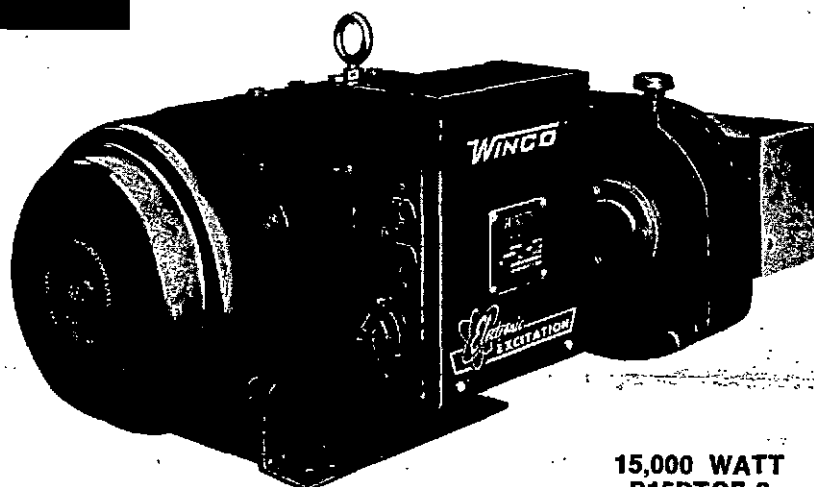


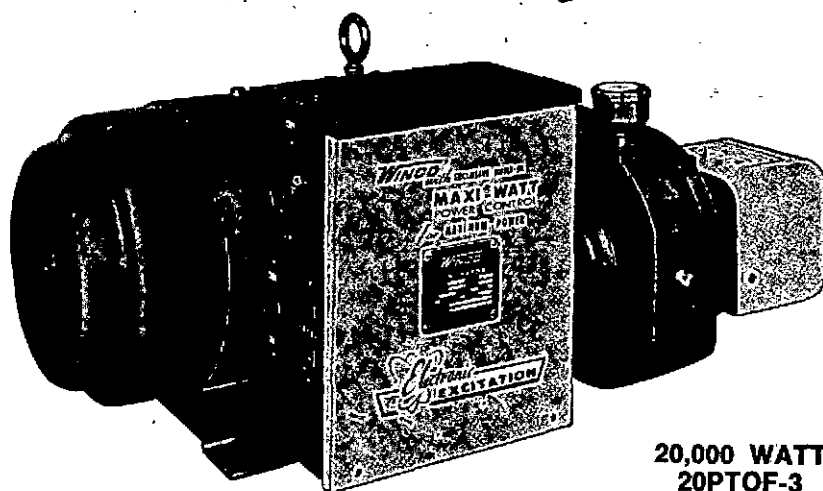
WINGO[®]

TRACTOR- GENERATOR

ASSEMBLY INSTRUCTIONS
OPERATING INSTRUCTIONS
SERVICE INFORMATION



15,000 WATT
P15PTOF-3



20,000 WATT
20PTOF-3

Write the model number and serial number of the generator in the spaces below and save this book for future references. Be sure to give these numbers if corresponding about or ordering parts for the generator.

GENERATOR MODEL _____ SERIAL _____

WINGO
Division of DYNA TECHNOLOGY, INC.

225 So. Cordova
Le Center, Minnesota 56057
Phone 612 357-6821

INTRODUCTION

BEFORE ANY POWER-TAKE-OFF TRACTOR-DRIVEN GENERATOR IS SHIPPED FROM THE FACTORY IT IS THOROUGHLY CHECKED FOR PEAK PERFORMANCE. The generator has been run long enough for the brushes to seat properly so that good electrical contact is made between them and the slip rings. With the generator fully loaded, the voltage, current, and frequency have been carefully checked. NO UNIT IS SHIPPED UNLESS IT PRODUCES ITS FULL RATED CAPACITY AND PASSES OTHER RIGID INSPECTION TESTS.

If upon installation a new generator does not work properly, check all of the electrical connections and the generator speed before concluding that the generator is not performing satisfactorily. When unpacking the machine, be sure to inspect it carefully to see that no damage occurred in transit. If damage is noted, notify the transportation company immediately and

have them write the nature of the damage on the freight bill, so that a claim can be filed if necessary.

NOTICE REGARDING GEAR CASE LUBRICANT. The train of gears in the gear box has a step-up ratio of 6.65:1. A speed of 540 RPM is required to drive the generator at 3600 RPM. The tractor must be capable of delivering approximately 2.2 H.P. per 1000 watt of electrical output of the generator. OIL IS PROVIDED IN THE GEAR CASE when the unit is shipped. A quart of gear lube (Sunoco/DX XL80-90-140, Kendall Three Star 85W-140 or Amoco 85W-140) is recommended for replacement. (See page 5 under Gear Case Oil for specifics.) Remove the breather cap from the top of the gear case and the "OIL LEVEL" plug from the back of the gear case. Pour oil into the gear case (about 1 quart) until it comes out of the "Oil Level" hole; then install the plug and the breather cap. No further lubrication is required on the unit.

A Guarantee Registration Card is enclosed with this Instruction Manual. This card must be filled in and returned to the factory within 10 days of date of purchase. The guarantee is void unless the Guarantee Register Card is returned.

LIMITED WARRANTY

WINCO Division of Dyna Technology, Inc., (WINCO), warrants the product being sold to be free from defects in material and workmanship under normal use and service, the obligation of WINCO under this Warranty being limited to replacing or repairing at the WINCO plant facility or authorized service station any part of the product being sold which shall, within one year after shipment of the product to the original user, be returned to WINCO or authorized service station with transportation charges prepaid, and for which an examination by WINCO discloses it to be defective.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for purpose, are limited to one year from shipment of the product to the original user, and to the extent permitted by law any and all implied warranties are excluded. WINCO shall in no event be liable for any

consequential or incidental damages or expenses arising from any and all warranties.

WINCO makes no warranty with respect to engines, batteries, or certain component parts, even though being a part of the product, as they are warranted by the respective manufacturers of those items.

This Warranty shall not apply to any products sold hereunder which have been repaired or altered outside of the WINCO plant facility or authorized service station in any way so as to, in the judgment of WINCO, affect the stability or reliability of the product, or to any products sold hereunder which have been subject to misuse, negligence or accident.

WINCO reserves the right to change or improve its product without incurring any obligations to make such changes or improvements on products sold hereunder or purchased previously.

LOCATION

The P.T.O. unit can be mounted on a trailer for portability or it can be bolted to a slab of concrete 2 feet square and 8 inches thick in a permanent installation.

For best service there are several factors which should be taken into consideration:

1. **Moisture:** All electrical equipment should be protected from excessive moisture. Failure to do so will result in deterioration of the insulation and will result in short circuits and grounds. If the unit is to be left in the open, it should be covered with a piece of canvas to keep out water and dust.
2. **Dirt:** Foreign materials such as dust, sand, lint and abrasive particles have a tendency to cause excessive wear to bearings, gears, brushes, etc. These materials will also clog the ventilation holes and cause excessive heating. It is, therefore, important that the unit be protected as much as possible to extend its useful life.

CONNECTING THE LOAD

These generators are supplied with control boxes equipped with receptacles and fuses.

UNITS EQUIPPED WITH FUSES AND RECEPTACLES

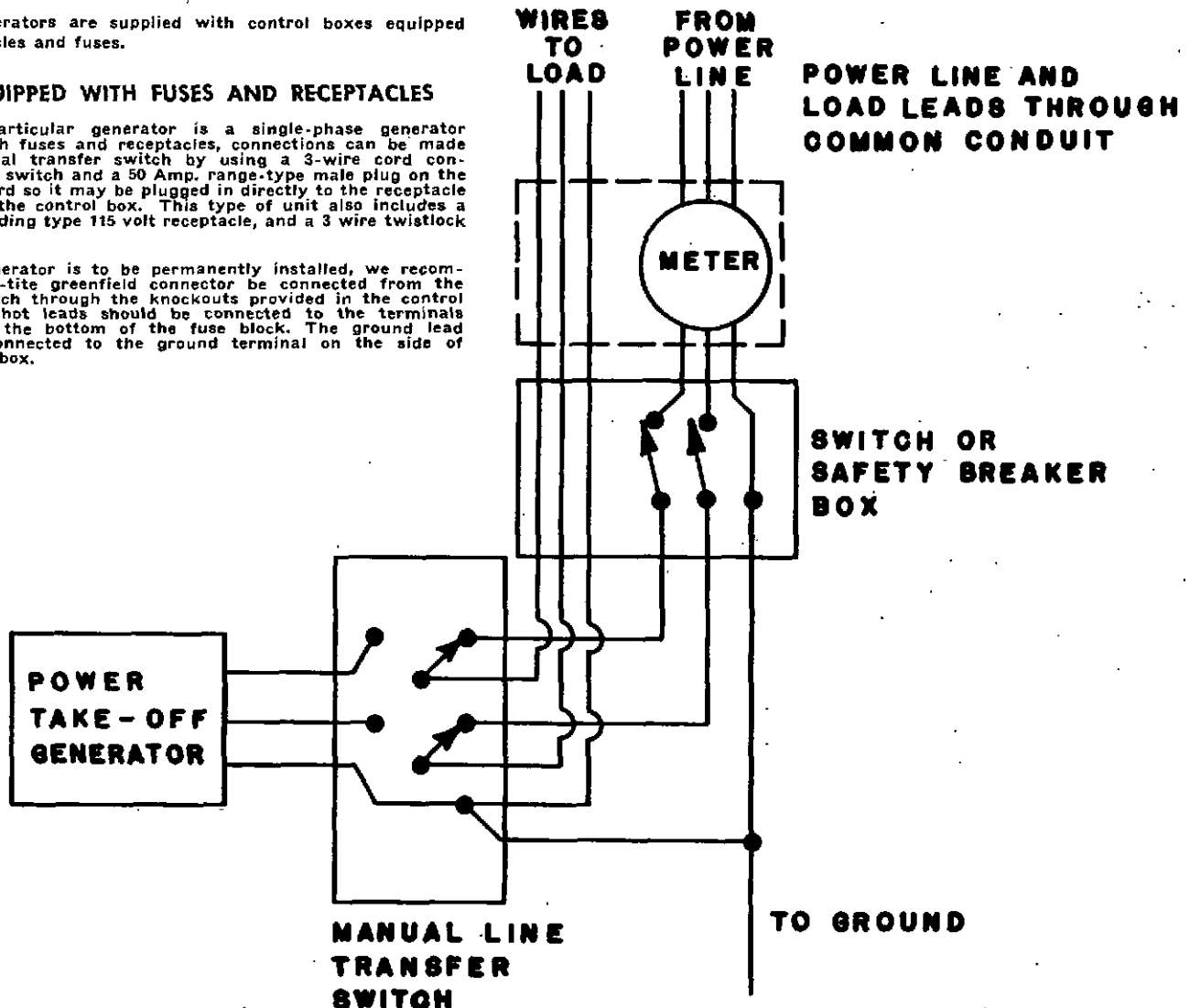
If your particular generator is a single-phase generator equipped with fuses and receptacles, connections can be made to the manual transfer switch by using a 3-wire cord connected to the switch and a 50 Amp. range-type male plug on the end of the cord so it may be plugged in directly to the receptacle provided on the control box. This type of unit also includes a duplex grounding type 115 volt receptacle, and a 3 wire twistlock receptacle.

If this generator is to be permanently installed, we recommend a seal-tite greenfield connector be connected from the transfer switch through the knockouts provided in the control box. The 2 hot leads should be connected to the terminals provided on the bottom of the fuse block. The ground lead should be connected to the ground terminal on the side of the control box.

THREE-PHASE GENERATORS SUPPLIED WITH FUSES

This type of generator should be connected to the manual transfer switch with a seal-tite greenfield cable. Knockouts are provided in the manual transfer switch and can be made in the generator control box for connecting the cable.

The 3 hot leads of the 3-phase generator should be connected to the 3 terminals provided on the bottom of the fuse block. The ground lead should be connected to the terminal provided on the side of the control box. (NOTE: the 15 KW is 120/208 volts "Wye" connected, and the 20 KW is 115/230 volts "Delta" connected.)



TYPICAL SINGLE PHASE INSTALLATION WITH UNSWITCHED NEUTRAL

Figure 1

OPERATION

These generators must be driven by the power-take-off of a tractor. A heavy-duty tumbling bar is required with a $1\frac{1}{4}$ " 6 spline on one end and a $1\frac{1}{4}$ " diameter female coupling on the other end. (This is Part No. 43990). If the operator wishes to use his own tumbling bar, an adapter is available (Part No. 44804) which converts the $1\frac{1}{4}$ " diameter round shaft on the gear case to a $1\frac{1}{4}$ " 6 spline fitting. In the interest of safety,

BE SURE THE ENTIRE POWER-TAKE-OFF IS PROPERLY EQUIPPED WITH SAFETY SHIELDS.

Using suitable means, connect the unit to the tractor and adjust the throttle setting of the tractor to produce a voltage of approximately 260 volts with no load connected. With a sensitive governor on the tractor engine, the voltage will vary approximately as shown in the following table depending on the electrical load connected to the generator. Each of the 115 volt circuits will produce half the voltage shown,

Capacity % of Rated	Voltage	Frequency (Cycles per Second)
0	260	61
20	256	60+
40	252	60
60	246	60
80	238	59
100	230	58+

As the load is varied from no-load to full-load it may be necessary to adjust the throttle of the tractor.

VOLTMETER

The meter is graduated from 0-300 volts and also is color-coded in red and green. The tractor speed should be adjusted to keep the needle of the voltmeter in the green area when the generator is carrying its normal load.

FUSES

The control box on your generator contains two Super-Lag renewable fuses. (60 Amp for 15 KW's and 90 Amp for 20 KW's.) The generator is supplied with ten additional fuse links which are located in an envelope in the bottom of the control box.

CAUTION

Any generator which is installed for standby or emergency power must be equipped with a suitable double-throw switch for use when the power line fails. The switch transfers the load from the power line to the generator.

When the transfer switch is thrown to the "power line", the standby generator is not connected to either the load or the power line. When the switch is thrown to the "standby" side, the generator is connected to the load but the load is disconnected from the power line. Consequently, no electricity produced by the generator can feed back to the power line where it would be hazardous to line repairmen. (See Figure 2).

USE OF ELECTRIC MOTORS

Electric motors require MUCH MORE current (amperes) to start them than to run them. Some motors, particularly cheap SPLIT-PHASE motors are VERY hard to start and require 5 to 7 times as much current to start them as to run them. CAPACITOR motors are easier to start and usually require 2

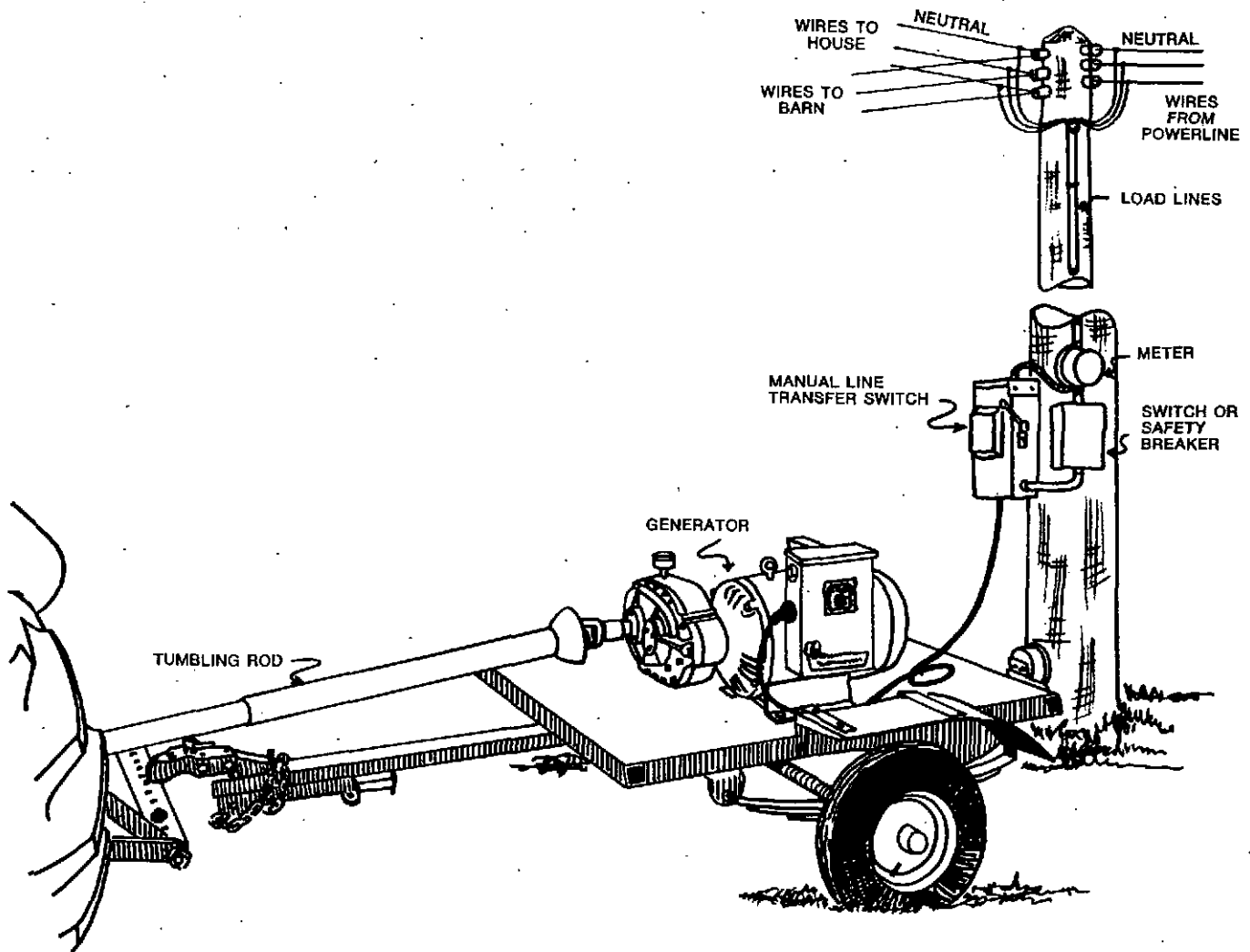


Figure 2

to 4 times as much current to start them as to run them. **REPULSION INDUCTION MOTORS** are the easiest to start and usually require $1\frac{1}{2}$ to $2\frac{1}{2}$ times as much to start them as to run them. Refer to the nameplate of the generator for the ampere rating of your unit.

Most fractional horsepower motors take about the same amount of current to run them whether they are of the Repulsion-Induction (RI), Capacitor (Cap.), or Split-Phase (SP) type. The chart below shows the approximate current required to start and run various types and sizes of 115 volt 60 cycle motors under average load conditions.

H. P.	RUNNING Amperes ALL TYPES	"STARTING" AMPERES		
		S.P.	Cap.	R.I.
1/6	3.2	16 to 22	6 to 13	5 to 8
1/4	4.5	22 to 32	9 to 18	7 to 12
1/3	5.2	26 to 35	10 to 21	8 to 17
1/2	7.2	Not Made	14 to 29	11 to 18
1	13	Not Made	26 to 52	20 to 33

The figures given above are for average load such as a blower or fan. If the electric motor is connected to a **HARD STARTING** load such as an air compressor, it will require **MORE** starting current. If it is connected to a **LIGHT LOAD**, or no load such as a power saw, it will require **LESS** starting current. The exact requirement will also vary with the brand or design of the motor.

For 230 volt motors the "running" current is half as much as shown for the 115 volt motors of the same size. Some dual voltage 115/230 volt motors are difficult to start on 230 volts when driven by engine-generators and can be started more easily when connected to operate on 115 volts. This is particularly true of "capacitor start—induction run" motors. Sometimes a 230 volt motor which cannot be started on the 230 volt circuit of a 115/230 volt generator can be started on a 115 volt circuit and then quickly switched to the 230 volt circuit after it is started. This can be done in applications where the motor is manually controlled and is started under "no load" conditions.

A self-excited generator responds differently to severe overloading than a transformer connected to a power line. To illustrate, suppose that a 230 volt 5 H.P. "Capacitor Start—Induction Run" motor is connected to a small transformer with a maximum rating of 2500 watts and then to a generator of 2500 watts capacity. The transformer would not be able to supply enough power to bring the motor up to operating speed but would be very severely overloaded and probably would burn out in a short time. The motor might also be damaged. When this motor is connected to a self-excited 2500 watt generator, its output voltage drops to practically zero. Also, the excitor voltage drops to practically zero. Thus, there is virtually no load on the generator or the engine, and no harm is done to either. Under these conditions the motor may revolve a few times when it is first turned on, and then stop.

On the other hand, suppose an electric motor that requires just a little more output than the generator can produce is connected to it. It will run but will not reach a high enough speed for the centrifugal switch to disconnect the starting winding. The generator output voltage, instead of being 115, may drop to 70 or 80 volts. Running the generator under these conditions may result in burning out the generator armature as well as the motor windings.

Because the heavy surge of current required for starting motors is required for only an instant, the generator will not be damaged if it can bring the motor up to speed in a few seconds of time. If difficulty is experienced in starting motors, turn off all other electrical loads and if possible reduce the load on the electric motor.

MAINTENANCE

Brushes—Check the brushes for wear after about 1000 hours of operation and every few hundred hours of operation thereafter. They should be replaced when worn down to $\frac{1}{8}$ inch. Whenever replacing brushes or removing them to do service work, remove one brush at a time and put the screws back into the brush holder to hold the lead wire terminals in place so there will be no difficulty in connecting the wires to the correct positions.

Slip Ring—A Slip Ring in good condition has a glossy finish and is brownish in color. If it gets greasy, rough or dirty, it may be cleaned with very fine sandpaper. (Do not use emery cloth).

Bearings—All ball bearings used in these generators are packed with grease before assembly—no further greasing is required. If they become rough or worn they should be replaced.

Oil Seal—If oil is dripping from the ventilating slots on the end bracket nearest the gear case, then the oil seal must be replaced. To replace this seal proceed as follows:

1. Drain oil by removing drain plug.
2. Remove the 3 nuts holding the gear case to the end bracket and slide the gear case off the 3 studs. Set the gear case aside.
3. Remove the $1\frac{1}{2}$ " hex nut, the lockwasher, pinion and key.
4. Remove the end cover, fan nut, and fan from the brush end of the generator.
5. Remove the 4 bolts holding the generator end bracket to the field shell; pry the end bracket loose and slide it off. Extreme care should be taken at this point so as not to pull the armature out along with the end bracket.
6. Remove the 3 machine screws on the inside of the end bracket and the retainer plate can be removed. The bearing will now drop out.
7. Pull out the bushing and punch out the old oil seal.
8. Lubricate the new oil seal and spacer with Lubriplate or cup grease and insert the seal and spacer with the leather lip of the seal toward the inside of the gear case.
9. Put in the bearing and retainer plate and reassemble the unit. Put oil back in the gear case.

Armature—In case it is necessary to remove the armature, proceed as follows:

1. Follow Steps 1-3 under Maintenance—Oil Seal.
2. Remove brushes as described under Maintenance—Brushes.
3. Slide armature out.

Gear Case Oil—Check the gear case oil level before each use and replenish as needed with Sunoco/DX XL80-90-140, Kendall Three Star 85W-140 or Amoco 85W-140. The oil should be changed every 6 months unless operating under adverse weather conditions. In the winter, moisture will condense in the gear case and in the summer there is the problem of dust and dirt so the oil must be changed more often.

LOCATING TROUBLE

If the generator does not operate properly, check the fuses. If the fuses are blown, replace the element with a new element provided with this generator. Check the conditions under which the generator has been operating and if necessary, make the electrical tests as outlined below:

1. Sometimes a generator won't produce electricity when it is started even though it was working satisfactorily when it was turned off. This is usually caused by inadequate contact between the brushes and slip rings and occurs most often on new generators or generators in which new brushes have been installed and not completely seated. Under certain conditions it can happen after the brushes are seated. The problem can easily be corrected by cleaning the slip ring surface with a brush seating stone or very fine sandpaper.

2. Is the speed correct? Check the speed with a tachometer or frequency meter. If the generator cannot be kept up to its rated capacity, the tractor is too small (it takes about 2.2 HP per 1000 watts of generated electrical power), is not working properly, or the governor is not sensitive enough to hold the speed constant over a wide load range. The speed of the generators can be checked easily with a tachometer by removing the cover from the end of the generator and applying the tachometer.

3. Is the generator overloaded? Check the nameplate for maximum safe load and if uncertain about the amount of load, check it with an ammeter and voltmeter.

4. Is the location satisfactory? See "Location" regarding sufficient ventilation if the generator is being operated in an enclosed area. If it is being operated under dusty or dirty conditions be sure all ventilation holes and slots are cleaned periodically.

5. Is the brush contact satisfactory? With the generator in operation, notice whether there is an appreciable arcing or sparking at the brushes. See the article on brushes under "Maintenance".

6. A voltmeter is used to indicate that the generator is producing electricity. If the voltmeter does not register, check the output with a light bulb or another meter before deciding that the generator is not performing as it should.

7. If no output is obtained at the outlet receptacles or output wires, disconnect all electrical loads and connect a voltmeter directly to the A.C. Brushes as shown in Figure 3. If no voltmeter is available, use any ordinary small 115 volt bulb or on 230 volt generators check each of the 115 volt circuits with the bulb.

If normal voltage is obtained at the A.C. Brushes but not at the output terminals, there must be an open circuit between these points.

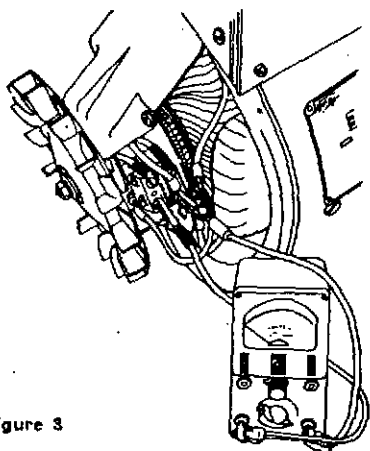
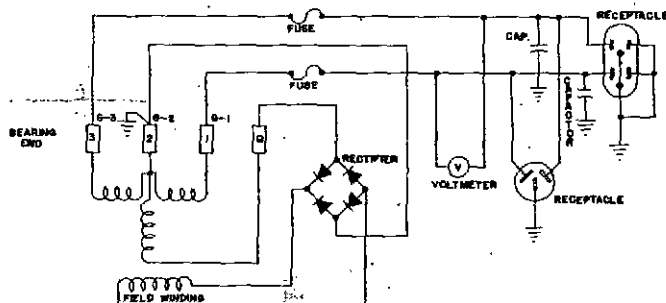


Figure 3

8. If no A.C. voltage is obtained at the A.C. Brushes, check the excitation voltage.

A. Electronic Excitation

On generators which include electronic excitation, check the voltage by measuring between the grounded brush and Q brush (refer to Figure 4). This should give a reading of approximately 120 volts A.C. The electronic excitation is accomplished by an extra coil wound on the armature at 90° from the A.C. coils. This is called a quadrature winding. One end of this winding is connected to the slip ring #2 which is grounded and the other end is connected to slip ring Q (the ring farthest from the bearing end of the generator).



ELECTRONIC EXCITATION

Figure 4

These two rings are connected to a bridge rectifier which changes the A. C. to D. C. The D. C. is then conducted to the shunt field and provides the excitation to the generator. If no A. C. voltage is obtained at the Q brush, disconnect one of the shunt field leads and one A. C. lead from the bridge rectifier, and using an ohmmeter, proceed to measure the resistance of two adjacent terminals of the bridge rectifier, with the leads from the ohmmeter first connected one way and then reversed. Connected one way, the ohmmeter should read an exceedingly high resistance, and reversed, a low resistance. Proceed around the terminals clockwise taking two at a time. If any diode does not check out correctly, replace the rectifier module. A possible reason for the rectifier failing is a grounded field. Check for this as in 9A.

A good check on the condition of the quadrature winding is to disconnect the shunt field from the rectifier and excite the field with a 12 volt car battery. With the unit running, measure the voltage between the Q ring brush and ground. This can be done by hooking leads from the battery terminals directly to the field wires. Obtaining a small A. C. voltage is a good indication that the Q winding is good.

9. Checking Field Coils

A. Disconnect the field leads and with an ohmmeter check each field coil terminal to the generator frame to be sure the coils are not grounded. If a high voltage insulation tester is available, check from the lead wires of the coil to the frame at 1100 volts. If a field coil shows a ground, it should be repaired or replaced.

B. Using an ohmmeter, check for continuity of the field coils by hooking the ohmmeter leads to the field coil leads. If an open exists, examine the connection between the field coils and the connection from the winding of the field coils to the lead wires. Repair the open or replace the field coil as required.

10. A. One side of the A.C. circuit is "grounded" to the generator frame. The other side is said to be "live" or "hot". Any short-circuit between the "hot" side of either circuit and any metal part of the generator will result in a grounded condition which prevents the generator from producing electricity. Carefully inspect all "hot" wires and terminals for evidence of a grounded condition.

B. There are 2 A.C. filter capacitors located in the control box or on the brush rack. If either of these capacitors become shorted, it will short out the A.C. of the generator. The capacitor should be disconnected and the lead wire insulated, however, the generator can be used until a replacement capacitor is obtained. These capacitors are to reduce radio interference.

11. If these tests have not located the trouble, re-move the armature and have it tested for opens, shorts, and grounds on a growler (see Figure 5).

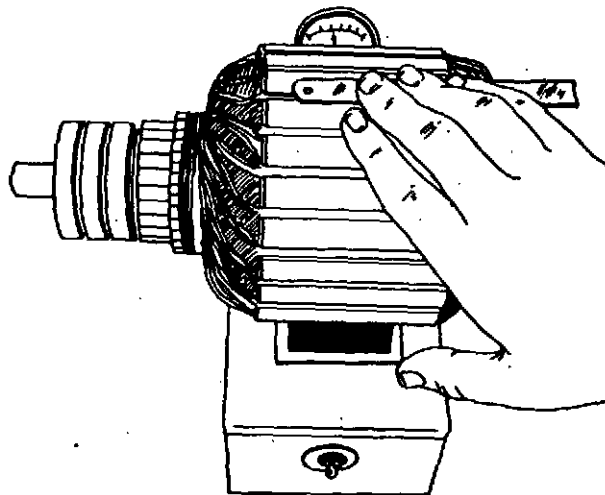
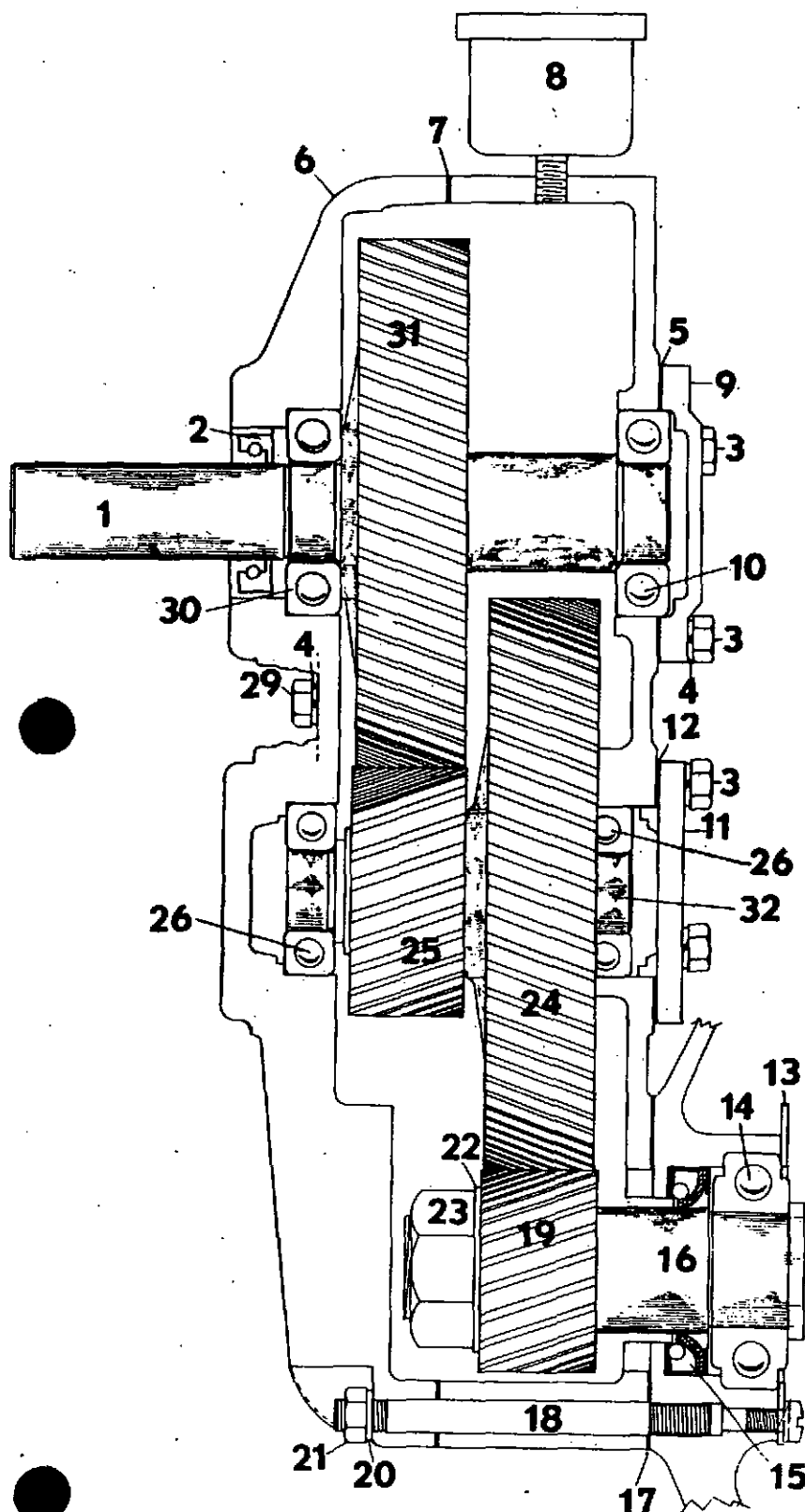


Figure 5

GEAR CASE FOR TRACTOR DRIVEN PTO GENERATORS MODELS ENDING IN C & D



Ref. No.	Part No.	DESCRIPTION	Quantity
1	46296	Shaft	1
2	20029	Oil Seal	1
3	465	Cap Screw 5/16 - 18 x 7/8	10
4	480	Lockwasher 5/16"	18
5	46299	Gasket	1
6	54662	Gear Case & Cover	1
7	20016	Gasket	1
8	40716	Breather	1
9	46295	Bearing Retainer	1
10	54666	Bearing	1
11	46286	Bearing Retainer	1
12	46298	Gasket	1
13	44318	Retainer Plate	1
14	46913	Bearing	1
15	46912	Oil Seal	1
16	20137	Bushing	1
17	20136	Gasket	1
18	20017	Stud	3
19	46545	Pinion	1
20	630	Lockwasher	3
21	459	Hex Nut 3/8"	3
22	20139	Lockwasher	1
23	20160	Hex Jam Nut	1
24	46546	Gear	1
25	46547	Pinion	1
26	54665	Bearing	2
29	580	Cap Screw 5/16 - 18 x 1 1/4	12
30	54666	Bearing	1
31	46548	Gear	1
32	20128	Shaft	1
*	40965	1 Qt. Gear Oil	1
*	1774	Woodruff Key #15 (1/4 x 1")	4

* Not shown on drawing.

PARTS MANUAL LOCATOR

- SECTION I - Complete Index - Detailed
- SECTION II - Parts Lists - Direct Drive and Two Bearing
Generators
- SECTION III - Parts Lists - Emergency Power Packages
(Package Standby Units)
- SECTION IV - Parts Lists - Tractor Driven Generators
(PTO Units)
- SECTION V - Master Parts Price List

SECTION II - PARTS LISTS - DIRECT DRIVE AND TWO BEARING GENERATORS

NOTE: Parts lists are indexed according to wattage size. Some parts lists cover two or more models. These are indexed and located by smallest model ONLY.

<u>MODEL #</u>	<u>REPAIR PARTS LIST #</u>	<u>FORM #</u>
1FS2PC-1/A & 2FS2PC-1/A		121
P1TH-1M/B	533	
P101BS-1M/A	466	
P102BH-1M/A, P107BH-1M/A & P205BH-1M/A		120
P105TH-1M/A & P109BH-1M/A		130
106B10S2D-1M21/A & 108BH-1M/A		109
C109BH-1M/A	468	
P2BS-1M/A & P2BS-1E/A		122
2KS4PC-1/A	467	
FD202BH-1E/A	493	
R202BH-1E/A		123
C202WRH-1M/B	469	
P202WRH-1M/B	490	
205BH-1M/A		116
C205BH-1M/B	484	
P205BH-1M/B	532	
R205BH-1M/B	497	
PR205BH-1M/B	496	
205BH-3M/A		118
207KS4PC-1/A	476	
207KS4PC-3/A	473	

SECTION II - PARTS LISTS - DIRECT DRIVE AND TWO BEARING GENERATORS

NOTE: Parts lists are indexed according to wattage size. Some parts lists cover two or more models. These are indexed and located by smallest model ONLY.

<u>MODEL #</u>	<u>REPAIR PARTS LIST #</u>	<u>FORM #</u>
P208BS-1M/A	548	
P208BS-3E/A	551	
P208BS-3M/A	552	
3BH-FE/A		110
3BH-FM/A		111
3IB143S2D-FE21/A		103
3IB143S2D-FM21/A		101
3WH-FE/A		112
3WH-FM/A		113
3WS7D2D-FE22/A		104
3WS7D2D-FM22/A		102
305BH-1M/A		117
305BH-3M/A		119
305BH-FE/I	470	
305BH-FM/I	516	
305BH-FR/I	478	
305LDS-1E/A	505	
305LDS-3E/A	507	
305WH-FM/J	471	
FD305BH-1E/I	502	
FD305BH-FE/I	498	

SECTION II - PARTS LISTS - DIRECT DRIVE AND TWO BEARING GENERATORS

NOTE: Parts lists are indexed according to wattage size. Some parts lists cover two or more models. These are indexed and located by smallest model ONLY.

<u>MODEL #</u>	<u>REPAIR PARTS LIST #</u>	<u>FORM #</u>
P305BH-3E/B	531	
P305BH-3M/B	530	
P307BH-1E/A	526	
P307BH-1M/A	475	
P307BH-3E/C	528	
P307BH-3M/C	527	
307KS2PC-1/A	500	
307KS2PC-3/A	540	
4BH-6M/B	569	
4BH-7M/B	519	
4BH-FE/A		114
4BH-FM/A		116
4KS4PC-3/A	529	
4PDS-1E/A	506	
4PDS-3E/A	508	
4WH-6M/B	522	
4WH-7M/B	521	
4WH-FE/A		115
4WH-FM/A		107
P4WS-1M/A	474	
P4WS-3M/A & P4WS-3E/A		124
P4WS-3R/A	536	

SECTION II - PARTS LISTS - DIRECT DRIVE AND TWO BEARING GENERATORS

NOTE: Parts lists are indexed according to wattage size. Some parts lists cover two or more models. These are indexed and located by smallest model ONLY.

<u>MODEL #</u>	<u>REPAIR PARTS LIST #</u>	<u>FORM #</u>
403WH-FM/F	492	
405BH-FE/F	486	
405BH-FM/F	488	
FD405BH-FE/F	487	
5BH-6M/A	517	
5BH-7M/A	518	
5KS4GC-1/A	479	
5KS4GC-3/B	541	
5KS6GC-6/A	520	
5KS6GC-7/A	523	
P503BH-3E/A	542	
P503BH-3E/C	568	
P503BH-3M/A	535	
503KS2PC-3/B	491	
6PDS-3E/B	555	
FD6WH-FE/A	537	
6WH-FM/A		108
6WS-3E/B		126
6WS-3R/A	485	
7LDS-3E/A	511	
7LDS-3E/B	514	

SECTION II - PARTS LISTS - DIRECT DRIVE AND TWO BEARING GENERATORS

NOTE: Parts lists are indexed according to wattage size. Some parts lists cover two or more models. These are indexed and located by smallest model ONLY.

<u>MODEL #</u>	<u>REPAIR PARTS LIST #</u>	<u>FORM #</u>
7WH-3E/B	483	
7WH-3R/A	495	
7WH-5R/A	494	
FD7WH-FE/A	472	
P703WH-3E/A	539	
8LDS-3E/B	515	
10KS4G-3/B	545	
10KS4GC-3/B	477	
10WH-3E/A	482	
P10WH-3E/A	538	
P10WH-3R/ANG	543	
P10WH-5R/ANG	544	
10WS-3R/A	534	
1005LDS-3E/A	509	
1005LDS-4E/A	503	
1005LDS-17E/A	524	
12KS2GC-3/C		127
1205KS4G-3/A	480	
1205KS4GC-3/A	489	
1205LDS-3E/A	510	
1205LDS-4E/A	504	
1205LDS-17E/A	525	

SECTION II - PARTS LISTS - DIRECT DRIVE AND TWO BEARING
GENERATORS

NOTE: Parts lists are indexed according to wattage size.
Some parts lists cover two or more models. These
are indexed and located by smallest model ONLY.

