

damaged by procedures that would not affect a D.C. generator, the following precautions must be observed.

1. Always be sure that when installing batteries or connecting a booster battery, the negative posts of all batteries are grounded.
 2. Never short across any of the alternator or regulator terminals.
 3. Never attempt to polarize the alternator.
 4. Always disconnect all battery ground straps before removing or replacing any electrical unit.
 5. Never operate the alternator on an open circuit; be sure that all leads are properly connected and tightened before starting the engine.
114. All models are equipped with either a Motorola 32 amp or 41 amp alternator. Alternators may be identi-

fied by width of gap (exposed stator laminations) between front and rear housings. This gap measures 3/8 inch on 32 amp alternators while gap on 51 amp alternators is 5/8 inch. Service specifications are:

D5NN-10300-B And D5NN-10300-E
 Max. output at 160°F.,
 2400 engine rpm and
 14.4 volts 32 amps
 Minimum brush length 3/16 in.
 Min. brush spring tension with
 new brush 4 oz.
 Field current 1.8-2.4 amps
 Field resistance 6 ohms

D5NN-10300-A
 Max. output at 160°F.,
 2400 engine rpm and
 14.4 volts 50 amps
 Minimum brush length 3/16 in.

Min. brush spring tension with
 new brush 4 oz.
 Field current 1.8-2.4 amps
 Field resistance 6 ohms

115. **VOLTAGE REGULATOR.** All models are equipped with voltage regulator D7NN-10316-B with the following voltage readings at 10 ampere load.

Ambient Temperature	Output Terminal Voltage
0°F.	14.8-15.5
20°F.	14.6-15.3
40°F.	14.3-14.9
60°F.	14.0-14.6
80°F.	13.6-14.3
100°F.	13.2-14.0
120°F.	12.8-13.7
140°F.	12.5-13.4
160°F.	12.3-13.2

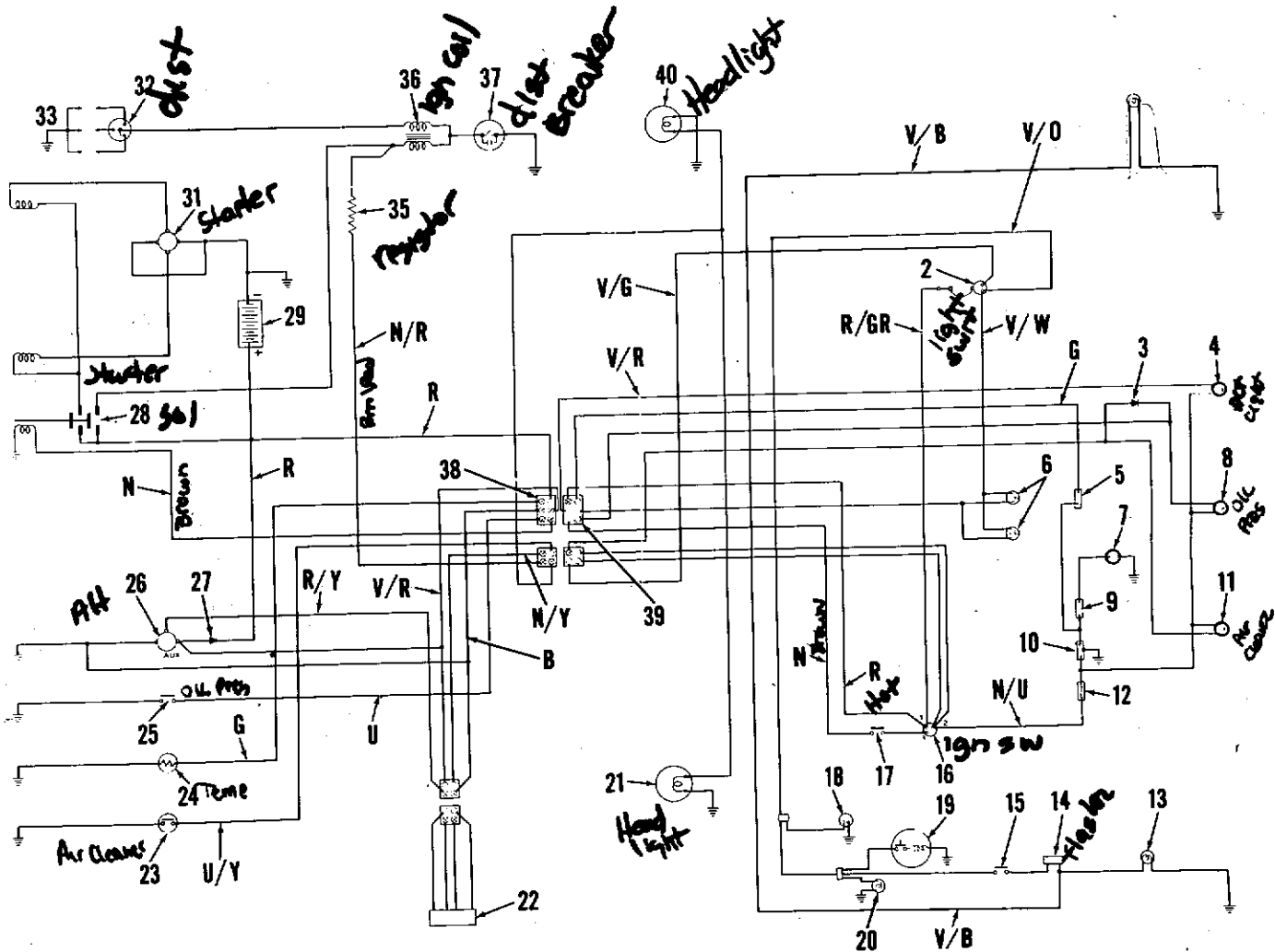


Fig. 89—Wiring schematic for non-diesel models without cab. Other models are similar.

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|-----------------|-----------|--------------------------------|-------------------------------|-----------------------------------|-----------------------------------|
| B. Black | V. Violet | 7. Fuel sender unit | 15. Flasher switch | unit | 33. Spark plugs |
| G. Green | W. White | 8. Oil pressure warning light | 16. Ignition switch | 25. Oil pressure switch | 35. Ignition ballast resistor |
| GR. Gray | Y. Yellow | 9. Fuel gage | 17. Safety start switch | 26. Alternator | 36. Ignition coil |
| K. Pink | | 10. Voltage stabilizer | 18. Trailer socket | 27. Output diode | 37. Distributor breaker |
| LG. Light green | | 11. Air cleaner warning light | 19. Implement work light | 28. Relay | 38. Front main harness connectors |
| N. Brown | | 12. Fuse, 3 amp | 20. Tail light | 29. Battery | 39. Rear main harness connectors |
| O. Orange | | 13. Flasher warning lamp, L.H. | 21. Headlamp, L.H. | 30. Starter motor field coils | 40. Headlamp, R.H. |
| P. Purple | | 14. Flasher | 22. Voltage regulator | 31. Starter motor | |
| R. Red | | | 23. Air cleaner vacuum switch | 32. Distributor rotor, 3 cylinder | |
| S. Slate | | | | | |
| U. Blue | | | | | |