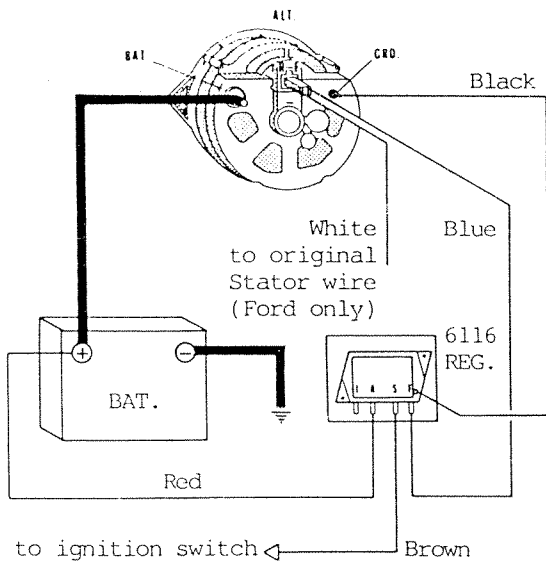
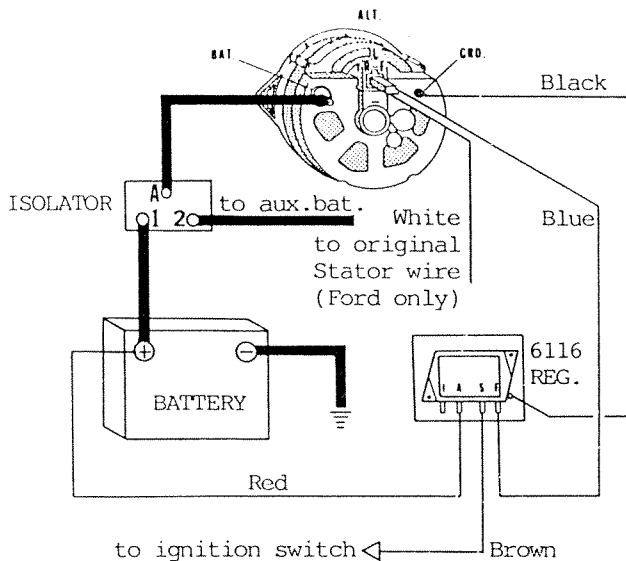


# INSTRUCTIONS FOR MOUNTING LESTEK 6116 REGULATOR

## A. Regulator Wiring Diagram



## B. Regulator & Isolator Wiring Diagram



NOTE: If an isolator is used with the LESTEK alternator, the isolator must have 105 amps or above rating.

1. Mount regulator to a flat surface in as cool a location as possible (case must be grounded).
2. Plug grey plug into alternator.
3. Connect black wire to ground terminal on alternator.
4. Connect red wire to the positive terminal on battery (this connection can be made at any starting battery positive connection).
5. Connect brown wire to ignition switch.
6. Fan belt must be tight. For proper service, turn engine off, tighten fan belt, then run engine 15 minutes and re-tighten fan belt. Use a 6" screwdriver in cooling fins of alternator as pry bar (engine must be off for this test). If fan belt slips, it is too loose. Remember, a slipping fan belt creates heat, which in turn causes bearing failure.
7. A slight whine from the alternator under load is normal. When you hear this sound, you will know the alternator is charging.
8. Your dash amp meter will be inoperative. Install or rely on your volt meter. It will tell you the whole story.

NOTE: If you have any questions, please contact our toll-free technical hotline for assistance. Call 800-433-7628 (outside of Texas), 817-284-0821 (In Texas) and 416-852-5625 (In Canada).