<u>MODEL #</u>	<u>REPAIR PARTS LIST #</u>	<u>FORM #</u>
1205PDS-3E/B	554	
1205PDS-4E/B	553	
1205PDS-17E/B	513	
1205WS-3EP/D	572	
1205WS-4EP/D	570	
1205WS-17EP/D	571	
1205WS-3R/A	550	
1205WS-4R/A	549	
1205WS-17R/B	512	
15KS2GC-3/A	481	
15KS2GS-517/A	499	
15WH-3R/C	547	
15WH-4R/C	546	
15WH-17R/A	501	

SECTION III - PARTS LISTS - EMERGENCY POWER PACKAGES
(PACKAGE STANDBY UNITS)

NOTE: Parts lists are indexed according to wattage size.
Some parts lists cover two or more models. These
are indexed and located by smallest model ONLY.

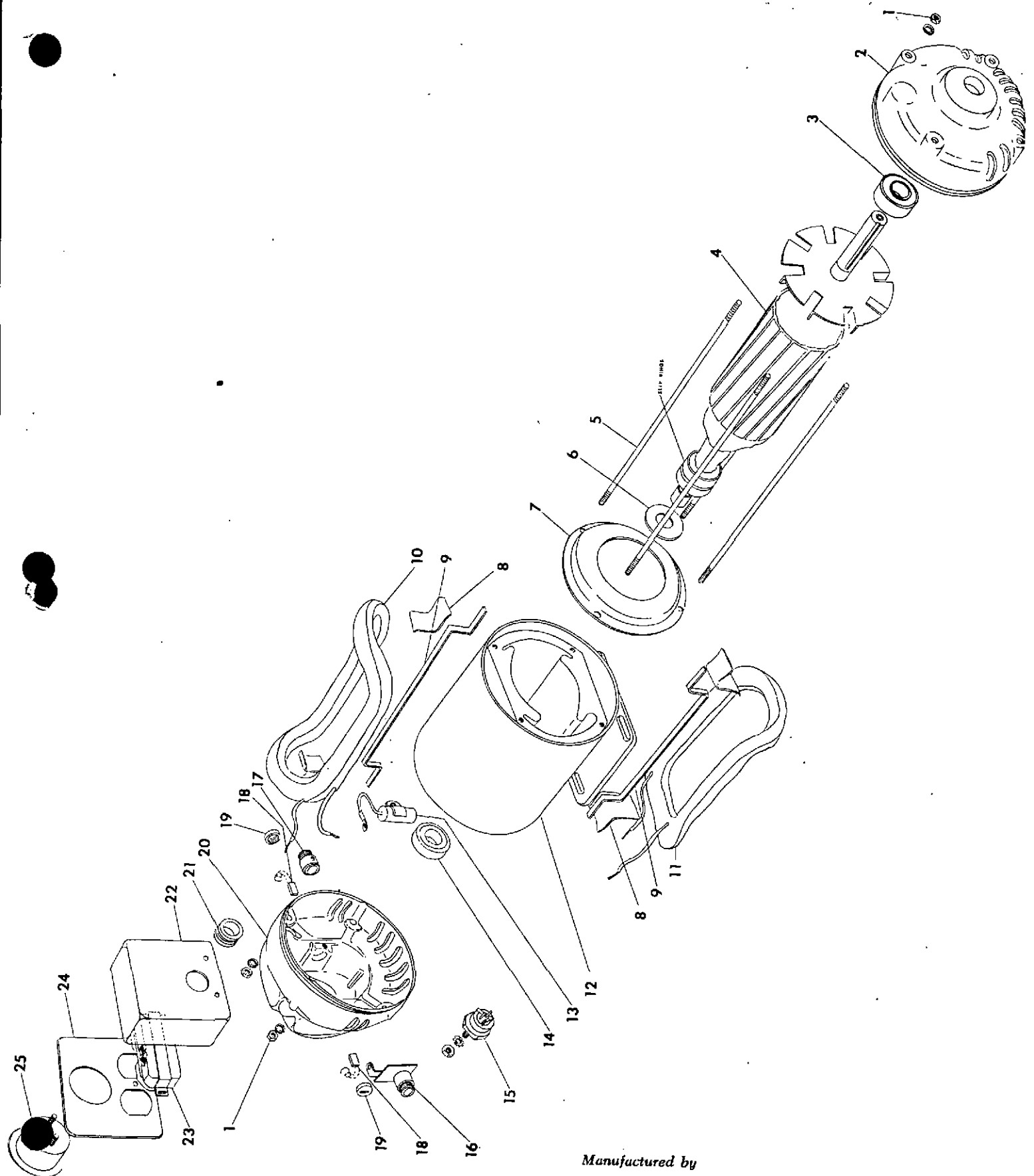
<u>MODEL #</u>	<u>REPAIR PARTS LIST #</u>	<u>FORM #</u>
PS5BH-3R/A & PS7WH-3R/A (NG or LP)		125
PS10WH-3R/B (NG or LP)		

SECTION IV - PARTS LISTS - TRACTOR DRIVEN GENERATORS (PTOs)

NOTE: Parts lists are indexed according to wattage size.
Some parts lists cover two or more models. These
are indexed and located by smallest model ONLY.

<u>MODEL #</u>	<u>REPAIR PARTS LIST #</u>	<u>FORM #</u>
P15PTOF-3/D		128R
20PTOF-3/C		131
15 & 20 PTO Gear Case		121
25PTOC-3/A		129
30PTOC-3/A	574	
30PTOC-3/B	575	
35PTOC-4/A	576	
35PTOC-17/A	577	

WINCO GENERATOR PLANT
MODELS 1FS2PC-1/A and 2FS2PC-1/A

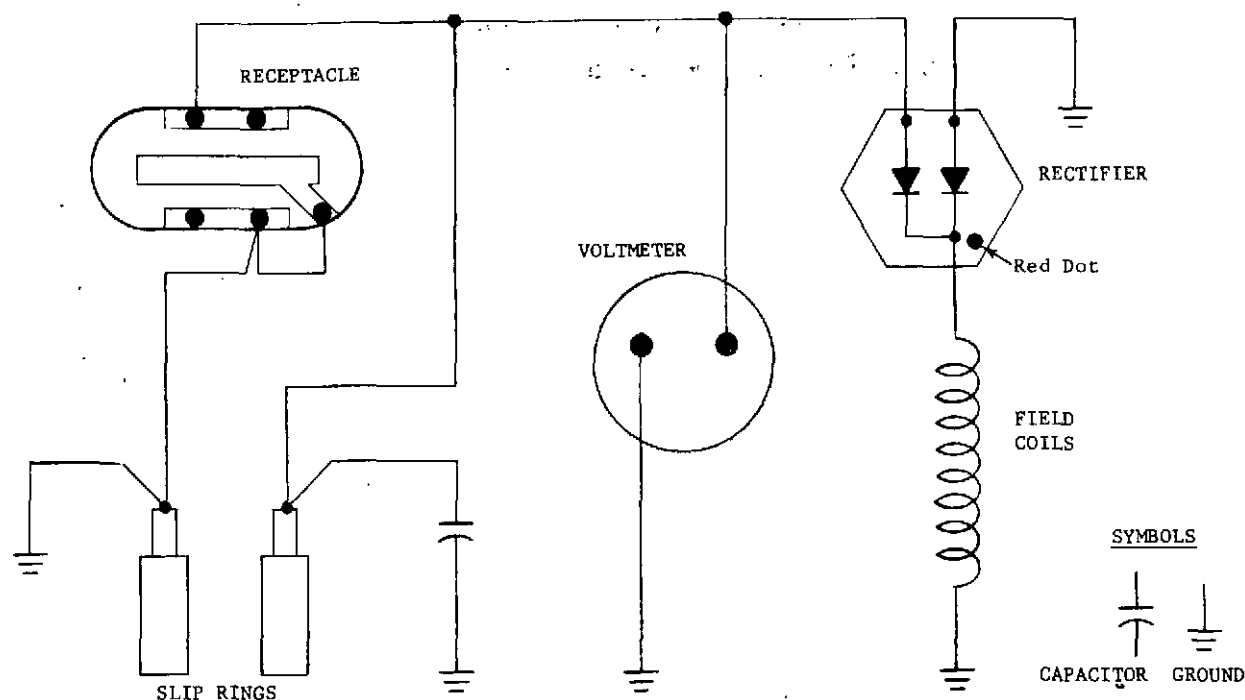


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102



PARTS LIST

1FS2PC-1/A

Ref. No.	Description	Part No.	Qty.	Ref. No.	Description	Part No.	Qty.
1	Hex nut	6372	8	13	Condenser	41221	1
2	End bracket	8929	1	14	Bearing	6211	1
3	Bearing	46911	1	15	Rectifier assy.	54631	1
4	Armature	54630-1	1	16	Brush holder & lug assy.	20509	1
5	Thru bolt	20262	4	17	Brush holder	54633	1
6	Oil slinger	7227	1	18	Brush assembly	20510	2
7	Fan baffle	7924	1	19	Brush holder cap	25099	2
8	Anchor strip insulation	7927	4	20	End bracket	54629	1
9	Anchor strip	20557	2	21	Grommet	21418	1
10	Top field coil	54646	1	22	Receptacle box	56046	1
11	Bottom field coil	54646-1	1	23	Receptacle	24749	1
12	Field shell & base assy.	54712	1	24	Cover plate	56614	1
				25	Voltmeter	20983	1

2FS2PC-1/A

Ref. No.	Description	Part No.	Qty.	Ref. No.	Description	Part No.	Qty.
1	Hex Nut	6372	8	13	Condenser	41221	1
2	End bracket	8929	1	14	Bearing	6211	1
3	Bearing	46911	1	15	Rectifier assy.	53646	1
4	Armature	54628-1	1	16	Brush holder & lug assy.	20509	1
5	Thru bolt	20556	4	17	Brush holder	54633	1
6	Oil slinger	7227	1	18	Brush assy.	20510	2
7	Fan baffle	7924	1	19	Brush holder cap	25099	2
8	Anchor strip insulation	7927	4	20	End bracket	54629	1
9	Anchor strip	20557	2	21	Grommet	21418	1
10	Top field coil	54643	1	22	Receptacle box	56046	1
11	Bottom field coil	54643-1	1	23	Receptacle	24749	1
12	Field shell & base assy.	54713	1	24	Cover plate	56614	1
				25	Voltmeter	20983	1

Wiring Diagram C55308
Schematic N/A
Generator Parts
Unassembled C55308
Complete Unit
Part # C55305

* REPAIR *
* PARTS LIST *
* #533 *

Size 1000 Watts
Drive Direct
Type Two Pole
Unit Model # P1TH-1M/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55268-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-4	1
Fan Assy.	54967	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55263	1
Field Coil	55263-1	1
Shell & Bracket Assy.	53627	1
Pole Shoe	55265	2
Pole Shoe Retainer	55267	2
Engine Adaptor Bracket	55093	1
Adaptor Bracket Screw	55576	4
End Cover Assy.	55281	1
End Cover Receptacle	53636	2
Brush Rack Assy. (Complete)	55264	1
A. C. Brush	23607	2
A. C. Brush Holder	23500	2
Brush Holder Plate	55091	1
A. C. Condenser	54977	1
Rectifier (Excitation)	55441	1
Spring Feet	55096	4
Handle	53583	1

ENGINE MAKE Tecumseh MODEL # H-25 PART # 54409

Wiring Diagram 55295
Schematic N/A
Generator Parts
Unassembled 55295
Complete Unit
Part # 55294

* REPAIR *
* PARTS LIST *
* #466 *

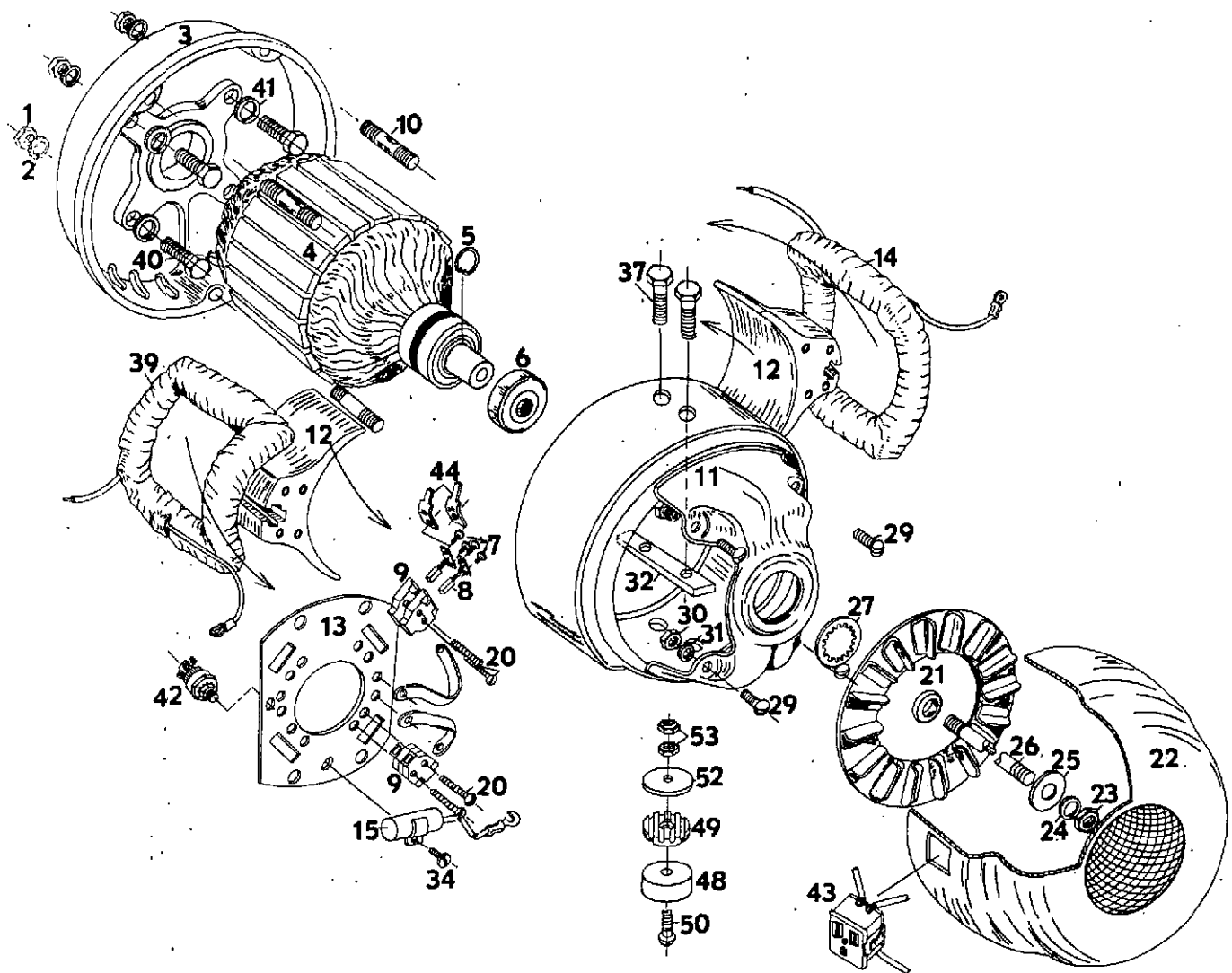
Size 1100 Watts
Drive Direct
Type Four Pole
Unit Model # P101BS-1M/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55151-1	1
Armature Thru Bolt	23197-4	1
Fan Assy.	54967	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55156	1
Field Coil	55156-1	1
Field Coil	55156-2	1
Field Coil	55156-3	1
Shell & Bracket Assy.	55155	1
Pole Shoe	55300	4
Pole Shoe Retainer	55154	4
Eng. Adaptor Bracket	43887	1
Adaptor Bracket Screw	53645	4
End Cover Assy.	55281	1
End Cover Receptacle	53636	2
Brush Rack Assy. (Complete)	55092	1
A. C. Brush	23607	4
A. C. Brush Holder	23500	4
Brush Holder		
Plate Assy.	55091	1
A. C. Condenser	54977	1
Rectifier (Excitation)	54976	1
Base	54198	1
Shock Mounts	20191	3
Handle	53583	1

ENGINE MAKE Briggs & Stratton MODEL # 130232 PART # 53655

WINCO GENERATOR PLANT

MODELS P102BH-1M, P107BH-1M and P205BH-1M

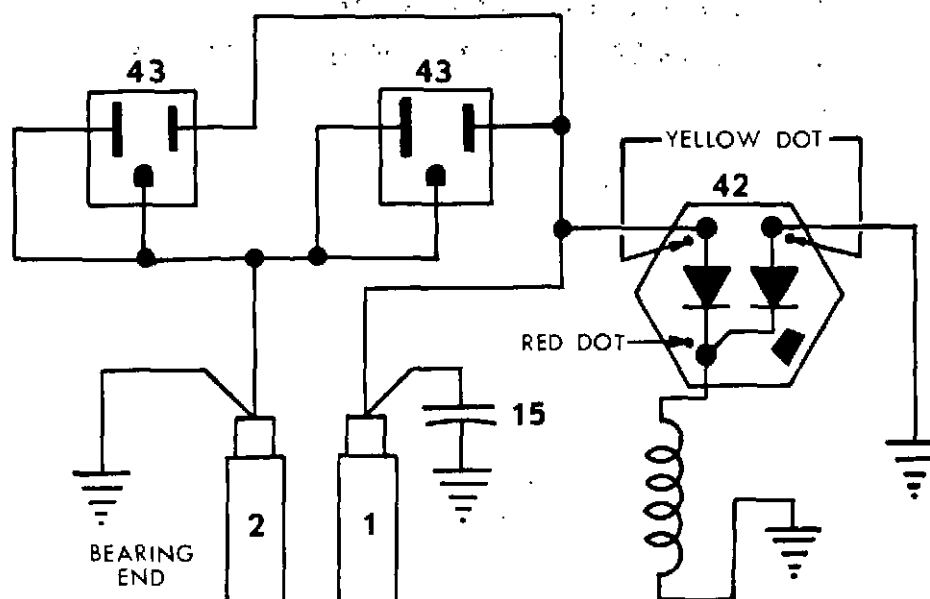


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA - 51102

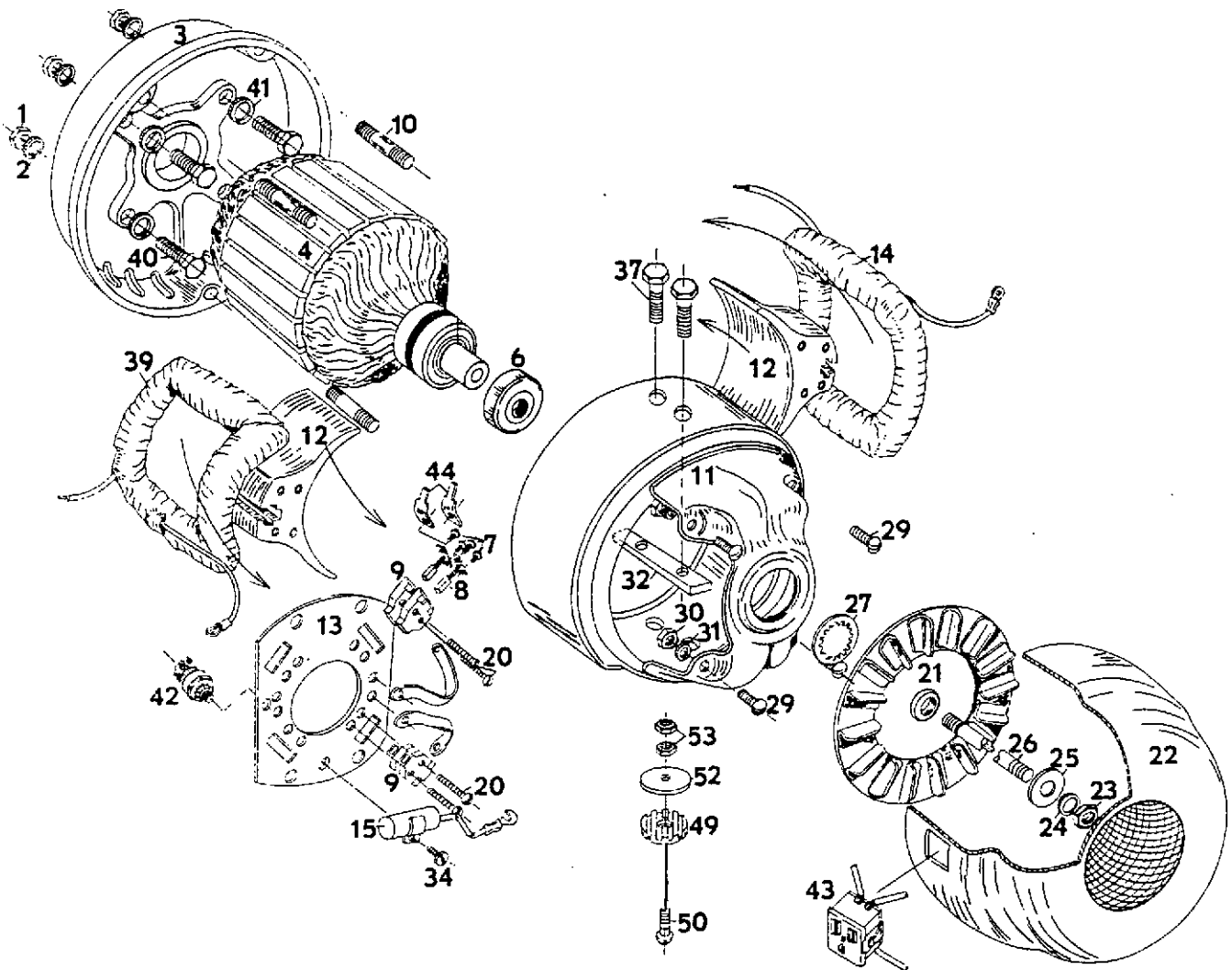


PARTS LIST

Ref. No.	Description	Model P102BH-1M/A Qty.	Model P107BH-1M/A Qty.	Model P205BH-1M/A Qty.
1	Field Shell Stud Nut (1/4 - 20)-----	638 3	638 3	638 3
2	Stud Nut Lockwasher (1/4")-----	479 3	479 3	479 3
3	End Bracket -----	43887 1	43887 1	43887 1
4	Armature -----	53628-1 1	53579-1 1	53617-1 1
5	Bearing Retaining Ring -----	23568 1	23568 1	23568 1
6	Bearing -----	46911 1	46911 1	46911 1
7	Screw - Brush (#8-32x5/16")-----	40746 4	40746 8	40746 8
8	Brush -----	23607 2	23607 4	23607 4
9	Brush Holder -----	23500 2	23500 4	23500 4
10	Field Shell Stud -----	23817 3	23817 3	23817 3
11	Field Shell & Bracket -----	53627 1	53580 1	53614 1
12	Pole Shoe -----	23804 2	23806 2	53612 2
13	Brush Rack -----	53698 1	53698 1	53698 1
14	Field Coil Top -----	53676-1 1	53639-1 1	53615-1 1
15	A. C. Condenser -----	41221 1	41221 1	41221 1
20	Machine Screw Brush Holder (#8-32x1 5/16")-----	23598 2	23598 4	23598 4
21	Fan -----	23727 1	23727 1	23727 1
22	End Cover -----	53637 1	53637 1	53637 1
23	Armature Nut (5/16 - 24) -----	23605 1	23605 1	23605 1
24	Armature Lockwasher (5/16") -----	480 1	480 1	480 1
25	Armature Flat Washer -----	23558 1	23558 1	23558 1
26	Armature Thru Bolt -----	23197-6 1	23197-11 1	23197-10 1
27	Fan Lockwasher -----	40552 1	40552 1	40552 1
29	Screw—Brush Rack Mounting (#10-24x3/4")-----	420 4	420 4	420 4
30	Hex Nut—Brush Rack (#10-24) -----	456 4	456 4	456 4
31	Lockwasher (#10) -----	484 4	484 4	484 4
32	Pole Shoe Retainer -----	53629 2	53577 2	53613 2
34	Machine Screw (#8-32x3/8") -----	6402 2	6402 2	6402 2
37	Pole Shoe Screw -----	1743 2	1743 4	1743 4
39	Field Coil—Bottom -----	53676 1	53639 1	53615 1
40	Cap Screw (5/16"-24x1 1/8") -----	53645 4	53645 4	53645 4
41	Lockwasher (5/16") -----	480 4	480 4	480 4
42	Rectifier -----	53646 1	53646 1	53646 1
43	Receptacle -----	53636 2	53636 2	53636 2
44	Terminal Connector -----	53643 2	53643 2	53643 2
48	Rubber Foot -----	20191 3	20191 3	20191 3
49	Shock Mount -----	47509 3	47509 3	47509 3
50	Machine Screw (1/4-20x1 1/2") -----	639 2	639 2	639 2
52	Flat Washer -----	2586-2 1	2586-2 1	2586-2 1
53	Hex Nut -----	638 2	638 2	638 2

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WINCO GENERATOR PLANT
 MODELS P105TH-1M/A and P109BH-1M/A

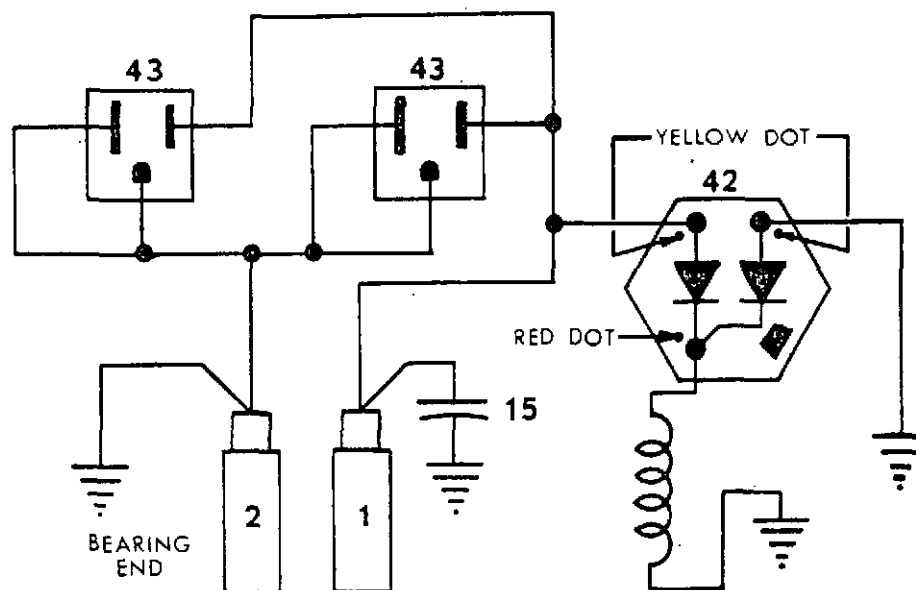


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

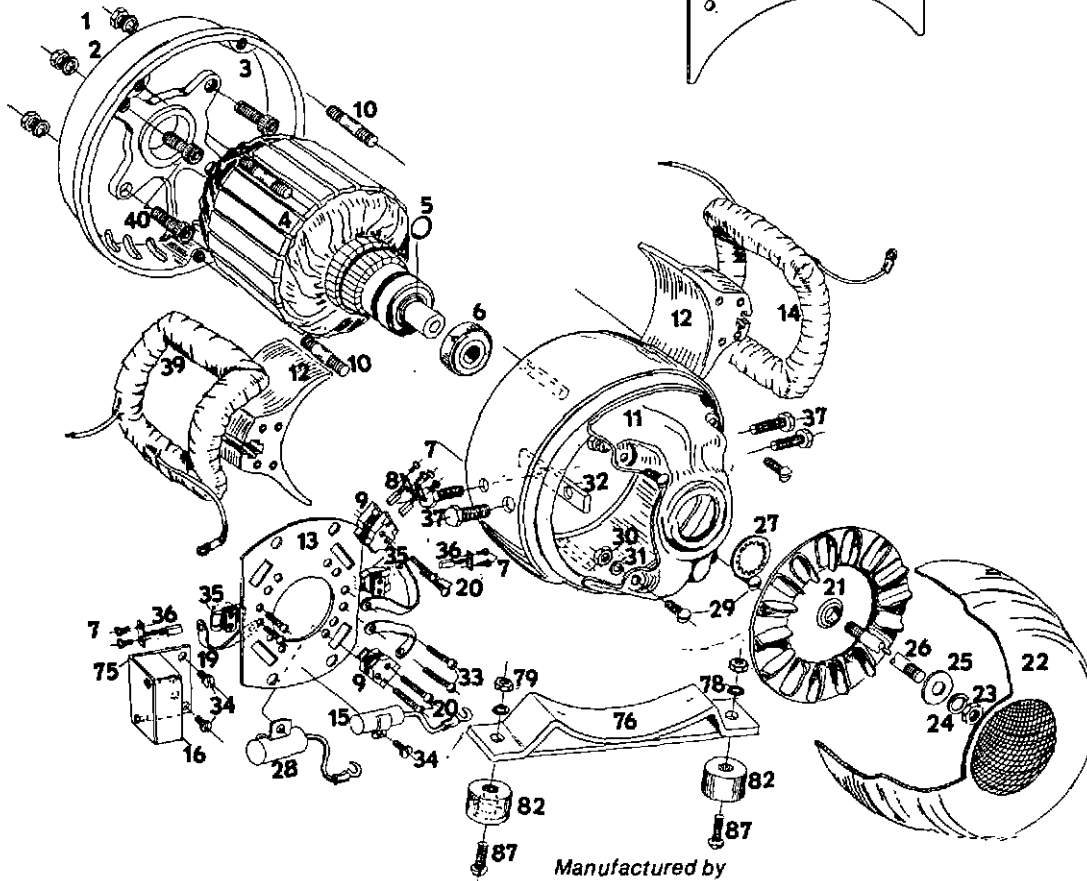
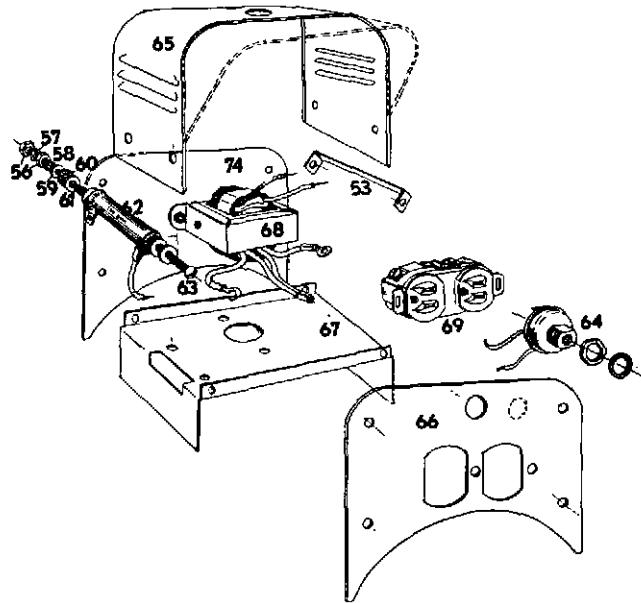
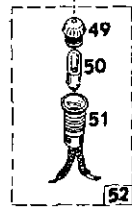
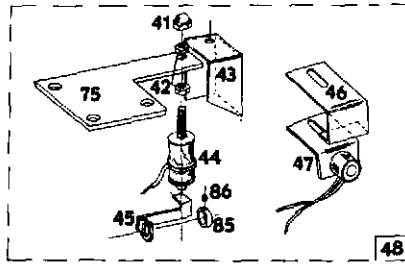


PARTS LIST

Ref. No.	Description	Model P105TH-1M/A	Qty.	Model P109BH-1M/A	Qty.
1	Field Shell Stud Nut	638	3	638	3
2	Stud Nut Lockwasher	479	3	479	3
3	End Bracket	55043	1	43887	1
4	Armature	55090-1	1	55275-1	1
6	Bearing	55223	1	55223	1
7	Screw - Brush	40746	8	40746	8
8	Brush	23607	4	23607	4
9	Brush Holder	23500	4	23500	4
10	Field Shell Stud	23817	3	23817	3
11	Field Shell & Bracket	53627	1	53580	1
12	Pole Shoe	23804	2	23806	2
13	Brush Rack	55091	1	55091	1
14	Field Coil Top	55284-1	1	53639-1	1
15	A. C. Condenser	54977	1	54977	1
20	Machine Screw Brush Holder	23598	4	23598	4
21	Fan	54976	1	54976	1
22	End Cover	55304	1	55304	1
23	Armature Nut	23605	1	23605	1
24	Armature Lockwasher	480	5	480	5
25	Armature Flat Washer	23558	1	23558	1
26	Armature Thru Bolt	23197-4	1	23197-5	1
27	Fan Lockwasher	55224	1	55224	1
29	Screw - Brush Rack Mounting	420	3	420	3
30	Hex Nut - Brush Rack	456	4	456	4
31	Lockwasher	22423	4	22423	4
32	Pole Shoe Retainer	53629	2	53577	2
34	Machine Screw	6402	1	6402	1
37	Pole Shoe Screw	1743	2	1743	2
39	Field Coil Bottom	55284	1	53639	1
40	Cap Screw	55576	4	55576	4
41	Lockwasher	480	5	480	5
42	Rectifier	54976	1	54976	1
43	Receptacle	53636	2	53636	2
44	Terminal Connector	53643	1	53643	1
49	Spring Mount	55096	4	55096	4
50	Machine Screw	42482	4	42482	4
52	Lock Washer	480	6	480	6
53	Hex Nut	458	6	458	6

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

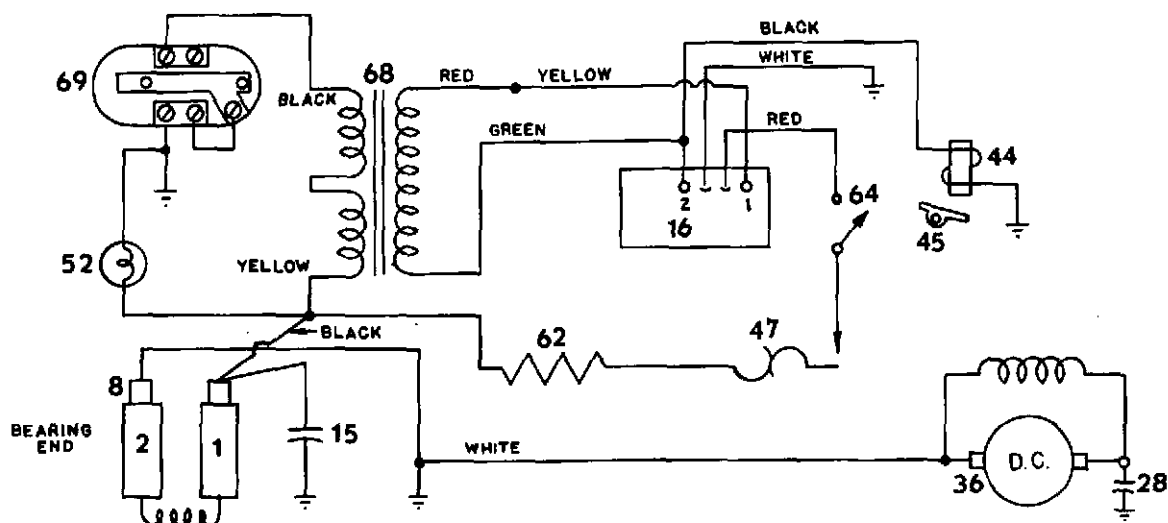
WINCO GENERATOR PLANT MODELS 108BH-1M AND 106B10S2D-1M21-A



Manufactured by

WINCO

Division of Dyna Technology, Inc.



PARTS LIST

NOTE: Part numbers listed apply to both models except when a second part number is shown in parenthesis. The number in parenthesis is for the Model 106B10S2D-1M21-A.

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	638	Field Shell Stud Nut (1/4 - 20)	3	39	51672	Field Coil	1
2	479	Stud Nut Lockwasher (1/4")	3	40	40082	Allen Screw	4
3	23720	End Bracket	1	41	44948	Acorn Nut (5/16-24)	1
4	51671-1	Armature	1	42	44894	Hex Jam Nut (5/16-24)	2
	(49535-1)	Armature	1	43	44891	Cover	1
5	23568	Bearing Retaining Ring	1	44	44889	Electro Magnet	1
6	4783	Bearing	1	45	49443	Bracket—Throttle Lever	1
7	40746	Screw - Brush (#8-32x5/16")	12	46	49523	Bracket—Cover Thermostat	1
8	23607	A. C. Brush	4	47	49525	Thermostat	1
9	23500	Brush Holder - A.C.	4	48	49526	Bracket & Magnet Assembly Complete	1
10	23817	Field Shell Stud	3	49	43341-1	Dome Only	1
11	23798	Field Shell & Bracket	1	50	43358	Bulb	1
12	23806	Pole Shoe	2	51	43341	Socket & Dome	1
13	23415	Brush Rack	1	52	43340	Socket Assembly	1
14	51672-1	Field Coil	1	53	24087	Brave—Control Box	1
15	41221	A. C. Condenser	1	56	456	Hex Nut (#10-24)	2
16	48574	Module for Converter	1	57	21976	Lockwasher #10 Ext.	1
19	49506	Bracket - Module	1	58	484	Lockwasher #10	1
20	23598	Machine Screw—Brush Holders (8-32x1 5/16")	4	59	598	Flatwasher #10	1
21	23727	Fan	1	60	266	Fiber Washer	2
22	23815	End Cover	1	61	1376	Shoulder Washer	2
23	23605	Armature Nut (5/16-24)	1	62	48583	Resistor	1
24	480	Armature Lockwasher (5/16")	1	63	25394	Thru Bolt	1
25	23558	Armature Flat Washer	1	64	44022	Switch	1
26	23197-10	Armature Thru Bolt	1	65	48561	Box Cover	1
27	40552	Fan Lockwasher	1		(43487)	Box Cover	1
28	41180	D. C. Condenser	1	66	51674-1	Front Panel	1
29	4637	Screw—Brush Rack Mounting (#10-24x3/8")	4		(44933-3)	Front Panel	1
30	456	Nut—Brush Rack Mounting (#10-24)	4	67	24122-1	Saddle	1
31	484	Lockwasher—Brush Rack Mounting (#10)	4	68	40450	Transformer	1
32	23807	Pole Shoe Retainer	2	69	24749	Receptacle 115 Volt Duplex	1
33	23599	Machine Screw—Brush Holder (D.C.) (#8-32x1")	4	74	49527	Rear Cover	1
34	6402	Machine Screw (8-32x3/8")	3	75	49444	Bracket—Electro Magnet	1
35	23500-1	D. C. Brush Holder	2	76	42832	Generator Support Bracket	1
36	24108	D. C. Brush	2	78	480	Lockwasher 5/16	2
37	1743	Pole Shoe Screw (Hex 3/8-16x1 1/2")	4	79	458	Hex Nut 5/16-18	8
				82	20191	Rubber Foot (Without Cradle)	4
				85	49503	Collar	1
				86	6394	Set Screw	1
				87	42382	Machine Screw (5/16-18x1")	2

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

Wiring Diagram 56310
 Schematic N/A
 Generator Parts
 Unassembled 56588
 Complete Unit
 Part # 56824

 REPAIR
 PARTS LIST
 #468

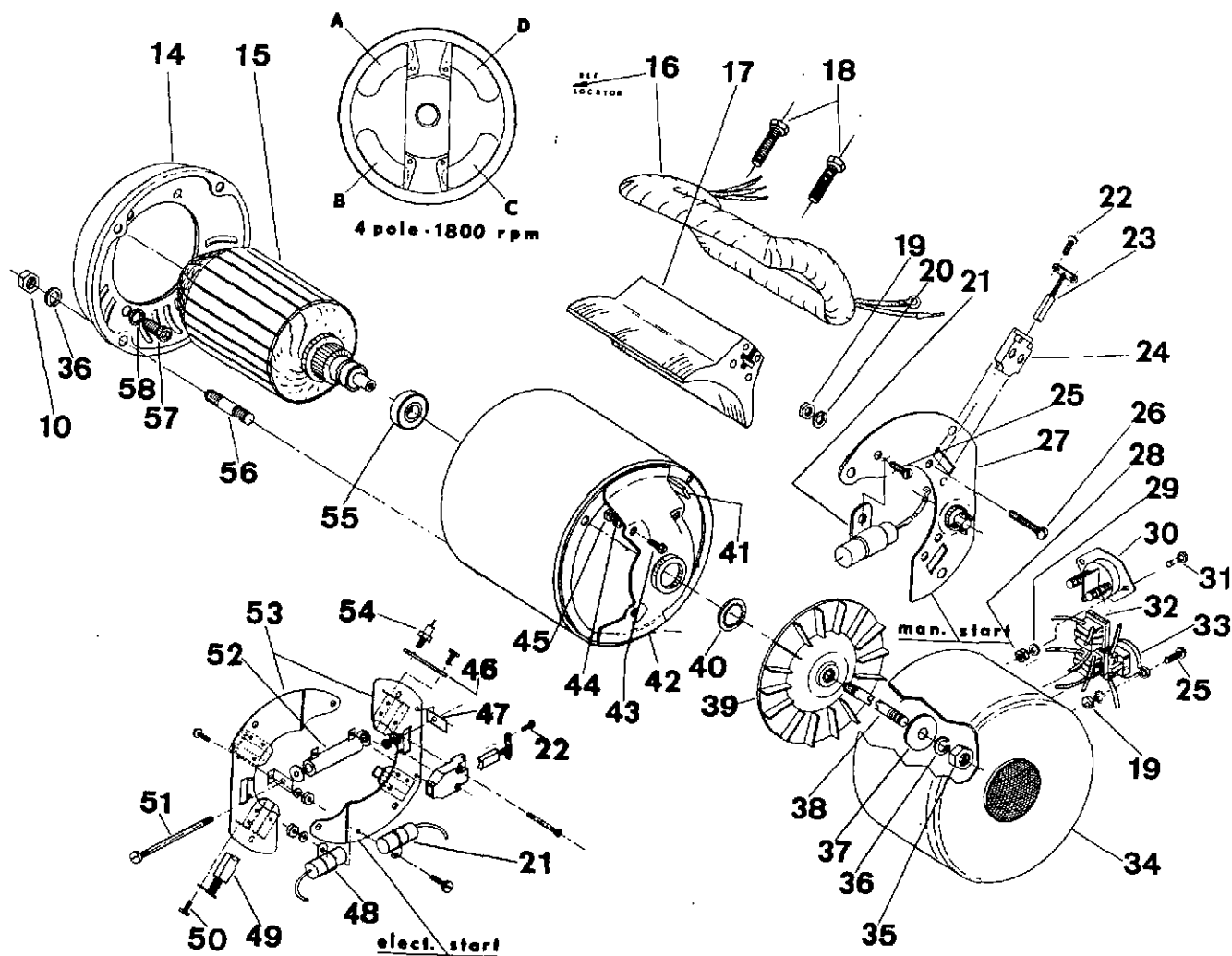
Size 1900 Watts
 Drive Direct
 Type Two Pole
 Unit Model # C109BH-1M/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55275-1	1	Control Box Assy.	56319	1
Armature Bearing	55223	1	Cover Assy.	56335	1
Armature Thru Bolt	23197-5	1	Front Panel (Bare)	51674-1	1
			Rear Panel (Bare)	49527	1
Fan Assy.	54967	1	Receptacle (115)	24749	1
Fan Washer	23558	1			
Fan Lockwasher	55224	1	Conserver Assy.		
Fan Nut	23605	1	(Complete)	56320	1
			Module	56314	1
Field Coil	53639A	1	Transformer	40450	1
Field Coil	53639-1A	1	Electro Magnet	44889	1
			Formed Bracket	49444	1
Shell & Brkt. Assy.	53580	1	Lever (Throttle)	49443	1
Pole Shoe	23806	2	Resistor	52641	1
Retainer Bar	53577	2	Switch	24238	1
Engine Adaptor Brkt.	43887	1	Collar	49503	1
Adaptor Brkt. Screw	55576	4			
End Cover Assy.	56312	1			
Brush Rack Assy.					
(Complete)	55092	1			
A. C. Brush	23607	4			
A. C. Brush Holder	23500	4			
Brush Holder					
Plate Assy.	55091	1			
A. C. Condenser	54977	1			
Rectifier (Exc.)	54976	1			
Cradle	54770	1			
Shock Mounts	20191	3			

ENGINE MAKE Briggs & Stratton MODEL # 100232 PART # 49453

WINCO GENERATOR PLANT

Models P2BS-1M/A and P2BS-1E/A

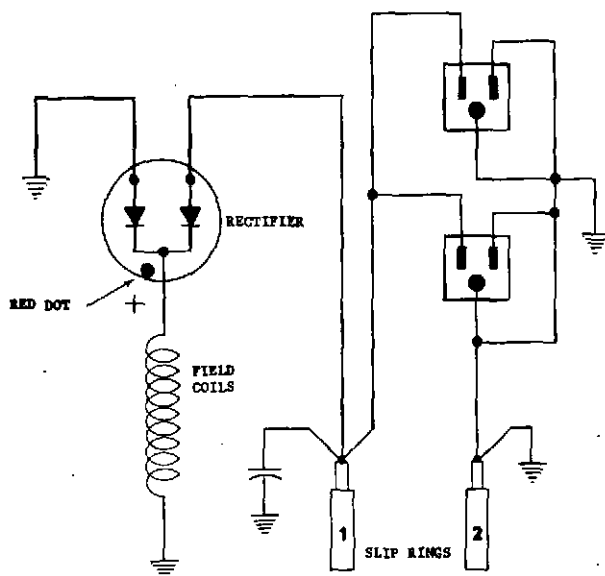


RPL NO. 588

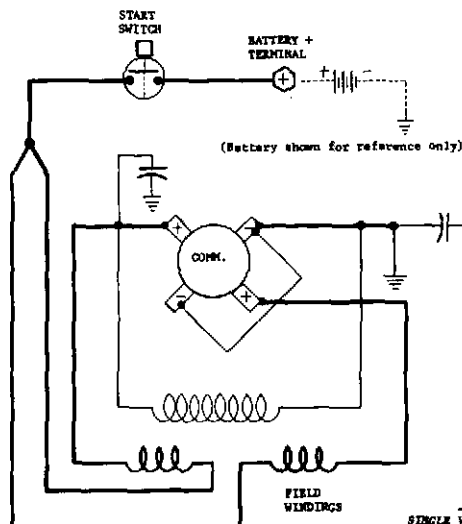
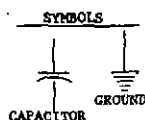
WINCO

Division of Dyna Technology, Inc.

