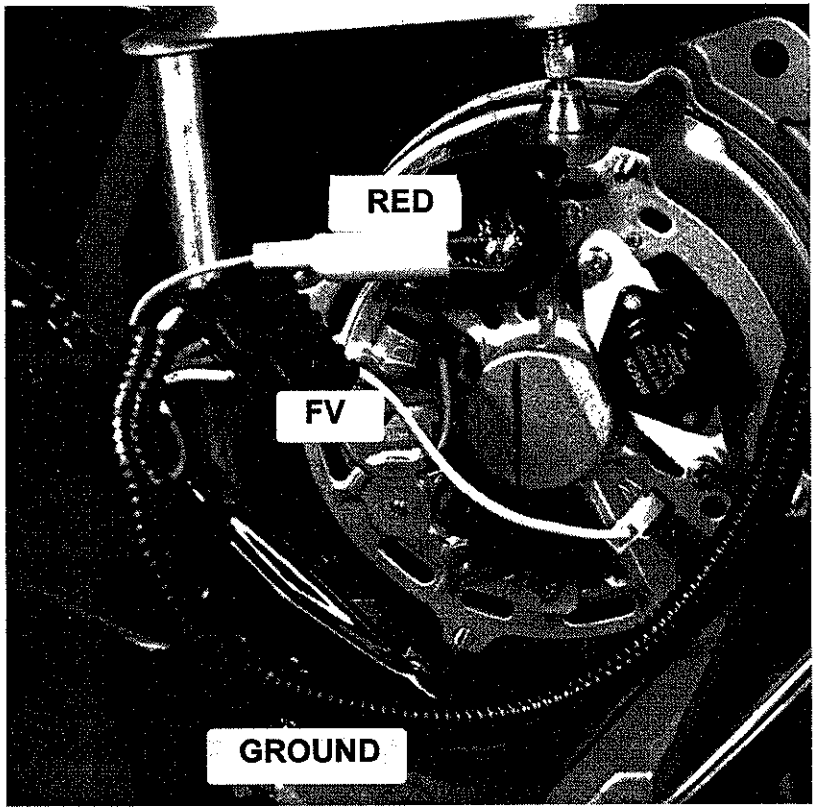


Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off ○	On ✱
Alt.	Off ○	Off ○
Trio	Off ○	Off ○
Diode	Off ○	Off ○

Output Voltage: 13.8 to 15.5 volts





Hook-Up

Plug Black wire quick-connect onto "D+" terminal on alternator.
Connect White wire auxiliary connector onto "W" or "+" terminal on alternator if provided.
Connect the Large Black Ground Clamp to vise.

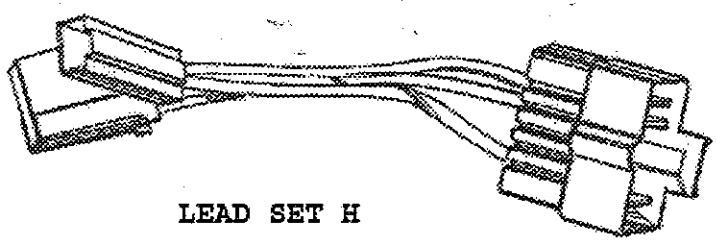
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

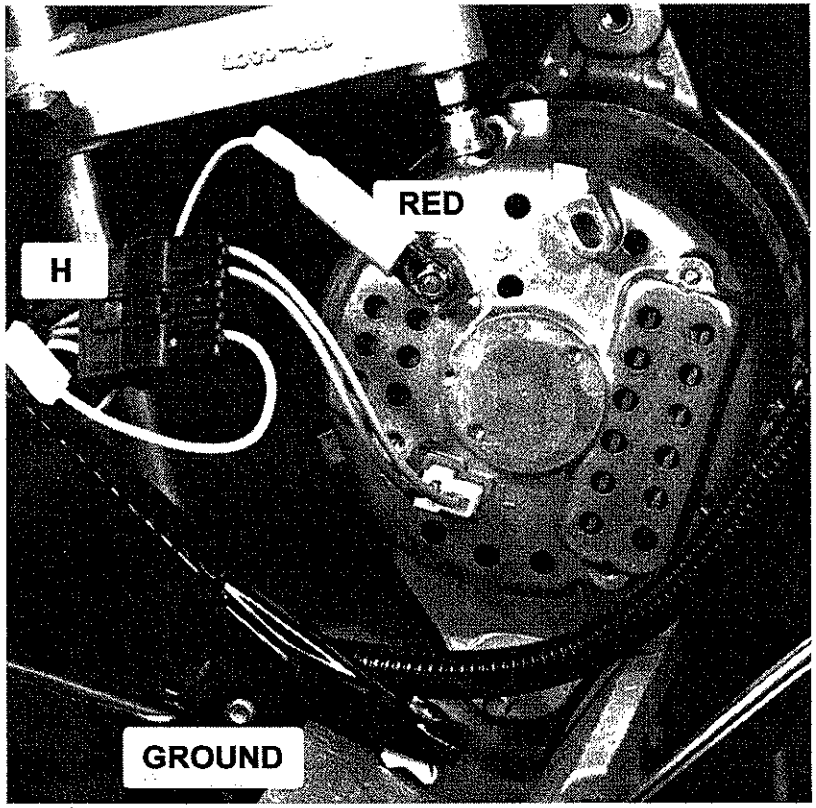
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	**On** * if aux. is used
Alt.	Off O	Off O
Trio	**On** *	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts



LEAD SET H



Hook-Up

Plug the connector into the terminals on alternator.
Plug quick-connect plug into auxiliary terminal, usually marked "P" on alternator if provided.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

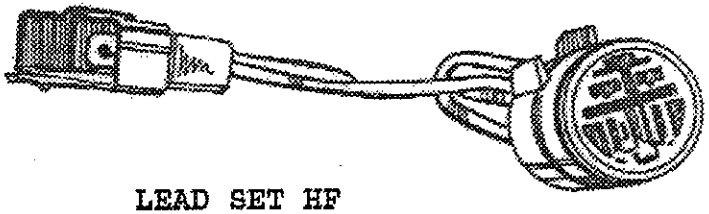
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

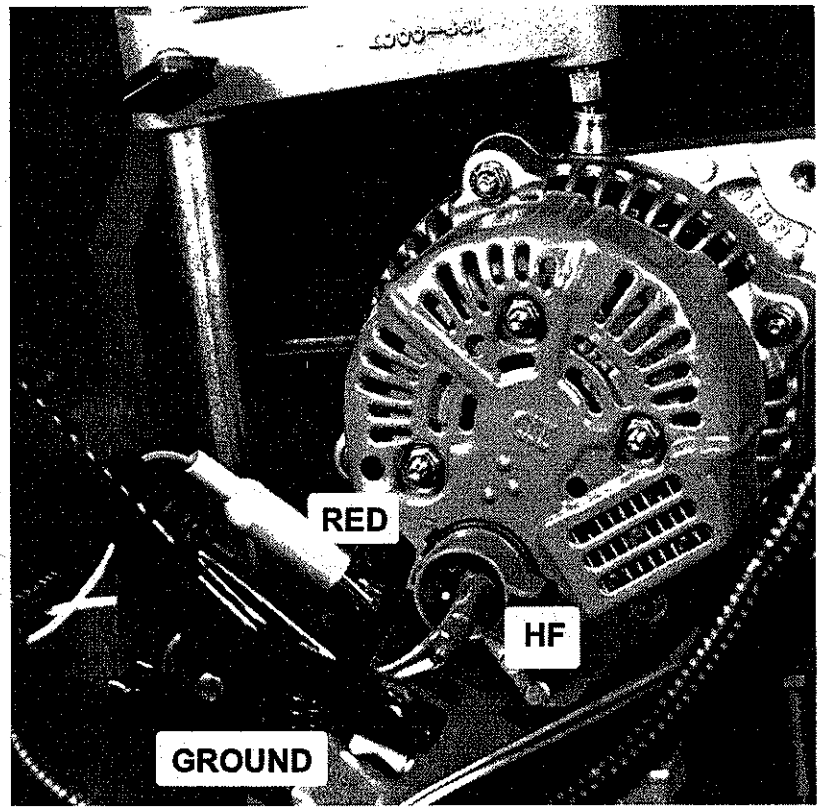
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	**On** * if aux. is used
Alt.	Off O	Off O
Trio	**On** *	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts



LEAD SET HF



Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

Switch Settings

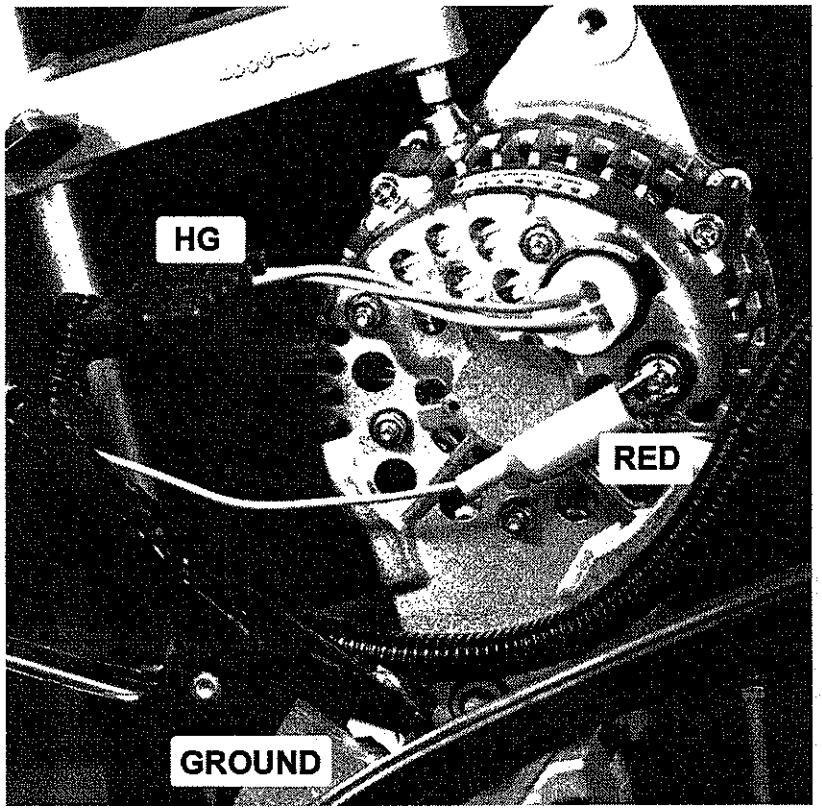
Voltage - 12
Circuit - B
Motor - CW

Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	Off O
Alt.	**On ✱**	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts

