INSTALLATION INSTRUCTIONS KIT #AKT0018 JOHN DEERE 3010, 3020, 4010, 4020 TRACTORS USED TO CONVERT 24-VOLT SYSTEMS TO 12-VOLT

Battery NOTE: 4th Terminal on Soleniod is Terminal -"Relay" and is Not Required. The INDICATOR LIGHT will not Brown and work with this conversion - Use Blue Wires the included SSW0008 VOLT Attach Here GAUGE, if desired. **Alternator** Starter **Alternator Motor Bracket #ADR0437 #GDR9106 #SNK0038** 1). Disconnect and mark all battery cables. Remove the existing starter, generator, and regulator. 2). Remove the existing generator bracket. Install the alternator bracket GDR9106 and Alternator ADR0437 from the kit. Make sure the belt lines up properly with the pulleys. It may be necessary to re-use the pulley from the generator on the alternator to get correct fit and alignment. 3). The alternator in this kit is a 1-wire design - only the battery cable needs to be hooked up - no other wires are used (Step 4). The existing regulator removed in step 1 is not used anymore. 4). Next to where the original regulator was installed is a wiring harness with 3 wires (brown, blue and black or brown, blue and pink depending on model). Cut this harness apart to expose the wires, and strip the insulation back from the ends. Combine the brown and blue wires together and attach them to the ring terminal from the kit. Then attach this ring terminal to the battery stud of the alternator (see picture). This is the only connection needed. The 3rd wire in the original harness is not used. 5). Install the STARTER and SOLENOID from the kit. Connect the wires as shown. The 2 red wires from the AKT9207 KIT are connected as shown - one to the ignition terminal on the starter, the other to the top battery post. The existing yellow (or different color) wire that was connected to the original starter's solenoid is now connected to the small S-TERMINAL on the SOLENOID. The small I-TERMINAL on the SOLENOID is NOT USED. 6). Install the POSITIVE battery cables from BOTH BATTERIES to the top terminal of the Starter. The original brown and blue wires on the tractor also are connected to the same terminal on the starter (see diagram above). 7). Ground the batteries by connecting the NEGATIVE POST from each battery to a known ground

8). Double check all connections to make sure they are clean, tight, and connected properly.

KIT CONTAINS:

- (1) ADR0437 ALTERNATOR
- (1) SNK0038 STARTER
- (1) SFD6003 SOLENOID
- (1) GDR9106 BRACKET
- (1) AKT9207 WIRE & **CABLE KIT**

Positive Cables

SOLENOID

Use 2 Red

wires supplied

in kit.

Starter

Solenoid

#SFD6003

(1) SSW0008 VOLTAGE **GAUGE - Use if Desired**

It is suggested to use both 12V batteries, although it is possible to reduce this to a single 12-Volt battery. depending on system requirements

Negative

Cables

12 VOLT BATTERY

NEGATIVE GROUND

12 VOLT BATTERY

NEGATIVE GROUND

I-TERMINAL is NOT USED

Yellow wire from original starter connects to the small S-TFRMINAL on this solenoid.

The I-TERMINAL on this solenoid is NOT USED

Conversion from one system voltage to another may require other circuits in the tractor to be modified which are not covered in these instructions.

NOTE: INSTALL **BATTERY AS NEGATIVE GROUND** ONLY



Wire & **Cable Kit #AKT9207**