

CHARGING SYSTEM TEST FOR VEHICLES WITH A PX-4000, PX-5000, OR PX-6000 REGULATOR

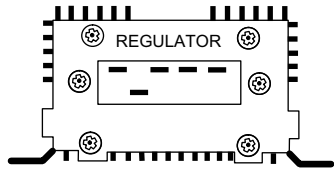


Technical Support Toll Free 1-877-590-7366
 Technical Support Fax 1-817-590-0398
 Parts are available from our Distributors
 See listings on www.penntexusa.com

Contact Name _____
 Phone _____ Ext. _____
 Fax _____
 Testers Name _____
 Alternator Model # _____
 Alternator Serial # _____
 Regulator Model # _____
 Regulator Serial # _____
 Vehicle Mileage _____
 Vehicle Year _____ Make _____ Engine _____
 Vehicle In-Service Date: _____

Describe your charging system problem:

IF YOUR PENNTEX REGULATOR HAS DIFFERENT CONNECTIONS THAN THIS, USE TESTS FOR A PX-7000 REGULATOR.



Locate the external voltage regulator, make sure that everything is properly connected and that the regulator has a good ground. Complete the following chart using a digital voltmeter.

<u>Regulator Terminals</u> ↓	<u>Test # 1</u> Ignition Off Engine Off	<u>Test #2</u> Ignition On Engine Off	<u>Test # 3</u> Ignition On Engine On	<u>Test #4</u> Engine On High Idle
Field Terminal (Blue Wire) "F"	_____volts	_____volts	_____volts	_____volts
Stator Terminal (Orange Wire) "S"	_____volts	_____volts	_____volts	_____volts
Sense Terminal (Red Wire) "A"	_____volts	_____volts	_____volts	_____volts
Ignition Terminal (Brown Wire)	_____volts	_____volts	_____volts	_____volts
Battery Terminal	_____volts	_____volts	_____volts	_____volts

TEST WITH EVERYTHING PLUGGED IN

Ground Terminal:
_____ohms

of Batteries:

Engine Idle :
_____rpm

Engine High Idle:
_____rpm

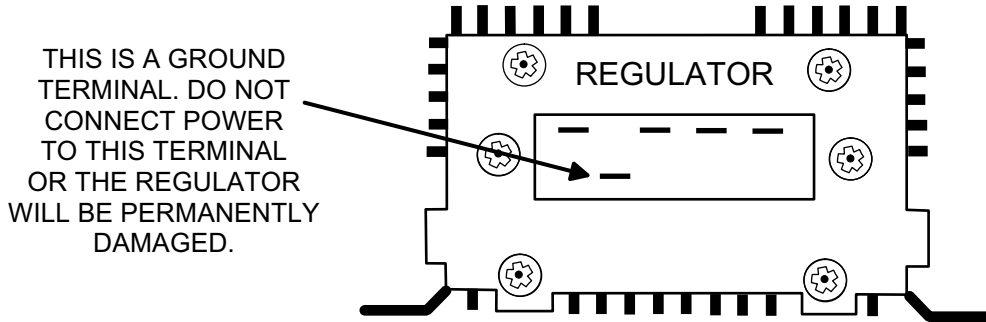
DID YOU DO A FULL-FIELD TEST? FOR A 2ND OPINION FAX THE TESTS TO 817-590-0398 WHEN COMPLETED.

Note any charging system connections that look overheated or discolored:

PennTex INDUSTRIES, INC.

PX-4000, PX-5000 & PX-6000 REGULATOR FULL-FIELD TEST

IF YOU ARE TESTING A PX-7000 REGULATOR CONTACT PENNTEX FOR A DIFFERENT TEST



YOU MAY SEE A SPARK WHEN CONNECTING THE JUMPER

DIGITAL VOLTMETER
DC VOLTS
MODE SELECTOR

GROUND

DISCONNECTED REGULATOR 4-WIRE CONNECTOR

JUMPER WIRE

PENNTEX HARNESS

BROWN
RED
ORANGE
BLUE

FULL-FIELD TEST PROCEDURE:

- 1) TURN OFF ALL ACCESSORIES.
- 2) LOCATE THE VOLTAGE REGULATOR
- 3) DISCONNECT THE 4-WIRE CONNECTOR.
- 4) JUMP BLUE AND RED WIRES.
- 5) START VEHICLE; RUN AT IDLE.
- 6) AFTER IT RUNS FOR 15 SECONDS, CHECK VOLTAGE AT RED WIRE.
- 7) THAT VOLTAGE IS: _____.
- 8) RAISE ENGINE RPM TO 1000 RPM.
- 9) CHECK VOLTAGE AT RED WIRE.
- 9) THAT VOLTAGE IS NOW: _____.
- 10) SHUT ENGINE OFF.
- 11) REMOVE JUMPER WIRE.

NOTE: DO NOT LET ENGINE RUN MORE THAN 30 SECONDS IN FULL-FIELD MODE. DAMAGE TO THE VEHICLE ELECTRICAL SYSTEM COULD RESULT.

WHEN WAS THE LAST TIME YOU REPLACED YOUR VOLTMETER BATTERIES?

A FULL-FIELD TEST DETERMINES IF AN ALTERNATOR WILL CHARGE WITH THE REGULATOR BYPASSED. AFTER COMPLETEING THIS TEST AND THE FOUR-STEP VOLTAGE TEST, FAX THEM TO OUR TECHNICAL DEPARTMENT AT 817-590-0398.

PENNTEX INDUSTRIES, INC. TECH LINE: 877-590-7366

FAX: 817-590-0398

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