LEAD SET HG



Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

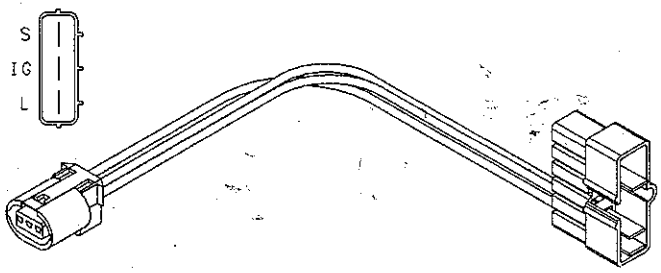
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

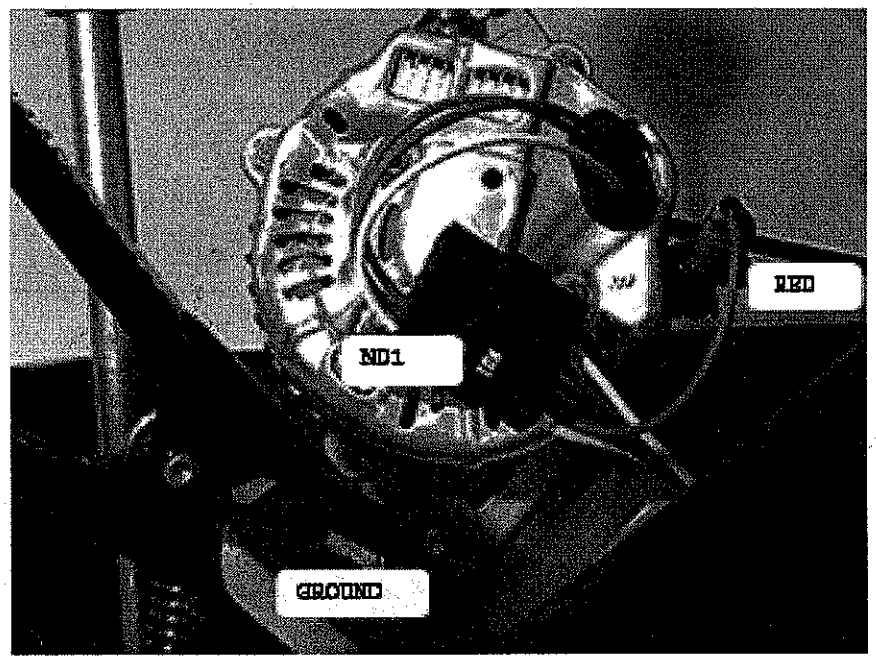
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	Off O
Alt.	On *	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts



LEAD ND1



Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

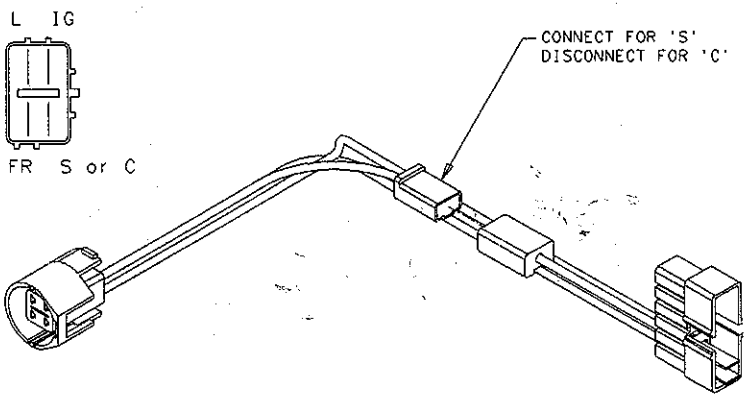
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

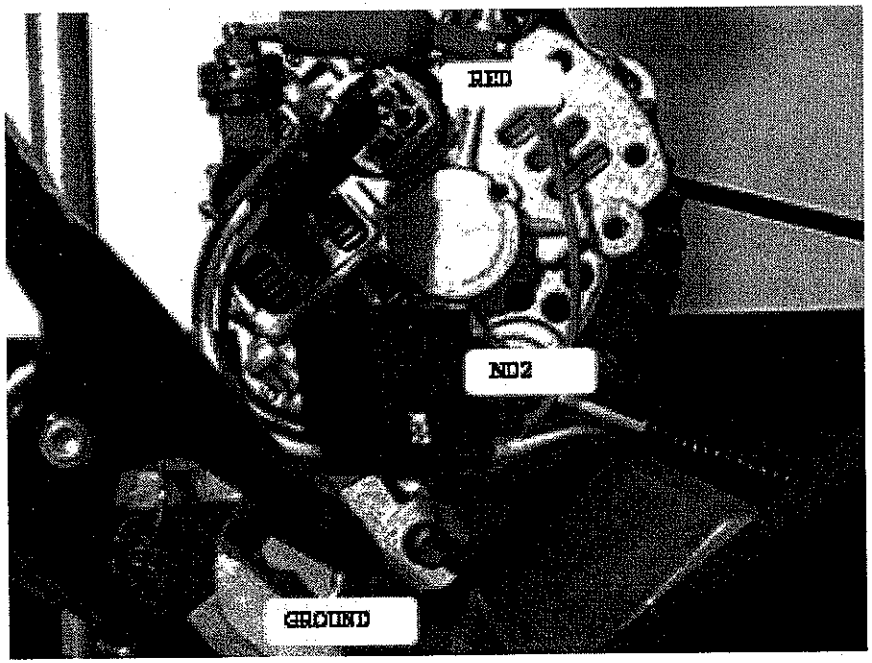
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	Off O
Alt.	**On ✱**	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts



LEAD SET ND2



Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator. Connect quick-connect plug on Test Lead ND2 for "S" (voltage "sense") terminal. Voltage may run high during test if not connected. Disconnect quick-connect plug for "C" (computer) terminal. Alternator should perform normally. Connect the Large Black Ground Clamp to vise.