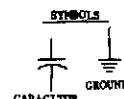
225 South CORDOVA LE CENTER, MINNESOTA 56057 612 357 6821



SCHEMATIC
SINGLE VOLTAGE MANUAL START



SCHEMATIC
SINGLE VOLTAGE ELECTRIC START



PARTS LIST

Item	Part No.	M* Qty.	E* Qty.	Description	Item	Part No.	M* Qty.	E* Qty.	Description
14	54178	1	1	End bracket	37	23558	1	1	Flat washer
15	55163-1	1	—	Armature	38	23197-2	1	1	Thru bolt
	56135-1	—	1	Armature	39	55101	1	1	Fan
16a	55127	1	—	Field coil	40	55224	1	1	Lockwasher
	55136	—	1	Field coil	41	23543	4	4	Pole shoe retainer
16b	55127-1	1	—	Field coil	42	55128	1	1	Field shell & bracket
	55136-1	—	1	Field coil	43	420	3	4	Machine screw
16c	55127-2	1	—	Field coil	44	22423	4	5	Lockwasher
	55136-2	—	1	Field coil	45	456	4	5	Hex nut
16d	55127-3	1	—	Field coil	46	53996	—	1	Heat sink
	55136-3	—	1	Field coil	47	55178	—	2	Bracket
17	23540	4	4	Pole shoe	48	41180	—	1	DC capacitor
18	468	8	8	Hex hd cap screw	49	41393	—	4	DC brushes
19	5113	5	5	Hex nut	50	4637	—	7	Machine screw
20	6376	5	5	Lockwasher	51	25394	—	1	Machine screw
21	54977	1	—	AC capacitor	52	24870	—	1	Resistor
22	40746	8	8	Machine screw	53	55376	—	2	Riveted brush rack assy
23	23607	4	4	AC brush	54	54023-1	—	1	Rectifier
24	23500	4	4	AC brush holder	55	55223	1	1	Bearing
25	6402	1	1	Machine screw	56	23451	4	4	Stud bolt
26	23598	4	4	Machine screw	57	3290	4	4	Cap screw
27	55495	1	—	Rectifier & plate assy	58	481	4	4	Lockwasher
28	638	—	2	Hex nut					
29	479	—	6	Lockwasher					
30	2210	—	1	Start switch					
31	3884	—	2	Machine screw					
32	53636	2	2	Receptacle					
33	56000	—	1	Receptacle					
34	55205	1	—	End cover					
	55367	—	1	End cover					
35	23605	1	1	Hex nut					
36	480	7	9	Lockwasher					

M* - Manual Start Model P2BS-1M/A
E* - Electric Start Model P2BS-1E/A

Wiring Diagram 55509
 Schematic N/A
 Generator Parts
 Unassembled 55509
 Complete Unit
 Part # 55508

 REPAIR
 PARTS LIST
 #467

Size 2000 Watts
 Drive 2 Bearing
 Type Four Pole
 Unit Model # 2KS4PC-1/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55511	1
Armature Bearing	46911	1
Armature Shaft Bearing	8031	1
Fan Assy.	23404	1
Fan Washer	21867	1
Fan Lockwasher	40552	1
Fan Nut	9549	1
Field Coil	55127	1
Field Coil	55127-1	1
Field Coil	55127-2	1
Field Coil	55127-3	1
Shell & Bracket Assy.	55250	1
Pole Shoe	23540	4
Pole Shoe Retainer	23543	4
Engine Adaptor Bracket	40097	1
Adaptor Bracket Screw	9416	4
End Cover Assy.	55206	1
End Cover Receptacle	53636	2
Brush Rack Assy. ✓ (Complete)	55516	1
A. C. Brush	23607	4
A. C. Brush Holder	23500	4
Brush Holder		
Plate Assy.	55107	1
A. C. Condenser	54977	1
Rectifier (Excitation)	55441	1
Base	24486	1

Wiring Diagram C57261
 Schematic N/A
 Generator Parts
 Unassembled C57275
 Complete Unit
 Part # C57276

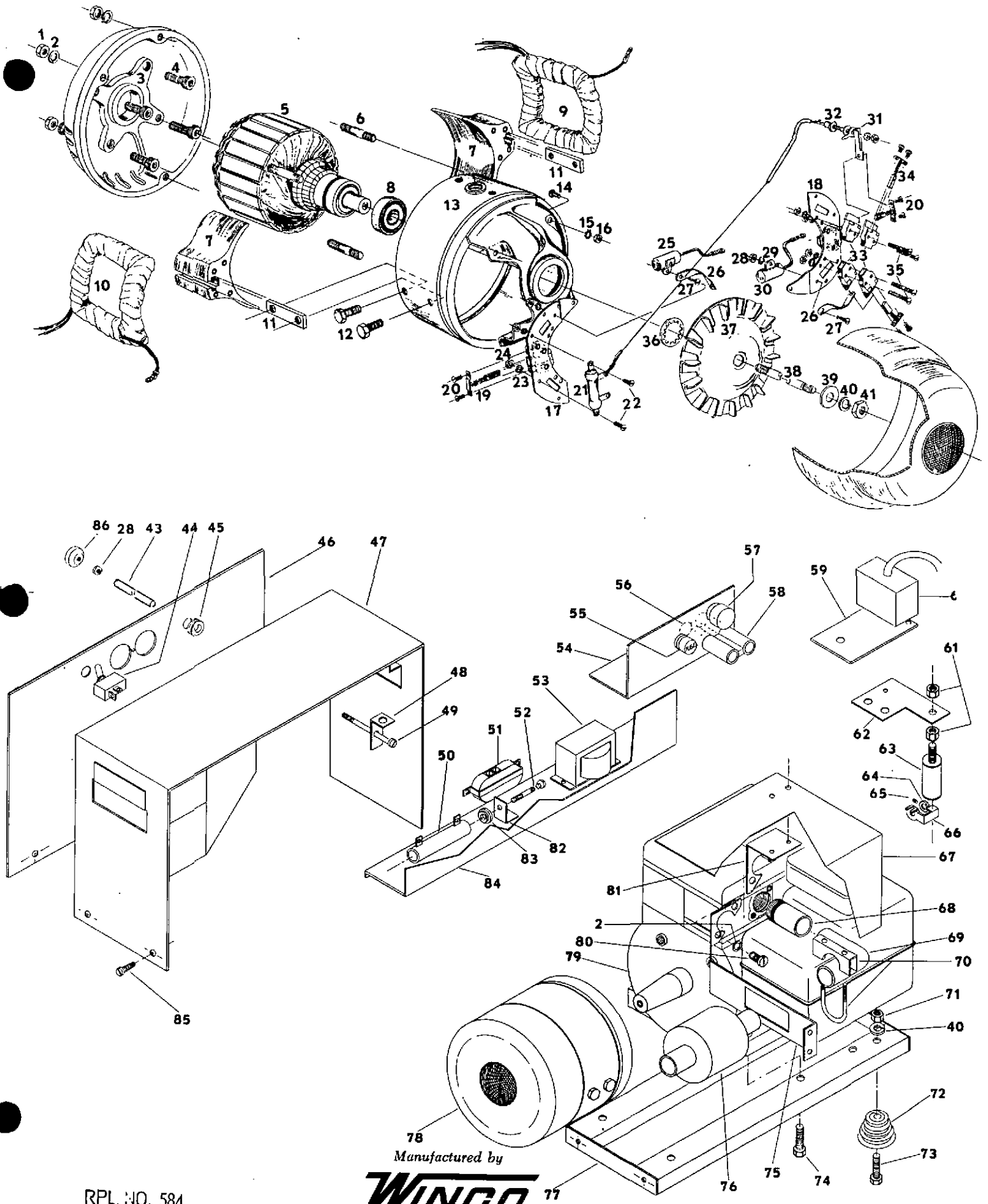
 REPAIR
 PARTS LIST
 #493

Size 2200 Watts
 Drive Direct
 Type Two Pole

Unit Model # FD202BH-1E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54128-1	1	Control Box Assy.	57274	1
Armature Bearing	46911	1	Cover Assy.	51991	1
Armature Thru Bolt	23197-11	1	Front Panel (Bare)	57267	1
			Rear Panel (Bare)	51981	1
Fan Assy.	23727	1	Receptacle	48323	1
Fan Washer	23558	1	Receptacle	51654	3
Fan Lockwasher	40552	1	Switch	52029	1
Fan Nut	23605	1	Start Solenoid	24061	1
Field Coil	54724	1	Conserver Assy.		
Field Coil	54724-1	1	(Complete)	51680	1
			Module	49521	1
Shell & Bracket Assy.	23798	1	Transformer	40450	1
Pole Shoe	23806	2	Electro Magnet	44889	1
Pole Shoe Retainer	23807	2	Formed Bracket	49444	1
Engine Adaptor Brkt.	23720	1	Lever (Throttle)	49443	1
Adaptor Brkt. Screw	40082	4	Resistor	52641	1
End Cover Assy.	24374	1	Switch	24238	1
Brush Rack Assy.	51907	1			
(Complete)	& -1	1			
A. C. Brush	23607	4			
A. C. Brush Holder	23500	4			
D. C. Brush	41393	2			
D. C. Brush Holder	41744	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	1			
D. C. Condenser	41180	1			
Cradle	54770	1			
Shock Mount	23623	1			
Shock Mounts	20191	2			

ENGINE MAKE Briggs & Stratton MODEL # 130232 PART # 53655



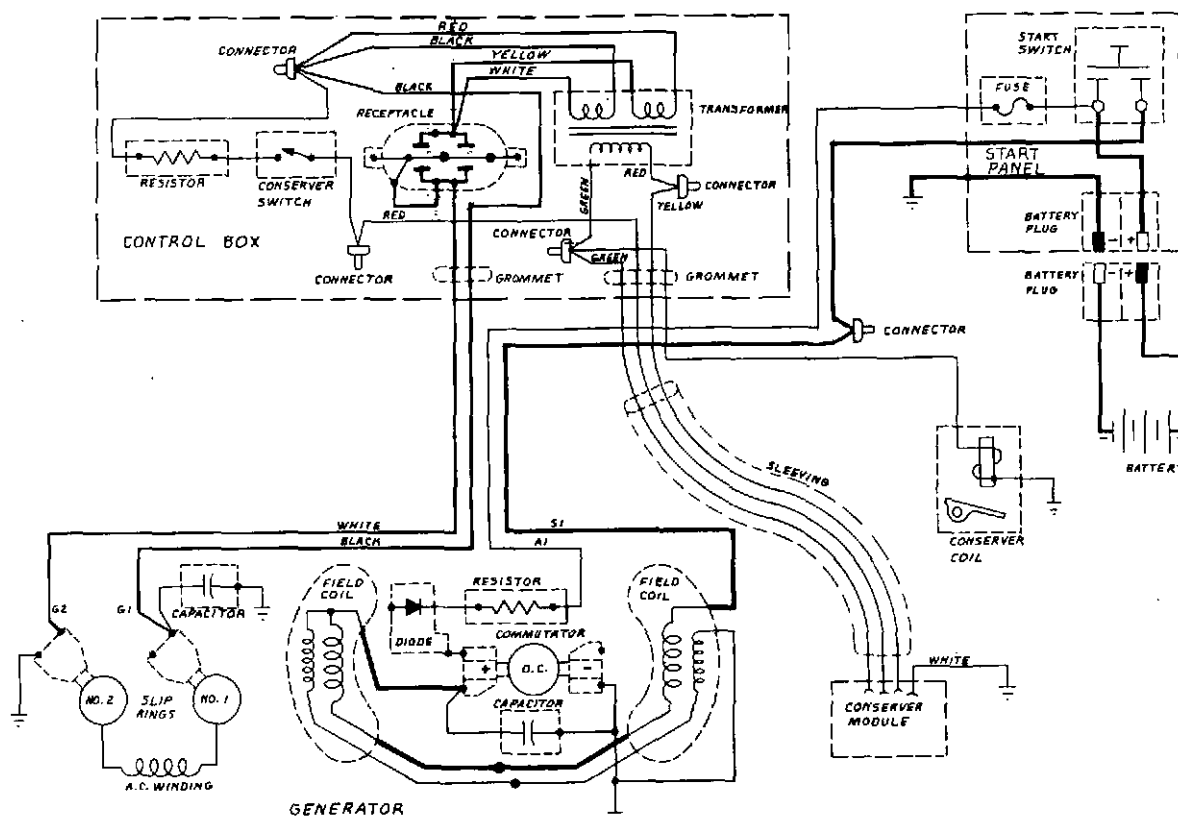
RPL. NO. 584

Manufactured by

WINCO

Division of Dyna Technology, Inc.

225 South CORDOVA LE CENTER, MINNESOTA 56057 612 357 6821



PARTS LIST

Ref. No.	Description	Qty.	Part No.	Ref. No.	Description	Qty.	Part No.
1	Hex Nut	3	638	20	Machine Screw	4	4637
2	Lockwasher	5	479	21	Resistor	1	24236-1
3	End Bracket	1	23720	22	Machine Screw	2	6917
4	Allen Head Screw	4	40082	23	Lockwasher	2	22989
5	Armature	1	54128-1	24	Hex Nut	2	394
6	Stud	3	23817	25	AC Condenser Ass'y.	1	41221
7	Pole Shoe Ass'y.	2	23806	26	Ground Strip	1	41387-1
8	Bearing	1	46911	27	Machine Screw	2	6402
9	Field Coil	1	54724-1	28	Hex Nut	2	5113
10	Field Coil	1	54724	29	Lockwasher	2	6376
11	Pole Shoe Retainer	2	23807	30	DC Condenser	1	41180
12	Machine Screw	3	1743	31	Formed Heat Sink	1	54729
13	Field Shell and Bracket Ass'y.	1	23798	32	Diode	1	54023-1
14	Machine Screw	4	4637	33	AC Brush Holder	4	23500
15	Lockwasher	4	484	34	AC Brush	4	23607
16	Hex Nut	4	456	35	Machine Screw	4	23598
17	Riveted Brush Rack Ass'y.	1	41744	36	Lockwasher	1	40552
18	Riveted Brush Rack Ass'y.	1	41744-1	37	Fan	1	23727
19	DC Brush	2	41393	38	Thru Bolt	1	23197-3
				39	Flat Washer	1	23558
				40	Lockwasher	9	480

PARTS LIST

Ref. No.	Description	Qty.	Part No.
41	Hex Nut -----	1	23605
42	End Cover -----	1	24347
43	Spacer -----	1	53099-3
44	Switch -----	1	24238
45	Grommet -----	2	45853
46	Front panel -----	1	55909-2
47	Cover assy -----	1	56198-1
48	Stop control bracket -----	1	55917
49	Machine screw -----	1	56113
50	Resistor -----	1	48583
51	Receptacle -----	1	24749
52	Machine Screw -----	1	24864
53	Transformer -----	1	40450
54	Start bracket -----	1	55912
55	Fuse holder -----	1	2489
55a	Fuse—10 amp max. -----	1	55976
56	Connector assy -----	1	56183
57	Start switch -----	1	2210
58	Connector -----	1	56148
59	Module bracket -----	1	56021
60	Conserv module -----	1	48574
61	Hex nut -----	2	44894
62	Bracket -----	1	49444
63	Electro-magnet assy -----	1	44889
64	Collar -----	1	49503
65	Set screw -----	1	6394
66	Conserv lever -----	1	49443

Ref. No.	Description	Qty.	Part No.
67	Muffler guard -----	1	55922
68	Exhaust nipple -----	1	56265
69	Exhaust elbow -----	1	56431-1
70	Muffler clamp -----	2	56166-1
71	Hex nut -----	8	458
72	Spring foot -----	4	55096
73	Hex hd cap screw -----	4	42382
74	Hex hd cap screw -----	4	42482
75	Muffler bracket -----	1	55921
76	Muffler -----	1	56117
77	Base frame assy -----	1	55908
78	Generator assy ----- (see illustrated breakdown)	1	56146
79	Gasoline engine -----	1	53655
80	Machine screw -----	2	21318
81	Guard support bracket --	1	56230
82	Resistor mounting bracket -----	2	55178
83	Fiber shoulder washer --	2	1376
84	Conserv assy bracket --	1	55910
85	Self tapping screw -----	7	55440
86	Knob -----	1	56114

Wiring Diagram	<u>56310</u>	*****	Size	<u>2200 Watts</u>
Schematic	<u>N/A</u>	REPAIR	Drive	<u>Direct</u>
Generator Parts		PARTS LIST	Type	<u>Two Pole</u>
Unassembled	<u>56311</u>	#469	Unit Model #	<u>C202WRH-1M/B</u>
Complete Unit		*****		
Part #	<u>57143</u>			

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55273-1	1	Control Box Assy.	56319	1
Armature Bearing	55223	1	Cover Assy.	56335	1
Armature Thru Bolt	23197-3	1	Front Panel (Bare)	51674-1	1
			Rear Panel (Bare)	49527	1
Fan Assy.	54967	1	Receptacle (115)	24749	1
Fan Washer	23558	1	Resistor (Charge)	52641	1
Fan Lockwasher	55224	1			
Fan Nut	23605	1	Conserver Assy.		
			(Complete)	57142	1
Field Coil	53615A	1	Module	56314	1
Field Coil	53615-1A	1	Transformer	40450	1
			Electro Magnet	44889	1
Shell & Brkt. Assy.	53614	1	Formed Bracket	57089	1
Pole Shoe	53612	2	Lever (Throttle)	57090	1
Pole Shoe Retainer	53613	2	Switch	24238	1
Engine Adaptor Brkt.	43887	1	Cover	44891	1
Adaptor Brkt. Screw	55576	4	Cover Nut	44948	1
End Cover Assy.	56312	1			
Brush Rack Assy.					
(Complete)	55092	1			
A. C. Brush	23607	4			
A. C. Brush Holder	23500	4			
Brush Holder					
Plate Assy.	55091	1			
A. C. Condenser	54977	1			
Rectifier (Exc.)	54976	1			
Cradle	57085	1			
Shock Mounts	20191	3			

ENGINE MAKE Wisconsin MODEL # EY18W PART # 57087

Wiring Diagram C55311
Schematic N/A
Generator Parts
Unassembled C55311
Complete Unit
Part # C57084

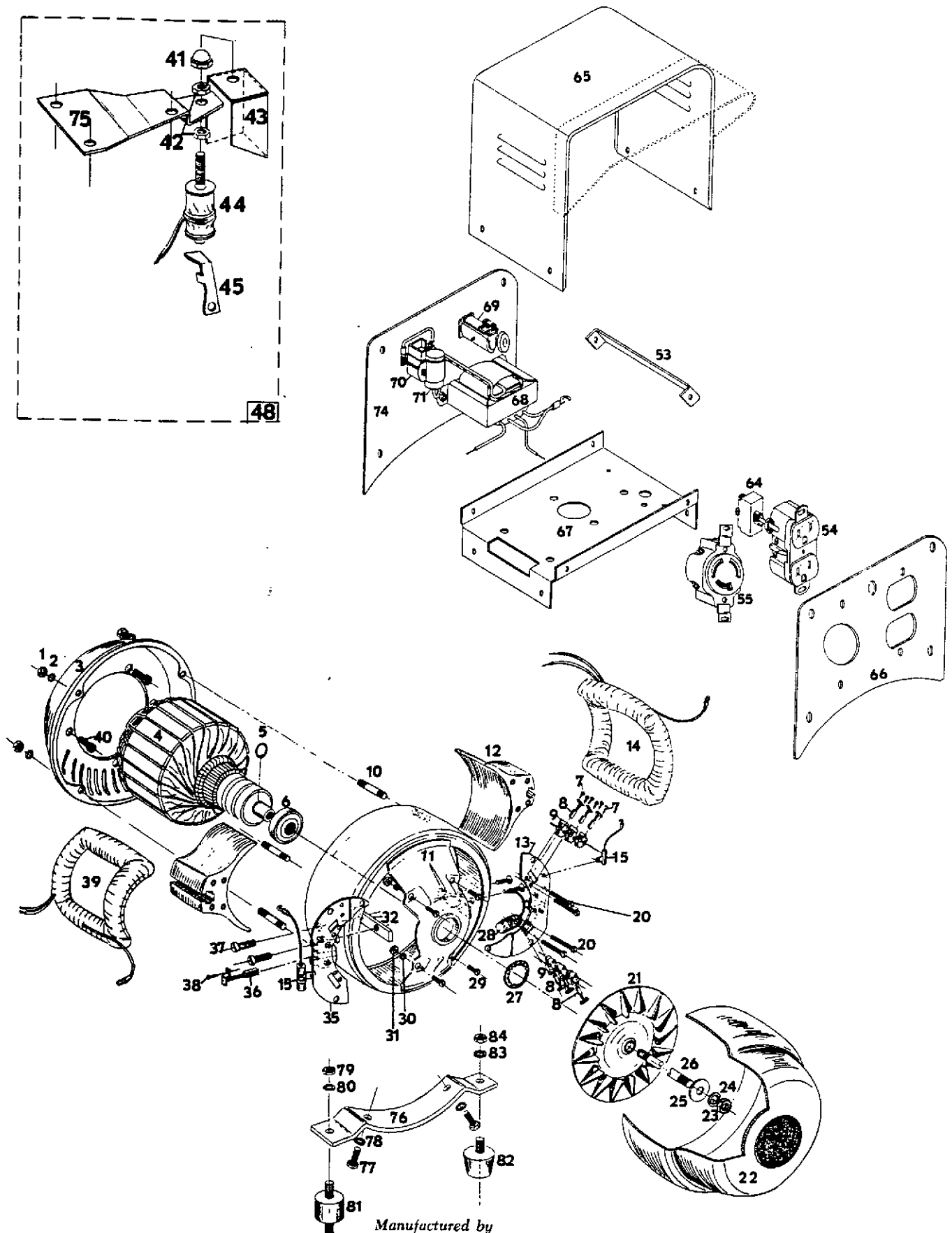
REPAIR
PARTS LIST
#490

Size 2200 Watts
Drive Direct
Type Two Pole
Unit Model # P202WRH-1M/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55273-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-3	1
Fan Assy.	54967	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	53615A	1
Field Coil	53615A-1	1
Shell & Bracket Assy.	53614	1
Pole Shoe	53612	2
Pole Shoe Retainer	53613	2
Engine Adaptor Bracket	43887	1
Adaptor Bracket Screw	55576	4
End Cover Assy.	55281	1
End Cover Receptacle	53636	2
Brush Rack Assy. (Complete)	55902	1
A. C. Brush	23607	4
A. C. Brush Holder	23500	4
Brush Holder Plate	55091	1
A. C. Condenser	54977	1
Rectifier (Excitation)	54976	1
Cradle	57085	1
Shock Mounts	20191	3

ENGINE MAKE Wisconsin MODEL # EY18W PART # 57087

WINCO GENERATOR PLANT MODEL 205BH-3M

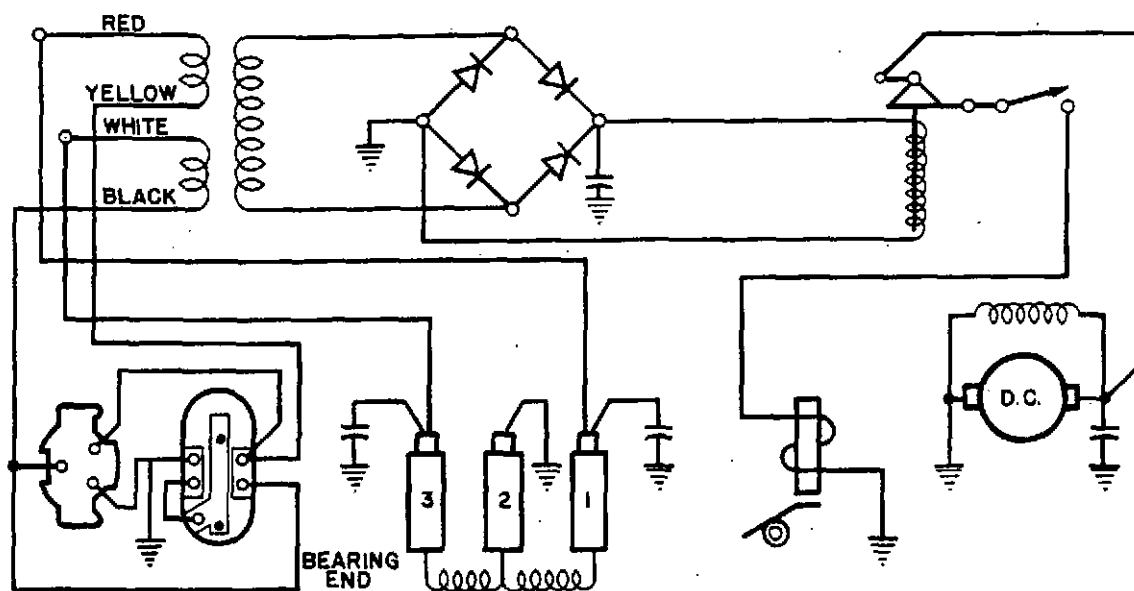


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102



PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	38	4637	Screw—D.C. Brush (#10-24x3/8")	4
2	480	Stud Nut Lock washer (5/16")	4	39	24253	Field Coil	1
3	43332-1	End Bracket	1	40	23597	Allen Screw	4
4	44360-1	Armature	1	41	44948	Acorn Nut (5/16-24)	1
5	23568	Bearing Retaining Ring	1	42	44894	Hex Jam Nut (5/16x24)	2
6	46911	Bearing	1	43	44891	Cover	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	12	44	44889	Electro Magnet	1
8	23607	A.C. Brush	6	45	44892	Bracket—Throttle Lever	1
9	23500	Brush Holder—A.C.	6	48	45164	Bracket & Magnet Assembly Complete	1
10	23451	Field Shell Stud	4	53	24087	Brace—Control Box	2
11	43327	Field Shell & Bracket	1	54	24749	Receptacle 115 Volt Duplex	1
12	24851	Pole Shoe	2	55	22901	Receptacle 230 Volt Single	1
13	41744-1	Brush Rack & D.C. Brush Holder	1	64	24238	Switch	1
14	24253-1	Field Coil	1	65	48355	Box Cover	1
15	41221	A.C. Condenser	2	66	43394-2	Front Panel	1
21	23404	Fan	1	67	23849-1	Saddle	1
22	23634	End Cover	1	68	40450	Transformer	1
23	23605	Armature Nut (5/16-24)	1	69	40595	Relay	1
24	480	Armature Lockwasher (5/16")	1	70	42277	Rectifier	1
25	23558	Armature Flat Washer	1	71	41172	Condenser	1
26	23197	Armature Thru Bolt	1	74	43399	Rear Cover	1
27	40552	Fan Lockwasher	1	75	44927	Bracket—Electro Magnet	1
28	41180	D.C. Condenser	1	76	43291	Generator Support Bracket	1
29	3728	Screw—Brush Rack Mounting (#10-24x1/2")	4	77	467	Cap Screw 5/16-18x3/4	2
30	484	Lockwasher—Brush Rack Mounting (#10)	4	78	480	Lock Washer 5/16	2
31	456	Nut—Brush Rack Mounting (#10-24)	4	79	458	Hex Nut 5/16-18	8
32	24849	Pole Shoe Retainer	2	80	480	Lock Washer 5/16	8
33	23867	Machine Screw—Brush Holders (#8-32x1 3/4")	4	81	23623	Rubber Shock Mounting (With Cradle)	4
35	41744	Brush Rack & D.C. Brush Holder	1	82	23770	Rubber Foot (Without Cradle)	4
36	41393	D.C. Brush	2	83	480	Lockwasher 5/16	4
37	9416	Pole Shoe Screw (Hex 5/16-18x1 3/4")	4	84	446	Hex Nut 5/16-24	4

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

Wiring Diagram C56310
 Schematic N/A
 Generator Parts
 Unassembled C56311
 Complete Unit
 Part # C56309

 REPAIR
 PARTS LIST
 #484

Size 2500 Watts
 Drive Direct
 Type Two Pole

Unit Model # C205BH-1M/B

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55273-1	1	Control Box Assy.	56319	1
Armature Bearing	55223	1	Cover Assy.	56335	1
Armature Thru Bolt	23197-3	1	Front Panel (Bare)	51674-1	1
			Rear Panel (Bare)	49527	1
Fan Assy.	54967	1	Receptacle (115)	24749	1
Fan Washer	23558	1			
Fan Lockwasher	55224	1	Conservator Assy.		
Fan Nut	23605	1	(Complete)	56320	1
			Module	56314	1
Field Coil	53615A	1	Transformer	40450	1
Field Coil	53615-1A	1	Electro Magnet	44889	1
			Formed Bracket	49444	1
Shell & Bracket Assy.	53614	1	Lever (Throttle)	49443	1
Pole Shoe	53612	1	Resistor	52641	1
Pole Shoe Retainer	53613	1	Switch	24238	1
Engine Adaptor Brkt.	43887	1	Band	49503	1
Adaptor Brkt. Screw	55576	4			
End Cover Assy.	56312	1			
Brush Rack Assy.		1			
(Complete)	55092	1			
A. C. Brush	23607	4			
A. C. Brush Holder	23500	4			
Brush Holder Plate	55091	1			
A. C. Condenser	54977	1			
Rectifier (Excitation)	54976	1			
Cradle	54770	1			
Shock Mounts	20191	3			

ENGINE MAKE Briggs & Stratton MODEL # 130232 PART # 53655

Wiring Diagram C55311
 Schematic N/A
 Generator Parts
 Unassembled C55311
 Complete Unit
 Part # C55310

 REPAIR
 PARTS LIST
 #532

Size 2500 Watts
 Drive Direct
 Type Two Pole
 Unit Model # P205BH-1M/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55273-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-3	1
Fan Assy.	54967	1
Fan Washer	23558	1
Fan Lockwasher	40552	1
Fan Nut	23605	1
Field Coil	53615A	1
Field Coil	53615-1A	1
Shell & Bracket Assy.	53614	1
Pole Shoe	53612	2
Pole Shoe Retainer	53613	2
Engine Adaptor Bracket	43887	1
Adaptor Bracket Screw	55576	4
End Cover Assy.	55281	1
End Cover Receptacle	53636	2
Brush Rack Assy. (Complete)	55092	1
A. C. Brush	23607	4
A. C. Brush Holder	23500	4
Brush Holder Plate	55091	1
A. C. Condenser	54977	1
Rectifier (Excitation)	55495	1
Base Channels	55094	2
Spring Feet	55096	4
Handle	53583	1

ENGINE MAKE Briggs & Stratton MODEL # 130232 PART # 53655

Wiring Diagram C56294

Schematic N/A

Generator Parts

Unassembled C56118

Complete Unit

Part # C56204

REPAIR
PARTS LIST
#497

Size 2500 Watts

Drive Direct

Type Two Pole

Unit Model # R205BH-1M/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55273-1	1	Cover Assy.	56198	1
Armature Bearing	55223	1	Front Panel (Bare)	55901-1	1
Armature Thru Bolt	23197-3	1	Receptacle (115)	24749	1
Fan Assy.	54967	1	Conservor Assy.		
Fan Washer	23558	1	(Complete)	56202	1
Fan Lockwasher	55224	1	Module	48574	1
Fan Nut	23605	1	Transformer	40450	1
Field Coil	53615A	1	Electro Magnet	44889	1
Field Coil	53615-1A	1	Formed Bracket	49444	1
Shell & Bracket Assy.	53614	1	Lever (Throttle)	49443	1
Pole Shoe	53612	2	Resistor	48583	1
Pole Shoe Retainer	53613	2	Switch	24238	1
Engine Adaptor Brkt.	43887	1			
Adaptor Brkt. Screw	55576	4			
End Cover Assy.	24347	1			
Brush Rack Assy.					
(Complete)	55092	1			
A. C. Brush	23607	4			
A. C. Brush Holder	23500	4			
A. C. Condenser	54977	1			
Rectifier (Excitation)	54976	1			
Base	55908	1			
Spring Feet	55096	4			

ENGINE MAKE Briggs & Stratton MODEL # 130232 PART # 53655

Wiring Diagram C56294

Schematic N/A
Generator Parts
Unassembled C56118
Complete Unit
Part # C56111

REPAIR
PARTS LIST
#496

Size 2500 Watts

Drive Direct

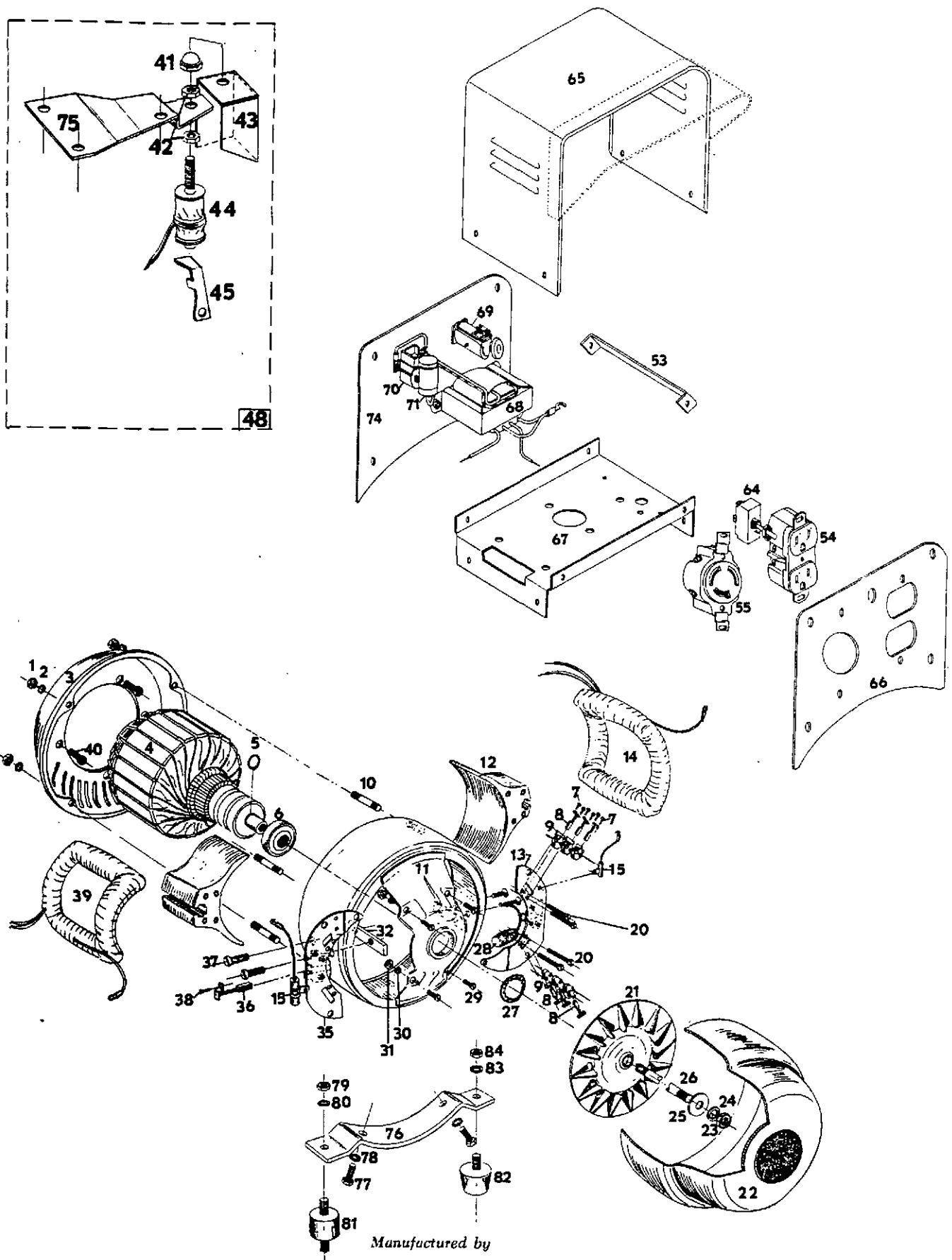
Type Two Pole

Unit Model # PR205BH-1M/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55273-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-3	1
Fan Assy.	54967	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	53615A	1
Field Coil	53615-1A	1
Shell & Bracket Assy.	53614	1
Pole Shoe	53612	2
Pole Shoe Retainer	53613	2
Engine Adaptor Bracket	43887	1
Adaptor Bracket Screw	55576	4
End Cover Assy.	24347	1
Brush Rack Assy. (Complete)	55092	1
A. C. Brush	23607	4
A. C. Brush Holder	23500	4
A. C. Condenser	54977	1
Rectifier (Excitation)	54976	1
Base	55908	1
Spring Feet	55096	4
Cover Assy.	56198	1
Front Panel (Bare)	55909-1	1
Receptacle (115)	56119	1

ENGINE MAKE Briggs & Stratton MODEL # 130232 PART # 53655

WINCO GENERATOR PLANT MODEL 205BH-3M



Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

Wiring Diagram C55513
 Schematic N/A
 Generator Parts
 Unassembled C55515
 Complete Unit
 Part # B55512

 REPAIR
 PARTS LIST
 #476

Size 2700 Watts
 Drive Two Bearing
 Type Four Pole
 Unit Model # 207KS4PC-1/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55514	1
Armature Bearing (Brush End)	46911	1
Armature Bearing (Shaft End)	8031	1
Fan Assy.	23404	1
Fan Washer	21867	1
Fan Lockwasher	40552	1
Fan Nut	9549	1
Field Coil	55249	1
Field Coil	55249-1	1
Field Coil	55249-2	1
Field Coil	55249-3	1
Shell & Bracket Assy.	55250	1
Pole Shoe	55248	4
Pole Shoe Retainer	55142	4
Engine Adaptor Bracket	40097	1
Adaptor Bracket Screw	9416	4
End Cover Assy.	55206	1
End Cover Receptacle	53636	2
Brush Rack Assy. (Complete)	55516	1
A. C. Brush	23607	4
A. C. Brush Holder	23500	4
Brush Holder Plate	55107	1
A. C. Condenser	54977	1
Rectifier (Excitation)	55441	1
Base	24486	1

Wiring Diagram C55518

Schematic N/A

Generator Parts

Unassembled C55518

Complete Unit

Part # B55517

REPAIR
PARTS LIST
#473

Size 2700 Watts

Drive Two Bearing

Type Four Pole

Unit Model # 207KS4PC-3/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55519	1
Armature Bearing (Brush End)	46911	1
Armature Bearing (Shaft End)	8031	1
Fan Assy.	23404	1
Fan Washer	21867	1
Fan Lockwasher	40552	1
Fan Nut	9549	1
Field Coil	55249	1
Field Coil	55249-1	1
Field Coil	55249-2	1
Field Coil	55249-3	1
Shell & Bracket Assy.	55250	1
Pole Shoe	55248	4
Pole Shoe Retainer	55242	4
Engine Adaptor Bracket	40097	1
Adaptor Bracket Screw	9416	4
End Cover Assy.	55140	1
End Cover Receptacle	53636	2
End Cover Receptacle	55253	1
Brush Rack Assy. (Complete)	57914	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate	55107	1
A. C. Condenser	54977	1
Rectifier (Excitation)	55441	1
Base	24486	1

Wiring Diagram C55288
Schematic N/A
Generator Parts
Unassembled C55288
Complete Unit
Part # C55287

REPAIR
PARTS LIST
#548

Size 2800 Watts
Drive Direct
Type Four Pole
Unit Model # P208BS-1M/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55290-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-2	1
Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55249	1
Field Coil	55249-1	1
Field Coil	55249-2	1
Field Coil	55249-3	1
Shell. & Bracket Assy.	55250	1
Pole Shoe	55248	4
Pole Shoe Retainer	55142	4
Engine Adaptor Bracket	54025	1
Adaptor Bracket Screw	54028	4
End Cover Assy.	55206	1
End Cover Receptacle	53636	2
Brush Rack Assy. (Complete)	56102	1
A. C. Brush	23607	4
A. C. Brush Holder	23500	4
Brush Holder Plate	55091	1
A. C. Condenser	54977	1
Rectifier (Excitation)	55441	1
Cradle	55137	1
Shock Mounts	20191	5

ENGINE MAKE Briggs & Stratton MODEL # 243431 PART # 53884

Wiring Diagram C55373

Schematic N/A

Generator Parts

Unassembled C55373

Complete Unit

Part # C55374

REPAIR
PARTS LIST
#551

Size 2800 Watts

Drive Direct

Type Four Pole

Unit Model # P208BS-3E/A

DESCRIPTION

PART #

QTY.