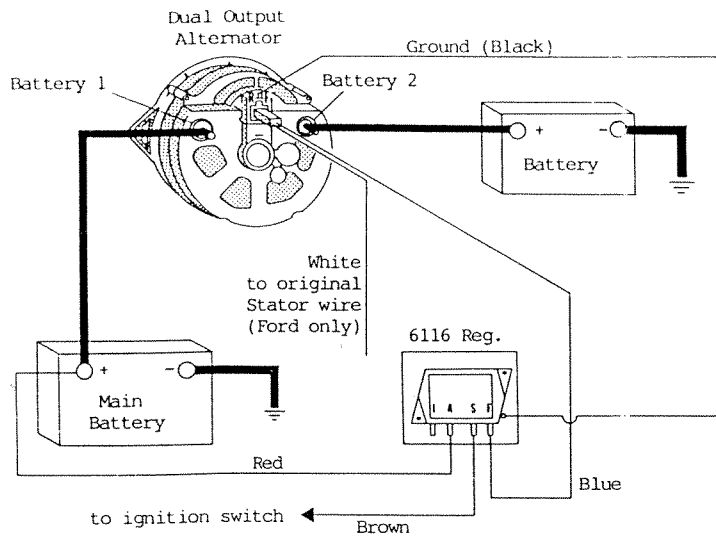
	TEST POINTS		
	Ignition off	Ignition on Engine not running	Ignition on Engine running
Reg. Term. A	12.6 volts	12.6 volts approx.	14 volts
Reg. Term. S	0	12 volts approx.	13 - 14 volts
Reg. Term. F	0	10 - 11 volts approx.	4 - 12 volts approx.
Alt. R	0	0	8 volts
Alt. F	0	10 - 11 volts approx.	4 - 12 volts approx.
Alt. Battery	12.6 volts	12.6 volts	14 volts
*Alt. Battery	0	0	14.5 - 15 volts
*Iso. A Term.	0	0	14.5 - 15 volts
*Iso. #1 Term.	12.6 volts	12.6 volts approx.	14 volts
*Iso. #2 Term.	(#2 battery voltage if battery is connected)	14 volts	14 volts

\* Test points when Isolator is used - Diagram B.

If the approximate voltages are not at test points, check source for that test. All voltages at regulator, except field terminal are from other sources. Field voltage will appear at regulator if you have voltage on A & S terminals. If no voltage appears at field terminal with key on, regulator is defective.

# INSTRUCTIONS FOR MOUNTING LESTEK 6116 REGULATOR WITH THE DUAL OUTPUT ALTERNATOR

## C. Regulator & Dual Battery Wiring Diagram



LENGTH IN FEET	WIRE SIZE
0' - 12'	#4 AWG
12' - 18'	#2 AWG
18' - +	#0 AWG

(all power cable must be fine stranded)

1. Mount regulator to a flat surface in as cool a location as possible (case must be grounded).
2. Plug grey plug into alternator.
3. Connect black wire to ground terminal on alternator.
4. Connect red wire to the positive terminal on battery (this connection can be made at any starting battery positive connection).
5. Connect brown wire to ignition switch.
6. Fan belt must be tight. For proper service, turn engine off, tighten fan belt, then run engine 15 minutes and re-tighten fan belt. Use a 6" screwdriver in cooling fins of alternator as pry bar (engine must be off for this test). If fan belt slips, it is too loose. Remember, a slipping fan belt creates heat, which in turn causes bearing failure.
7. A slight whine from the alternator under load is normal. When you hear this sound, you will know the alternator is charging.
8. Your dash amp meter will be inoperative. Install or rely on your volt meter. It will tell you the whole story.

NOTE: If you have any questions, please contact our toll-free technical hotline for assistance. Call 800-433-7628 (Outside of Texas), 817-284-0821 (In Texas) and 416-852-5625 (In Canada).

	TEST POINTS		
	Ignition off	Ignition on Engine not running	Ignition on Engine running
Reg. Term. A	12.6 volts	12.6 volts approx.	14 volts
Reg. Term. S	0	12 volts approx.	13 - 14 volts
Reg. Term. F	0	10 - 11 volts approx.	4 - 12 volts approx.
Alt. R	0	0	8 volts
Alt. F	0	10 - 11 volts approx.	4 - 12 volts approx.
Alt. Battery 1	12.6 volts	12.6 volts	14 volts
Alt. Battery 2	12.6 volts	12.6 volts	14 volts

If the approximate voltages are not at test points, check source for that test. All voltages at regulator, except field terminal are from other sources. Field voltage will appear at regulator if you have voltage on A & S terminals. If no voltage appears at field terminal with key on, regulator is defective.