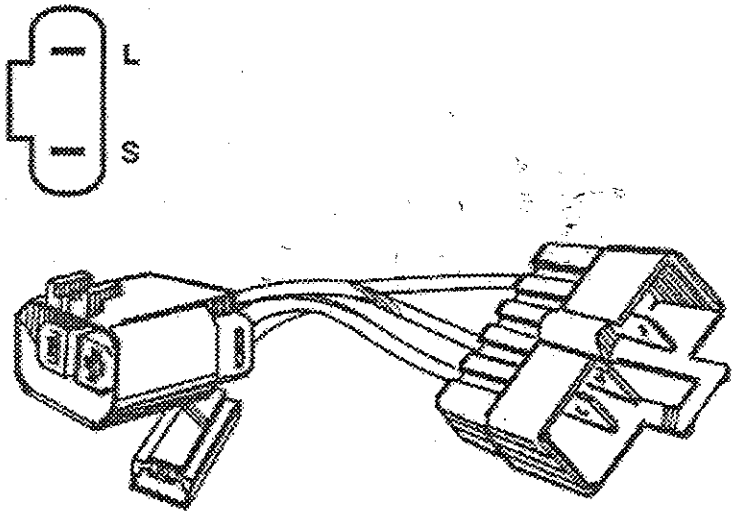
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

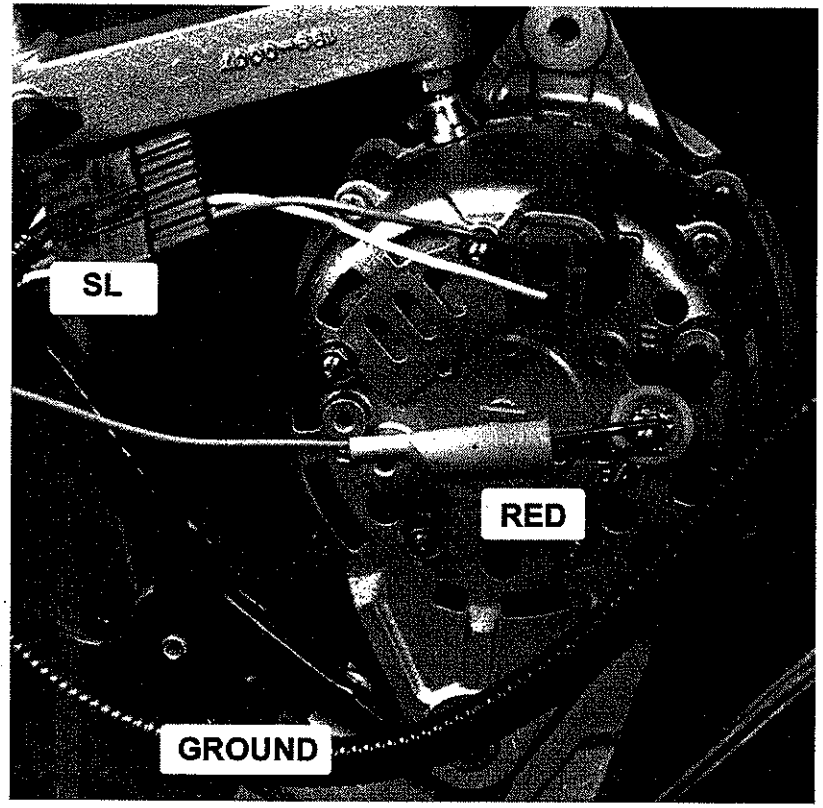
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	Off O
Alt.	**On ✱**	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts



LEAD SET SL



Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect quick-connect terminal on Test Lead SL to auxiliary terminal, usually marked "P" on alternator if provided.
Connect the Large Black Ground Clamp to vise.

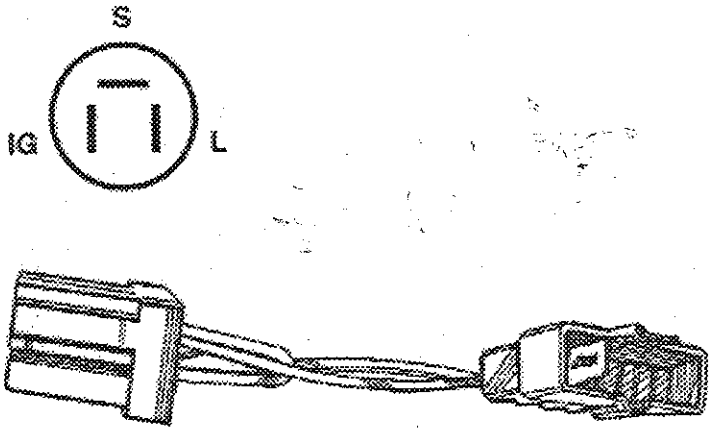
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

