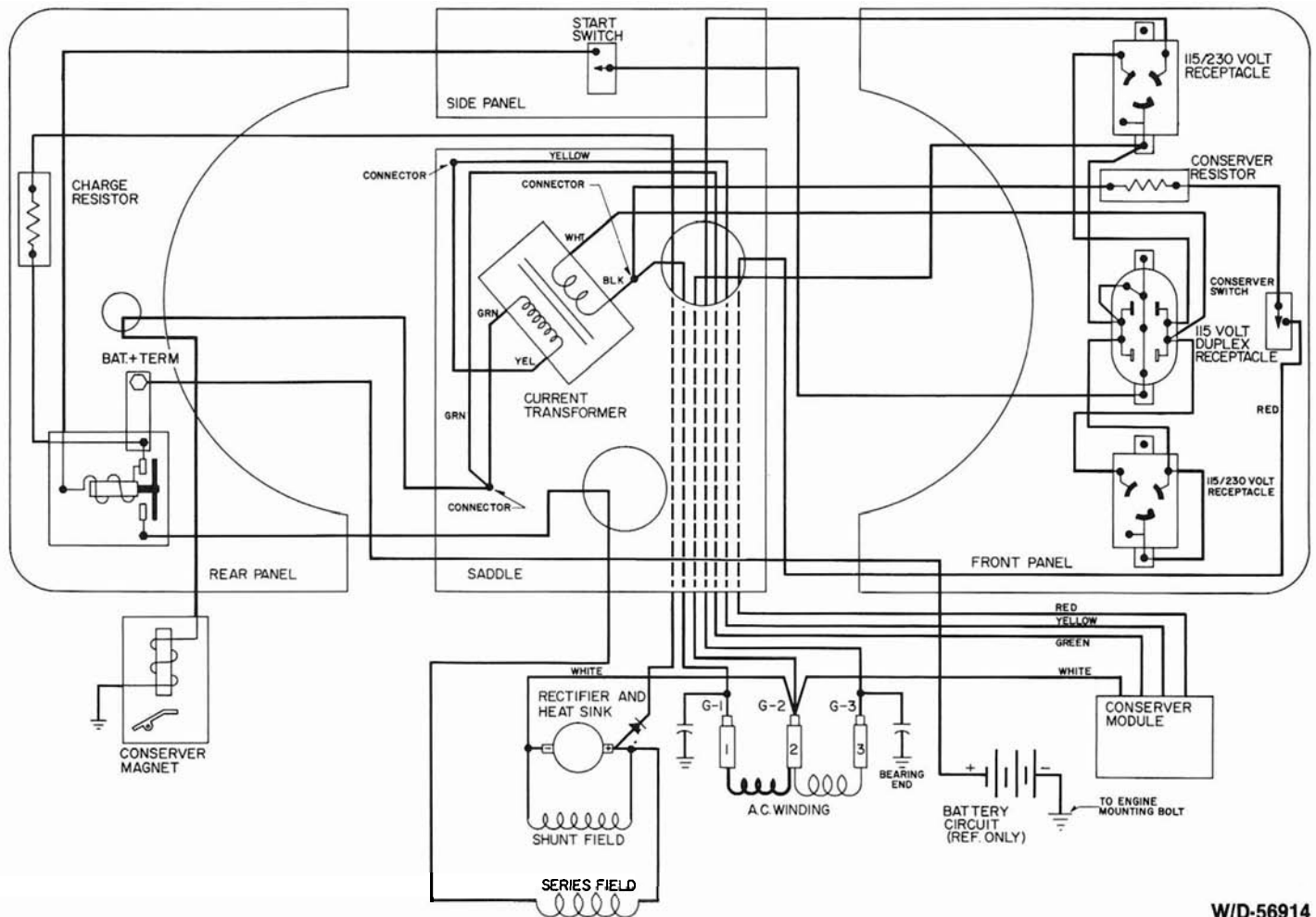