Armature	55319-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-7	1

Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1

Field Coil	55372	1
Field Coil	55372-1	1
Field Coil	55372-2	1
Field Coil	55372-3	1

Shell & Bracket Assy.	55370	1
Pole Shoe	40091	4
Pole Shoe Retainer	40092	4
Engine Adaptor Bracket	54025	1
Adaptor Bracket Screw	54028	4
End Cover Assy.	55368	1
End Cover Receptacle	53636	2
End Cover Receptacle	55253	1
Start Switch	2210	1

Brush Rack Assy.	55369	1
(Complete)	& -1	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
D. C. Brush	41393	4
D. C. Brush Holder		
& Plate Assy.	55376	2
A. C. Condenser	41221	2
D. C. Condenser	41180	1
Resistor (Charge)	55377	1

Cradle	55137	1
Shock Mounts	20191	5

ENGINE MAKE Briggs & Stratton MODEL # 243431 PART # 53884

Wiring Diagram C55243
Schematic N/A
Generator Parts
Unassembled C55243
Complete Unit
Part # C55244

REPAIR
PARTS LIST
#552

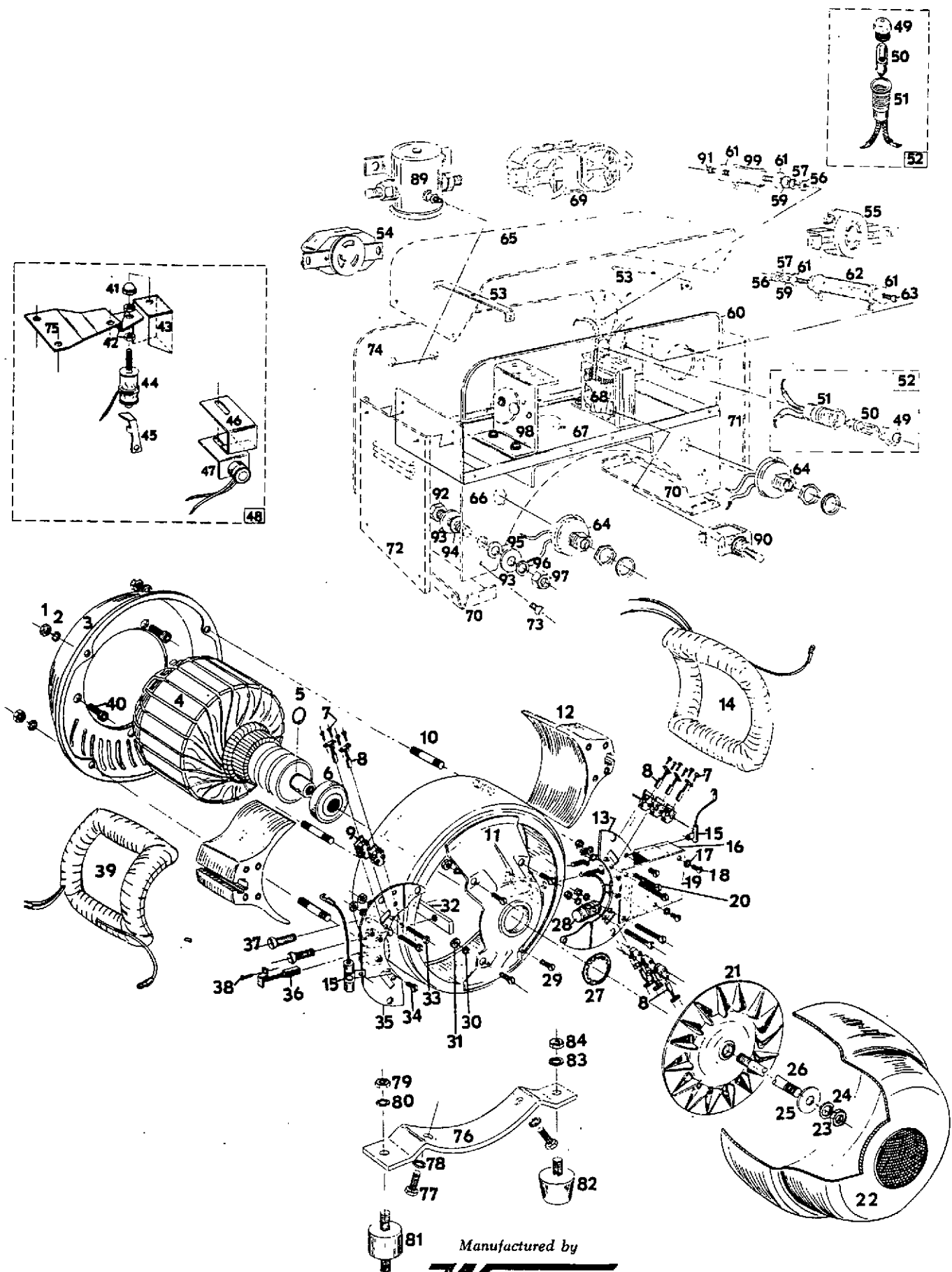
Size 2800 Watts
Drive Direct
Type Four Pole

Unit Model # P208BS-3M/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55246-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-2	1
Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55249	1
Field Coil	55249-1	1
Field Coil	55249-2	1
Field Coil	55249-3	1
Shell & Bracket Assy.	55250	1
Pole Shoe	55248	4
Pole Shoe Retainer	55142	4
Engine Adaptor Bracket	54025	1
Adaptor Bracket Screw	54028	4
End Cover Assy.	55140	1
End Cover Receptacle	53636	2
End Cover Receptacle	55253	1
Brush Rack Assy. (Complete)	57914	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate	55107	1
A. C. Condenser	41221	1
A. C. Condenser	54977	1
Rectifier (Excitation)	55441	1
Cradle	55137	1
Shock Mounts	20191	3

ENGINE MAKE Briggs & Stratton MODEL # 243431 PART # 53884

WINCO GENERATOR PLANT MODEL 3BH-FE

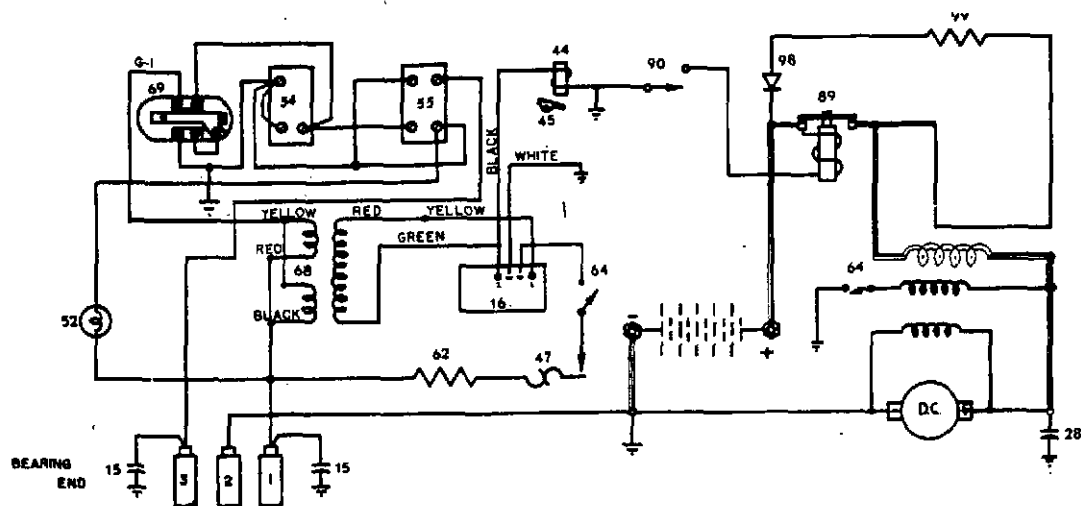


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

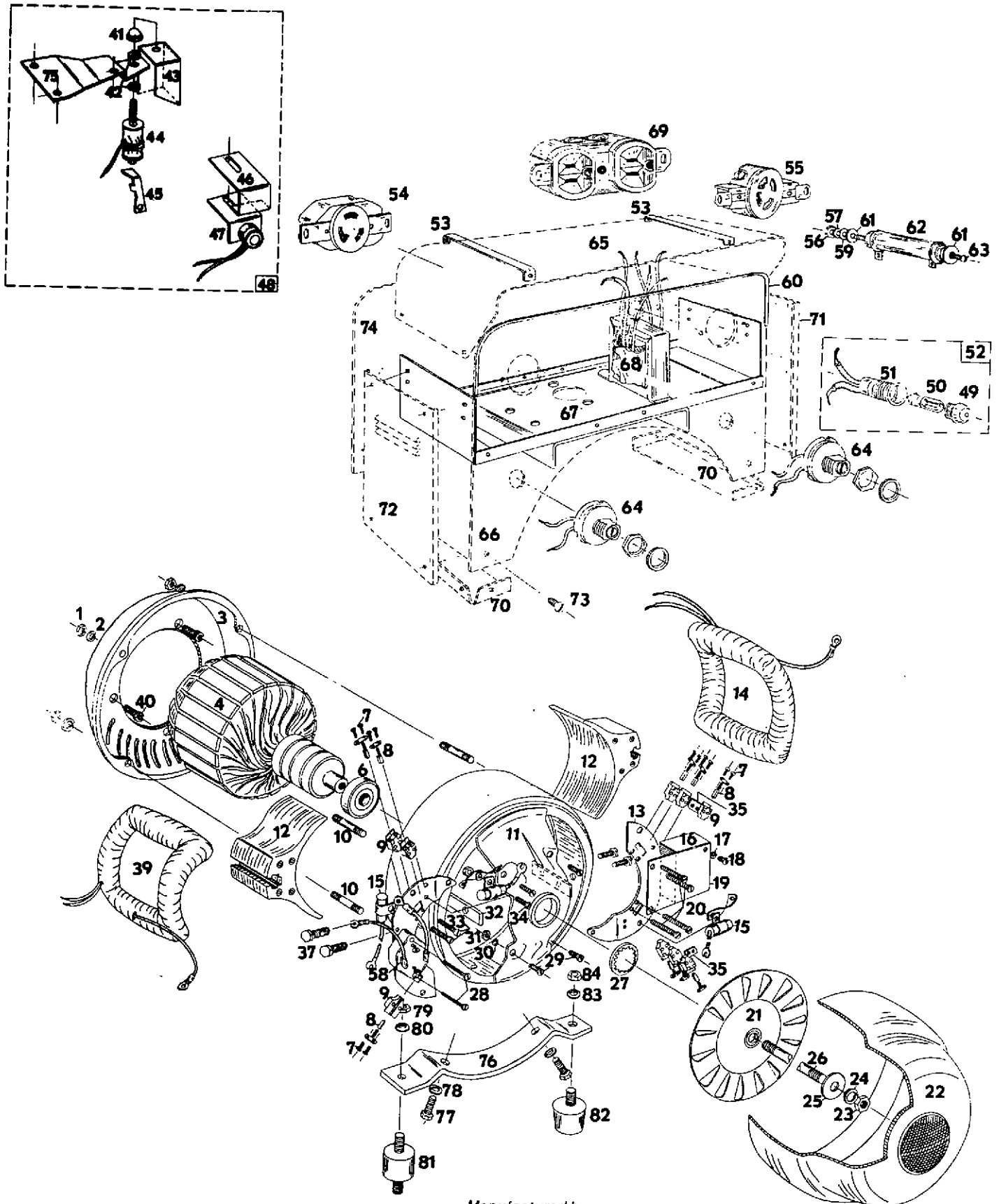


PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	47	44945	Thermostat	1
2	480	Stud Nut Lockwasher (5/16")	4	48	49375	Bracket & Magnet Assembly Complete	1
3	43332	End Bracket	1	49	43341-1	Dome Only	1
4	44360-1	Armature	1	50	43358	Bulb	1
5	23568	Bearing Retaining Ring	1	51	43341	Socket & Dome	1
6	4783	Bearing	1	52	43340	Socket Assembly	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	16	53	51576	Brace	2
8	23607	A.C. Brush	8	54	22901	Receptacle 115 Volt	1
9	23500	Brush Holder—A.C.	8	55	22902	Receptacle 230 Volt	1
10	23451	Field Shell Stud	4	56	6372	Hex Nut (10-32)	2
11	43327	Field Shell & Bracket	1	57	21975	Lock Washer #10 Ext.	2
12	24851	Pole Shoe	2	59	598	Flatwasher #10	2
13	41744-1	Brush Rack & D.C. Brush Holder	1	60	51696-1	Weather Strip	2
14	44372-1	Field Coil	1	61	1376	Shoulder Washer	4
15	41221	A.C. Condenser	2	62	48583	Resistor	1
16	48574	Module for Conservator	1	63	24864	Machine Screw	1
17	21976	Lockwasher (#8 Ext.)	2	64	44022	Switch	2
18	6402	Screw (8-32x3/8")	2	65	51580	Box Cover	1
19	49507	Bracket—Module	1	66	51597	Front Panel	1
20	40550	Machine Screw—Brush Holders (8-32x2")	4	67	51582	Saddle	1
21	23404	Fan	1	68	40450	Transformer	1
22	23634	End Cover	1	69	24749	Receptacle 115 Volt Duplex	1
23	23605	Armature Nut (5/16-24)	1	70	51577	Bottom Support	2
24	480	Armature Lockwasher (5/16")	1	71	51686	Side Panel—(right)	1
25	23558	Armature Flat Washer	1	72	51578-1	Side Panel—(left)	1
26	23197	Armature Thru Bolt	1	73	21698	Sheet Metal Screw (#10x3/8")	30
27	40552	Fan Lockwasher	1	74	51607	Rear Cover	1
28	41180	D.C. Condenser	1	75	44927	Bracket—Electro Magnet	1
29	3728	Screw—Brush Rack Mounting (#10-24x1 1/2")	4	76	43291	Generator Support Bracket	1
30	484	Lockwasher—Brush Rack Mounting (#10)	8	77	467	Cap Screw 5/16-18x3/4	2
31	456	Nut—Brush Rack Mounting (#10-24)	4	78	480	Lockwasher 5/16	2
32	24849	Pole Shoe Retainer	2	79	458	Hex Nut 5/16-18	8
33	10846	Machine Screw—Brush Holders (#8-32x1 1/2")	2	80	480	Lockwasher 5/16	8
34	6402	Machine Screw—Capacitor (8-32x3/8")	1	81	23623	Rubber Shock Mounting (With Cradle)	4
35	41744	Brush Rack & D.C. Brush Holder	1	82	23770	Rubber Foot (Without Cradle)	4
36	41393	D.C. Brush	2	83	480	Lockwasher 5/16	4
37	9416	Pole Shoe Screw (Hex 5/16-18x1 1/4")	4	84	446	Hex Nut 5/16-24	4
38	4637	Screw—D.C. Brush (#10-24x3/8")	4	89	24061	Starter Solenoid	1
39	44372	Field Coil	1	90	52029	Switch—Start	1
40	23597	Allen Screw	4	91	9688	Machine Screw (#10-32x2 1/2")	1
41	44948	Acorn Nut (5/16-24)	1	92	21974	Machine Screw (5/16-18x1 1/4" Brass)	2
42	44894	Hex Jam Nut (5/16-24)	2	93	8068	Brass Washer 5/16"	3
43	44891	Cover	1	94	21981	Insulation Washer	1
44	44889	Electro Magnet	1	95	6892	Insulation Washer	1
45	44892	Bracket—Throttle Lever	1	96	480	Lockwasher 5/16"	2
46	44883	Bracket—Cover Thermostat	1	97	458	Hex Nut 5/16-18	2
				98	45930	Reverse Current Diode	1
				99	24872	Resistor	1

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WINCO GENERATOR PLANT MODEL 3BH-FM

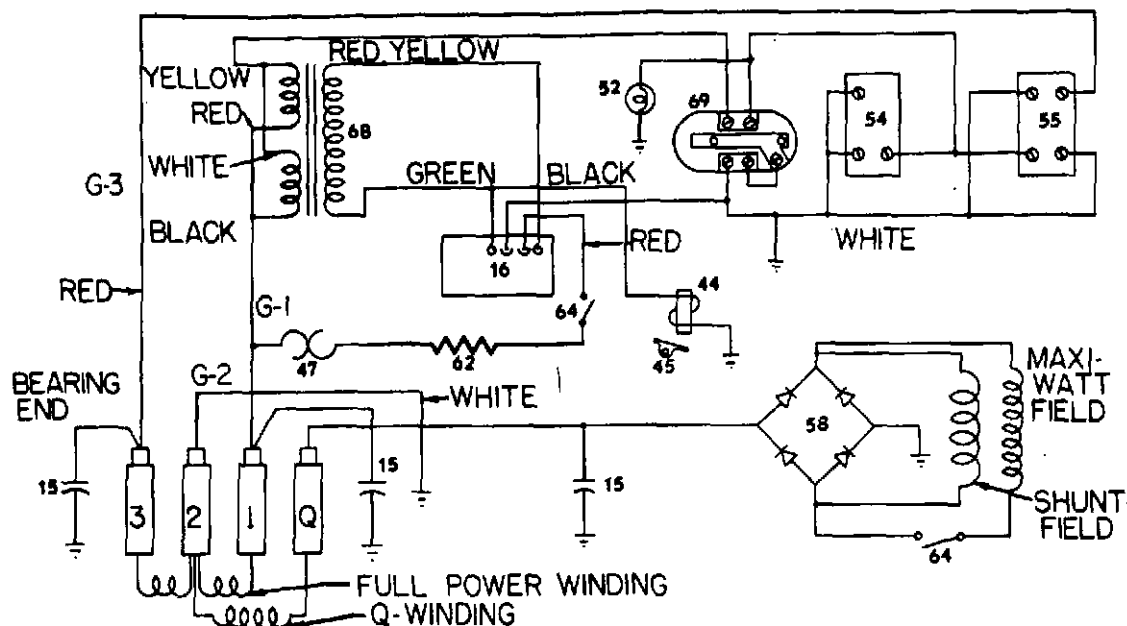


Manufactured by

WINCO

Division of Dyna Technology, Inc.

225 South Cordova Le Center, Minnesota 56057 612-357-6821

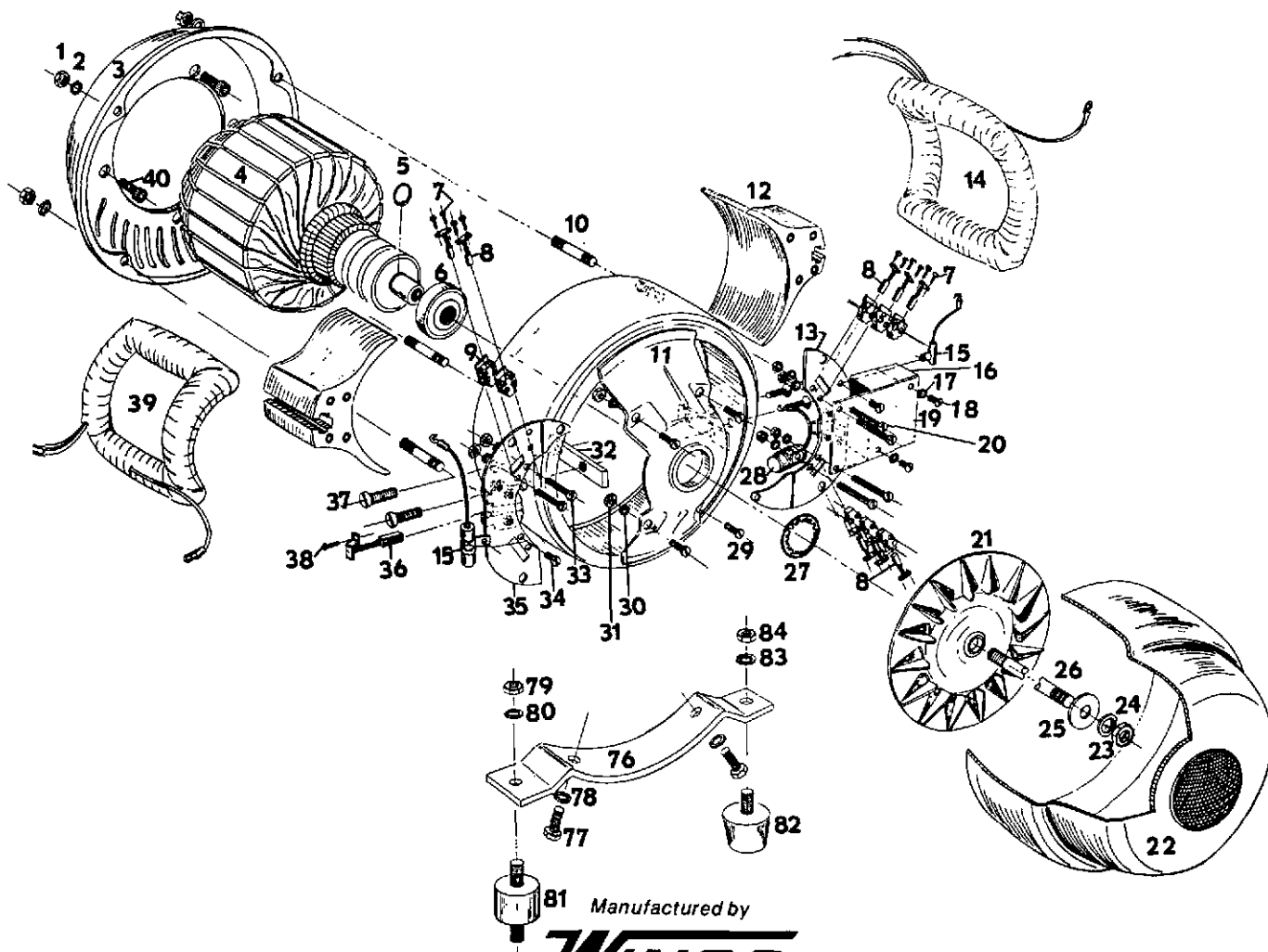
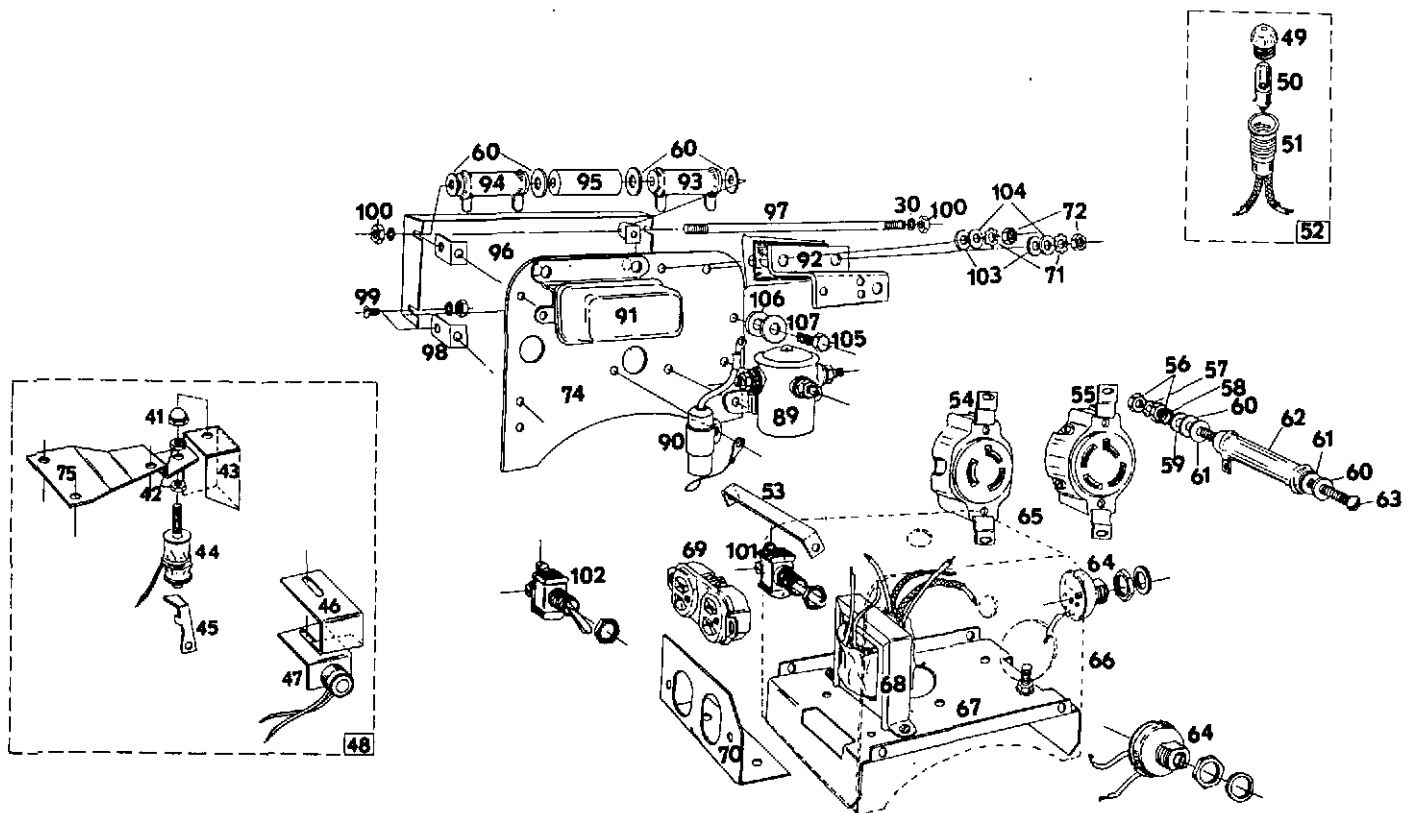


PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	43	44891	Cover	1
2	480	Stud Nut Lockwasher (5/16")	4	44	44889	Electro Magnet	1
3	43332-1	End Bracket	1	45	44892	Bracket—Throttle Lever	1
4	51570-1	Armature	1	46	44883	Bracket—Cover Thermostat	1
6	4783	Bearing	1	47	44945	Thermostat	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	18	48	49375	Bracket & Magnet Assembly Complete	1
8	23607	A. C. Brush	9	49	43341-1	Dome Only	1
9	23500	Brush Holder—A.C.	9	50	43358	Bulb	1
10	23451	Field Shell Stud	4	51	43341	Socket & Dome	1
11	43327	Field Shell & Bracket	1	52	43340	Socket Assembly	1
12	24851	Pole Shoe	2	53	51576	Brace	2
13	50471	Brush Rack	2	54	22901	Receptacle 115 Volt	1
14	51712-1	Field Coil	1	55	22902	Receptacle 230 Volt	1
15	41221	A. C. Condenser	3	56	6372	Hex Nut (10-32)	1
16	48574	Module for Conservator	1	57	21975	Lockwasher #10 Ext.	1
17	21976	Lockwasher (#8 Ext.)	2	58	59484	Rectifier	1
18	6402	Screw (8-32x3/4")	2	59	598	Flatwasher #10	1
19	50237	Bracket—Module	1	60	51696-1	Weather Strip	2
20	40550	Machine Screw—Brush Holders (8-32x2")	4	61	1376	Shoulder Washer	2
21	23404	Fan	1	62	48583	Resistor	1
22	23634	End Cover	1	63	24864	Machine Screw	1
23	23605	Armature Nut (5/16-24)	1	64	44022	Switch	2
24	480	Armature Lockwasher (5/16")	1	65	51580	Box Cover	1
25	23558	Armature Flat Washer	1	66	51598	Front Panel	1
26	23197	Armature Thru Bolt	1	67	51582	Saddle	1
27	40552	Fan Lockwasher	1	68	40450	Transformer	1
28	49531	Machine Screw (4-40x1 1/4")	2	69	24749	Receptacle 115 Volt Duplex	1
29	3728	Screw—Brush Rack Mounting (#10-24x1 1/2")	4	70	51577	Bottom Support	2
30	484	Lockwasher—Brush Rack Mounting (#10)	4	71	51686	Side Panel (Right)	1
31	456	Nut—Brush Rack Mounting (#10-24)	4	72	51578	Side Panel (Left)	1
32	24849	Pole Shoe Retainer	2	73	21698	Sheet Metal Screw (#10x3/4")	30
33	10846	Machine Screw—Brush Holders (#8-32x1 1/2")	2	74	51608	Rear Cover	1
34	6402	Machine Screw—Capacitor (8-32x3/4")	1	75	44927	Bracket—Electro Magnet	1
35	23532	Spacer	2	76	43291	Generator Support Bracket	1
37	9416	Pole Shoe Screw (Hex 5/16-18x1 3/4")	4	77	487	Cap Screw 5/16-18x3/4	2
39	51712	Field Coil	1	78	480	Lockwasher 5/16	2
40	23597	Allen Screw	4	79	458	Hex Nut 5/16-18	8
41	44948	Acorn Nut (5/16-24)	1	80	480	Lockwasher 5/16	8
42	44894	Hex Jam Nut (5/16-24)	2	81	23623	Rubber Shock Mounting (With Cradle)	4
				82	23770	Rubber Foot (Without Cradle)	4
				83	480	Lock Washer 5/16	4
				84	446	Hex Nut 5/16-24	4

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WINCO GENERATOR PLANT MODEL 3IB143S2D-FE21-A

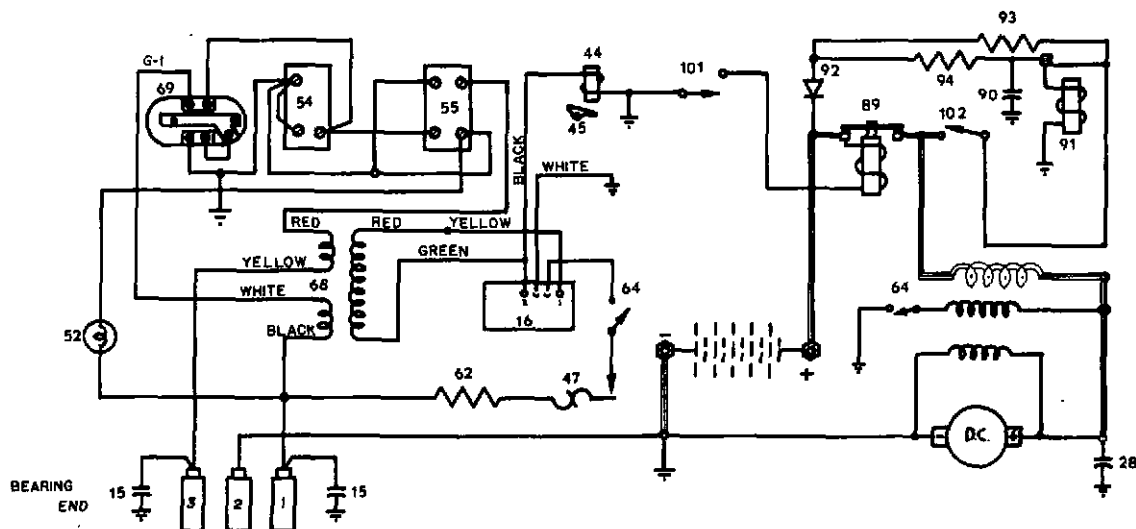


Manufactured by



Division of Dyna Technology, Inc.