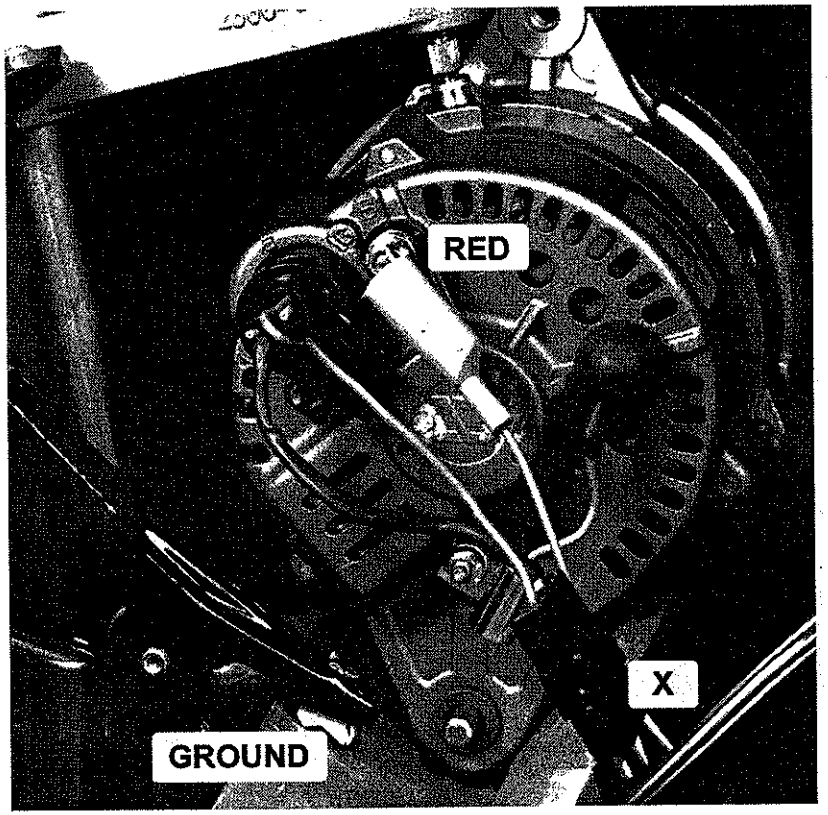
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	On * if aux. is used
Alt.	Off O	Off O
Trio	On *	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts



LEAD SET X



Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

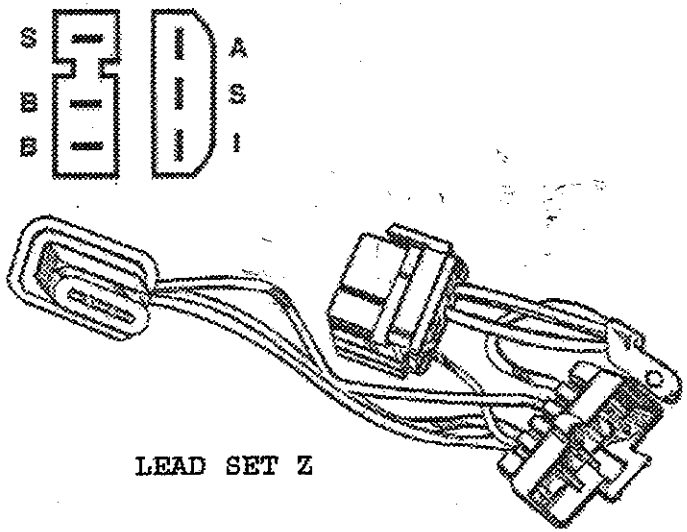
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	On *
Alt.	Off O	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts

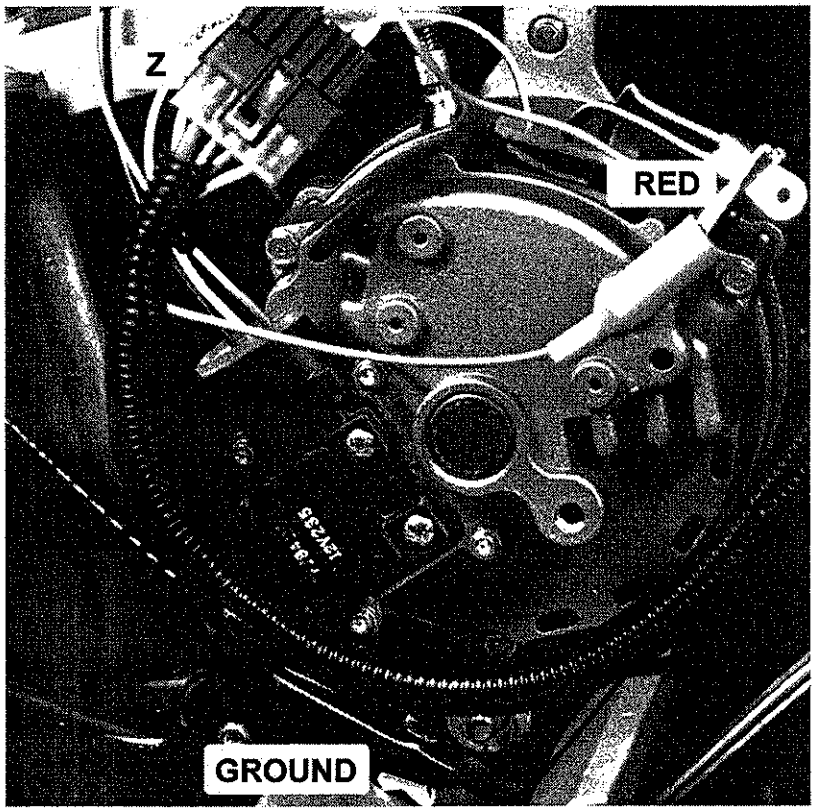


Hook-Up

Plug B.B.S. connector on the test lead into the receptacle on the alternator.
Plug the regulator plug on the test lead into its receptacle on the alternator.
Connect Red clip on adaptor cable to the ring terminal of Test Lead Z.
Connect the Large Black Ground Clamp to vise.

