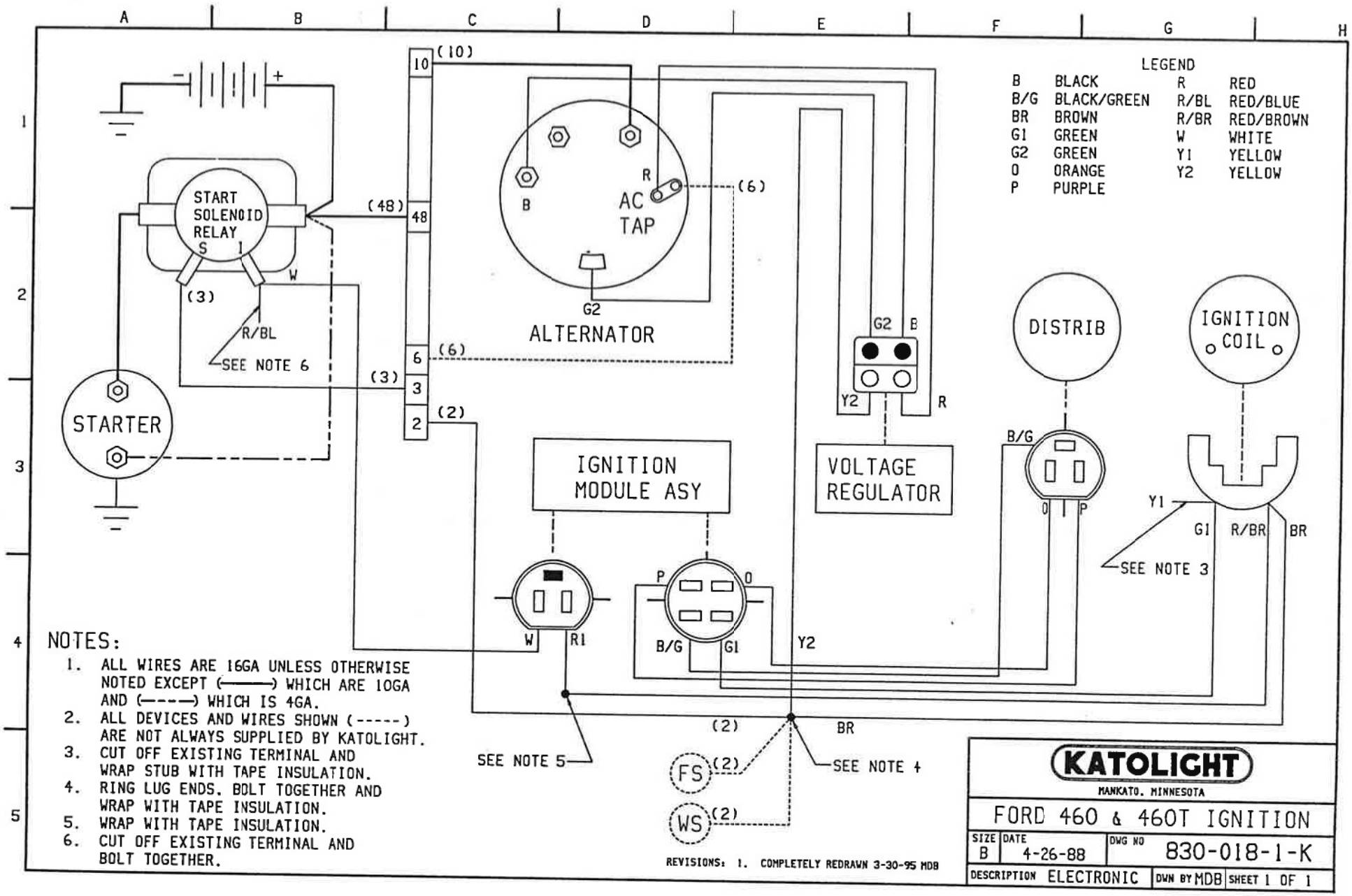
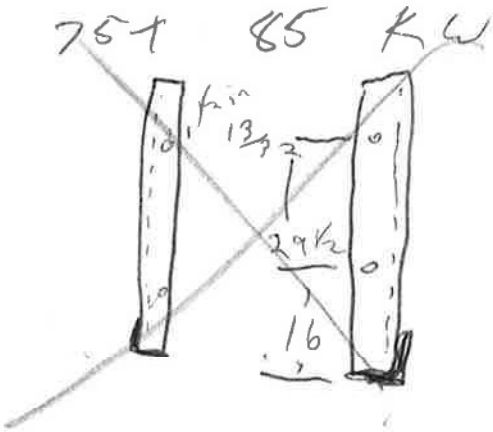
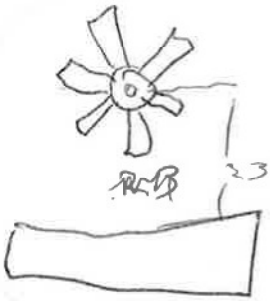
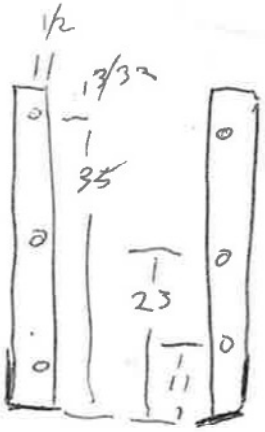