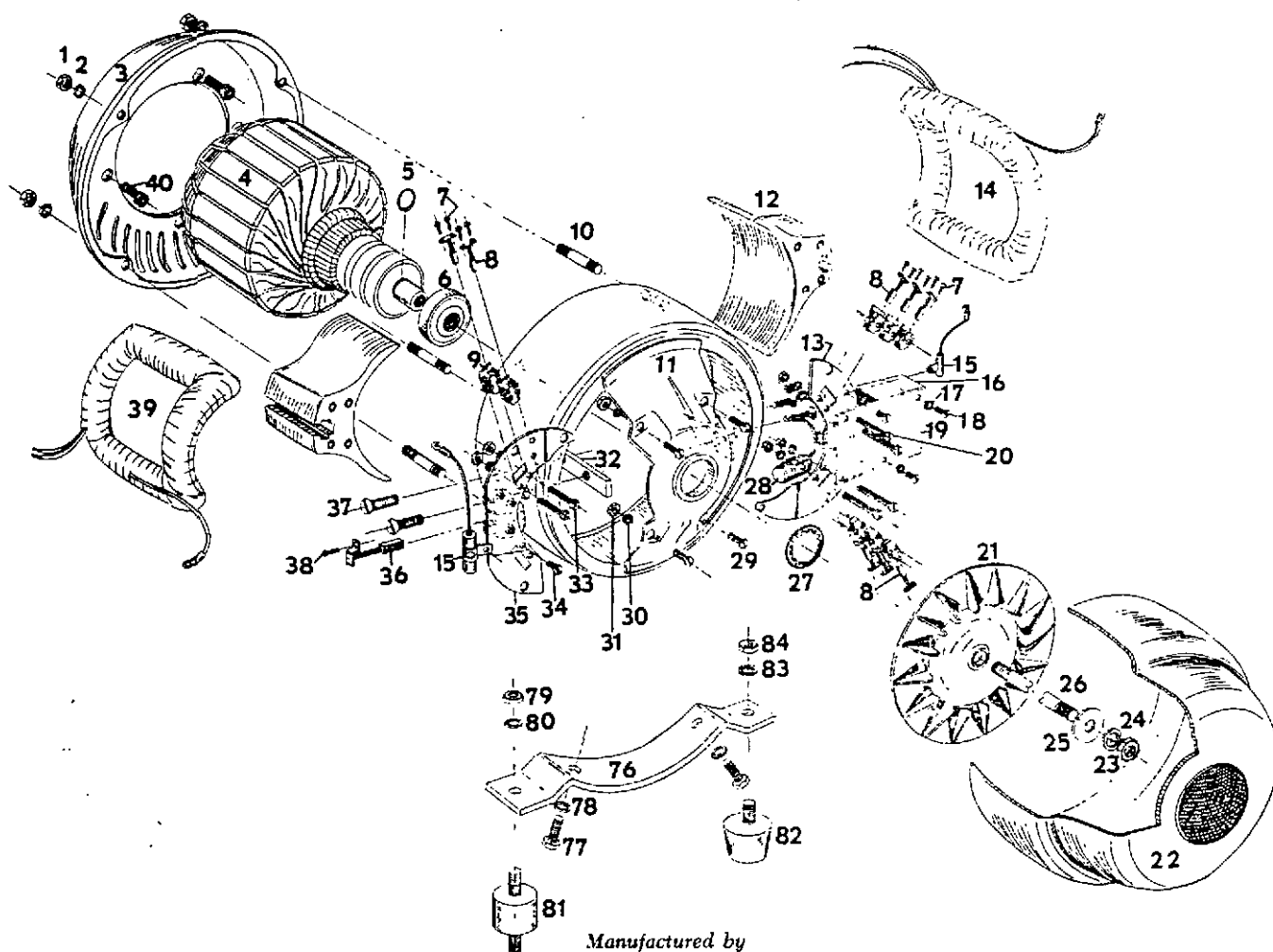
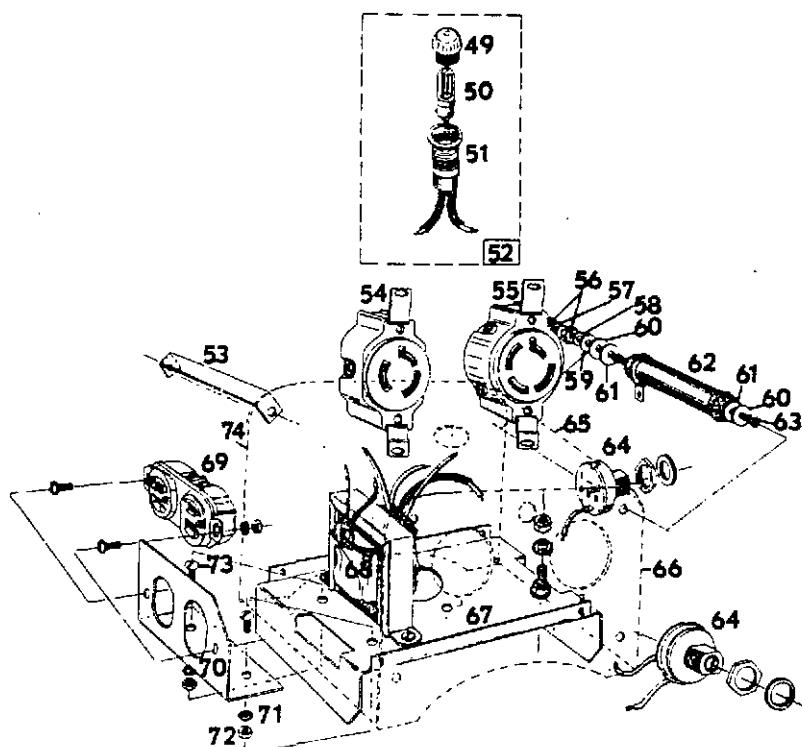
225 South Cordova Le Center, Minnesota 56057 612-357-6821



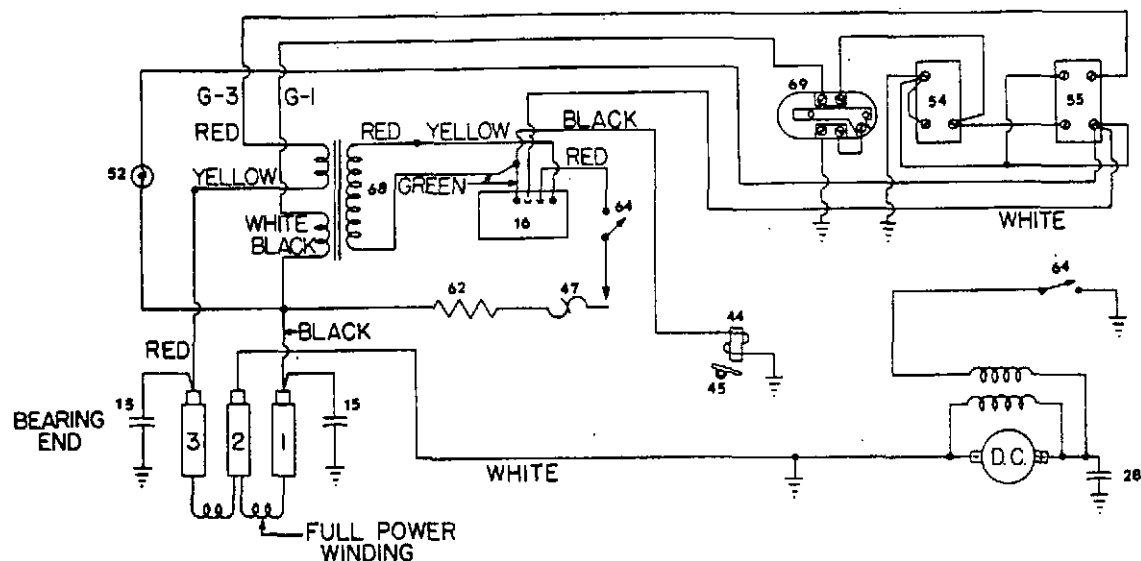
PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	49	44341-1	Dome Only	1
2	480	Stud Nut Lockwasher (5/16")	4	50	43358	Bulb	1
3	43332	End Bracket	1	51	43341	Socket & Dome	1
4	44360-1	Armature	1	52	43340	Socket Assembly	1
5	23568	Bearing Retaining Ring	1	53	24087	Brace—Control Box	1
6	4783	Bearing	1	54	22901	Receptacle 115 Volt	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	16	55	22902	Receptacle 230 Volt	1
8	23607	A.C. Brush	8	56	456	Hex Nut (#10-24)	2
9	23500	Brush Holder—A.C.	8	57	21976	Lockwasher #10 Ext.	1
10	23451	Field Shell Stud	4	58	484	Lockwasher #10	1
11	43327	Field Shell & Bracket	1	59	598	Flatwasher #10	1
12	24851	Pole Shoe	2	60	266	Fiber Washer	6
13	41744-1	Brush Rack & D.C. Brush Holder	1	61	1376	Shoulder Washer	2
14	44372-1	Field Coil	1	62	48583	Resistor	1
15	41221	A.C. Condenser	2	63	25394	Thru Bolt	1
16	48574	Module for Conservor	1	64	44022	Switch	2
17	21976	Lockwasher (#8 Ext.)	2	65	45058	Box Cover	1
18	6402	Screw (8-32x3/8")	2	66	48968	Front Panel	1
19	49507	Bracket—Module	1	67	43966	Saddle	1
20	40550	Machine Screw—Brush Holders (8-32x2")	4	68	40450	Transformer	1
21	23404	Fan	1	69	24749	Receptacle 115 Volt Duplex	1
22	23634	End Cover	1	70	43093	Bracket—Receptacle	1
23	23605	Armature Nut (5/16-24)	1	71	4516	Lockwasher 1/4" Ext.	2
24	480	Armature Lockwasher (5/16")	1	72	638	Hex Nut 1/4-20	4
25	23558	Armature Flat Washer	1	74	49123	Rear Cover	1
26	23197	Armature Thru Bolt	1	75	44927	Bracket—Electro Magnet	1
27	40552	Fan Lockwasher	1	76	43291	Generator Support Bracket	1
28	41180	D.C. Condenser	1	77	467	Cap Screw 5/16-18x3/4	2
29	3728	Screw—Brush Rack Mounting (#10-24x1/2")	4	78	480	Lockwasher 5/16	2
30	484	Lockwasher—Brush Rack Mounting (#10)	8	79	458	Hex Nut 5/16-18	8
31	456	Nut—Brush Rack Mounting (#10-24)	4	80	480	Lockwasher 5/16	8
32	24849	Pole Shoe Retainer	2	81	23623	Rubber Shock Mounting (With Cradle)	4
33	10846	Machine Screw—Brush Holders (#8-32x1 1/2")	2	82	23770	Rubber Foot (Without Cradle)	4
34	6402	Machine Screw—Capacitor (8-32x3/8")	1	83	480	Lockwasher 5/16	4
35	41744	Brush Rack & D.C. Brush Holder	1	84	446	Hex Nut 5/16-24	4
36	41393	D.C. Brush	2	89	24061	Starter Solenoid	1
37	9416	Pole Shoe Screw (Hex 5/16-18x1 3/4")	4	90	42920	Capacitor	1
38	4637	Screw—D.C. Brush (#10-24x3/8")	4	91	24778	Voltage Regulator	1
39	44372	Field Coil	1	92	45930	Rectifier Assembly	1
40	23597	Allen Screw	4	93	24872	Resistor	1
41	44948	Acorn Nut (5/16-24)	1	94	24303	Resistor	1
42	44894	Hex Jam Nut (5/16-24)	2	95	44375	Spacer	1
43	44891	Cover	1	96	43987	Resistor Cover	1
44	44889	Electro Magnet	1	97	9017	Thru Bolt—Resistor	1
45	44892	Bracket—Throttle Lever	1	98	44369	Bracket—Resistor	4
46	44883	Bracket—Cover Thermostat	1	99	599	Screw (#10-32x3/8")	2
47	44945	Thermostat	1	100	6372	Hex Nut (10-32)	4
48	49375	Bracket & Magnet Assembly Complete	1	101	23772	Switch (Start)	1
				102	24238	Switch (Charge)	1
				103	21313	Fiber—Shoulder Washer	1
				104	512	Flat Washer	2
				105	21974	Battery Terminal	2
				106	6892	Fiber Washer	1
				107	21981	Shoulder Washer	1

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.



East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

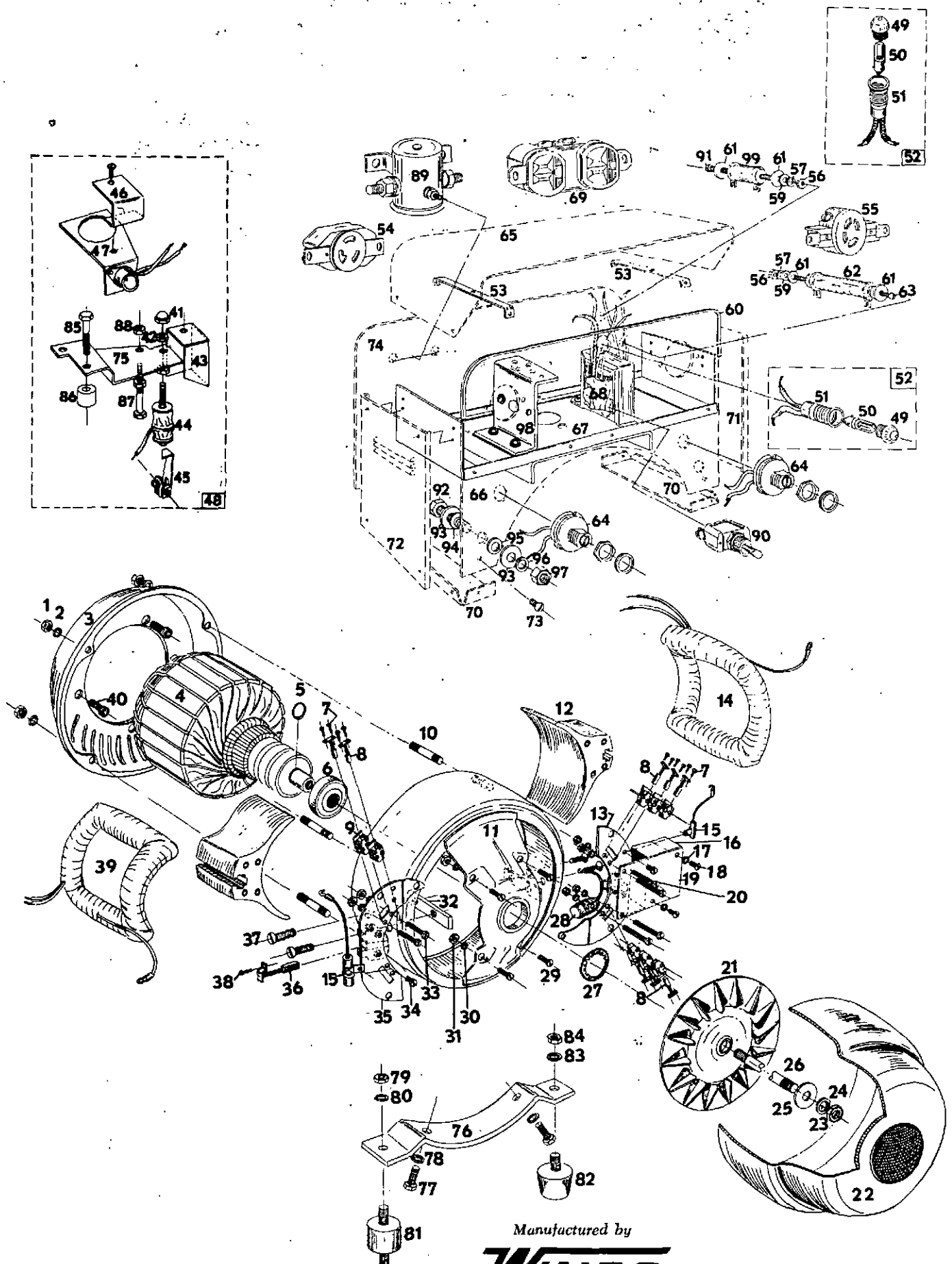


PARTS LIST

Ref No.	Part No.	DESCRIPTION	Quantity	Ref No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	41	44948	Acorn Nut (5/16-24)	1
2	480	Stud Nut Lockwasher (5/16")	4	42	44894	Hex Jam Nut (5/16-24)	2
3	43332	End Bracket	1	43	44891	Cover	1
4	44360-1	Armature	1	44	44889	Electro Magnet	1
5	23568	Bearing Retaining Ring	1	45	44892	Bracket—Throttle Lever	1
6	4783	Bearing	1	46	44883	Bracket—Cover Thermostat	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	16	47	44945	Thermostat	1
8	23607	A.C. Brush	8	48	49375	Bracket & Magnet Assembly Complete	1
9	23500	Brush Holder—A.C.	8	49	44341-1	Dome Only	1
10	23451	Field Shell Stud	4	50	43358	Bulb	1
11	43327	Field Shell & Bracket	1	51	43341	Socket & Dome	1
12	24851	Pole Shoe	2	52	43340	Socket Assembly	1
13	41744-1	Brush Rack & D.C. Brush Holder	1	53	24087	Brace—Control Box	1
14	44361-1	Field Coil	1	54	22901	Receptacle 115 Volt	1
15	41221	A.C. Condenser	2	55	22902	Receptacle 230 Volt	1
16	48574	Module for Conservor	1	56	456	Hex Nut (#10-24)	2
17	21976	Lockwasher (#8 Ext.)	2	57	21976	Lockwasher #10 Ext.	1
18	6402	Screw (8-32x3/8")	2	58	484	Lockwasher #10	1
19	49507	Bracket—Module	1	59	598	Flatwasher #10	1
20	40550	Machine Screw—Brush Holders (8-32x8")	4	60	266	Fiber Washer	2
21	23404	Fan	1	61	1376	Shoulder Washer	2
22	23634	End Cover	1	62	48583	Resistor	1
23	23605	Armature Nut (5/16-24)	1	63	25394	Thru Bolt	1
24	480	Armature Lockwasher (5/16")	1	64	44022	Switch	2
25	23558	Armature Flat Washer	1	65	45058	Box Cover	1
26	23197	Armature Thru Bolt	1	66	48968	Front Panel	1
27	40552	Fan Lockwasher	1	67	43966	Saddle	1
28	41180	D.C. Condenser	1	68	40450	Transformer	1
29	3728	Screw—Brush Rack Mounting (#10-24x1/2")	4	69	24749	Receptacle 115 Volt Duplex	1
30	484	Lockwasher—Brush Rack Mounting (#10)	4	70	43093	Bracket—Receptacle	1
31	456	Nut—Brush Rack Mounting (#10-24)	4	71	4516	Lockwasher 1/4" Ext.	2
32	24849	Pole Shoe Retainer	2	72	638	Hex Nut 1/4-20	2
33	10846	Machine Screw—Brush Holders (#8-32x1 1/2")	2	73	21319	Machine Screw 1/4-20-3/8	2
34	6402	Machine Screw—Capacitor (8-32x3/8")	1	74	48959	Rear Cover	1
35	41744	Brush Rack & D.C. Brush Holder	1	75	44927	Bracket—Electro Magnet	1
36	41393	D.C. Brush	2	76	43291	Generator Support Bracket	1
37	9416	Pole Shoe Screw (Hex 5/16-18x1 3/4")	4	77	467	Cap Screw 5/16-18x3/4	2
38	4637	Screw—D.C. Brush (#10-24x3/8")	4	78	480	Lockwasher 5/16	2
39	44361	Field Coil	1	79	458	Hex Nut 5/16-18	8
40	23597	Allen Screw	4	80	480	Lockwasher 5/16	8
				81	23623	Rubber Shock Mounting (With Cradle)	4
				82	23770	Rubber Foot (Without Cradle)	4
				83	480	Lockwasher 5/16	4
				84	446	Hex Nut 5/16-24	4

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WINCO GENERATOR PLANT MODEL 3WH-FE

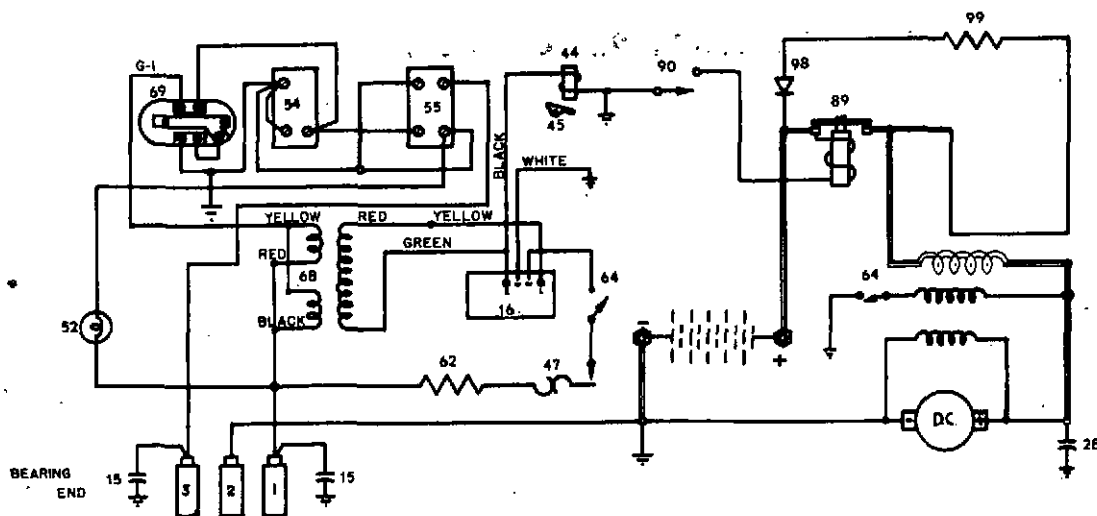


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P.O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

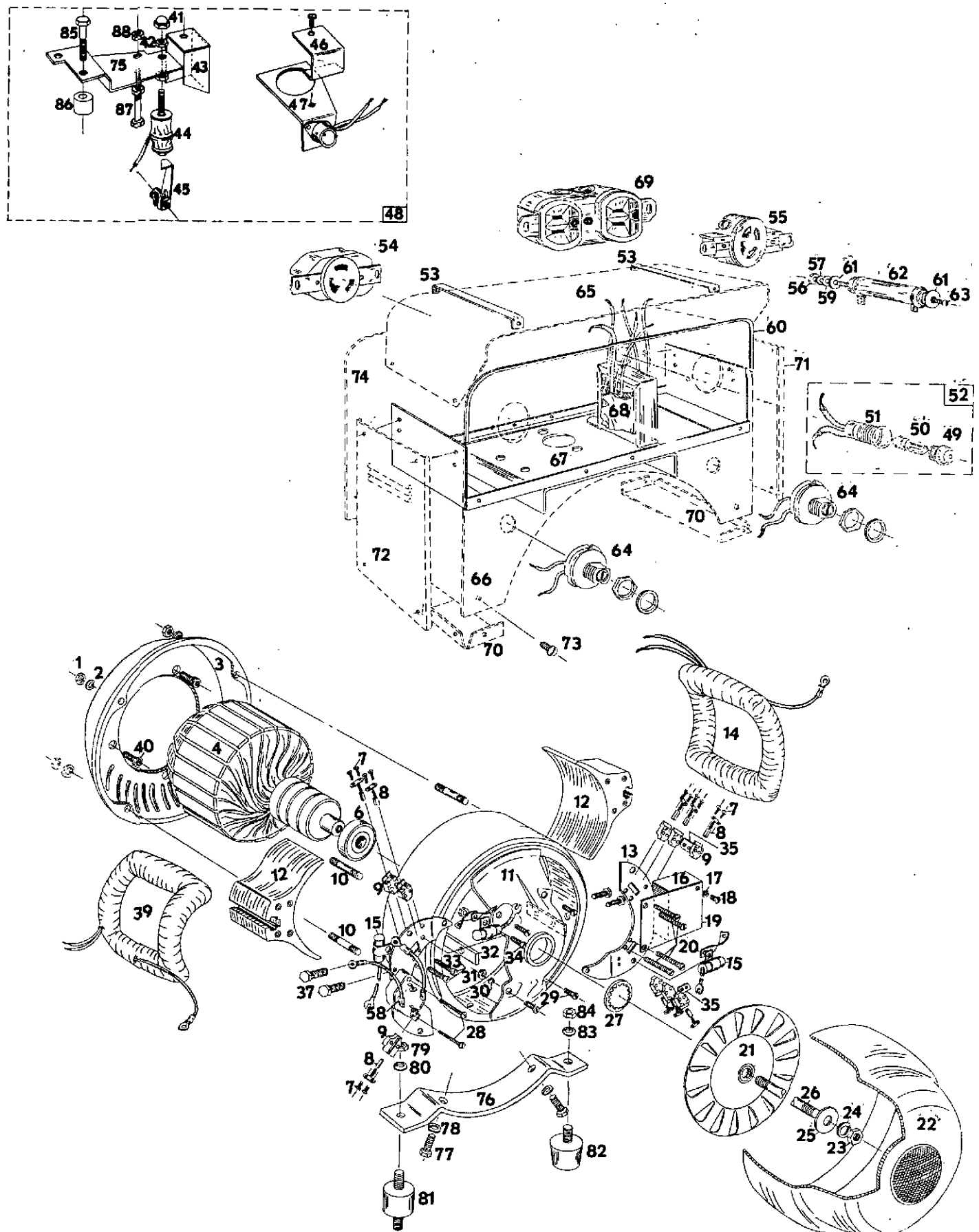


PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	47	49417	Thermostat	1
2	480	Stud Nut Lockwasher (5/16")	4	48	51718-1	Bracket & Magnet Assembly Complete	1
3	23406-1	End Bracket	1	49	43341-1	Dome Only	1
4	44360-1	Armature	1	50	43358	Bulb	1
5	23568	Bearing Retaining Ring	1	51	43341	Socket & Dome	1
6	4783	Bearing	1	52	43340	Socket Assembly	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	16	53	51576	Brace	2
8	23607	A.C. Brush	8	54	22901	Receptacle 115 Volt	1
9	23500	Brush Holder—A.C.	8	55	22902	Receptacle 230 Volt	1
10	23451	Field Shell Stud	4	56	6372	Hex Nut (10-32)	2
11	43327	Field Shell & Bracket	1	57	21975	Lock Washer #10 Ext.	2
12	24851	Pole Shoe	2	59	598	Flatwasher #10	2
13	41744-1	Brush Rack & D.C. Brush Holder	1	60	51696-1	Weather Strip	2
14	44372-1	Field Coil	1	61	1376	Shoulder Washer	4
15	41221	A.C. Condenser	2	62	48583	Resistor	1
16	48574	Module for Conserver	1	63	24864	Machine Screw	1
17	21976	Lockwasher (#8 Ext.)	2	64	44022	Switch	2
18	6402	Screw (8-32x3/8")	2	65	51580	Box Cover	1
19	49507	Bracket—Module	1	66	51597	Front Panel	1
20	40550	Machine Screw—Brush Holders (8-32x2")	4	67	51582	Saddle	1
21	23404	Fan	1	68	40450	Transformer	1
22	23634	End Cover	1	69	24749	Receptacle 115 Volt Duplex	1
23	23605	Armature Nut (5/16-24)	1	70	51577	Bottom Support	2
24	480	Armature Lockwasher (5/16")	1	71	51686	Side Panel—(right)	1
25	23558	Armature Flat Washer	1	72	51578-1	Side Panel—(left)	1
26	23197	Armature Thru Bolt	1	73	21698	Sheet Metal Screw (#10x3/8")	30
27	40552	Fan Lockwasher	1	74	51607	Rear Cover	1
28	41180	D.C. Condenser	1	75	48188	Bracket—Electro Magnet	1
29	3728	Screw—Brush Rack Mounting (#10-24x1/2")	4	76	43291	Generator Support Bracket	1
30	484	Lockwasher—Brush Rack Mounting (#10)	8	77	467	Cap Screw 5/16-18x3/4	2
31	456	Nut—Brush Rack Mounting (#10-24)	4	78	480	Lockwasher 5/16	2
32	24849	Pole Shoe Retainer	2	79	458	Hex Nut 5/16-18	8
33	10846	Machine Screw—Brush Holders (#8-32x1 1/2")	2	80	480	Lockwasher 5/16	8
34	6402	Machine Screw—Capacitor (8-32x3/8")	1	81	23623	Rubber Shock Mounting (With Cradle)	4
35	41744	Brush Rack & D.C. Brush Holder	1	82	23770	Rubber Foot (Without Cradle)	4
36	41393	D.C. Brush	2	83	480	Lockwasher 5/16	4
37	9416	Pole Shoe Screw (Hex 5/16-18x1 1/4")	4	84	446	Hex Nut 5/16-24	4
38	4637	Screw—D.C. Brush (#10-24x3/8")	4	85	48447	Head Bolt	1
39	44372	Field Coil	1	86	48714	Spacer	1
40	40758	Allen Screw	4	87	441	Cap Screw (5/16-18x2")	1
41	44948	Acorn Nut (5/16-24)	1	88	456	Hex Nut (5/16-18)	2
42	44894	Hex Jam Nut (5/16-24)	2	89	24061	Starter Solenoid	1
43	44891	Cover	1	90	52029	Switch—Start	1
44	44889	Electro Magnet	1	91	9688	Machine Screw (#10-32x2 1/2")	1
45	48187	Bracket—Throttle Lever	1	92	21974	Machine Screw (5/16-18x1 1/4" Brass)	2
46	45222	Bracket—Cover Thermostat	1	93	8068	Brass Washer 5/16"	3
				94	21981	Insulation Washer	1
				95	6892	Insulation Washer	1
				96	480	Lockwasher 5/16"	2
				97	458	Hex Nut 5/16-18	2
				98	45930	Reverse Current Diode	1
				99	24872	Resistor	1

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WINCO GENERATOR PLANT MODEL 3WH-FM

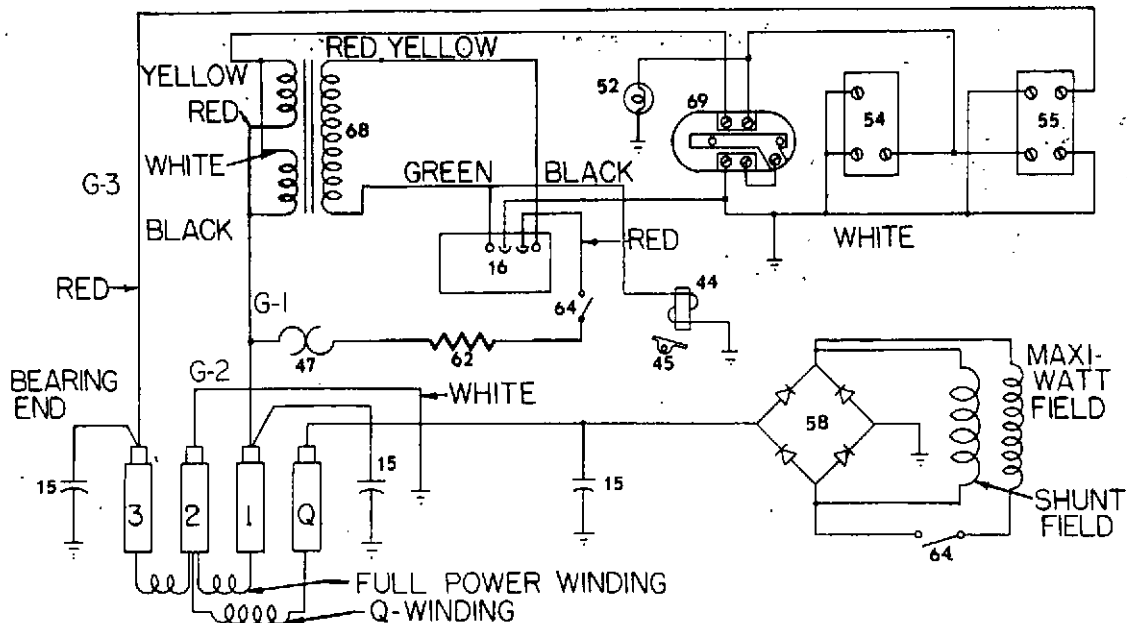


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

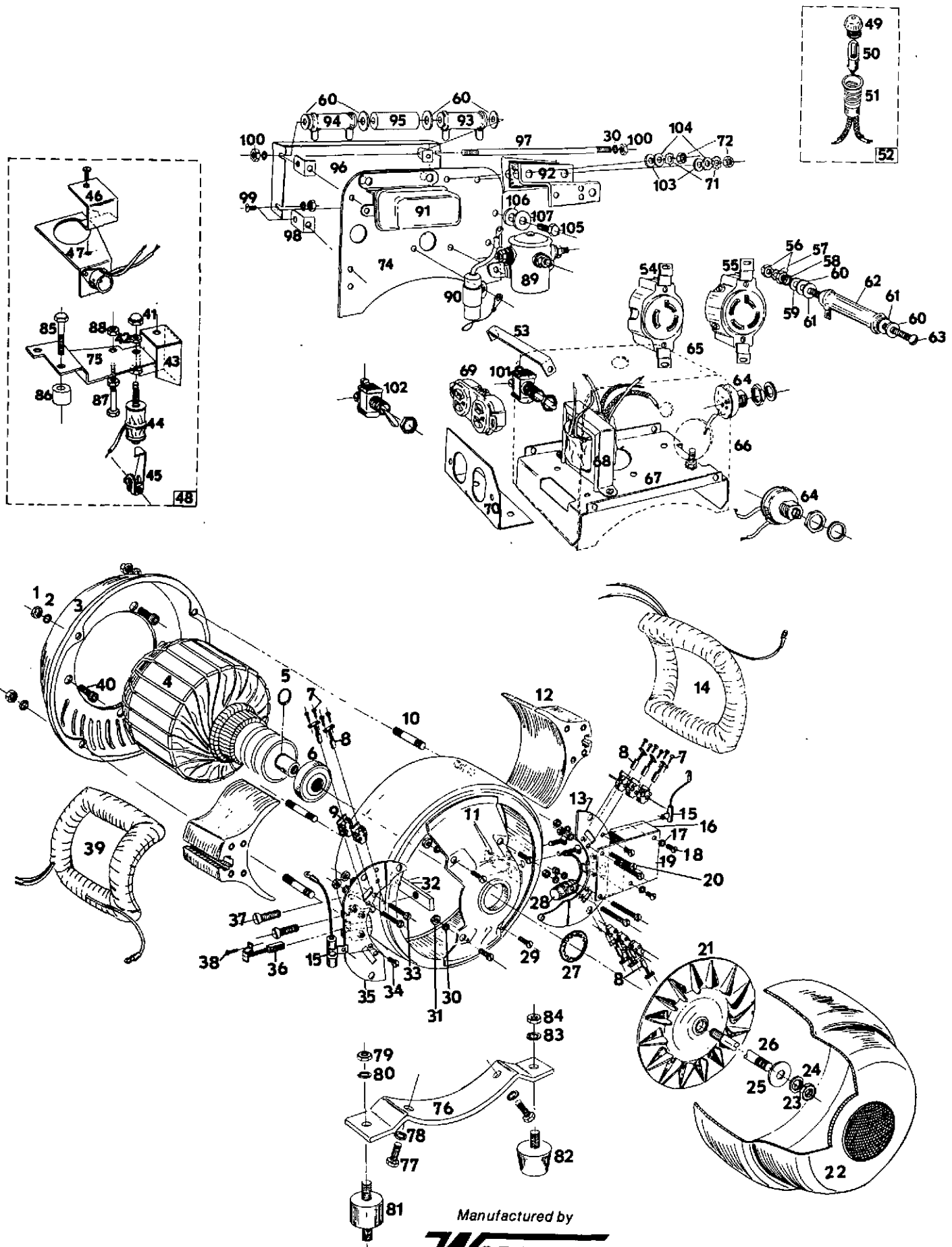


PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	43	44891	Cover	1
2	480	Stud Nut Lockwasher (5/16")	4	44	44889	Electro Magnet	1
3	23406-1	End Bracket	1	45	48187	Bracket—Throttle Lever	1
4	51570-1	Armature	1	46	45222	Bracket—Cover Thermostat	1
6	4783	Bearing	1	47	49417	Thermostat	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	18	48	51718-1	Bracket & Magnet Assembly Complete	1
8	23607	A. C. Brush	9	49	43341-1	Dome Only	1
9	23500	Brush Holder—A.C.	9	50	43358	Bulb	1
10	23451	Field Shell Stud	4	51	43341	Socket & Dome	1
11	43327	Field Shell & Bracket	1	52	43340	Socket Assembly	1
12	24851	Pole Shoe	2	53	51576	Brace	2
13	50471	Brush Rack	2	54	22901	Receptacle 115 Volt	1
14	51712-1	Field Coil	1	55	22902	Receptacle 230 Volt	1
15	41221	A. C. Condenser	3	56	6372	Hex Nut (10-32)	1
16	48574	Module for Conservor	1	57	21975	Lockwasher #10 Ext.	1
17	21976	Lockwasher (#8 Ext.)	2	58	59484	Rectifier	1
18	6402	Screw (8-32x3/8")	2	59	598	Flatwasher #10	1
19	50237	Bracket—Module	1	60	51696-1	Weather Strip	2
20	40550	Machine Screw—Brush Holders (8-32x2")	4	61	1376	Shoulder Washer	2
21	23404	Fan	1	62	48583	Resistor	1
22	23634	End Cover	1	63	24864	Machine Screw	1
23	23605	Armature Nut (5/16-24)	1	64	44022	Switch	2
24	480	Armature Lockwasher (5/16")	1	65	51580	Box Cover	1
25	23558	Armature Flat Washer	1	66	51598	Front Panel	1
26	23197	Armature Thru Bolt	1	67	51582	Saddle	1
27	40552	Fan Lockwasher	1	68	40450	Transformer	1
28	49531	Machine Screw (4-40x1 1/4")	2	69	24749	Receptacle 115 Volt Duplex	1
29	3728	Screw—Brush Rack Mounting (#10-24x1 1/2")	4	70	51577	Bottom Support	2
30	484	Lockwasher—Brush Rack Mounting (#10)	4	71	51686	Side Panel (Right)	1
31	456	Nut—Brush Rack Mounting (#10-24)	4	72	51578	Side Panel (Left)	1
32	24849	Pole Shoe Retainer	2	73	21698	Sheet Metal Screw (#10x3/8")	30
33	10846	Machine Screw—Brush Holders (#8-32x1 1/2")	2	74	51608	Rear Cover	1
34	6402	Machine Screw—Capacitor (8-32x3/8")	1	75	48188	Bracket—Electro Magnet	1
35	23532	Spacer	2	76	43291	Generator Support Bracket	1
37	9416	Pole Shoe Screw (Hex 5/16-18x1 3/4")	4	77	467	Cap Screw 5/16-18x3/4	2
39	51712	Field Coil	1	78	480	Lockwasher 5/16	2
40	40758	Allen Screw	4	79	458	Hex Nut 5/16-18	8
41	44948	Acorn Nut (5/16-24)	1	80	480	Lockwasher 5/16	8
42	44894	Hex Jam Nut (5/16-24)	2	81	23623	Rubber Shock Mounting (With Cradle)	4
				82	23770	Rubber Foot (Without Cradle)	4
				83	480	Lock Washer 5/16	4
				84	446	Hex Nut 5/16-24	4
				85	48447	Head Bolt	1
				86	48714	Spacer	1
				87	441	Cap Screw (5/16-18x2")	1
				88	456	Hex Nut (5/16-18)	2

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WINCO GENERATOR PLANT MODEL 3WS7D2D-FE22-A

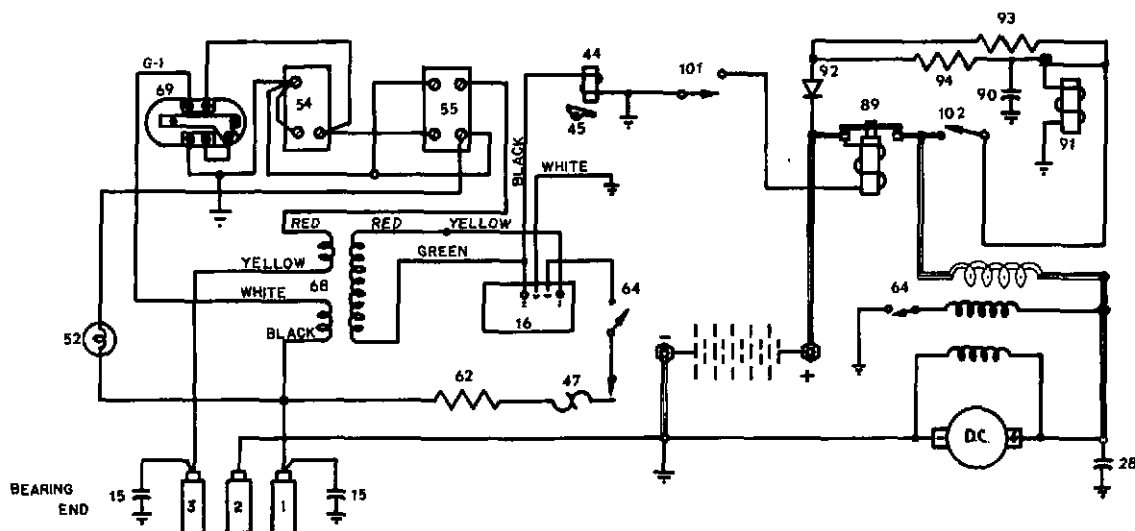


Manufactured by

WINCO

Division of Dyna Technology, Inc.