Switch Settings

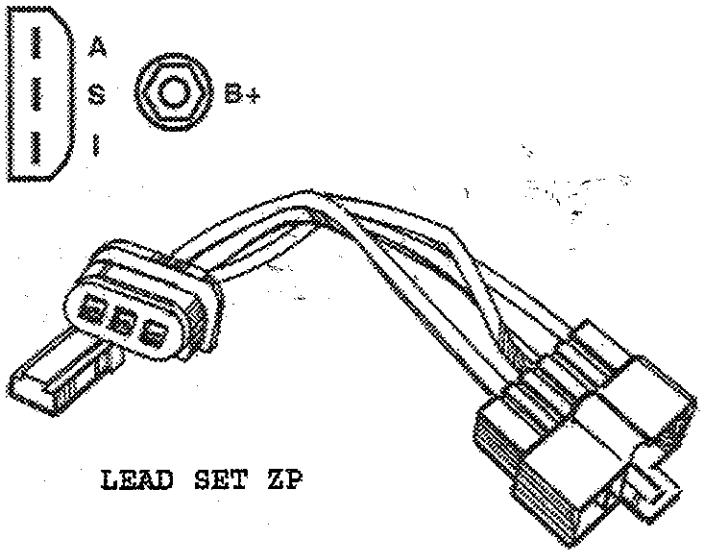
Voltage - 12
Circuit - B
Motor - CW

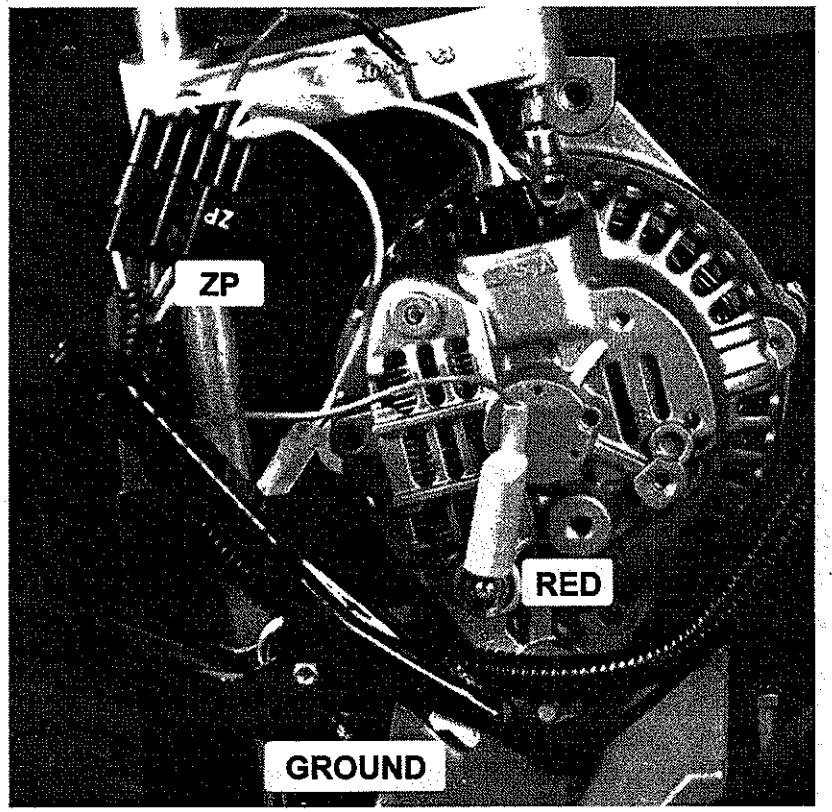


Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	**On ✱**
Alt.	**On ✱**	**On ✱**
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts





Hook-Up

Plug the connector on Test Lead ZP into the receptacle on the alternator.
Connect the auxiliary quick-connect plug to the stator terminal on the alternator if provided.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

