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**Manufacturing Plant**

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**PENNTEx CHARGING SYSTEM TEST AND GENERAL INFORMATION  
FOR 28-VOLT ALTERNATORS USING THE PX-4024 REGULATOR**

- 1) PennTex Industries, Inc. manufactures heavy duty charging systems, High Idler devices, and Charging System Monitors. Parts are available nationwide through our network of Warehouse Distributors. Contact PennTex or visit our web site for the nearest location to you.
- 2) All PennTex Industries charging systems use an external regulator. Some vehicle builders mount the regulator in the engine compartment, but we recommend that the regulators be mounted inside the vehicle away from excessive moisture and engine compartment heat. A 72-inch wiring harness with protective firewall grommet has been supplied. *The Black Ground wire should be shortened to 18 inches and attached near the regulator.*
- 3) Performing this PennTex Charging System Test will tell you the charging system condition. With the use of a digital voltmeter, probing the terminals at the Blue, Orange, Red, and Brown wires will test the system voltages at regulator connector. *(Note: The regulator harness will remain plugged in throughout the test).*

Blue:	Field (rotor voltage)
Orange:	Stator (A/C voltage)
Red:	Battery Voltage
Brown:	Ignition Voltage

- 4) The test is to take place three times:

First :	Ignition Off	(key off)
Second :	Ignition On	(key on, engine not running)
Third:	Engine Running	(key on, engine running - 750+/- RPM)*

*\*All electrical options should be in the OFF position.*

- 5) Record your test results\*\* (The "ideal" voltage reading is to the right of the wire color):

First Test:	Second Test:	Third Test:
Blue: _____ (0)	Blue: _____ (22-24)	Blue: _____ (3-10)
Orange: _____ (0)	Orange: _____ (0)	Orange: _____ (14.2)
Red: _____ (24.8)	Red: _____ (24.4)	Red: _____ (28.2)
Brown: _____ (0)	Brown: _____ (24)	Brown: _____ (24-28)

**\*\*Please contact PennTex Technical Support toll-free at 877-590-7366 with your results.**

**Black Ground wire test:** Use an Ohmmeter to test for good ground wire continuity: Ohms: \_\_\_\_\_  
Check all harness connections for loose or corroded connections.

ALTERNATOR MODEL: PX- \_\_\_\_\_ ALT. SERIAL NUMBER: \_\_\_\_\_

VEHICLE MILEAGE: \_\_\_\_\_ VEHICLE IN-SERVICE-DATE: \_\_\_\_\_