225 South Cordova Le Center, Minnesota 56057 612-357-6821

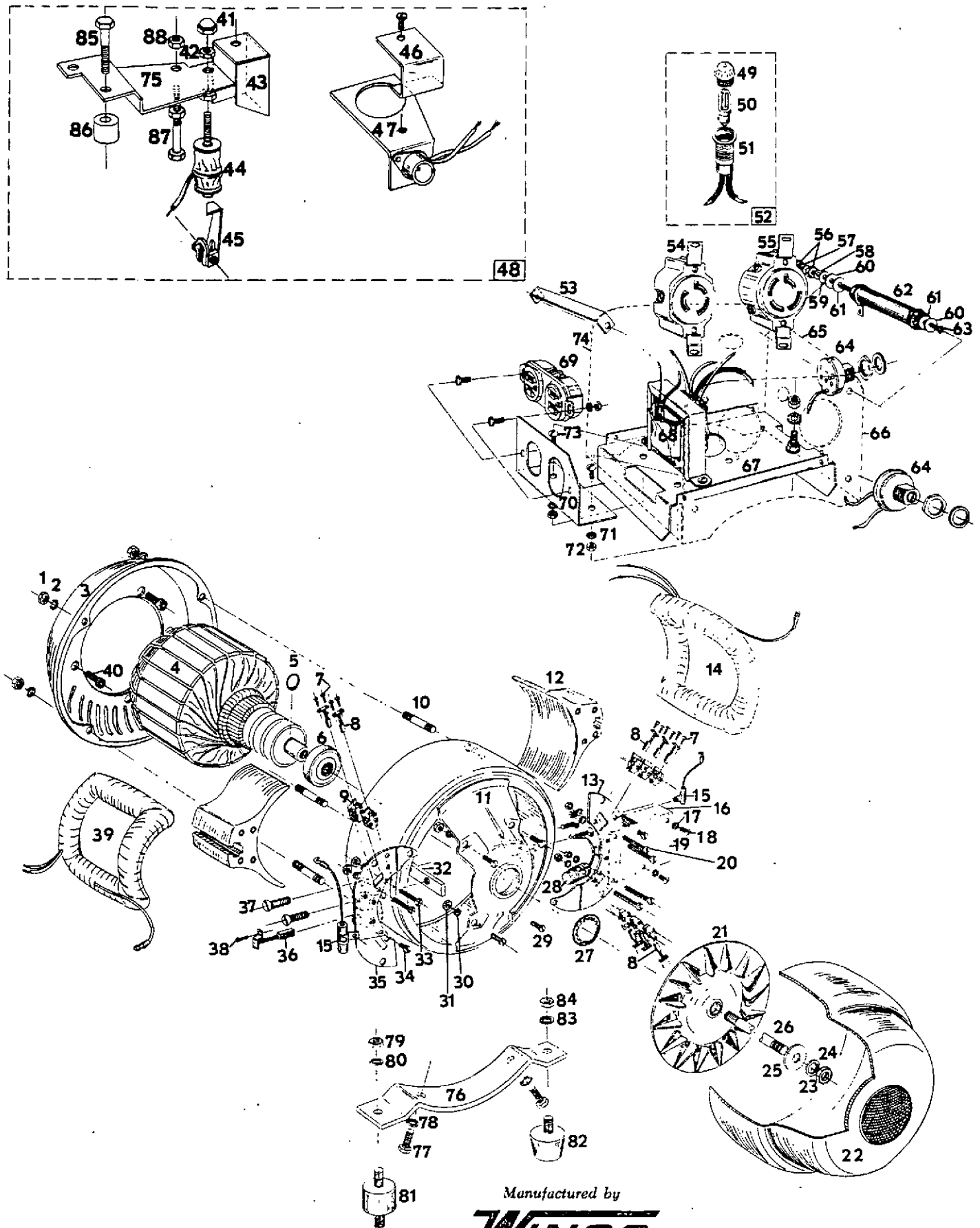


PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	51	43341	Socket & Dome	1
2	480	Stud Nut Lockwasher (5/16")	4	52	43340	Socket Assembly	1
3	23406-1	End Bracket	1	53	24087	Brace—Control Box	1
4	44360-1	Armature	1	54	22901	Receptacle 115 Volt	1
5	23568	Bearing Retaining Ring	1	55	22902	Receptacle 230 Volt	1
6	4783	Bearing	1	56	456	Hex Nut (#10-24)	2
7	40746	Screw—A.C. Brush (#8-32x5/16")	16	57	21976	Lockwasher #10 Ext.	1
8	23607	A.C. Brush	8	58	484	Lockwasher #10	1
9	23500	Brush Holder—A.C.	8	59	598	Flatwasher #10	1
10	23451	Field Shell Stud	4	60	266	Fiber Washer	6
11	43327	Field Shell & Bracket	1	61	1376	Shoulder Washer	2
12	24851	Pole Shoe	2	62	48583	Resistor	1
13	41744-1	Brush Rack & D.C. Brush Holder	1	63	25394	Thru Bolt	1
14	44372-1	Field Coil	1	64	44022	Switch	2
15	41221	A.C. Condenser	2	65	45058	Box Cover	1
16	48574	Module for Conservator	1	66	48968	Front Panel	1
17	21976	Lockwasher (#8 Ext.)	2	67	43966	Saddle	1
18	6402	Screw (8-32x3/8")	2	68	40450	Transformer	1
19	49507	Bracket—Module	1	69	24749	Receptacle 115 Volt Duplex	1
20	40550	Machine Screw—Brush Holders (8-32x2")	4	70	43093	Bracket—Receptacle	1
21	23404	Fan	1	71	4516	Lockwasher 1/4" Ext.	2
22	23634	End Cover	1	72	638	Hex Nut 1/4-20	4
23	23605	Armature Nut (5/16-24)	1	74	49123	Rear Cover	1
24	480	Armature Lockwasher (5/16")	1	75	48188	Bracket—Electro Magnet	1
25	23558	Armature Flat Washer	1	76	43291	Generator Support Bracket	1
26	23197	Armature Thru Bolt	1	77	467	Cap Screw 5/16-18x3/4	2
27	40552	Fan Lockwasher	1	78	480	Lockwasher 5/16	2
28	41180	D.C. Condenser	1	79	458	Hex Nut 5/16-18	8
29	3728	Screw—Brush Rack Mounting (#10-24x1/2")	4	80	480	Lockwasher 5/16	8
30	484	Lockwasher—Brush Rack Mounting (#10)	8	81	23623	Rubber Shock Mounting (With Cradle)	4
31	456	Nut—Brush Rack Mounting (#10-24)	4	82	23770	Rubber Foot (Without Cradle)	4
32	24849	Pole Shoe Retainer	2	83	480	Lockwasher 5/16	4
33	10846	Machine Screw—Brush Holders (#8-32x1 1/2")	2	84	446	Hex Nut 5/16-24	4
34	6402	Machine Screw—Capacitor (8-32x3/8")	1	85	48447	Head Bolt	1
35	41744	Brush Rack & D.C. Brush Holder	1	86	48714	Spacer	1
36	41393	D.C. Brush	2	87	441	Cap Screw (5/16-18x2")	1
37	9416	Pole Shoe Screw (Hex 5/16-18x1 3/4")	4	88	456	Hex Nut (5/16-18)	2
38	4637	Screw—D.C. Brush (#10-24x3/8")	4	89	24061	Starter Solenoid	1
39	44372	Field Coil	1	90	42920	Capacitor	1
40	40758	Allen Screw	4	91	24778	Voltage Regulator	1
41	44948	Acorn Nut (5/16-24)	1	92	45930	Rectifier Assembly	1
42	44894	Hex Jam Nut (5/16-24)	2	93	24872	Resistor	1
43	44891	Cover	1	94	24303	Resistor	1
44	44889	Electro Magnet	1	95	44375	Spacer	1
45	48187	Bracket—Throttle Lever	1	96	43987	Resistor Cover	1
46	45222	Bracket—Cover Thermostat	1	97	9017	Thru Bolt—Resistor	1
47	49417	Thermostat	1	98	44369	Bracket—Resistor	4
48	49392	Bracket & Magnet Assembly Complete	1	99	599	Screw (#10-32x3/8")	2
49	44341-1	Dome Only	1	100	6372	Hex Nut (10-32)	4
50	43358	Bulb	1	101	23772	Switch (Start)	1
				102	24238	Switch (Charge)	1
				103	21313	Fiber—Shoulder Washer	2
				104	512	Flat Washer	2
				105	21974	Battery Terminal	2
				106	6892	Fiber Washer	1
				107	21981	Shoulder Washer	1

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WINCO GENERATOR PLANT MODEL 3WS7D2D-FM22-A

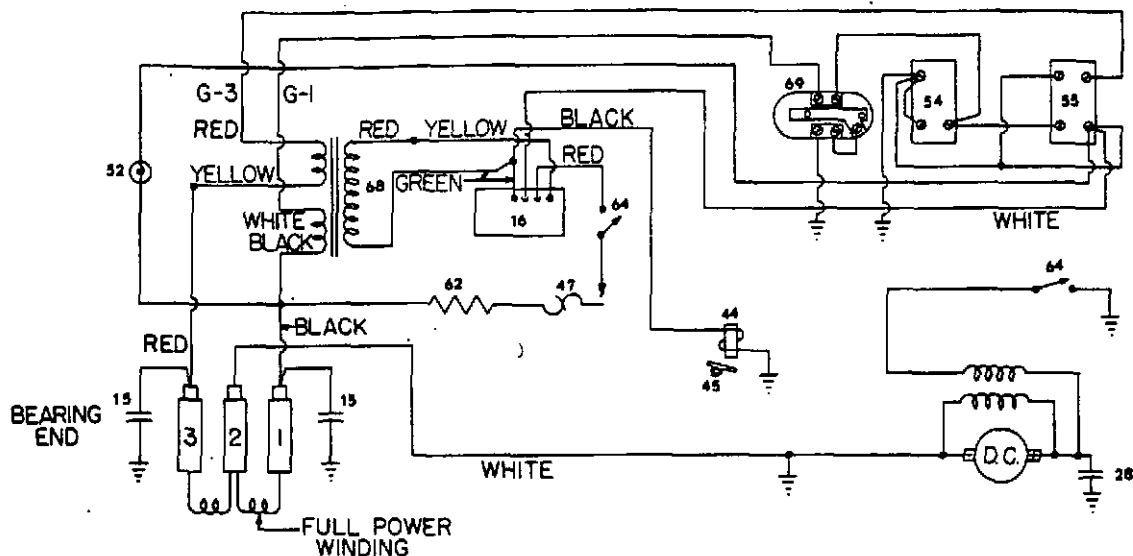


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

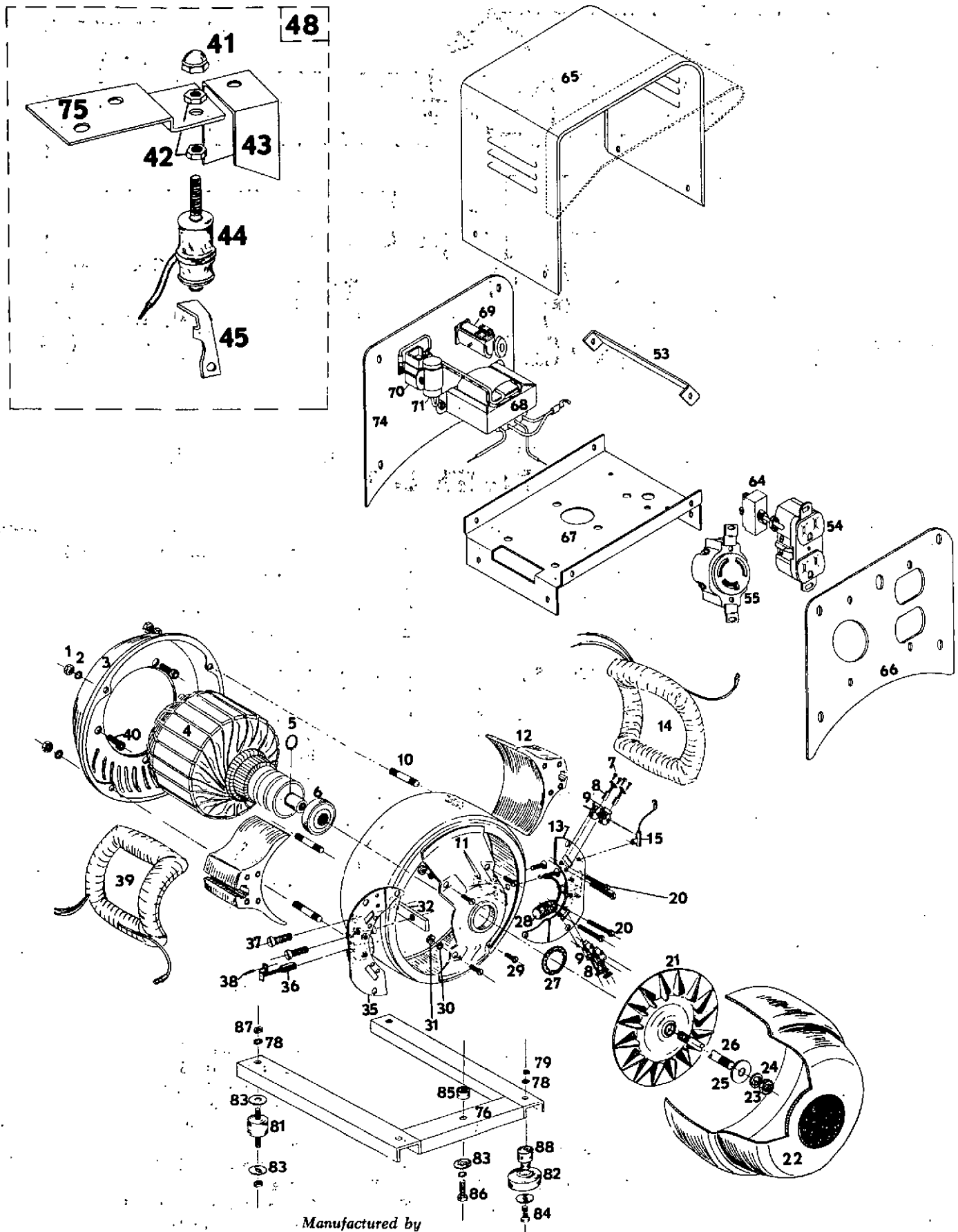


PARTS LIST

Ref No.	Part No.	DESCRIPTION	Quantity	Ref No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	41	44948	Acorn Nut (5/16-24)	1
2	480	Stud Nut Lockwasher (5/16")	4	42	44894	Hex Jam Nut (5/16-24)	2
3	23406-1	End Bracket	1	43	44891	Cover	1
4	44360-1	Armature	1	44	44889	Electro Magnet	1
5	23568	Bearing Retaining Ring	1	45	48187	Bracket—Throttle Lever	1
6	4783	Bearing	1	46	45222	Bracket—Cover Thermostat	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	16	47	49417	Thermostat	1
8	23607	A.C. Brush	8	48	49392	Bracket & Magnet Assembly Complete	1
9	23500	Brush Holder—A.C.	8	49	44341-1	Dome Only	1
10	23451	Field Shell Stud	4	50	43358	Bulb	1
11	43327	Field Shell & Bracket	1	51	43341	Socket & Dome	1
12	24851	Pole Shoe	2	52	43340	Socket Assembly	1
13	41744-1	Brush Rack & D.C. Brush Holder	1	53	24087	Brace—Control Box	1
14	44361-1	Field Coil	1	54	22901	Receptacle 115 Volt	1
15	41221	A.C. Condenser	2	55	22902	Receptacle 230 Volt	1
16	48574	Module for Conservor	1	56	456	Hex Nut (#10-24)	2
17	21976	Lockwasher (#8 Ext.)	2	57	21976	Lockwasher #10 Ext.	1
18	6402	Screw (8-32x3/8")	2	58	484	Lockwasher #10	1
19	49507	Bracket—Module	1	59	598	Flatwasher #10	1
20	40550	Machine Screw—Brush Holders (8-32x2")	4	60	266	Fiber Washer	2
21	23404	Fan	1	61	1376	Shoulder Washer	2
22	23634	End Cover	1	62	48583	Resistor	1
23	23605	Armature Nut (5/16-24)	1	63	25394	Thru Bolt	1
24	480	Armature Lockwasher (5/16")	1	64	44022	Switch	2
25	23558	Armature Flat Washer	1	65	45058	Box Cover	1
26	23197	Armature Thru Bolt	1	66	48968	Front Panel	1
27	40552	Fan Lockwasher	1	67	43966	Saddle	1
28	41180	D.C. Condenser	1	68	40450	Transformer	1
29	3728	Screw—Brush Rack Mounting (#10-24x1/2")	4	69	24749	Receptacle 115 Volt Duplex	1
30	484	Lockwasher—Brush Rack Mounting (#10)	4	70	43093	Bracket—Receptacle	1
31	456	Nut—Brush Rack Mounting (#10-24)	4	71	4516	Lockwasher 1/4" Ext.	2
32	24849	Pole Shoe Retainer	2	72	638	Hex Nut 1/4-20	2
33	10846	Machine Screw—Brush Holders (#8-32x1 1/2")	2	73	21318	Machine Screw 1/4-20-3/8	2
34	6402	Machine Screw—Capacitor (8-32x3/8")	1	74	48959	Rear Cover	1
35	41744	Brush Rack & D.C. Brush Holder	1	75	48188	Bracket—Electro Magnet	1
36	41393	D.C. Brush	2	76	43291	Generator Support Bracket	1
37	9416	Pole Shoe Screw (Hex 5/16-18x1 3/4")	4	77	487	Cap Screw 5/16-18x3/4	2
38	4637	Screw—D.C. Brush (#10-24x3/8")	4	78	480	Lockwasher 5/16	2
39	44361	Field Coil	1	79	458	Hex Nut 5/16-18	8
40	40758	Allen Screw	4	80	480	Lockwasher 5/16	8
				81	23623	Rubber Shock Mounting (With Cradle)	4
				82	23770	Rubber Foot (Without Cradle)	4
				83	480	Lockwasher 5/16	4
				84	446	Hex Nut 5/16-24	4
				85	48447	Head Bolt	1
				86	48714	Spacer	1
				87	441	Cap Screw (5/16-18x2")	1
				88	456	Hex Nut (5/16-18)	2

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WINCO GENERATOR PLANT MODEL 305BH-1M

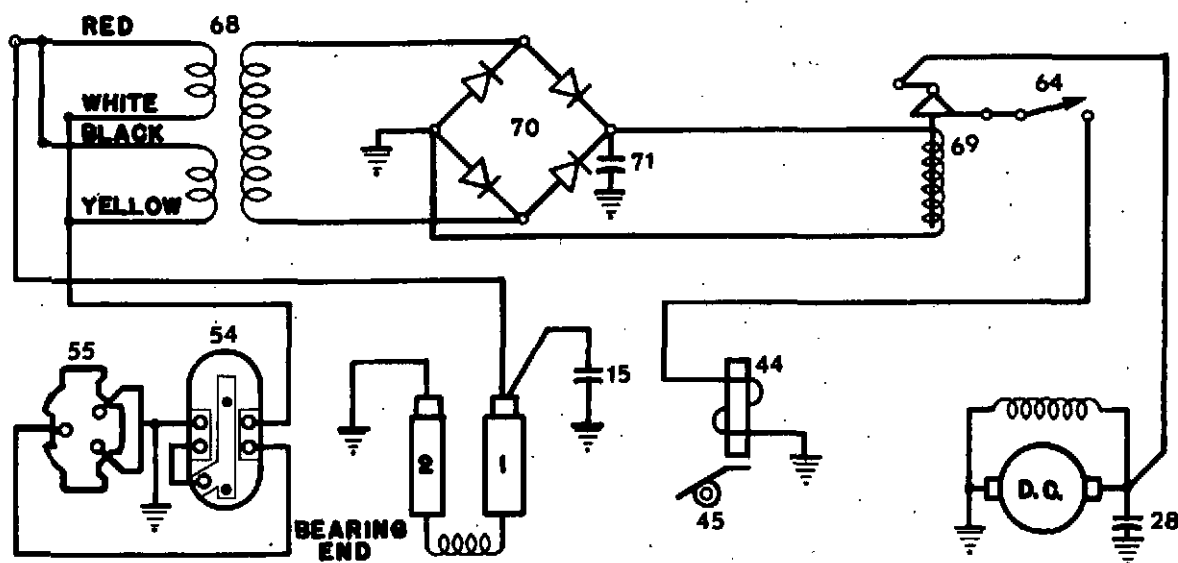


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

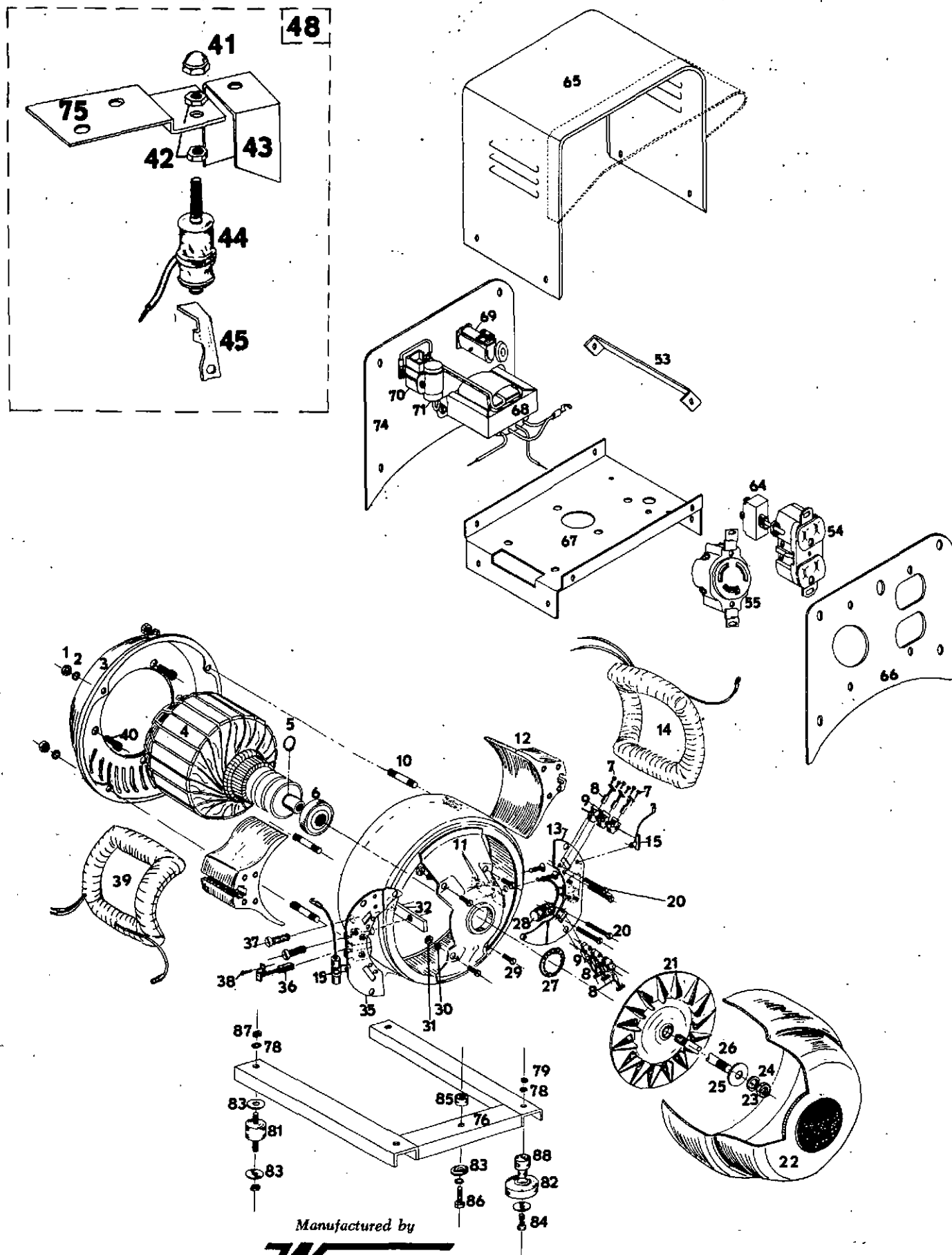


PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	38	4637	Screw—D.C. Brush (#10-24x3/8")	4
2	480	Stud Nut Lock washer (5/16")	4	39	43090	Field Coil	1
3	24211-1	End Bracket	1	40	23604	Allen Screw	4
4	52829-1	Armature	1	41	44948	Acorn Nut (5/16-24)	1
5	23568	Bearing Retaining Ring	1	42	44894	Hex Jam Nut (5/16x24)	2
6	46911	Bearing	1	43	44891	Cover	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	8	44	44889	Electro Magnet	1
8	24981	A.C. Brush	4	45	44892	Bracket—Throttle Lever	1
9	23500-2	Brush Holder—A.C.	4	48	45198	Bracket & Magnet Assembly Complete	1
10	23451	Field Shell Stud	4	53	24087	Brace—Control Box	2
11	52776	Field Shell & Bracket	1	54	24749	Receptacle 115 Volt Duplex	1
12	23207	Pole Shoe	2	55	22901	Receptacle 115 Volt Single	1
13	41745-1	Brush Rack & D.C. Brush Holder	1	64	24238	Switch	1
14	43090-1	Field Coil	1	65	48355	Box Cover	1
15	41221	A.C. Condenser	1	66	43394-3	Front Panel	1
21	23404	Fan	1	67	23849-1	Saddle	1
22	23634	End Cover	1	68	40450	Transformer	1
23	23605	Armature Nut (5/16-24)	1	69	40595	Relay	1
24	480	Armature Lockwasher (5/16")	1	70	42277	Rectifier	1
25	23558	Armature Flat Washer	1	71	41172	Condenser	1
26	23197-5	Armature Thru Bolt	1	74	43399	Rear Cover	1
27	40552	Fan Lockwasher	1	75	44926	Bracket—Electro Magnet	1
28	41180	D.C. Condenser	1	76	23754	Sub Frame	1
29	3728	Screw—Brush Rack Mounting (#10-24x1 1/2")	4	78	480	Lock Washer 5/16	5
30	484	Lockwasher—Brush Rack Mounting (#10)	4	79	458	Hex Nut 5/16-18	4
31	456	Nut—Brush Rack Mounting (#10-24)	4	81	23623	Rubber Shock Mounting (With Cradle)	4
32	23208	Pole Shoe Retainer	2	82	20952	Rubber Foot (Without Cradle)	4
33	10846	Machine Screw—Brush Holders (#8-32x1 1/2")	4	83	23760	Flat Washer	1
35	41745	Brush Rack & D.C. Brush Holder	1	84	580	Cap Screw (5/16-18x1 1/4")	4
36	41393	D.C. Brush	2	85	20561	Spacer	1
37	9416	Pole Shoe Screw (Hex 5/16-18x1 3/4")	4	86	468	Cap Screw (5/16x18x1 1/2")	1
				87	446	Hex Nut (5/16-24)	8
				88	24187	Spacer	4

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

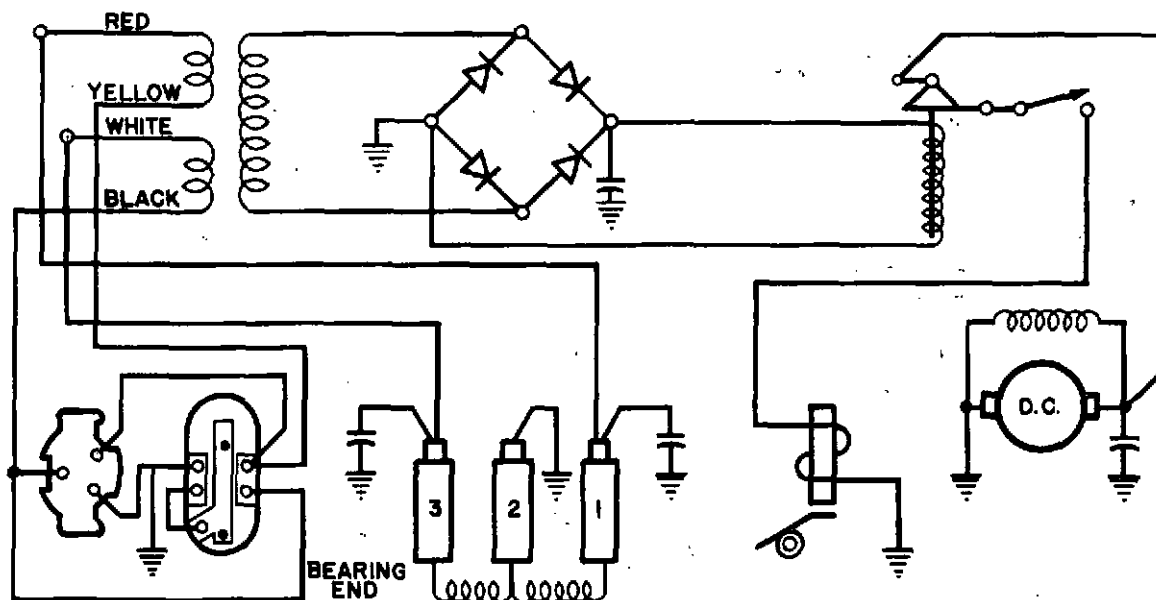
WINCO GENERATOR PLANT MODEL 305BH-3M



Manufactured by

WINCO

Division of Dyna Technology, Inc.



PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	38	4637	Screw—D.C. Brush (#10-24x $\frac{3}{8}$ ")	4
2	480	Stud Nut Lock washer (5/16")	4	39	43090	Field Coil	1
3	24211-1	End Bracket	1	40	23604	Allen Screw	4
4	43019-1	Armature	1	41	44948	Acorn Nut (5/16-24)	1
5	23568	Bearing Retaining Ring	1	42	44894	Hex Jam Nut (5/16x24)	2
6	46911	Bearing	1	43	44891	Cover	1
7	40746	Screw—A.C. Brush (#8-32x5/16")	12	44	44889	Electro Magnet	1
8	23607	A.C. Brush	6	45	44892	Bracket—Throttle Lever	1
9	23500	Brush Holder—A.C.	6	48	45198	Bracket & Magnet Assembly Complete	1
10	23451	Field Shell Stud	4	53	24087	Brace—Control Box	2
11	52776	Field Shell & Bracket	1	54	24749	Receptacle 115 Volt Duplex	1
12	23207	Pole Shoe	2	55	22901	Receptacle 230 Volt Single	1
13	41745-1	Brush Rack & D.C. Brush Holder	1	64	24238	Switch	1
14	43090-1	Field Coil	1	65	48355	Box Cover	1
15	41221	A.C. Condenser	2	66	43394-2	Front Panel	1
21	23404	Fan	1	67	23849-1	Saddle	1
22	23634	End Cover	1	68	40450	Transformer	1
23	23605	Armature Nut (5/16-24)	1	69	40595	Relay	1
24	480	Armature Lockwasher (5/16")	1	70	42277	Rectifier	1
25	23558	Armature Flat Washer	1	71	41172	Condenser	1
26	23197-5	Armature Thru Bolt	1	74	43399	Rear Cover	1
27	40552	Fan Lockwasher	1	75	44926	Bracket—Electro Magnet	1
28	41180	D.C. Condenser	1	76	23754	Sub Frame	1
29	3728	Screw—Brush Rack Mounting (#10-24x $\frac{1}{2}$ ")	4	78	480	Lock Washer 5/16	5
30	484	Lockwasher—Brush Rack Mounting (#10)	4	79	458	Hex Nut 5/16-18	4
31	456	Nut—Brush Rack Mounting (#10-24)	4	81	23623	Rubber Shock Mounting (With Cradle)	4
32	23208	Pole Shoe Retainer	2	82	20952	Rubber Foot (Without Cradle)	4
33	23867	Machine Screw—Brush Holders (#8-32x1 $\frac{3}{4}$ ")	4	83	23760	Flat Washer	1
35	41745	Brush Rack & D.C. Brush Holder	1	84	580	Cap Screw (5/16-18x1 $\frac{1}{4}$ ")	4
36	41393	D.C. Brush	2	85	20561	Spacer	1
37	9416	Pole Shoe Screw (Hex 5/16-18x1 $\frac{3}{4}$ ")	4	86	468	Cap Screw (5/16x18x1 $\frac{1}{2}$ ")	1
				87	446	Hex Nut (5/16-24)	8
				88	24187	Spacer	4

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

Wiring Diagram C56914
Schematic N/A
Generator Parts
Unassembled C56912
Complete Unit
Part # C56911

REPAIR
PARTS LIST
#470

Size 3500 Watts
Drive Direct
Type Two Pole
Unit Model # 305BH-FE/I

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	56916	1	Control Box Assy.	56913	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-2	1	Front Panel (Bare)	56324-1	1
			Rear Panel (Bare)	56925	1
Fan Assy.	55101	1	Receptacle (115) (15A)	24749	1
Fan Washer	23558	1	Receptacle (115) (20A)	56279	1
Fan Lockwasher	55224	1	Receptacle (230) (20A)	56281	1
Fan Nut	23605	1	Resistor (Charge)	56924	1
			Heat Sink & Diode Assy.	54733	1
Field Coil	54752	1	Start Switch	52029	1
Field Coil	54752-1	1	Start Solenoid	24061	1
Shell & Bracket Assy.	56917	1	Conservor Assy.		
Pole Shoe	24851	2	(Complete)	55797	1
Pole Shoe Retainer	24849	2	Module	56921	1
Engine Adaptor Brkt.	54178	1	Transformer	54196	1
Adaptor Brkt. Screw	3290	4	Electro Magnet	44889	1
End Cover Assy.	55007	1	Formed Bracket	44927	1
			Lever (Throttle)	44892	1
Brush Rack Assy.	49551	1	Resistor	48583	1
(Complete)	& -1	1	Switch	24238	1
A. C. Brush	23607	8	Cover	44891	1
A. C. Brush Holder	23500	8	Cover Nut	44948	1
D. C. Brush	41393	2			
D. C. Brush Holder	41744	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Cradle	43297-1	1			
Sub Frame	43291	1			
Shock Mounts	23623	4			

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C56964

Schematic N/A

Generator Parts

Unassembled C56956

Complete Unit

Part # C56965

REPAIR
PARTS LIST
#516

Size 3500 Watts

Drive Direct

Type Two Pole

Unit Model # 305BH-FM/I

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	56961-1	1	Control Box Assy.	56963	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-2	1	Front Panel (Bare)	56324-1	1
			Rear Panel (Bare)	51608	1
Fan Assy.	55101	1	Receptacle (115)(15A)	24749	1
Fan Washer	23558	1	Receptacle (230)(20A)	56281	1
Fan Lockwasher	55224	1	Receptacle (115)(20A)	56279	1
Fan Nut	23605	1			
			Conserver Assy.		
Field Coil	56958	1	(Complete)	55797	1
Field Coil	56958-1	1	Module	56921	1
			Transformer	54196	1
Shell & Bracket Assy.	56917	1	Electro Magnet	44889	1
Pole Shoe	24851	2	Formed Bracket	44927	1
Pole Shoe Retainer	24849	2	Lever (Throttle)	44892	1
Engine Adaptor Brkt.	54178	1	Resistor	48583	1
Adaptor Brkt. Screw	3290	4	Switch	24238	1
End Cover Assy.	55007	1	Cover	44891	1
			Cover Nut	44948	1
Brush Rack Assy.	56959	1			
(Complete)	& -1	1			
A. C. Brush	55536	9			
A. C. Brush Holder	23500	9			
Brush Holder Plate	56960	2			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Cradle	43297-1	1			
Shock Mounts	23623	4			

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C56954
 Schematic N/A
 Generator Parts
 Unassembled C56912
 Complete Unit
 Part # C56946

 REPAIR
 PARTS LIST
 #478

Size 3500 Watts
 Drive Direct
 Type Two Pole
 Unit Model # 305BH-FR/I

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	56916	1	Control Box Assy.	56948	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-2	1	Front Panel (Bare)	56953	1
			Rear Panel (Bare)	56925	1
Fan Assy.	55101	1	Receptacle (115) (15A)	24749	1
Fan Washer	23558	1	Resistor (Charge)	56924	1
Fan Lockwasher	55224	1	Diode Assy.	54023-1	1
Fan Nut	23605	1	Start Stop Switch	23772	1
			Heat Sink	54733	1
Field Coil	54752	1	Fuse	45722	1
Field Coil	54752-1	1	Fuse Holder	2489	1
			Start Solenoid	24061	1
Shell & Bracktt Assy.	56917	1			
Pole Shoe	24851	2			
Pole Shoe Retainer	24849	2			
Engine Adaptor Brkt.	54178	1			
Adaptor Brkt. Screw	3290	4			
End Cover Assy.	55007	1			
Brush Rack Assy. (Complete)	49551	1			
A. C. Brush	23607	8			
A. C. Brush Holder	23500	8			
D. C. Brush	41393	2			
D. C. Brush Holder	41774	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	1			
D. C. Condenser	41180	1			
Module Bracket	49507	1			
Cradle	43297-1	1			
Sub Frame	43291	1			
Shock Mounts	23623	4			
Fuel Pump Kit	44902	1			

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 44849

Wiring Diagram C57277
 Schematic N/A
 Generator Parts
 Unassembled A57701
 Complete Unit
 Part # C57241

 ** REPAIR **
 ** PARTS LIST **
 ** #505 **

Size 3500 Watts
 Drive Direct
 Type Four Pole

Unit Model # 305LDS-1E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	57158-1	1	Control Box Assy.	57278	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	55146	1	Front Panel (Bare)	57702	1
			Rear Panel (Bare)	57265	1
Fan Assy.	55101	1	Receptacle (115)(20A)	56297	1
Fan Washer	23558	1	Receptacle (115)(20A)	50766	1
Fan Lockwasher	55224	1	Receptacle (110)(30A)	56359	1
Fan Nut	23605	1	Resistor (Charge)	41254	1
			Heat Sink &		
Field Coil	55261	1	Diode Assy.	47731	1
Field Coil	55261-1	1	Start Stop Switch	52029	1
Field Coil	55261-2	1	Fuse	43798	1
Field Coil	55261-3	1	Fuse Holder	2489	1
Shell & Bracket Assy.	57404	1	Transformer	43945	1
Pole Shoe	23550	4			
Pole Shoe Retainer	23552	4			
Engine Adaptor Brkt.	55258	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	55007	1			
Brush Rack Assy. (Complete)	57152	1			
A. C. Brush	23607	6			
A. C. Brush Holder	23500	6			
Brush Holder Plate	55612	1			
A. C. Condenser	54977	1			
Rectifier (Excitation)	55143	1			
Frame	57438	1			

ENGINE MAKE Lister Diesel MODEL # SR1 PART # 57427

Wiring Diagram C57266

Schematic N/A

Generator Parts

Unassembled C57243

Complete Unit

Part # C57243

** REPAIR **
** PARTS LIST **
** #507 **

Size 3500 Watts

Drive Direct

Type Four Pole

Unit Model # 305LDS-3E/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55145	1	Control Box Assy.	57262	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	55146	1	Front Panel (Bare)	56324-3	1
			Rear Panel (Bare)	57265	1
Fan Assy.	55101	1	Receptacle (115)(20A)	57066	1
Fan Washer	23558	1	Receptacle (115)(20A)	56279	1
Fan Lockwasher	55224	1	Receptacle (230)(20A)	56281	1
Fan Nut	23605	1	Resistor (Charge)	41254	1
			Heat Sink &		
Field Coil	55261	1	Diode Assy.	47731	1
Field Coil	55261-1	1	Start Stop Switch	52029	1
Field Coil	55261-2	1	Fuse	43798	1
Field Coil	55261-3	1	Fuse Holder	2489	1
Shell & Bracket Assy.	57404	1	Transformer	43945	1
Pole Shoe	23550	4			
Pole Shoe Retainer	23552	4			
Engine Adaptor Brkt.	55258	1			
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	55007	1			
Brush Rack Assy.					
(Complete)	55262	1			
A. C. Brush	23607	6			
A. C. Brush Holder	23500	6			
Brush Holder Plate	55107	1			
A. C. Condenser	41221	1			
A. C. Condenser	54977	1			
Rectifier (Excitation)	55143	1			
Frame	57438	1			

ENGINE MAKE Lister Diesel MODEL # SR1 PART # 57427

Wiring Diagram C56964Schematic N/A

Generator Parts

Unassembled C56956

Complete Unit

Part # 56965

 REPAIR
 PARTS LIST
 #471

Size 3500 WattsDrive DirectType Two PoleUnit Model # 305WH-FM/J

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	56961-1	1	Control Box Assy.	56963	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-2	1	Front Panel (Bare)	56324-1	1
			Rear Panel (Bare)	51608	1
Fan Assy.	55101	1	Receptacle (115) (15A)	24749	1
Fan Washer	23558	1	Receptacle (115) (20A)	56279	1
Fan Lockwasher	55224	1	Receptacle (230) (20A)	56281	1
Fan Nut	23605	1			
			Conservator Assy.		
Field Coil	56958	1	(Complete)	56505	1
Field Coil	56958-1	1	Module	56921	1
			Transformer	54196	1
Shell & Brkt. Assy.	56917	1	Electro Magnet	44889	1
Pole Shoe	24851	2	Formed Bracket	56502	1
Pole Shoe Retainer	24849	2	Lever (Throttle)	48187	1
Engine Adaptor Brkt.	54178	1	Resistor	48583	1
Adaptor Brkt. Screw	3290	4	Switch	24238	1
End Cover Assy.	55007	1	Cover	44891	1
			Cover Nut	44948	1
Brush Rack Assy.	56959	1			
(Complete)	& -1	1			
A. C. Brush	55536	9			
A. C. Brush Holder	23500	9			
Brush Holder					
Plate Assy.	56960	2			
A. C. Condenser	41221	3			
Rectifier (Exc.)	53976	1			
Cradle	43297-1	1			
Sub Frame	43291	1			
Shock Mounts	23623	4			

ENGINE MAKE Wisconsin MODEL # S8D PART # 48266

Wiring Diagram C57363

Schematic N/A

Generator Parts

Unassembled A57360

Complete Unit

Part # C57285-2

REPAIR
PARTS LIST
#502

Size -3500 Watts

Drive Direct

Type Two Pole

Unit Model # FD305BH-1E/I

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	56945-1	1	Control Box Assy.	57361-2	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-2	1	Front Panel (Bare)	57366-1	1
			Rear Panel (Bare)	51973	1
Fan Assy.	55101	1	Receptacle (115)	48323	1
Fan Washer	23558	1	Receptacle (230)	51653	2
Fan Lockwasher	55224	1	Receptacle (115)	56279	2
Fan Nut	23605	1	Start Stop Switch	52029	1
			Start Solenoid	24061	1
Field Coil	54752	1	Connector Half	43659	1
Field Coil	54752-1	1			
Shell & Bracket Assy.	56917	1	Conservar Assy.		
Pole Shoe	24851	2	(Complete)	55797	1
Pole Shoe Retainer	24849	2	Module	56921	1
Engine Adaptor Brkt.	54178	1	Transformer	54196	1
Adaptor Brkt. Screw	3290	4	Electro Magnet	44889	1
End Cover Assy.	55007	1	Formed Bracket	44927	1
			Lever (Throttle)	44892	1
			Resistor	48583	1
Brush Rack Assy.	57307	1	Switch	24238	1
(Complete)	& -1	1	Cover	44891	1
A. C. Brush	23607	6	Cover Nut	44948	1
A. C. Brush Holder	23500	6			
D. C. Brush	41393	2			
D. C. Brush Holder	41744	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	1			
D. C. Condenser	41180	1			
Cradle	43297-1	1			
Shock Mounts	23623	4			

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C57362
 Schematic N/A
 Generator Parts
 Unassembled C56912
 Complete Unit
 Part # C57285

 REPAIR
 PARTS LIST
 #498

Size 3500 Watts
 Drive Direct
 Type Two Pole

Unit Model # FD305BH-FE/I

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	56916-1	1	Control Box Assy.	57361	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-2	1	Front Panel (Bare)	57366	1
			Rear Panel (Bare)	51607	1
Fan Assy.	55101	1	Receptacle	48323	1
Fan Washer	23558	1	Receptacle (230)	56281	1
Fan Lockwasher	55224	1	Receptacle	56279	1
Fan Nut	23605	1	Receptacle	51653	2
			Start Stop Switch	52029	1
Field Coil	54752	1	Start Solenoid	24061	1
Field Coil	54752-1	1	Connector Half	43659	1
Shell & Bracket Assy.	56917	1	Conserver Assy.		
Pole Shoe	24851	2	(Complete)	55797	1
Pole Shoe Retainer	24849	2	Module	56921	1
Engine Adaptor Brkt.	54178	1	Transformer	54196	1
Adaptor Brkt. Screw	3290	4	Electro Magnet	44889	1
End Cover Assy.	55007	1	Formed Bracket	44927	1
			Lever (Throttle)	44892	1
Brush Rack Assy.	49551	1	Resistor	48583	1
(Complete)	& -1	1	Switch	24238	1
A. C. Brush	23607	8	Cover	44891	1
A. C. Brush Holder	23500	8	Cover Nut	44948	1
D. C. Brush	41393	2			
D. C. Brush Holder	41744	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Cradle	43297-1	1			
Shock Mounts	23623	4			

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C54136
Schematic N/A
Generator Parts
Unassembled C55389
Complete Unit
Part # C55388

REPAIR
PARTS LIST
#531

Size 3500 Watts
Drive Direct
Type Two Pole

Unit Model # P305BH-3E/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55309-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-2	1
Fan Assy.	51011	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55391	1
Field Coil	55391-1	1
Shell & Bracket Assy.	53722	1
Pole Shoe	24851	2
Pole Shoe Retainer	24849	2
Engine Adaptor Bracket	54178	1
Adaptor Bracket Screw	3290	4
End Cover Assy.	55367	1
End Cover Receptacle	53636	2
End Cover Receptacle (230V)	55253	1
Brush Rack Assy.	55392	1
(Complete)	& -1	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
D. C. Brush	41393	2
D. C. Brush Holder	41744	1
& Plate Assy.	& -1	1
A. C. Condenser	41221	2
D. C. Condenser	41180	1
Resistor (Charge)	24236	1
Start Switch	2210	1
Heat Sink	54733	1
Spring Feet	55096	4
Handle	53740	1

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C55313
Schematic N/A
Generator Parts
Unassembled C55313
Complete Unit
Part # C55330

REPAIR
PARTS LIST
#530

Size 3500 Watts
Drive Direct
Type Two Pole
Unit Model # P305BH-3M/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55106-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-2	1
Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55378	1
Field Coil	55378-1	1
Shell & Bracket Assy.	53722	1
Pole Shoe	24851	2
Pole Shoe Retainer	24849	2
Engine Adaptor Bracket	54178	1
Adaptor Bracket Screw	3290	4
End Cover Assy.	55140	1
End Cover Receptacle	53636	2
End Cover Receptacle (230V)	55253	1
Brush Rack Assy.	55247	1
(Complete)	& -1	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate	55107	1
A. C. Condenser	54977	1
A. C. Condenser	41221	1
Rectifier (Excitation)	54976	1
Spring Feet	55096	4
Handle	53740	1

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C57093

Schematic N/A

Generator Parts

Unassembled C57093

Complete Unit

Part # C57094

REPAIR
PARTS LIST
#526

Size 3700 Watts

Drive Direct

Type Two Pole

Unit Model # P307BH-1E/A

DESCRIPTION

PART #

QTY.