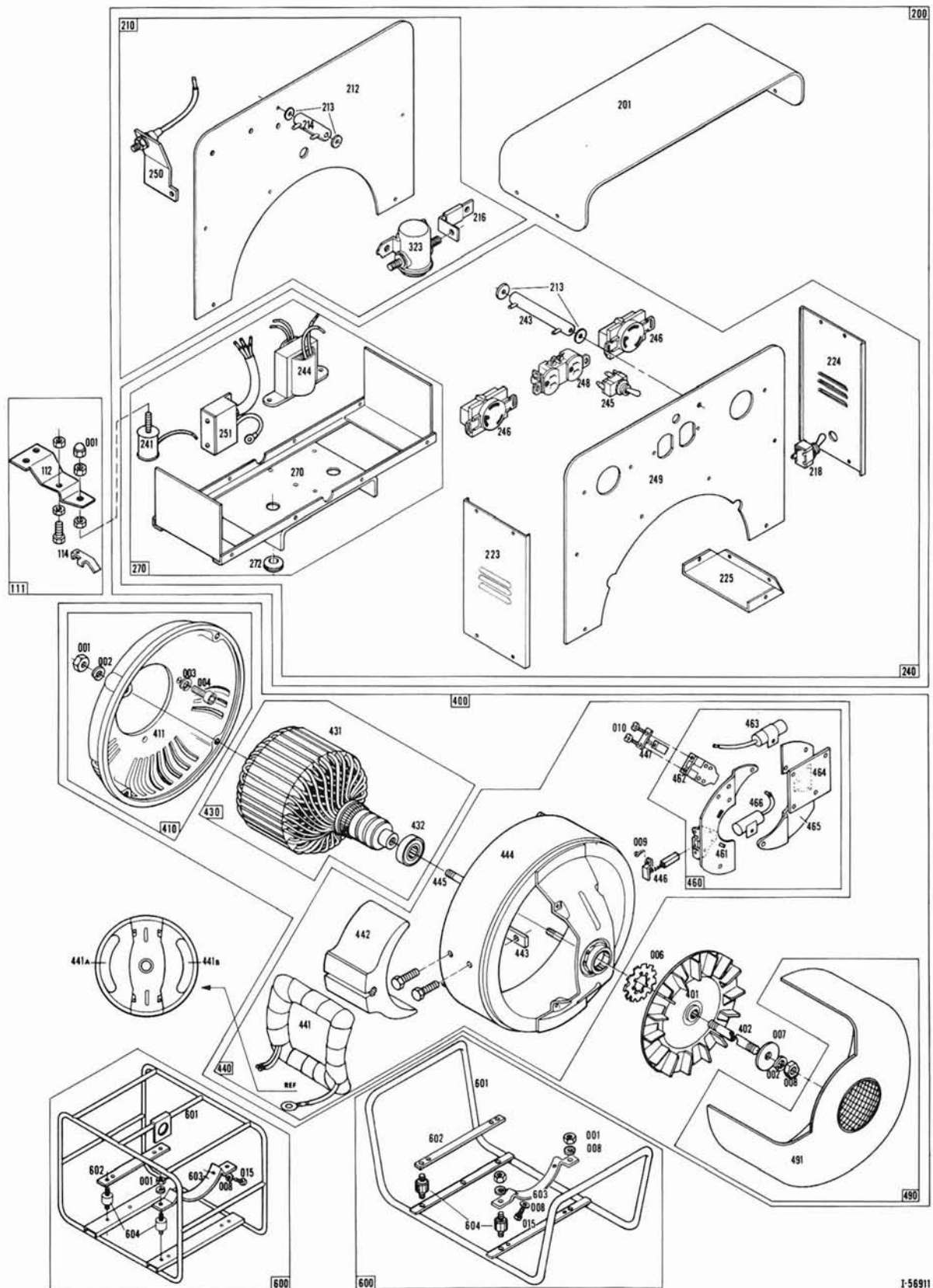