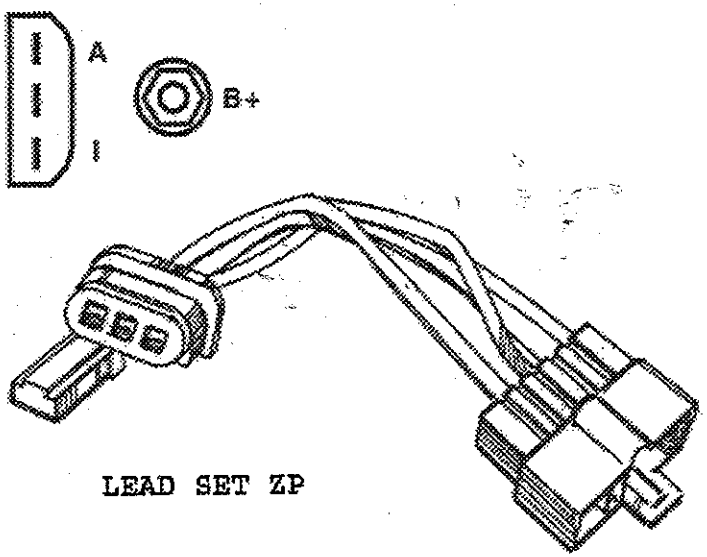
Switch Settings

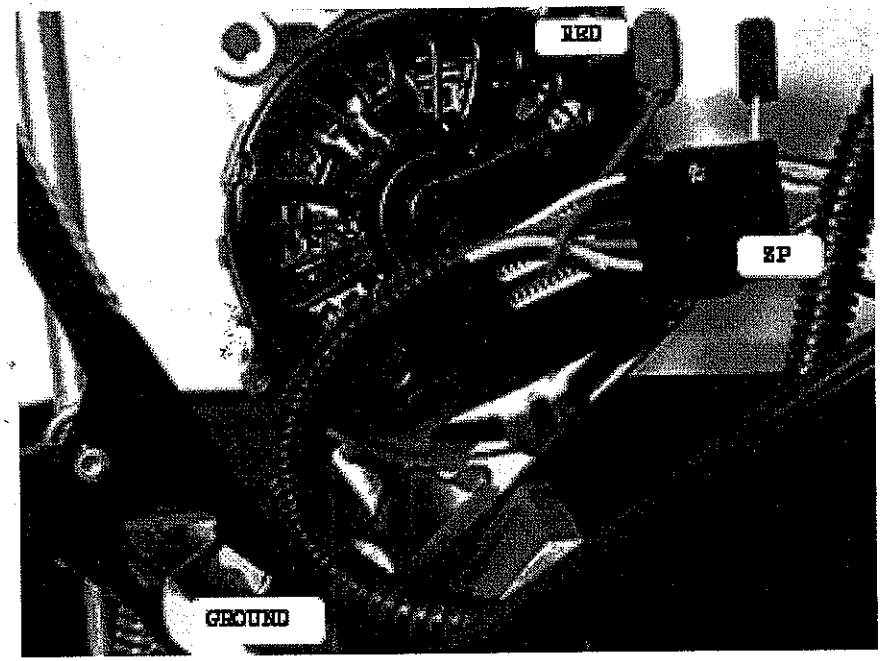
Voltage - 12
Circuit - B
Motor - CW

Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off O	**On ✱**
Alt.	**On ✱**	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts





Hook-Up

Plug the connector on Test Lead ZP into the receptacle on the alternator.
Note: Center terminal on alternator is nonfunctional.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

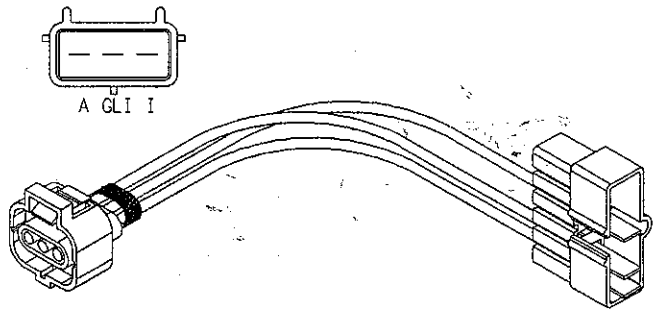
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

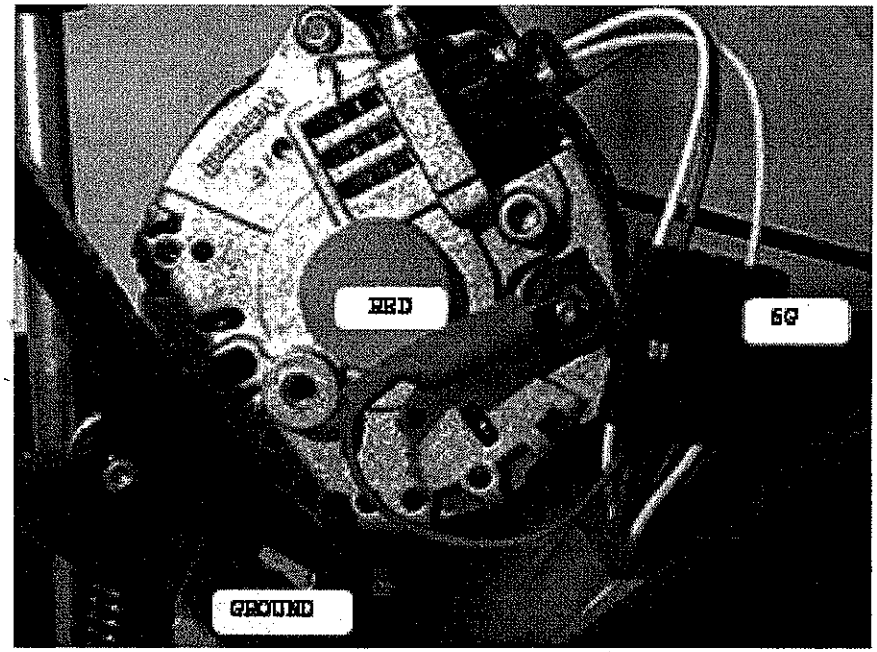
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off ○	Off ○
Alt.	**On ✱**	Off ○
Trio	Off ○	Off ○
Diode	Off ○	Off ○

Output Voltage: 13.8 to 15.5 volts



LEAD SET 6G



Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

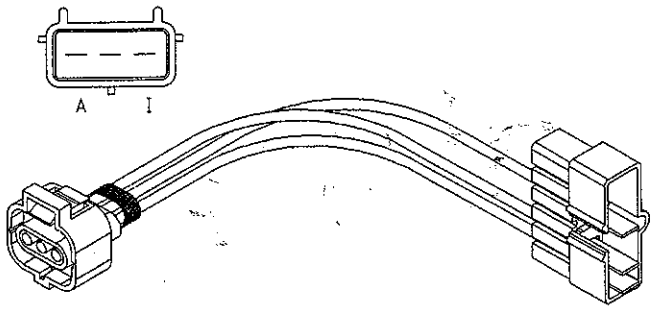
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