Armature	56945-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-2	1

Fan Assembly	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1

Field Coil	57105	1
Field Coil	57105-1	1

Shell & Bracket Assy.	53722	1
Pole Shoe	24851	2
Pole Shoe Retainer	24849	2
Engine Adaptor Bracket	54178	1
Adaptor Bracket Screw	3290	4
End Cover Assy.	55998	1
End Cover Receptacle	53636	2
End Cover Receptacle (230V)	56000	1

Brush Rack Assy.	57088	1
(Complete)	& -1	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
D. C. Brush	41393	2
D. C. Brush Holder	41744	1
& Plate Assy.	& -1	1
A. C. Condenser	41221	1
D. C. Condenser	41180	1
Resistor (Charge)	56811	1
Heat Sink	54733	1

Cradle	43297-1	1
Shock Mounts	23623	4
Rubber Feet	20191	3

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C57078
Schematic N/A
Generator Parts
Unassembled C57078
Complete Unit
Part # C57099

REPAIR
PARTS LIST
#475

Size 3700 Watts
Drive Direct
Type Two Pole

Unit Model # P307BH-1M/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	57077-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-2	1
Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	57107	1
Field Coil	57107-1	1
Shell & Bracket Assy.	53722	1
Pole Shoe	24851	2
Pole Shoe Retainer	24849	2
Engine Adaptor Bracket	54178	1
Adaptor Bracket Screw	3290	4
End Cover Assy.	57076	1
End Cover Receptacle	56000	1
End Cover Receptacle	53636	2
Brush Rack Assy. (Complete)	57075	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate	55612	1
A. C. Condenser	54977	1
Rectifier (Excitation)	54976	1
Cradle	43297-1	1
Sub Frame	43291	1
Shock Mounts	23623	4

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C54136
Schematic N/A
Generator Parts
Unassembled C57093
Complete Unit
Part # C57096

REPAIR
PARTS LIST
#528

Size 3700nWatts
Drive Direct
Type Two Pole
Unit Model # P307BH-3E/C

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	56916-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-2	1
Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	57105	1
Field Coil	57105-1	1
Shell & Bracket Assy.	53722	1
Pole Shoe	24851	2
Pole Shoe Retainer	24849	2
Engine Adaptor Bracket	54178	1
Adaptor Bracket Screw	3290	4
End Cover Assy.	55368	1
End Cover Receptacle	53636	2
End Cover Receptacle (230V)	55253	1
Brush Rack Assy. (Complete)	55392	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
D. C. Brush	41393	2
D. C. Brush Holder	41744	1
& Plate Assy.	& -1	1
A. C. Condenser	41221	2
D. C. Condenser	41180	1
Resistor Assy. (Charge)	55393	1
Cradle	43297-1	1
Shock Mounts	23623	4
Rubber Feet	20191	3

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C57097

Schematic N/A

Generator Parts

Unassembled C57097

Complete Unit

Part # C57098

REPAIR
PARTS LIST
#527

Size 3700 Watts

Drive Direct

Type Two Pole

Unit Model # P307BH-3M/C

DESCRIPTION

PART #

QTY.

Armature	55106-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-2	1

Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1

Field Coil	57107	1
Field Coil	57107-1	1

Shell & Bracket Assy.	53722	1
Pole Shoe	24851	2
Pole Shoe Retainer	24849	2
Engine Adaptor Bracket	54178	1
Adaptor Bracket Screw	3290	4
End Cover Assy.	55251	1
End Cover Receptacle	53636	2
End Cover Receptacle (230V)	55253	1

Brush Rack Assy. (Complete)	55247	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate	55107	1
A. C. Condenser	41221	2
Rectifier (Excitation)	54976	1

Cradle	43297-1	1
Shock Mounts	23623	4
Rubber Foot	20191	3

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C55228

Schematic N/A

Generator Parts

Unassembled A55234

Complete Unit

Part # A55234

REPAIR
PARTS LIST
#500

Size 3700 Watts

Drive Two Bearing

Type Four Pole

Unit Model # 307KS2PC-1/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55233-1	1
Armature Bearing (Brush End)	46911	1
Armature Bearing (Bracket End)	8031	1
Fan Assy.	23404	1
Fan Washer	21867	1
Fan Lockwasher	40552	1
Fan Nut	9549	1
Field Coil	54708	1
Field Coil	54708-1	1
Shell & Bracket Assy.	53722	1
Pole Shoe	53739	2
Pole Shoe Retainer	43721	2
Engine Adaptor Bracket	40097	1
Adaptor Bracket Screw	441	4
End Cover Assy.	55206	1
End Cover Receptacle	53636	2
Brush Rack Assy. (Complete)	55232	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate Assy.	23415	1
A. C. Condenser	41221	1
Rectifier (Excitation)	53641	1
Base	24486	1

Wiring Diagram C56632
 Schematic N/A
 Generator Parts
 Unassembled C56632
 Complete Unit
 Part # B56631

 REPAIR
 PARTS LIST
 #540

Size 3700 Watts
 Drive Two Bearing
 Type Two Pole

Unit Model # 307KS2PC-3/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	56633-1	1
Armature Bearing		
Brush End	46911	1
Armature Bearing		
Bracket End	8031	1
Fan Assy.	23404	1
Fan Washer	21867	1
Fan Lockwasher	40552	1
Fan Nut	9549	1
Field Coil	55378	1
Field Coil	55378-1	1
Shell & Bracket Assy.	53722	1
Pole Shoe	24851	2
Pole Shoe Retainer	24849	2
Engine Adaptor Bracket	40097	1
Adaptor Bracket Screw	9416	4
End Cover Assy.	55140	1
End Cover Receptacle	53636	2
End Cover Receptacle	55253	1
Brush Rack Assy. (Complete)	55247	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate	55107	1
A. C. Condenser	41221	1
A. C. Condenser	54977	1
Rectifier (Excitation)	54976	1
Base	24486	1

Wiring Diagram C55795Schematic N/A

Generator Parts

Unassembled C55787-2

Complete Unit

Part # C57059

 REPAIR
 PARTS LIST
 #569

Size 4000 WattsDrive DirectType Four PoleUnit Model # 4BH-6M/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55776-1	1	Control Box Assy.	55763-2	1
Armature Bearing	46911	1	Cover Assy.	48355	1
Armature Thru Bolt	23197-5	1	Front Panel (Bare)	55737-2	1
			Rear Panel (Bare)	55741	1
Fan Assy.	23404	1	Receptacle	22902	3
Fan Washer	23558	1	Resistor	80132-3	1
Fan Lockwasher	40552	1			
Fan Nut	23605	1	Conservor Assy.		
			(Complete)	55797	1
Field Coil	55773	1	Module	55692	1
Field Coil	55773-1	1	Transformer	40540	1
Field Coil	55773-2	1	Electro Magnet	44889	1
Field Coil	55773-3	1	Formed Bracket	44927	1
			Lever (Throttle)	44892	1
Shell & Bracket Assy.	55764	1	Switch	24238	1
Pole Shoe	55633	4			
Pole Shoe Retainer	42628	4			
Engine Adaptor Brkt.	54178	1			
Adaptor Brkt. Screw	3290	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55766	1			
(Complete)	& -1	1			
A. C. Brush	23607	8			
A. C. Brush Holder	23500	8			
Brush Holder Plate	53975	2			
A. C. Condenser	41221	3			
Rectifier (Excitation)	54976	1			
Cradle	43651-1	1			
Shock Mounts	23623	4			
Muffler Assy.	56923	1			

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

Wiring Diagram C55795

Schematic N/A

Generator Parts

Unassembled C55790

Complete Unit

Part # 57059-1

 REPAIR
 PARTS LIST
 #519

Size 4000 Watts

Drive Direct

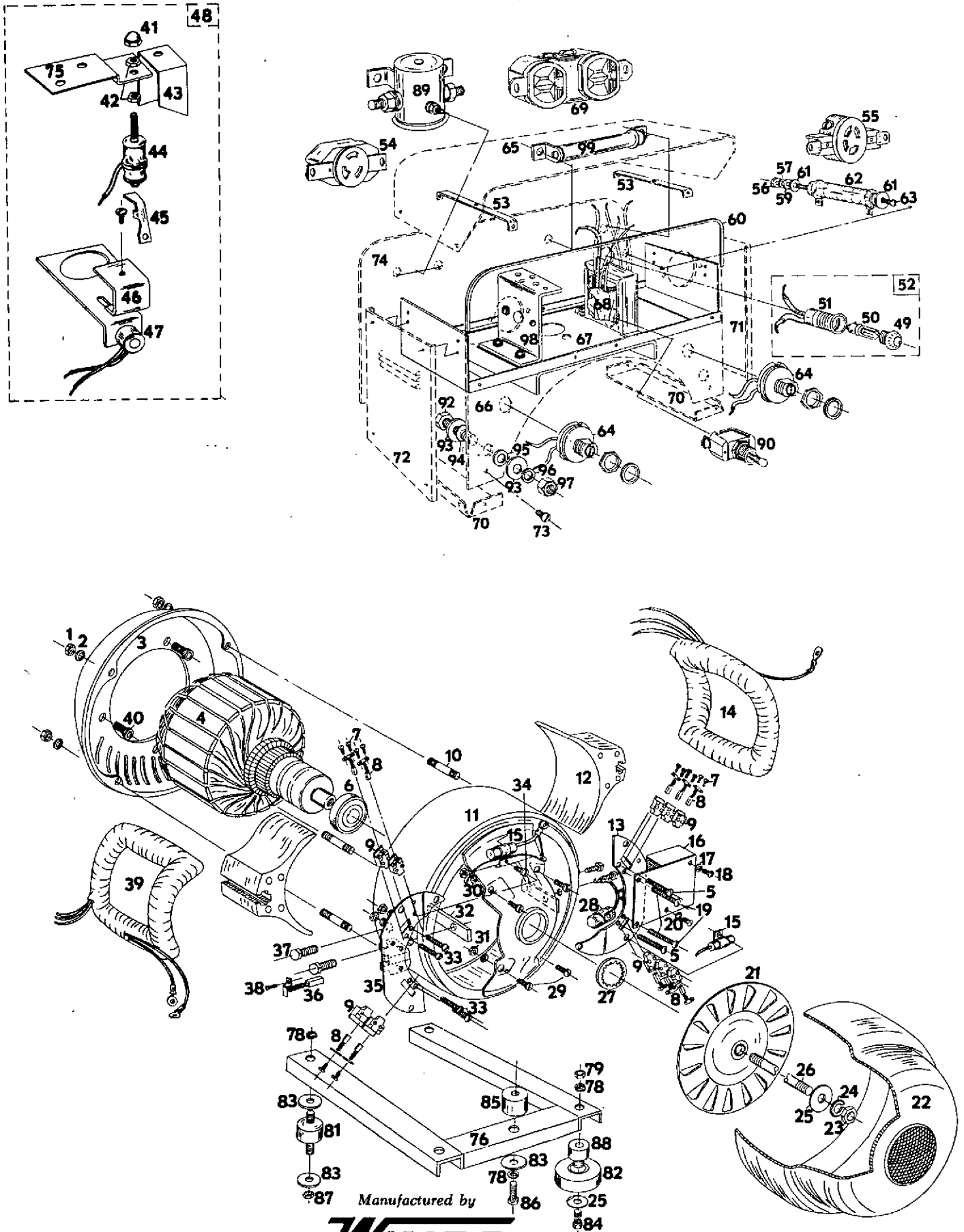
Type Four Pole

Unit Model # 4BH-7M/B

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55777-1	1	Control Box Assy.	55763-1	1
Armature Bearing	46911	1	Cover Assy.	48355	1
Armature Thru Bolt	23197-5	1	Front Panel (Bare)	55737-1	1
			Rear Panel (Bare)	55741	1
Fan Assy.	23404	1	Receptacle	22902	3
Fan Washer	23558	1			
Fan Lockwasher	40552	1	Conservator Assy.		
Fan Nut	23605	1	(Complete)	55797	1
			Module	55692	1
Field Coil	55649	1	Transformer	40450	1
Field Coil	55649-1	1	Electro Magnet	44889	1
Field Coil	55649-2	1	Formed Bracket	44927	1
Field Coil	55649-3	1	Lever (Throttle)	44892	1
			Resistor	46856	1
Shell & Bracket Assy.	55764	1	Switch	24238	1
Pole Shoe	55633	4	Cover	44891	1
Pole Shoe Retainer	42628	4	Cover Nut	44948	1
Engine Adaptor Brkt.	54178	1			
Adaptor Brkt. Screw	3290	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55766	1			
(Complete)	& -1	1			
A. C. Brush	23607	8			
A. C. Brush Holder	23500	8			
Brush Holder Plate	53975	2			
A. C. Condenser	41221	3			
Heat Sink Assy.	55650	1			
Cradle	43651-1	1			
Shock Mounts	23623	4			

ENGINE MAKE Briggs & Stratton MODEL # 190432 PART # 55177

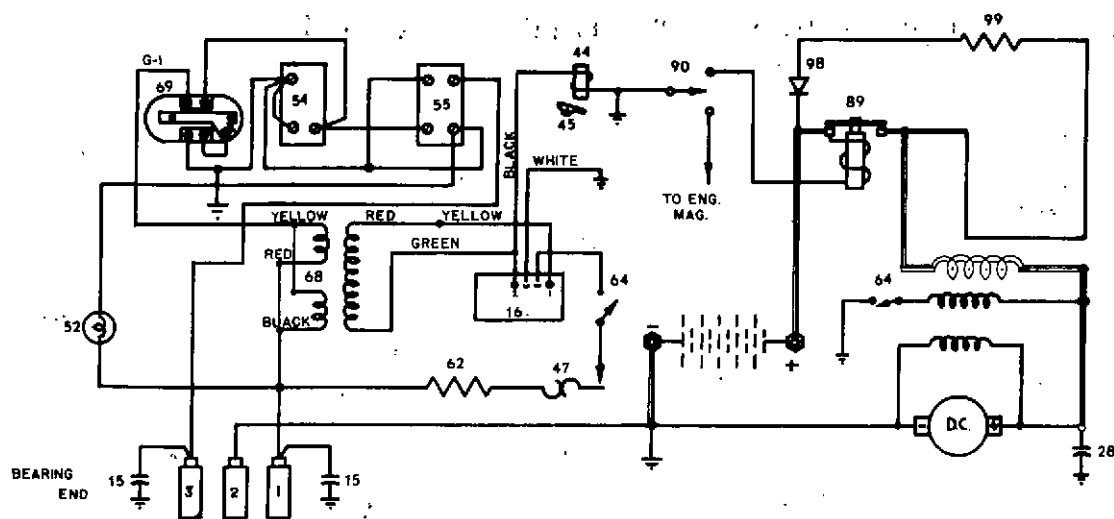
WINCO GENERATOR PLANT MODEL 4BH-FE



Manufactured by
WINCO

Division of Dyna Technology, Inc.

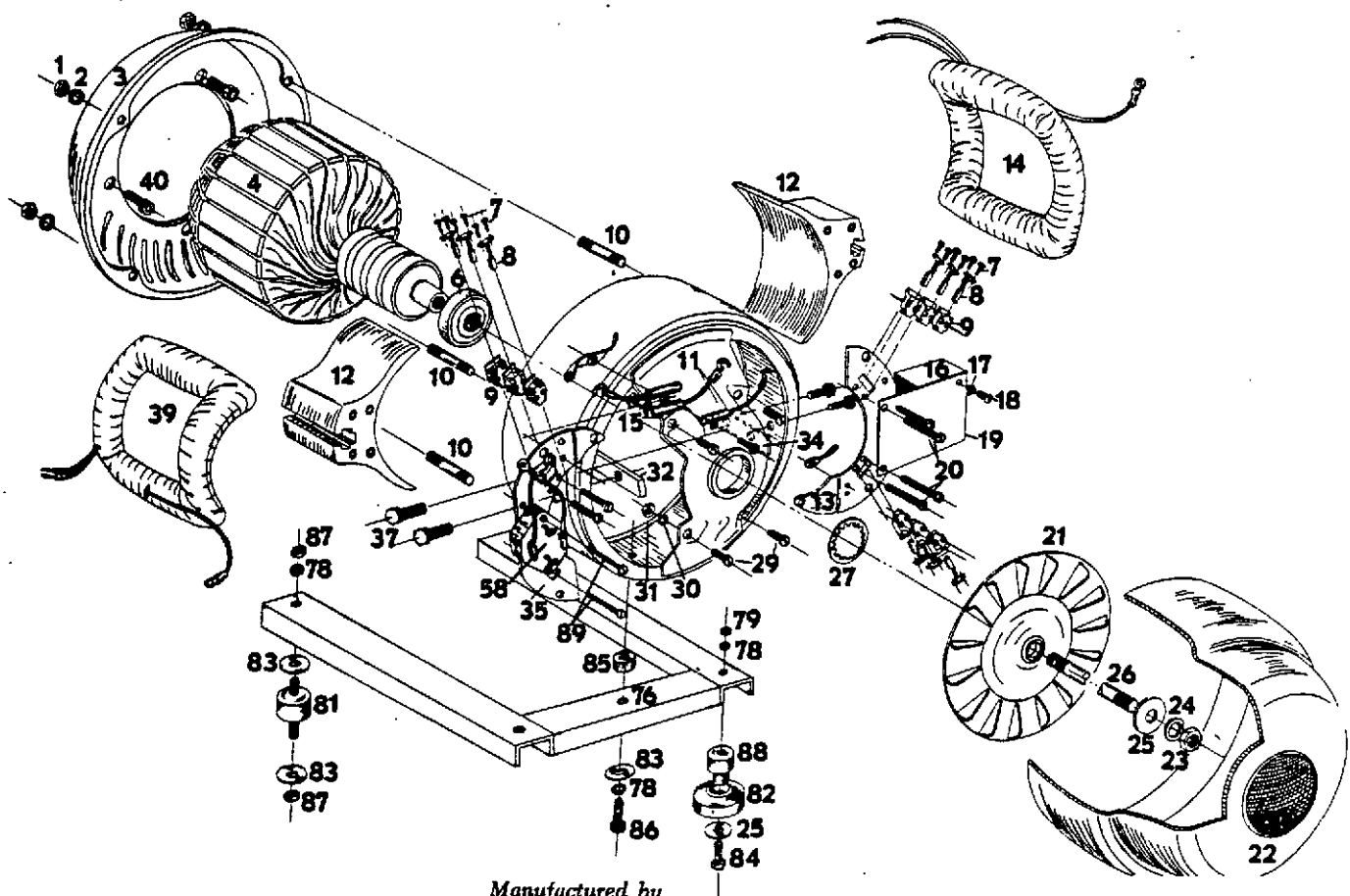
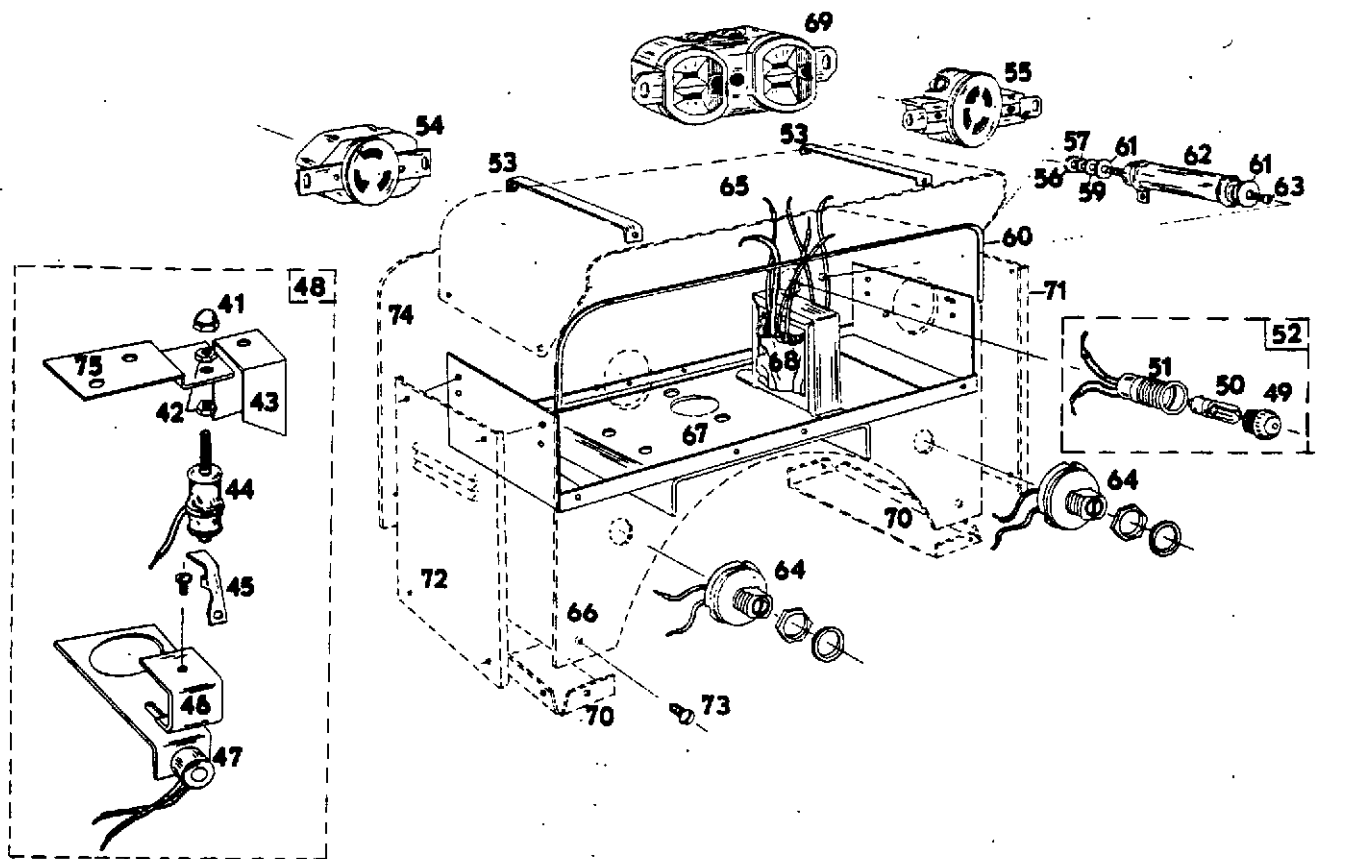
East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102



PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	44	44889	Electro Magnet	1
2	480	Stud Nut Lockwasher (5/16")	4	45	44892	Bracket—Throttle Lever	1
3	24211-1	End Bracket	1	46	45222	Bracket—Cover Thermostat	1
4	43975-1	Armature	1	47	49417	Thermostat	1
5	23867	Machine Screw (8-32 x 1 3/4")	2	48	51665-1	Bracket & Magnet Assembly Complete	1
6	46911	Bearing	1	49	43341-1	Dome Only	1
7	40746	Screw—A. C. Brush (#8-32x5/16")	20	50	43358	Bulb	1
8	23607	A. C. Brush	10	51	43341	Socket & Dome	1
9	23500	Brush Holder—A. C.	10	52	43340	Socket Assembly	1
10	23451	Field Shell Stud	4	53	51576	Brace	2
11	43327	Field Shell & Bracket	1	54	49051	Receptacle 115 Volt	1
12	24851	Pole Shoe	2	55	22902	Receptacle 230 Volt	1
13	41745-1	Brush Rack & D. C. Brush Holder	1	56	6372	Hex Nut (10-32)	1
14	43989-1	Field Coil	1	57	21975	Lock Washer #10 Ext.	1
15	41221	A. C. Condenser	2	59	598	Flatwasher #10	2
16	48574	Module for Conservator	1	60	51696-1	Weather Strip	2
17	21976	Lockwasher (#8 Ext.)	2	61	1376	Shoulder Washer	2
18	6402	Screw (8-32x 3/8")	2	62	48583	Resistor	1
19	50237	Bracket—Module	1	63	24864	Machine Screw	1
20	40550	Machine Screw—Brush Holders (8-32x2")	2	64	44022	Switch	2
21	23404	Fan	1	65	51580	Box Cover	1
22	23634	End Cover	1	66	51595	Front Panel	1
23	23605	Armature Nut (5/16-24)	1	67	51573	Saddle	1
24	480	Armature Lockwasher (5/16")	1	68	40450	Transformer	1
25	23558	Armature Flat Washer	5	69	24749	Receptacle 115 Volt Duplex	1
26	23197-9	Armature Thru Bolt	1	70	51577	Bottom Support	2
27	40552	Fan Lockwasher	1	71	51685	Side Panel-(right)	1
28	41180	D. C. Condenser	1	72	51589	Side Panel-(left)	1
29	3728	Screw—Brush Rack Mounting (#10-24x 1/2")	4	73	21698	Sheet Metal Screw (#10x 3/8")	30
30	484	Lockwasher—Brush Rack Mounting (#10)	8	74	51605	Rear Cover	1
31	456	Nut—Brush Rack Mounting (#10-24)	4	75	44926	Bracket—Electro Magnet	1
32	43973	Pole Shoe Retainer	2	76	23754	Sub Frame	1
33	10846	Machine Screw—Brush Holders (8#-32x1 1/2")	4	78	480	Lockwasher 5/16	5
34	6402	Machine Screw—Capacitor (8-32x 3/8")	2	79	458	Hex Nut 5/16-18	4
35	41745	Brush Rack & D. C. Brush Holder	1	81	23623	Rubber Shock Mounting (With Cradle)	4
36	41393	D. C. Brush	2	82	20952	Rubber Foot (Without Cradle)	4
37	399	Pole Shoe Screw (Hex. 3/8-16x1 3/4")	4	83	23760	Flat Washer	1
38	4637	Screw—D. C. Brush (#10-24x 3/8")	4	84	580	Cap Screw (5/16-18x1 1/4")	4
39	43989	Field Coil	1	85	20561	Spacer	1
40	23604	Allen Screw	4	86	468	Cap Screw (5/16-18x1 1/2")	1
41	44948	Acorn Nut (5/16-24)	1	87	446	Hex Nut (5/16-24)	8
42	44894	Hex Jam Nut (5/16-24)	2	88	24187	Spacer	4
43	44891	Cover	1	89	24061	Starter Solenoid	1
				90	23772	Switch—Start	1
				92	21974	Machine Screw (5/16-18x1 1/4" Brass)	2
				92	8068	Brass Washer 5/16"	3
				94	21981	Insulation Washer	1
				95	6892	Insulation Washer	1
				96	480	Lockwasher 5/16"	2
				97	458	Hex Nut 5/16-18	2
				98	45930	Reverse Current Diode	1

WINCO GENERATOR PLANT MODEL 4BH-FM

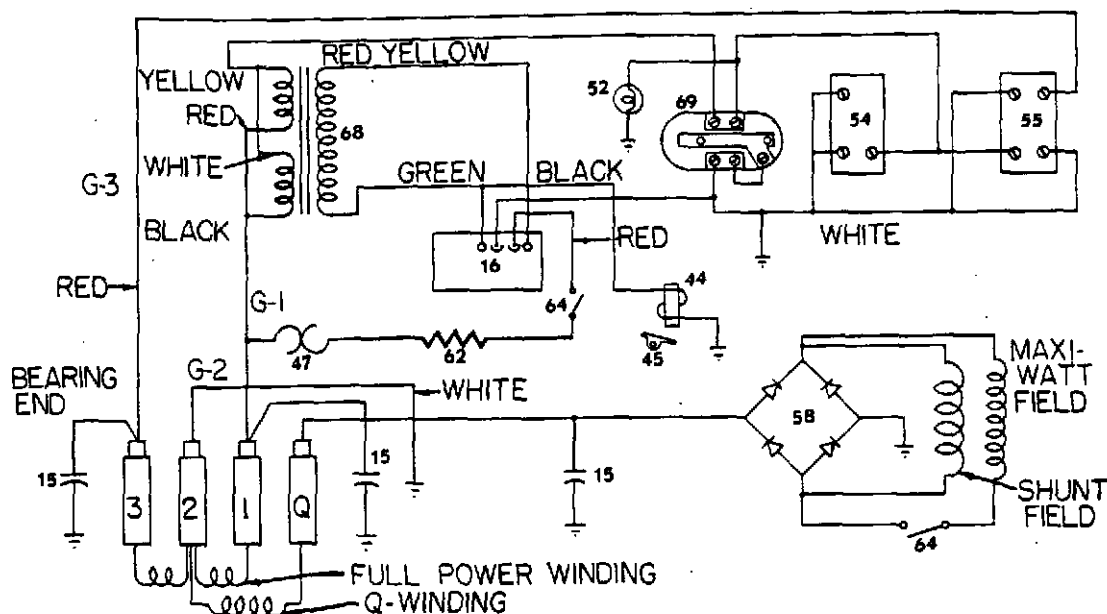


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102



PARTS LIST

No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	47	49417	Thermostat	1
2	480	Stud Nut Lockwasher (5/16")	4	48	49374	Bracket & Magnet Assembly Complete	1
3	24211-1	End Bracket	1	49	44341-1	Dome Only	1
4	51490-1	Armature	1	50	43358	Bulb	1
6	46911	Bearing	1	51	43341	Socket & Dome	1
7	40746	Screw—A. C. Brush (#8-32x5/16")	18	52	43340	Socket Assembly	1
8	24981	A. C. Brush	9	53	51576	Brace	2
9	23500-2	Brush Holder	9	54	49051	Receptacle 115 Volt	1
10	23451	Field Shell Stud	4	55	22902	Receptacle 230 Volt	1
11	43971	Field Shell & Bracket	1	56	6372	Hex Nut (10-32)	1
12	43972	Pole Shoe	2	57	21975	Lockwasher #10 Ext.	1
13	50471	Brush Rack Half	1	58	49484	Rectifier	1
14	51662-1	Field Coil	1	59	598	Flatwasher #10	1
15	41221	A. C. Condenser	3	60	51696-1	Weather Strip	2
16	48574	Module for Conserver	1	61	1376	Shoulder Washer	2
17	21976	Lockwasher (#8 Ext.)	2	62	48583	Resistor	1
18	6402	Screw (8-32x3/8")	2	63	24864	Machine Screw	1
19	50237	Bracket-Module	1	64	44022	Switch	2
20	21977	Machine Screw-Brush Holders (8-32x2 1/4")	6	65	51580	Box Cover	1
21	23404	Fan	1	66	51596	Front Panel	1
22	23634	End Cover	1	67	51573	Saddle	1
23	23605	Armature Nut (5/16-24)	1	68	40450	Transformer	1
24	480	Armature Lockwasher (5/16")	1	69	24749	Receptacle 115 Volt Duplex	1
25	23558	Flat Washer	5	70	51577	Bottom Support	2
26	23197-9	Armature Thru Bolt	1	71	51685	Side Panel—(right)	1
27	40552	Fan Lockwasher	1	72	51589	Side Panel—(left)	1
29	3728	Screw-Brush Rack Mounting (#10-24x1 1/2")	4	73	21898	Sheet Metal Screw (#10x3/8")	30
30	484	Lockwasher-Brush Rack Mounting (#10)	4	74	51606	Rear Cover	1
31	456	Nut-Brush Rack Mounting (#10-24)	4	75	44926	Bracket-Electro Magnet	1
32	43973	Pole Shoe Retainer	2	76	23754	Sub Frame	1
34	6402	Machine Screw-Capacitor (8-32x3/8")	3	78	480	Lockwasher 5/16	5
35	40994	Brush Rack Half	1	79	458	Hex Nut 5/16-18	4
37	399	Pole Shoe Screw (Hex 3/8-16x1 3/4")	4	81	23623	Rubber Shock Mounting (With Cradle)	4
39	51662	Field Coil	1	82	20952	Rubber Foot (Without Cradle)	4
40	23604	Allen Screw	4	83	23760	Flat Washer	1
41	44948	Acorn Nut (5/16-24)	1	84	580	Cap Screw (5/16-18x1 1/4")	4
42	44894	Hex Jam Nut (5/16-24)	2	85	20561	Spacer	1
43	44891	Cover	1	86	468	Cap Screw (5/16x18x1 1/2")	1
44	44889	Electro Magnet	1	87	446	Hex Nut (5/16-24)	8
45	44892	Bracket-Throttle Lever	1	88	24187	Spacer	4
46	45222	Bracket-Cover Thermostat	1	89	49531	Machine Screw (4-40x1 1/4")	2

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

Wiring Diagram C55521
 Schematic N/A
 Generator Parts
 Unassembled C55521
 Complete Unit
 Part # C55520

 REPAIR
 PARTS LIST
 #529

Size 4000 Watts
 Drive Two Bearing
 Type Four Pole
 Unit Model # 4KS4PC-3/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55522-1	1
Armature Bearing		
Brush End	46911	1
Armature Bearing		
Bracket End	8031	1
Fan Assy.	23404	1
Fan Washer	21867	1
Fan Lockwasher	40552	1
Fan Nut	9549	1
Field Coil	55261	1
Field Coil	55261-1	1
Field Coil	55261-2	1
Field Coil	55261-3	1
Shell & Bracket Assy.	55144	1
Pole Shoe	23550	4
Pole Shoe Retainer	23552	4
Engine Adaptor Bracket	40097	1
Adaptor Bracket Screw	9416	4
End Cover Assy.	55140	1
End Cover Receptacle	53636	2
End Cover Receptacle (230V)	55253	1
Brush Rack Assy. (Complete)	55262	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
D. C. Brush Holder & Plate Assy.	55107	1
A. C. Condenser	54977	1
A. C. Condenser	41221	1
Rectifier (Excitation)	55496	1
Base Assy.	24535	1

Wiring Diagram C57277
 Schematic N/A
 Generator Parts
 Unassembled A57405
 Complete Unit
 Part # C57242

 REPAIR
 PARTS LIST
 #506

Size 4000 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 4PDS-1E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	57158-1	1	Control Box Assy.	57278	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	55146	1	Front Panel (Bare)	57702	1
			Rear Panel (Bare)	57265	1
Fan Assy.	55101	1	Receptacle (115)(20A)	56279	1
Fan Washer	23558	1	Receptacle (115)(20A)	50766	1
Fan Lockwasher	55224	1	Receptacle (115)(30A)	56359	1
Fan Nut	23605	1	Resistor (Charge)	41254	1
			Heat Sink &		
Field Coil	55261	1	Diode Assy.	47731	1
Field Coil	55261-1	1	Start Stop Switch	52029	1
Field Coil	55261-2	1	Fuse	43798	1
Field Coil	55261-3	1	Fuse Holder	2489	1
Shell & Bracket Assy.	57404	1	Transformer	43945	1
Pole Shoe	23550	4			
Pole Shoe Retainer	23552	4			
Engine Adaptor Brkt.	55258	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	55007	1			
Brush Rack Assy.					
(Complete)	57152	1			
A. C. Brush	23607	6			
A. C. Brush Holder	23500	6			
Brush Holder Plate	55612	1			
A. C. Condenser	54977	1			
Rectifier (Excitation)	55143	1			
Frame	57391	1			

ENGINE MAKE Petter Diesel MODEL # PH1 PART # 57144

Wiring Diagram C57266Schematic N/A
Generator Parts
Unassembled A57403
Complete Unit
Part # C57244*****
REPAIR
PARTS LIST
#508
*****Size 4000 WattsDrive DirectType Four PoleUnit Model # 4PDS-3E/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55145	1	Control Box Assy.	57262	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	55146	1	Front Panel (Bare)	56324-3	1
			Rear Panel (Bare)	57265	1
Fan Assy.	55101	1	Receptacle (115)(20A)	56279	1
Fan Washer	23558	1	Receptacle (230)(20A)	56281	1
Fan Lockwasher	55224	1	Receptacle (115)(20A)	50766	1
Fan Nut	23605	1	Resistor (Charge)	41254	1
			Heat Sink &		
Field Coil	55261	1	Diode Assy.	47731	1
Field Coil	55261-1	1	Start Stop Switch	52029	1
Field Coil	55261-2	1	Fuse	43798	1
Field Coil	55261-3	1	Fuse Holder	2489	1
Shell & Bracket Assy.	57404	1	Transformer	43945	1
Pole Shoe	23550	4			
Pole Shoe Retainer	23552	4			
Engine Adaptor Brkt.	55258	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	55007	1			
Brush Rack Assy.					
(Complete)	55262	1			
A. C. Brush	23607	6			
A. C. Brush Holder	23500	6			
Brush Holder Plate	55107	1			
A. C. Condenser	41221	1			
A. C. Condenser	54977	1			
Rectifier (Excitation)	55143	1			
Frame	57391	1			

ENGINE MAKE Petter Diesel MODEL # PH1 PART # 57144

Wiring Diagram C55795
 Schematic N/A
 Generator Parts
 Unassembled C55787-2
 Complete Unit
 Part # C55791

 REPAIR
 PARTS LIST
 #522

Size 4000 Watts
 Drive Direct
 Type Four Pole

Unit Model # 4WH-6M/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55776-1	1	Control Box Assy.	55763-2	1
Armature Bearing	46911	1	Cover Assy.	48355	1
Armature Thru Bolt	23197-5	1	Front Panel (Bare)	55737-2	1
			Rear Panel (Bare)	55741	1
Fan Assy.	23404	1	Receptacle	22902	3
Fan Washer	23558	1			
Fan Lockwasher	40552	1	Conserver Assy.		
Fan Nut	23605	1	(Complete)	56505	1
			Module	55692	1
Field Coil	55773	1	Transformer	40450	1
Field Coil	55773-1	1	Electro Magnet	44889	1
Field Coil	55773-2	1	Formed Bracket	56502	1
Field Coil	55773-3	1	Lever (Throttle)	48187	1
			Resistor	46856	1
Shell & Bracket Assy.	55764	1	Switch	24238	1
Pole Shoe	55633	4	Cover	44891	1
Pole Shoe Retainer	42628	4	Cover Nut	44948	1
Engine Adaptor Brkt.	54178	1			
Adaptor Brkt. Screw	3290	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55766	1			
(Complete)	& -1	1			
A. C. Brush	23607	8			
A. C. Brush Holder	23500	8			
Brush Holder Plate	53975	2			
A. C. Condenser	41221	3			
Heat Sink Assy.	55650	1			
Cradle	43651-1	1			
Shock Mounts	23623	4			

ENGINE MAKE Wisconsin MODEL # S8D PART # 48266

Wiring Diagram C55795
 Schematic N/A
 Generator Parts
 Unassembled C55790
 Complete Unit
 Part # C55791-1