## ILLUSTRATED PARTS LIST



## SCHEMATIC DIAGRAM

This IPL contains wiring, illustration, parts list, ordering information and technical data to perform routine maintenance on this generator. Consult factory with model no., serial no. and test data for further assistance.



| REF. | PART NO. | QTY. | DESCRIPTION                          | REF. | PART NO. | QTY. | DESCRIPTION                     |
|------|----------|------|--------------------------------------|------|----------|------|---------------------------------|
| 001  | 458      | 14   | Hex Nut— $\frac{5}{16}$ -18          | 250  | 54732    | 1    | Diode and Heat Sink Assembly    |
| 002  | 480      | 17   | Lockwasher— $\frac{5}{16}$ Split     | 251  | 48574    | 1    | Electronic Module—Conserver     |
| 003  | 481      | 4    | Lockwasher— $\frac{3}{8}$ Split      | 270  | 56926    | 1    | Saddle                          |
| 004  | 3290     | 4    | Cap Screw— $\frac{3}{8}$ -16 X       | 272  | 56927    | 1    | Grommet                         |
| 006  | 55224    | 1    | Lockwasher Int. Tooth                | 323  | 24061    | 1    | Solenoid—Start                  |
| 007  | 23558    | 1    | Flat Washer                          | 401  | 55101    | 1    | Fan Assembly                    |
| 008  | 23605    | 1    | Hex Nut— $\frac{5}{16}$ -24          | 402  | 23197-2  | 1    | Thru Bolt                       |
| 009  | 4637     | 4    | Machine Screw—#10-32 x $\frac{3}{8}$ | 411  | 54178    | 1    | End Bracket                     |
| 010  | 40746    | 16   | Machine Screw—#8-32                  | 430  | 56916    | 1    | Armature & Brg Assembly         |
| 015  | 467      | 2    | Cap Screw— $\frac{5}{16}$ -18 X      | 431  | 56916-1  | 1    | Armature Less Brg               |
| 100  | 58865    | 1    | Drive Engine B&S<br>195432-0248-01   | 432  | 55223    | 1    | Bearing                         |
| 112  | 44927    | 1    | Formed Conserver Bracket             | 440  | 56915    | 1    | Field Shell & Coil Assembly     |
| 114  | 44892    | 1    | Steel Extension                      | 441A | 54752    | 1    | Field Coil                      |
| 200  | 56913    | 1    | Control Panel Assembly               | 441B | 54752-1  | 1    | Field Coil                      |
| 201  | 51580    | 1    | Cover                                | 442  | 24851    | 2    | Pole Shoe                       |
| 212  | 56925    | 1    | Rear Panel (Bare)                    | 443  | 24849    | 2    | Pole Shoe Retainer              |
| 213  | 1376     | 1    | Shoulder Washer                      | 444  | 56917    | 1    | Field Shell                     |
| 214  | 56924    | 1    | Resistor—Batt. Charge                | 445  | 23451    | 4    | Stud— $\frac{5}{16}$ -18 X      |
| 216  | 52789-3  | 1    | Copper Strap                         | 446  | 41393    | 2    | Brush D.C.                      |
| 218  | 52029    | 1    | Start Switch                         | 447  | 23607    | 8    | Brush A.C.                      |
| 223  | 51686    | 1    | Side Panel                           | 461  | 41744    | 1    | Riveted Brush Rack—LH           |
| 224  | 51578-3  | 1    | Side Panel                           | 462  | 59690    | 8    | Brush Holder A.C.               |
| 225  | 51577    | 2    | Bottom Box Support                   | 463  | 41221    | 2    | Capacitor A.C.                  |
| 241  | 44889    | 1    | Electromagnet—Conserver              | 464  | 49507    | 1    | Bracket—Module Mtg.             |
| 243  | 48583    | 1    | Resistor—Conserver                   | 465  | 41744-1  | 1    | Riveted Brush Rack—RH           |
| 244  | 54196    | 1    | Transformer—Conserver Sensing        | 466  | 41180    | 1    | Capacitor D.C.                  |
| 245  | 24238    | 1    | Switch—Conserver                     | 491  | 55007    | 1    | End Cover                       |
| 246A | 56279    | 1    | Receptacle—125V/20A<br>NEMA L5-20R   | 601  | 59245    | 1    | Cradle—Wrap Around              |
| 246B | 56281    | 1    | Receptacle—250V/20A<br>NEMA L6-20R   | 601A | 58363-1  | Alt  | Cradle—Open Loop Style          |
| 248  | 24749    | 1    | Receptacle—125V/15A<br>NEMA 5-15R    | 602  | 43292    | 1    | Flat Bar—Engine Support         |
| 249  | 56324-1  | 1    | Front Panel—Less Receptacles         | 603  | 43291    | 1    | Formed Bar—Generator Support    |
|      |          |      |                                      | 604  | 23623    | 4    | Shock Mount— $\frac{5}{16}$ -18 |

**PARTS ORDERING INFORMATION REQUIRED**


To fill your order for service parts, please advise the complete Generator model number and serial number, part number(s), and part description. If in doubt, consult the factory prior to placing the order. Send all parts orders to WINCO, Division of Dyna Technology, Inc., 225 South Cordova Ave., Le Center, MN 56057.

# TECHNICAL DATA

## GENERATOR SPECIFICATIONS:

Watts—3500; Volts—115/230; Amps—30/15; Phase—1; Hz—60; RPM—3600

### Normal Voltage:

115 VAC  
230 VAC

### No Load:

132 VAC  
264 VAC

### Full Load:

112 VAC  
224 VAC

### Resistance:

SS#1254

Field Coils—.850  $\pm$  .040 ohms

Armature—Less than one ohm ring to ring

Less than one ohm bar to bar

### Excitation Voltage: (Approximately)

19 Volts DC

### Separately Excited:

12 VDC to Positive Field Lead. 210 to 250 VAC output line to line. NOTE: Remove positive DC brush. Unit will have to be started manually.

## BASIC TEST PROCEDURE:

Refer to illustration for component location by Reference Number.

*Example:* No output—Check field coils for opens and shorts, Reference Numbers 441A and 441B.

### No Output:

- Check for loose or open connections.
- Check field coils for opens or shorts, Reference Numbers 441A and 441B.
- Check brushes for wear, proper seating and not stuck in holder, Reference Numbers 446 and 447
- Check armature for opens or shorts, Reference Number 431.

### Low Voltage—No Load:

- Check generator speed/frequency (3600 RPM nominal).
- Check for loose or open connections.
- Check winding resistance, Reference Numbers 441A, 441B and 431.

### Low Voltage—Full Load:

- Check generator speed/frequency (3600 RPM nominal).
- Check generator load.
- Check for loose or open connections.
- Check winding resistance, Reference Numbers 441A, 441B and 431.