LEGEND
B BLACK
B/G BLACK/GREEN
BR BROWN
G1 GREEN
G2 GREEN
O ORANGE
P PURPLE
R RED
R/BL RED/BLUE
R/BR RED/BROWN
W WHITE
Y1 YELLOW
Y2 YELLOW
START SOLENOID RELAY
S I
W
(3)
R/BL
SEE NOTE 6
STARTER
(48)
48
10
(10)
6
(6)
3
(3)
2
(2)
B
R
AC TAP
(6)
G2
ALTERNATOR
G2 B
Y2
R
VOLTAGE REGULATOR
DISTRIB
B/G
O P
IGNITION COIL
Y1
G1 R/BR BR
SEE NOTE 3
IGNITION MODULE ASY
W R1
P O
B/G G1
Y2
(2)
BR
SEE NOTE 5
FS (2)
WS (2)
SEE NOTE 4
NOTES:
1. ALL WIRES ARE 16GA UNLESS OTHERWISE NOTED EXCEPT (———) WHICH ARE 10GA AND (— — —) WHICH IS 4GA.
2. ALL DEVICES AND WIRES SHOWN (-----) ARE NOT ALWAYS SUPPLIED BY KATOLIGHT.
3. CUT OFF EXISTING TERMINAL AND WRAP STUB WITH TAPE INSULATION.
4. RING LUG ENDS. BOLT TOGETHER AND WRAP WITH TAPE INSULATION.
5. WRAP WITH TAPE INSULATION.
6. CUT OFF EXISTING TERMINAL AND BOLT TOGETHER.
REVISIONS: 1. COMPLETELY REDRAWN 3-30-95 MDB
KATOLIGHT
MANKATO, MINNESOTA
FORD 460 & 460T IGNITION
SIZE B
DATE 4-26-88
DWG NO 830-018-1-K
DESCRIPTION ELECTRONIC
DWN BY MDB
SHEET 1 OF 1