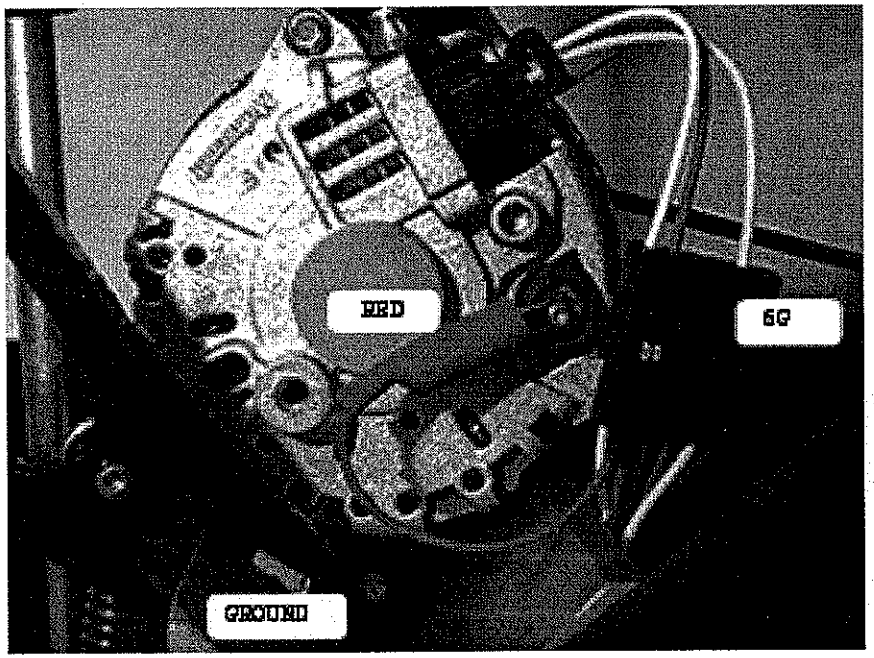
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off ○	**On ✱**
Alt.	**On ✱**	Off ○
Trio	Off ○	Off ○
Diode	Off ○	Off ○

Output Voltage: 13.8 to 15.5 volts



LEAD SET 6G



Hook-Up

Plug the connector into the terminals on alternator.
Note: Center terminal on alternator is nonfunctional.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

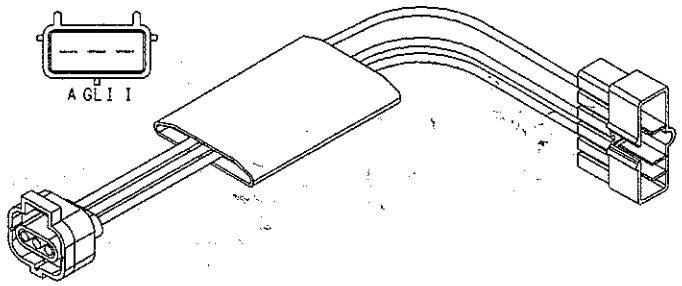
Switch Settings

Voltage - 12
Circuit - B
Motor - CW

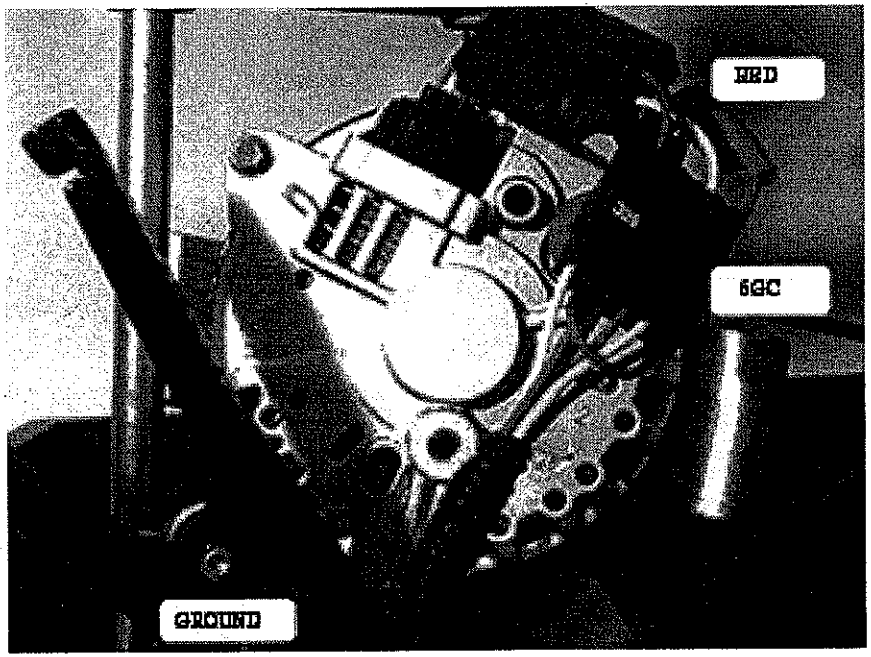
Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	Off ○	Off ○
Alt.	**On ✱**	Off ○
Trio	Off ○	Off ○
Diode	Off ○	Off ○

Output Voltage: 13.8 to 15.5 volts



LEAD SET 6GC



Hook-Up

Plug the connector into the terminals on alternator.
Connect Red clip on adaptor cable to "B" or "BAT" terminal on alternator.
Connect the Large Black Ground Clamp to vise.

Switch Settings

Voltage - 12
Circuit - B
Motor - CW

Test Results

LAMP	MOTOR OFF	MOTOR ON
Stator	On *	On * flicker
Alt.	Off O	Off O
Trio	Off O	Off O
Diode	Off O	Off O

Output Voltage: 13.8 to 15.5 volts