460 Ford RadFeet





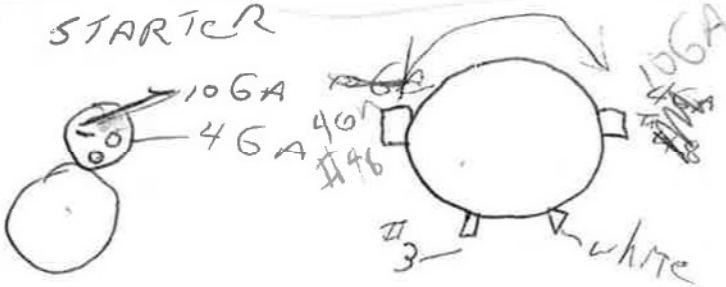


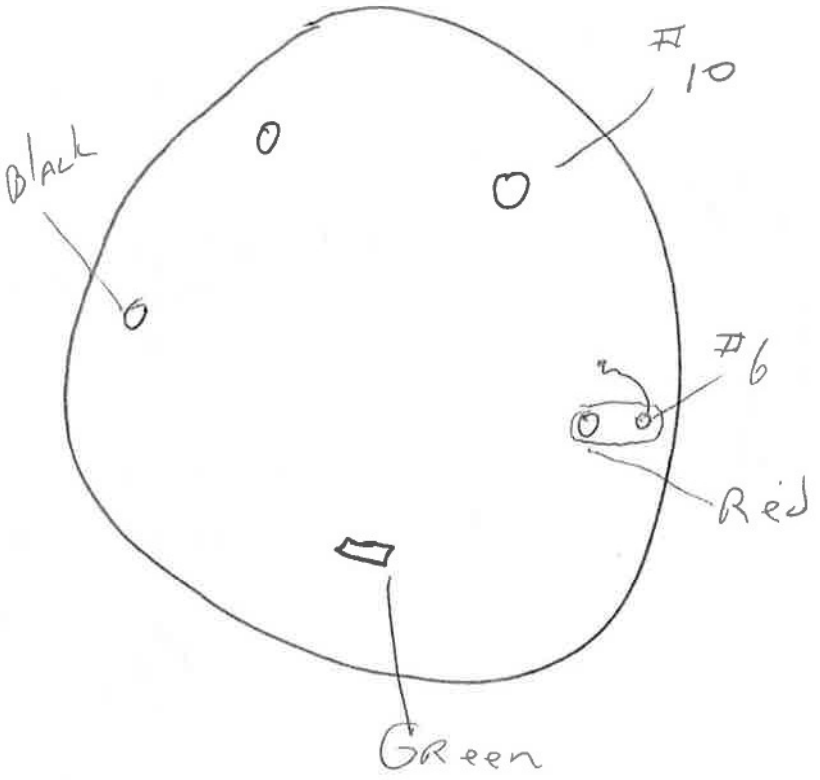
100 KW

Ford
Governor Linkage

4 1/4 in

STARTER





TAPE UP DOUBLE Red

Red wire with white wire. Clip Red, white to STARTER Relay

Yellow wire FROM coil - clip off - NOT USED

Yellow wire TO BROWN on other HARNESS

Also No 2 wire And 4 FOOT WIRE TO SAME POINT All Rib lugs with a #10/32 SCREW And NUT Taped Together

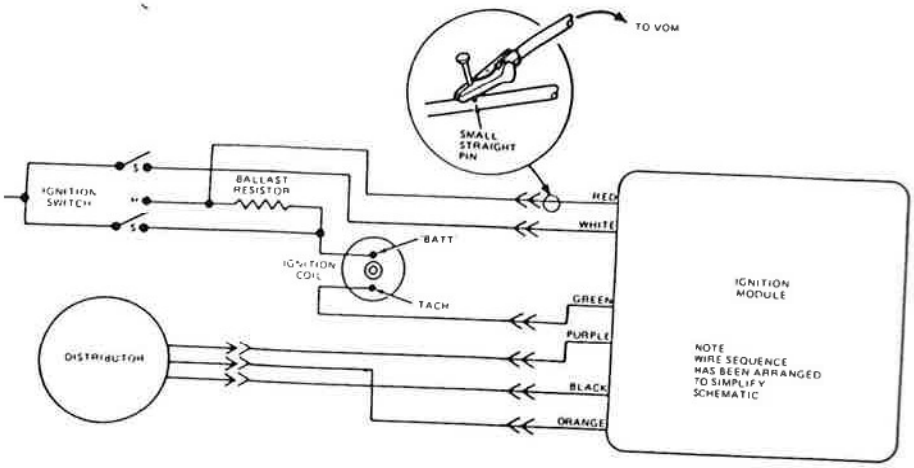


Fig. 4 Module voltage test connections

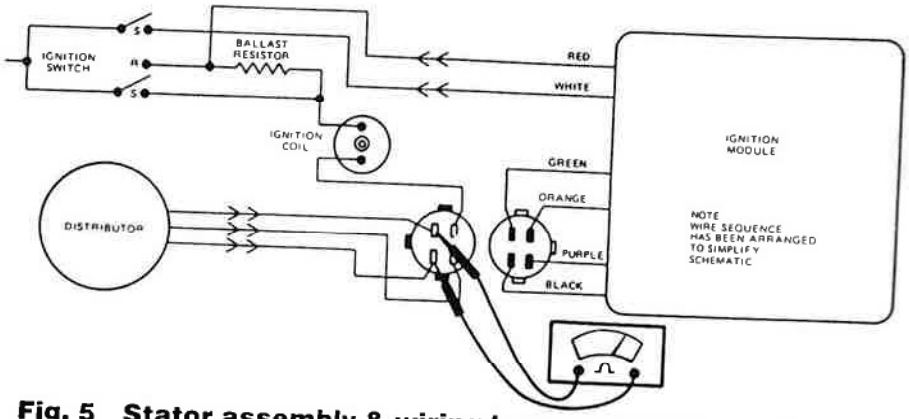


Fig. 5 Stator assembly & wiring harness test connections

ıst 5, Supply Voltage ʻcuit

Reconnect coil wire to distributor cap (if still removed).

a. If starter relay is equipped with a I terminal, disconnect starter cable from starter relay.
b. If starter relay is equipped with S terminal, disconnect S wire from relay.

With ignition "Off' install straight pins into module red and white wires. **Do not allow straight pins to contact ground.**

Using a suitable voltmeter, connect negative lead to ground at distributor base.

a. With ignition in "ON" position, measure voltage at red wire pin.
ɔ. Place ignition in "Start" position, measure voltage at white wire pin and at coil Batt. terminal. When measuring voltages, wiggle wires to simulate any open circuits that might exist.

f readings obtained are 90% of battery or greater, supply circuits are satsfactory. Proceed to test 6.

f readings obtained are less than)0% of battery voltage:

. Defective wiring harness or connectors in supply voltage circuits.
b. Defective ignition switch.
c. Defective radio interference capacitor on ignition coil.

Test 6, Ignition Coil Supply Voltage

1. Connect positive lead of voltmeter to coil Batt. terminal and negative lead to ground at distributor base.
2. Turn ignition switch to "On" position.
3. Observe voltmeter reading. If 6-8 volts, proceed to test 7. If less than 6 volts or more than 8 volts, proceed to test 12.

Test 7, Distributor Stator Assembly & Wiring Harness

1. Disconnect module 4 wire connector Inspect connectors for dirt and corrosion.
2. Using a suitable ohmmeter, measure resistance of stator and wiring harness between wiring harness terminals joining orange and purple wires of module connector, **Fig. 5.** When measuring resistance, wiggle wires to simulate any open circuit that might exist.
3. If resistance is 400-1300 ohms, test results are satisfactory. Proceed to test 8. If resistance is less than 400 ohms or more than 1300 ohms, proceed to test 11.

Test 8, Ignition Mod Distributor Stator Assembly Wiring Har

1. Disconnect module 4 wire p Inspect connectors for dirt sion.
2. Using a suitable ohmmete one lead to ground at distrib Using other lead, alternately resistance of harness wir connects to orange and pur of module connector and gro 6.
3. If test results are greater th ohms, circuits are satisfacto results are less than 70,000 o spect and repair as necessa harness between module co and distributor. Also inspect tor grommet.

Test 9, Ignition Coil Secondary Resistance

1. Disconnect and inspect ignit electrical connector.
2. Using a suitable ohmmeter, m resistance between coil Batt. and high tension lead terminal
3. If resistance is between 7,700-1 ohms, coil is satisfactory. If no tween limits, replace coil.

Test 10, Module To Coil W

1. Disconnect module 4 wire connec Inspect connectors for dirt and co sion.
2. Using a suitable ohmmeter, measu resistance between coil connect tach wire and ground, **Fig. 7.**
3. If resistance is greater than one oh on 1984-85 models, or greater tha 100 ohms on 1986-89 models, re place ignition module. If resistance one ohm or less on 1984-85 model or 100 ohms or less on 1986-8 models, inspect wiring harness be tween ignition coil and module and re pair as necessary.

Test 11, Distributor Stator Assembly

1. Disconnect distributor electrical connect-r. Inspect connections for dir or corrosion.
2. Using a suitable ohmmeter, measure resistance across orange and purple wires in distributor connector.
3. If readings obtained are within 400-1000 ohms, circuit is satisfactory. If reading are less than 400 or more than 1000 ohms, replace stator assembly.

Test 12, Ignition Coil Primary Resistance

1. Disconnect ignition coil electrical connector.
2. Using a suitable ohmmeter, measure resistance between coil Batt. terminal and Tach terminal.
3. If reading obtained is 0.8-1.6 ohms, coil is satisfactory. If not, replace coil.

Test 13, Primary Circuit

1. With ignition "Off," install a straight pin into module green wire, **Fig. 8.** Con-