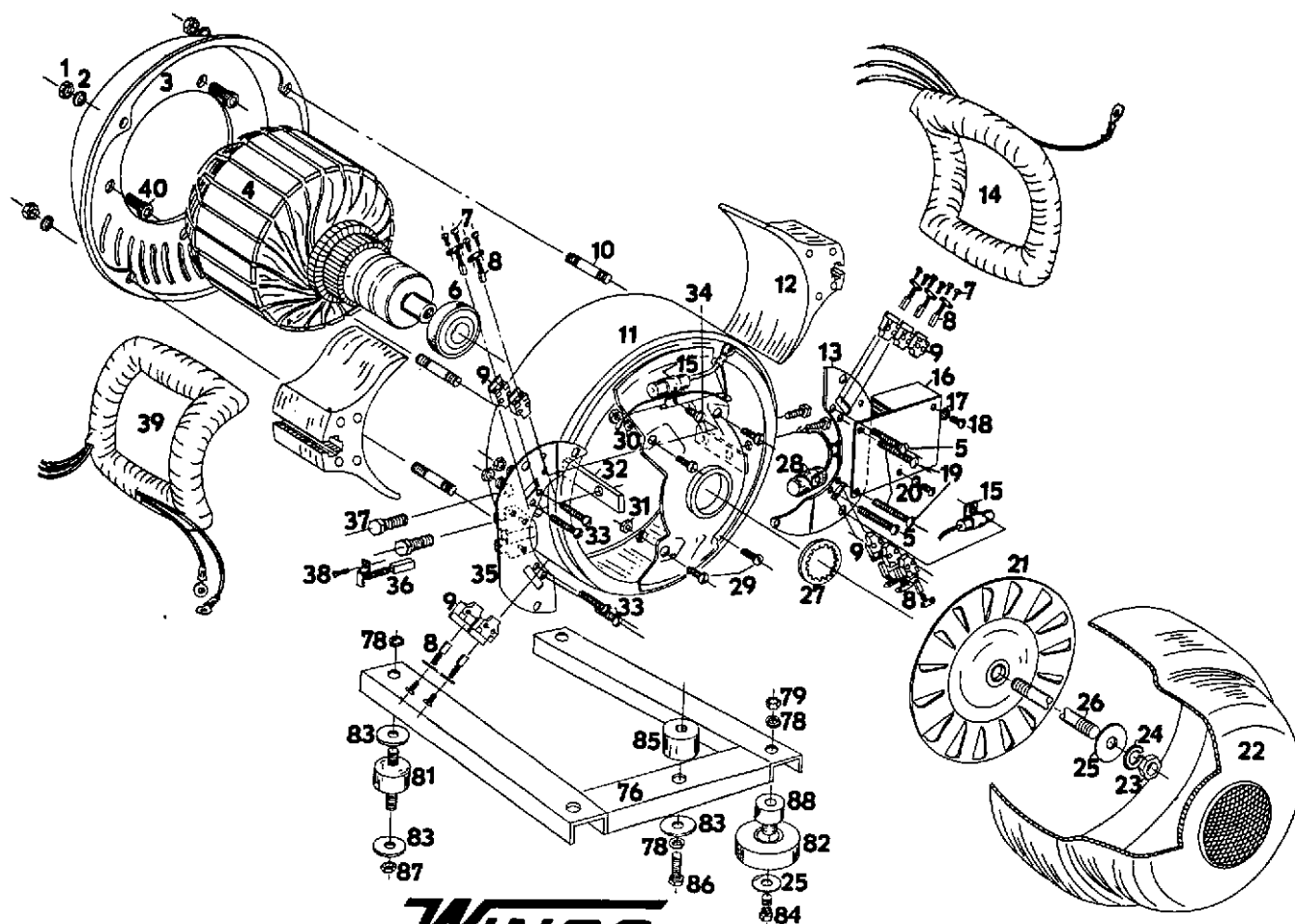
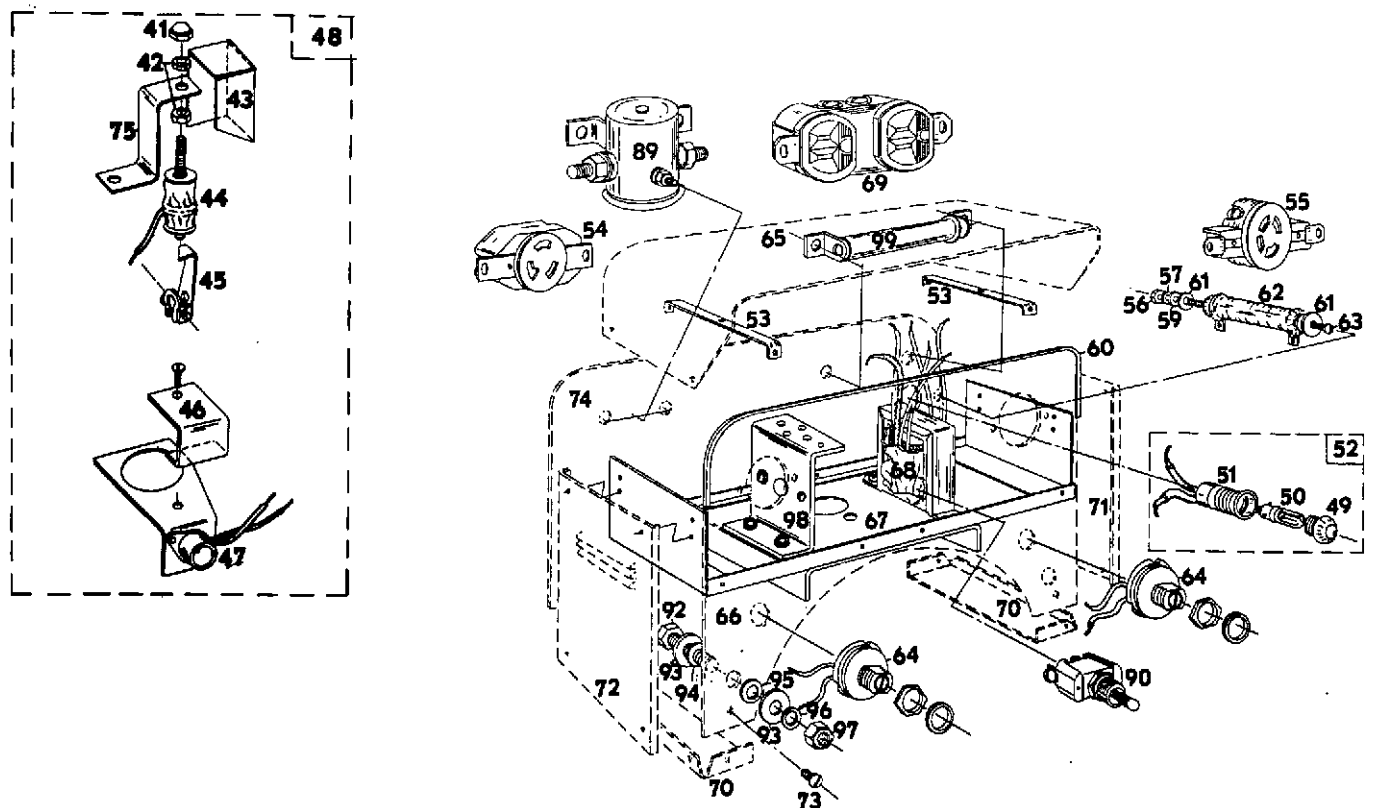
 REPAIR
 PARTS LIST
 #521

Size 4000 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 4WH-7M/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55777-1	1	Control Box Assy.	55763-1	1
Armature Bearing	46911	1	Cover Assy.	48355	1
Armature Thru Bolt	23197-5	1	Front Panel (Bare)	55737-1	1
			Rear Panel (Bare)	55741	1
Fan Assy.	23404	1	Receptacle	22902	3
Fan Washer	23558	1			
Armature Lockwasher	40552	1	Conservor Assy.		
Fan Nut	23605	1	(Complete)	56505	1
			Module	55692	1
Field Coil	55649	1	Transformer	40450	1
Field Coil	55649-1	1	Electro Magnet	44889	1
Field Coil	55649-2	1	Formed Bracket	56502	1
Field Coil	55649-3	1	Lever (Throttle)	48187	1
			Resistor	80132-3	1
Shell & Bracket Assy.	55764	1	Switch	24238	1
Pole Shoe	55633	4	Cover	44891	1
Pole Shoe Retainer	42628	4	Cover Nut	44948	1
Engine Adaptor Brkt.	54178	1			
Adaptor Brkt. Screw	3290	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55766	1			
(Complete)	& -1	1			
A. C. Brush	23607	8			
A. C. Brush Holder	23500	8			
Brush Holder Plate	53975	2			
A. C. Condenser	41221	3			
Heat Sink Assy.	55650	1			
Cradle	43651-1	1			
Shock Mounts	23623	4			

ENGINE MAKE Wisconsin MODEL # S8D PART # 48266

WINCO GENERATOR PLANT MODEL 4WH-FE

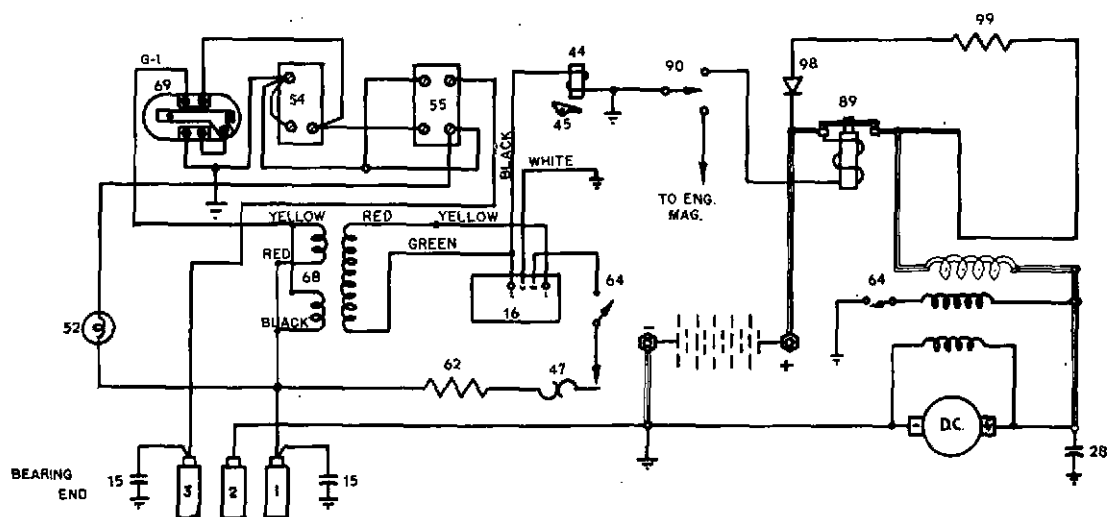


RPL NO. 585

WINCO

Division of Dyna Technology, Inc.

225 South CORDOVA LE CENTER, MINNESOTA 56057 612 357 6821



PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	44	44889	Electro Magnet	1
2	480	Stud Nut Lockwasher (5/16")	4	45	48187	Bracket—Throttle Lever	1
3	46187-1	End Bracket	1	46	45222	Bracket—Cover Thermostat	1
4	43975-1	Armature	1	47	49417	Thermostat	1
5	23867	Machine Screw (8-32 x 1 1/4")	2	48	50962	Bracket & Magnet Assembly Complete	1
6	46911	Bearing	1	49	43341-1	Dome Only	1
7	40746	Screw—A. C. Brush (#8-32x5/16")	20	50	43358	Bulb	1
8	23607	A. C. Brush	10	51	43341	Socket & Dome	1
9	23500	Brush Holder—A. C.	10	52	43340	Socket Assembly	1
10	23451	Field Shell Stud	4	53	51576	Brace	2
11	43327	Field Shell & Bracket	1	54	49051	Receptacle 115 Volt	1
12	24851	Pole Shoe	2	55	22902	Receptacle 230 Volt	1
13	41745-1	Brush Rack & D. C. Brush Holder	1	56	6372	Hex Nut (10-32)	1
14	43989-1	Field Coil	1	57	21975	Lock Washer #10 Ext.	1
15	41221	A. C. Condenser	2	59	598	Flatwasher #10	2
16	48574	Module for Converter	1	60	51696-1	Weather Strip	2
17	21976	Lockwasher (#8 Ext.)	2	61	1376	Shoulder Washer	2
18	6402	Screw (8-32x3/8")	2	62	48583	Resistor	1
19	50237	Bracket—Module	1	63	24864	Machine Screw	1
20	40550	Machine Screw—Brush Holders (8-32x2")	2	64	44022	Switch	2
21	23404	Fan	1	65	51580	Box Cover	1
22	23634	End Cover	1	66	51595	Front Panel	1
23	23605	Armature Nut (5/16-24)	1	67	51573	Saddle	1
24	480	Armature Lockwasher (5/16")	1	68	40450	Transformer	1
25	23558	Armature Flat Washer	5	69	24749	Receptacle 115 Volt Duplex	1
26	23197-9	Armature Thru Bolt	1	70	51577	Bottom Support	2
27	40552	Fan Lockwasher	1	71	51685	Side Panel—(right)	1
28	41180	D. C. Condenser	1	72	51589	Side Panel—(left)	1
29	3728	Screw—Brush Rack Mounting (#10-24x1 1/2")	4	73	21698	Sheet Metal Screw (#10x3/8")	30
30	484	Lockwasher—Brush Rack Mounting (#10)	8	74	51605	Rear Cover	1
31	456	Nut—Brush Rack Mounting (#10-24)	4	75	50910	Bracket—Electro Magnet	1
32	43973	Pole Shoe Retainer	2	76	24543	Sub Frame	1
33	10846	Machine Screw—Brush Holders (8#-32x1 1/2")	4	78	480	Lockwasher 5/16	5
34	6402	Machine Screw—Capicitor (8-32x3/8")	2	79	458	Hex Nut 5/16-18	4
35	41745	Brush Rack & D. C. Brush Holder	1	81	23623	Rubber Shock Mounting (With Cradle)	4
36	41393	D. C. Brush	2	82	20952	Rubber Foot (Without Cradle)	4
37	399	Pole Shoe Screw (Hex 3/8-16x1 3/4")	4	83	23760	Flat Washer	1
38	4637	Screw—D. C. Brush (#10-24x3/8")	4	84	580	Cap Screw (5/16-18x1 1/4")	4
39	43989	Field Coil	1	86	467	Cap Screw (5/16-18x3/4")	1
40	23604	Allen Screw	4	87	446	Hex Nut (5/16-24)	8
41	44948	Acorn Nut (5/16-24)	1	88	24187	Spacer	4
42	44894	Hex Jam Nut (5/16-24)	2	89	24061	Starter Solenoid	1
43	44891	Cover	1	90	23772	Switch—Start	1
				92	21974	Machine Screw (5/16-18x1 1/4" Brass)	2
				92	8068	Brass Washer 5/16"	3
				94	21981	Insulation Washer	1
				95	6892	Insulation Washer	1
				96	480	Lockwasher 5/16"	2
				97	458	Hex Nut 5/16-18	2
				98	45930	Reverse Current Diode	1

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.



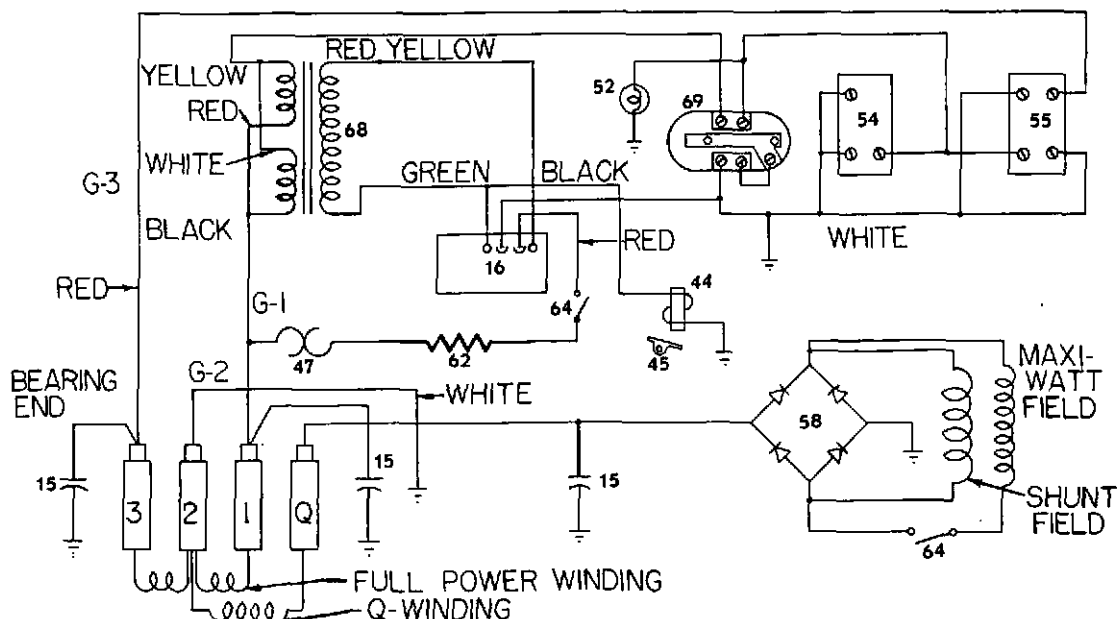
225 South CORDOVA LE CENTER, MINNESOTA 56057 612 357 6821

225 South CORDOVA

LE CENTER, MINNESOTA

56057

612 357 6821



PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	47	49417	Thermostat	1
2	480	Stud Nut Lockwasher (5/16")	4	48	50962	Bracket & Magnet Assembly Complete	1
3	46187-1	End Bracket	1	49	44341-1	Dome Only	1
4	51490-1	Armature	1	50	43358	Bulb	1
6	46911	Bearing	1	51	43341	Socket & Dome	1
7	40746	Screw—A. C. Brush (#8-32x5/16")	18	52	43340	Socket Assembly	1
8	24981	A. C. Brush	9	53	51576	Brace	2
9	23500-2	Brush Holder	9	54	49051	Receptacle 115 Volt	1
10	23451	Field Shell Stud	4	55	22902	Receptacle 230 Volt	1
11	43971	Field Shell & Bracket	1	56	6372	Hex Nut (10-32)	1
12	43972	Pole Shoe	2	57	21975	Lockwasher #10 Ext.	1
13	50471	Brush Rack Half	1	58	49484	Rectifier	1
14	51662-1	Field Coil	1	59	598	Flatwasher #10	1
15	41221	A. C. Condenser	3	60	51696-1	Weather Strip	2
16	48574	Module for Conservor	1	61	1376	Shoulder Washer	2
17	21976	Lockwasher (#8 Ext.)	2	62	48583	Resistor	1
18	6402	Screw (8-32x3/8")	2	63	24864	Machine Screw	1
19	50237	Bracket-Module	1	64	44022	Switch	2
20	21977	Machine Screw-Brush Holders (8-32x2 1/4")	6	65	51580	Box Cover	1
21	23404	Fan	1	66	51596	Front Panel	1
22	23634	End Cover	1	67	51573	Saddle	1
23	23605	Armature Nut (5/16-24)	1	68	40450	Transformer	1
24	480	Armature Lockwasher (5/16")	1	69	24749	Receptacle 115 Volt Duplex	1
25	23558	Flat Washer	5	70	51577	Bottom Support	2
26	23197-9	Armature Thru Bolt	1	71	51685	Side Panel—(right)	1
27	40552	Fan Lockwasher	1	72	51589	Side Panel—(left)	1
29	3728	Screw-Brush Rack Mounting (#10-24x1 1/2")	4	73	21698	Sheet Metal Screw (#10x3/8")	30
30	484	Lockwasher-Brush Rack Mounting (#10)	4	74	51606	Rear Cover	1
31	456	Nut-Brush Rack Mounting (#10-24)	4	75	50910	Bracket Electro-Magnet	1
32	43973	Pole Shoe Retainer	2	76	24543	Sub Frame	1
34	6402	Machine Screw-Capacitor (8-32x3/8")	3	78	480	Lockwasher 5/16	5
35	40994	Brush Rack Half	1	79	458	Hex Nut 5/16-18	4
37	399	Pole Shoe Screw (Hex 3/8-16x1 3/4")	4	81	23623	Rubber Shock Mounting (With Cradle)	4
39	51662	Field Coil	1	82	20952	Rubber Foot (Without Cradle)	4
40	23604	Allen Screw	4	83	23760	Flat Washer	1
41	44948	Acorn Nut (5/16-24)	1	84	580	Cap Screw (5/16-18x1 1/4")	4
42	44894	Hex Jam Nut (5/16-24)	2	86	467	Cap Screw (5/16x18x3/4")	1
43	44891	Cover	1	87	446	Hex Nut (5/16-24)	8
44	44889	Electro Magnet	1	88	24187	Spacer	4
45	48187	Bracket-Throttle Lever	1	89	49531	Machine Screw (4-40x1 1/4")	2
46	45222	Bracket-Cover Thermostat	1				

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

Wiring Diagram C57187

Schematic N/A

Generator Parts C57187

Unassembled C57187

Complete Unit C57215

Part # C57215

REPAIR
PARTS LIST
#474

Size 4000 Watts

Drive Direct

Type Four Pole

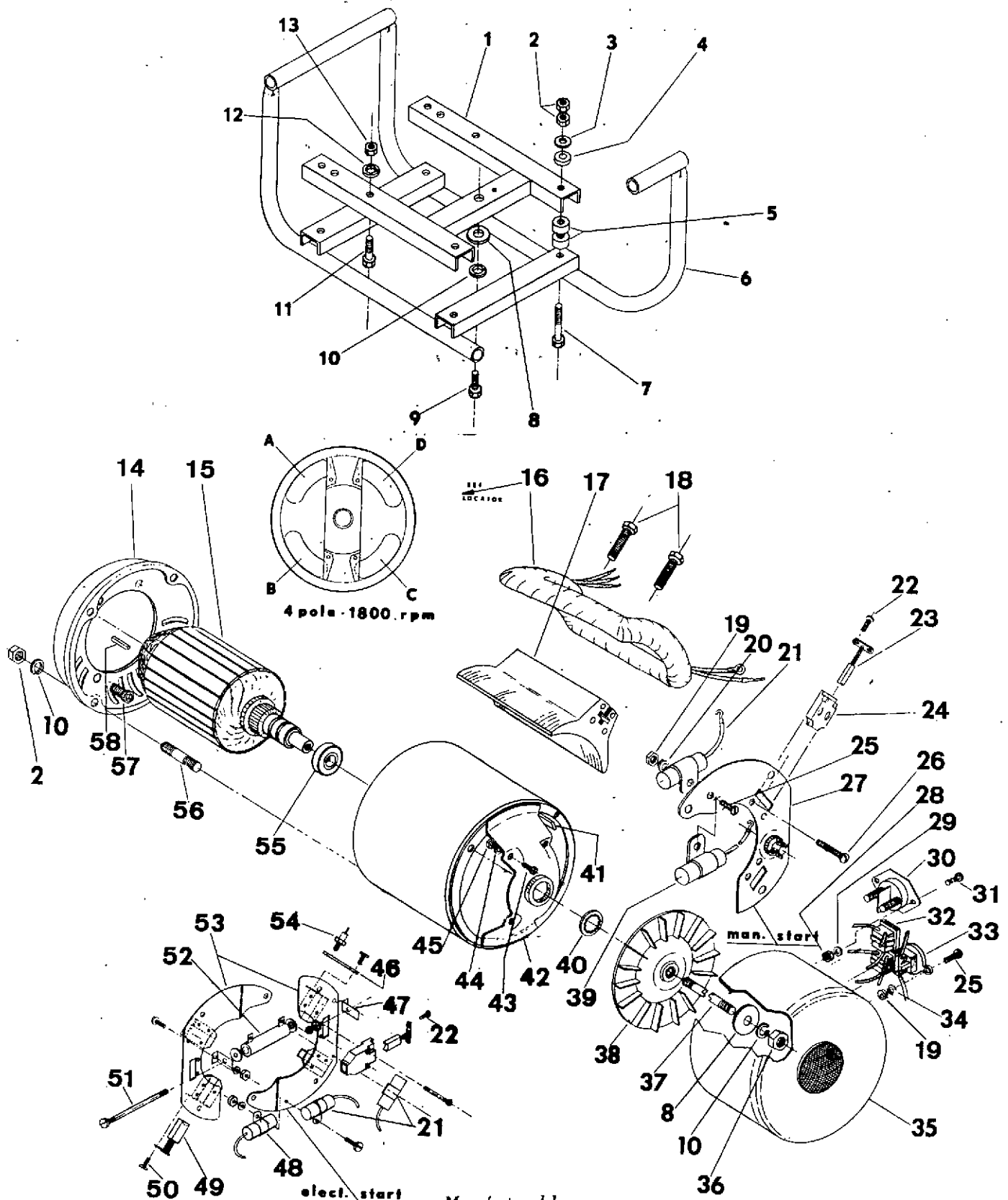
Unit Model # P4WS-1M/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	57158-1	1
Armature Bearing	55223	1
Armature Thru Bolt	55146	1
Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55261	1
Field Coil	55261-1	1
Field Coil	55261-2	1
Field Coil	55261-3	1
Shell & Bracket Assy.	55144	1
Pole Shoe	23550	4
Pole Shoe Retainer	23552	4
Engine Adaptor Bracket	55258	1
Adaptor Bracket Screw	24707	4
End Cover Assy.	57076	1
End Cover Receptacle	56000	1
End Cover Receptacle	53636	2
Brush Rack Assy. (Complete)	57152	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate	55612	1
A. C. Condenser	54977	1
Rectifier (Excitation)	55143	1
Cradle	51817-1	1
Sub Frame	55471	1
Shock Mounts	20191	8

ENGINE MAKE Wisconsin MODEL # S14D PART # 57934

WINCO GENERATOR PLANT

Models P4WS-3M/A and P4WS-3E/A



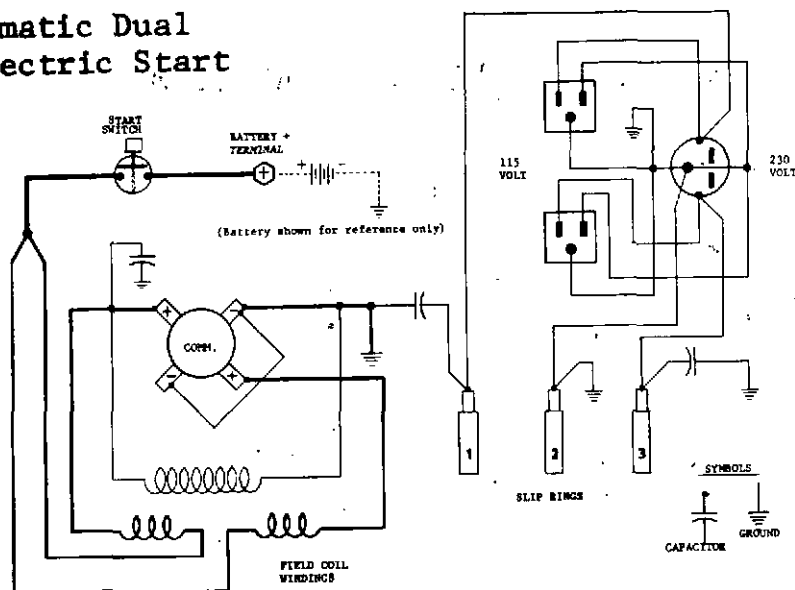
Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

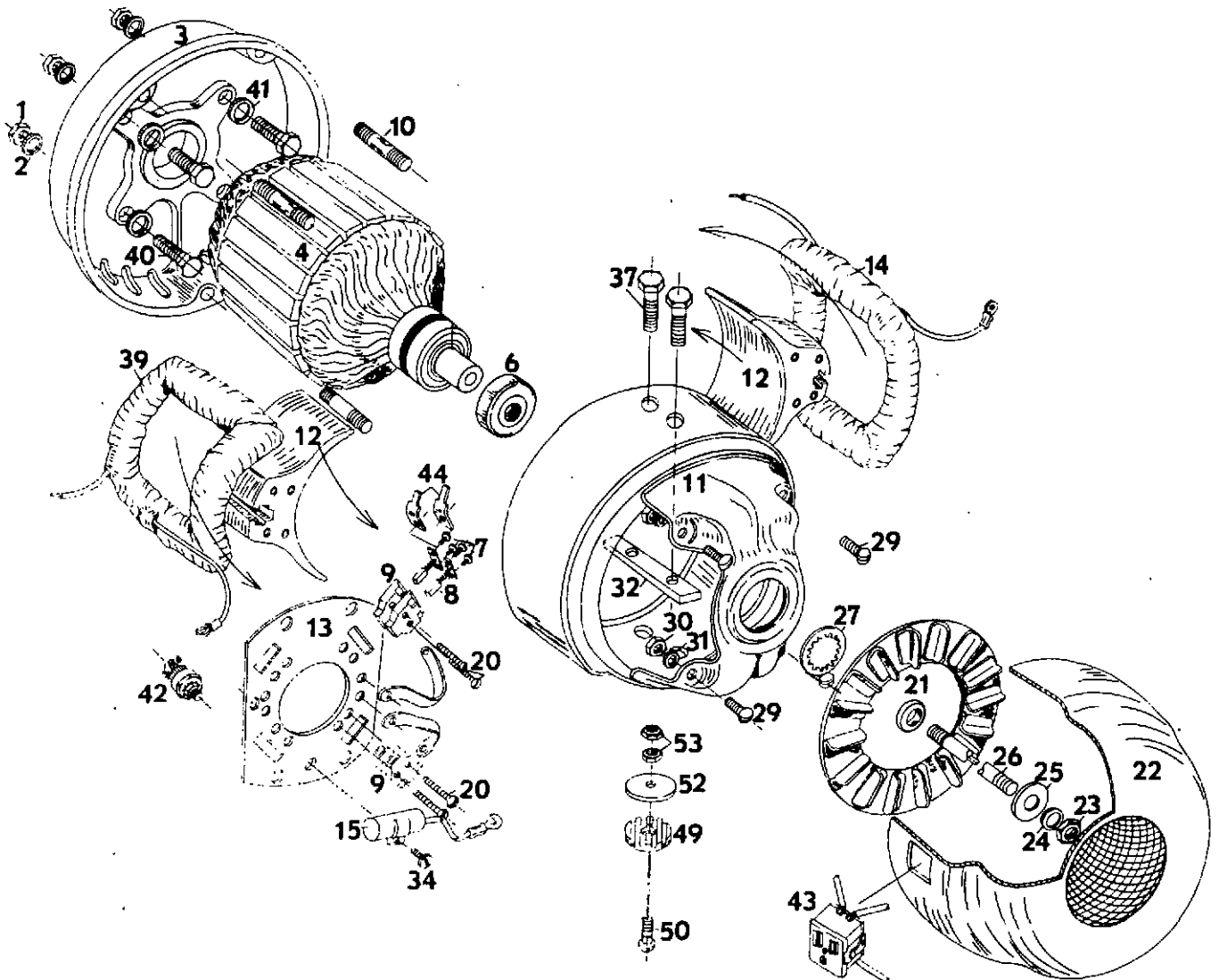
Schematic Dual Voltage Electric Start



PARTS LIST

Item	Part No.	M* Qty.	E* Qty.	Description	Item	Part No.	M* Qty.	E* Qty.	Description
1	55471	1	1	Sub frame assy	25	6402	3	4	Machine screw
2	458	12	14	Hex Nuts	26	40550	4	4	Machine screw
3	23760	4	4	Steel washer	27	55496	1	—	Rectifier & plate assy
4	47509	4	4	Rubber washer	28	638	—	2	Hex nut
5	20191	8	8	Shock mount	29	479	—	6	Lockwasher
6	51817-1	1	1	Cradle assy	30	2210	—	1	Start switch
7	51101	4	4	Hex hd bolt	31	3884	—	2	Machine screw
8	23558	2	2	Flat washer	32	53636	2	2	Receptacle
9	1116	1	1	Hex hd bolt	33	55253	1	1	Receptacle
10	480	6	8	Lockwasher	34	21976	2	2	Lockwasher
11	399	4	4	Hex hd bolt	35	55251	1	—	End cover
12	481	4	4	Lockwasher		55386	—	1	End cover
13	459	4	4	Hex nut	36	23605	1	1	Hex nut
14	52528	1	1	End bracket	37	55146	1	1	Thru bolt
15	55145-1	1	—	Armature	38	55101	1	1	Fan
	55364-1	—	1	Armature	39	54977	1	—	AC capacitor
16a	55261-3	1	—	Field coil	40	55224	1	1	Lockwasher
	55383	—	1	Field coil	41	23552	4	4	Pole shoe retainer
16b	55261-2	1	—	Field coil	42	55144	1	1	Field shell & bracket
	55383-1	—	1	Field coil	43	420	3	4	Machine screw
16c	55261-1	1	—	Field coil	44	22423	4	5	Lockwasher
	55383-2	—	1	Field coil	45	456	4	5	Hex nut
16d	55261	1	—	Field coil	46	53996	—	1	Heat sink
	55383-3	—	1	Field coil	47	55178	—	2	Bracket
17	23550	4	4	Pole shoe	48	41180	—	1	DC capacitor
18	1743	8	8	Hex hd cap screw	49	41393	—	4	DC brush
19	5113	6	14	Hex hd nut	50	4637	—	7	Machine screw
20	6376	5	6	Lockwasher	51	25394	—	1	Machine screw
21	41221	1	2	AC capacitor	52	41984	—	1	Resistor
22	40746	12	12	Machine screw	53	55376	—	2	Riveted brush rack assy
23	23607	6	6	AC brush	54	54023-1	—	1	Rectifier
24	23500	6	6	AC brush holder					

WINCO GENERATOR PLANT
MODELS P105TH-1M/A and P109BH-1M/A



Manufactured by

WINCO

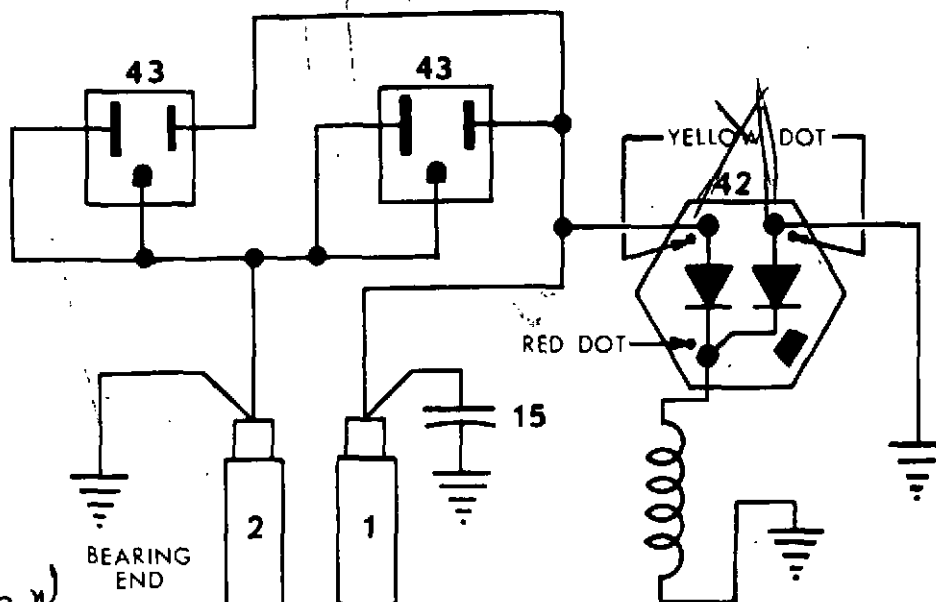
Division of Dyna Technology, Inc.

225 South Cordova St. / LE CENTER, MINNESOTA 56057

Phone: (612) 357-6821

RPL#611

FEB78



42DAP/3W

PARTS LIST

Ref. No.	Description	Model P105TH-1M/A	Qty.	Model P109BH-1M/A	Qty.
1	Field Shell Stud Nut	638	3	638	3
2	Stud Nut Lockwasher	479	3	479	3
3	End Bracket	55043	1	43887	1
4	Armature	55090-1	1	55275-1	1
6	Bearing	55223	1	55223	1
7	Screw - Brush	40746	8	40746	8
8	Brush	23607	4	23607	4
9	Brush Holder	23500	4	23500	4
10	Field Shell Stud	23817	3	23817	3
11	Field Shell & Bracket	53627	1	53580	1
12	Pole Shoe	23804	2	23806	2
13	Brush Rack	55091	1	55091	1
14	Field Coil Top	55284-1	1	53639-1	1
15	A. C. Condenser	54977	1	54977	1
20	Machine Screw Brush Holder	23598	4	23598	4
21	Fan	54976	1	54976	1
22	End Cover	55304	1	55304	1
23	Armature Nut	23605	1	23605	1
24	Armature Lockwasher	480	5	480	5
25	Armature Flat Washer	23558	1	23558	1
26	Armature Thru Bolt	23197-4	1	23197-5	1
27	Fan Lockwasher	55224	1	55224	1
29	Screw - Brush Rack Mounting	420	3	420	3
30	Hex Nut - Brush Rack	456	4	456	4
31	Lockwasher	22423	4	22423	4
32	Pole Shoe Retainer	53629	2	53577	2
34	Machine Screw	6402	1	6402	1
37	Pole Shoe Screw	1743	2	1743	2
39	Field Coil Bottom	55284	1	53639	1
40	Cap Screw	55576	4	55576	4
41	Lockwasher	480	5	480	5
42	Rectifier	54976	1	54976	1
43	Receptacle	53636	2	53636	2
44	Terminal Connector	53643	1	53643	1
49	Spring Mount	55096	4	55096	4
50	Machine Screw	42482	4	42482	4
52	Lock Washer	480	6	480	6
53	Hex Nut	458	6	458	6

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

Wiring Diagram C55381

Schematic N/A

Generator Parts

Unassembled A55380

Complete Unit

Part # C55411

REPAIR
PARTS LIST
#536

Size 4000 Watts

Drive Direct

Type Four Pole

Unit Model # P4WS-3R/A

DESCRIPTION

PART #

QTY.

Armature	55364-1	1
Armature Bearing	55223	1
Armature Thru Bolt	55146	1

Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1

Field Coil	55383	1
Field Coil	55383-1	1
Field Coil	55383-2	1
Field Coil	55383-3	1

Shell & Bracket Assy.	55144	1
Pole Shoe	23550	4
Pole Shoe Retainer	23552	4
Engine Adaptor Bracket	55258	1
Adaptor Bracket Screw	24707	4
End Cover Assy.	55399	1
End Cover Receptacle	53636	2
End Cover Receptacle	55253	1

Brush Rack Assy.	55384	1
(Complete)	& -1	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
D. C. Brush	41393	2
D. C. Brush Holder		
& Plate Assy.	55376	2
A. C. Condenser	41221	1
D. C. Condenser	41180	1
Resistor (Charge)	55385	1
Start Switch	2210	1

Cradle	51817-1	1
Sub Frame	55471	1
Shock Mounts	20191	8

ENGINE MAKE Wisconsin MODEL # S14D PART # 55293

Wiring Diagram C51668

Schematic N/A
Generator Parts
Unassembled C51667
Complete Unit
Part # C51669

REPAIR
PARTS LIST
#492

Size 4300 Watts
Drive Direct
Type Two Pole

Unit Model # 403WH-FM/F

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	51490-1	1	Control Box Assy.	51670	1
Armature Bearing	46911	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-9	1	Front Panel (Bare)	51596	1
			Rear Panel (Bare)	51606	1
Fan Assy.	23404	1	Receptacle (115)	24749	1
Fan Washer	23558	1	Receptacle (230)	22902	1
Fan Lockwasher	40552	1	Receptacle (230)		
Fan Nut	23605	1	(4-Prong)	56359	1
			Start Switch	44022	1
Field Coil	51662	1			
Field Coil	51662-1	1	Conserver Assy.		
			(Complete)	51668	1
Shell & Bracket Assy.	43971	1	Module	49521	1
Pole Shoe	43972	2	Module Bracket	50237	1
Pole Shoe Retainer	43973	2	Transformer	40450	1
Engine Adaptor Brkt.	46187-1	1	Electro Magnet	44889	1
Adaptor Brkt. Screw	23604	4	Formed Bracket	50910	1
End Cover Assy.	23634	1	Lever (Throttle)	48187	1
			Resistor	48583	1
Brush Rack Assy.	51488	1	Switch	24238	1
(Complete)	& -1	1	Cover	44891	1
A. C. Brush	24981	9	Cover Nut	44948	1
A. C. Brush Holder	23500-2	9			
Brush Holder Plate	50471	2			
A. C. Condenser	41221	3			
Rectifier					
(Excitation)	51736	1			
Cradle	24401-1	1			
Sub Frame	24543	1			
Shock Mounts	23623	4			

ENGINE MAKE Wisconsin MODEL # AENL PART # 48090

Wiring Diagram C57003
 Schematic N/A
 Generator Parts
 Unassembled C56998
 Complete Unit
 Part # C56997

 REPAIR
 PARTS LIST
 #486

Size 4500 Watts
 Drive Direct
 Type Two Pole
 Unit Model # 405BH-FE/F

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	57001-1	1	Control Box Assy.	57004	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-15	1	Front Panel (Bare)	57010	1
			Rear Panel (Bare)	57009	1
Fan Assy.	55101	1	Receptacle (115)	24749	1
Fan Washer	23558	1	Receptacle (115)	56279	1
Fan Lockwasher	55224	1	Receptacle (230)	56281	1
Fan Nut	23605	1	Resistor (Charge)	57011	1
			Heat Sink &		
Field Coil	53989	1	Diode Assy.	54776	1
Field Coil	53989-1	1	Start Stop Switch	52029	1
			Start Solenoid	24061	1
Shell & Bracket Assy.	57000	1			
Pole Shoe	43972	2	Conserver Assy.		
Pole Shoe Retainer	43973	2	(Complete)	55798	1
Engine Adaptor Brkt.	54025	1	Module	56921	1
Adaptor Brkt. Screw	54028	4	Transformer	54196	1
End Cover Assy.	55007	1	Electro Magnet	44889	1
			Formed Bracket	55063	1
Brush Rack Assy.	51760	1	Lever (Throttle)	44892	1
(Complete)	& -1	1	Resistor	48583	1
A. C. Brush	55536	10	Switch	24238	1
A. C. Brush Holder	23500	10			
D. C. Brush	41393	2			
D. C. Brush Holder	41745	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Cradle	24401-1	1			
Sub Frame	23754	1			
Shock Mounts	23623	4			

ENGINE MAKE Briggs & Stratton MODEL # 243431 PART # 53884

Wiring Diagram C56964
 Schematic C56964
 Generator Parts
 Unassembled C57018
 Complete Unit
 Part # C57017

 REPAIR
 PARTS LIST
 #488

Size 4500 Watts
 Drive Direct
 Type Two Pole
 Unit Model # 405BH-FM/F

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	57020	1	Control Box Assy.	57019	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-15	1	Front Panel (Bare)	57010	1
			Rear Panel (Bare)	51606	1
Fan Assy.	55101	1	Receptacle (115)	24749	1
Fan Washer	23558	1	Receptacle (115)	56279	1
Fan Lockwasher	55224	1	Receptacle (230)	56281	1
Fan Nut	23605	1			
			Conserver Assy.		
Field Coil	57023	1	(Complete)	55798	1
Field Coil	57023-1	1	Module	56921	1
			Transformer	54196	1
Shell & Bracket Assy.	57000	1	Electro Magnet	44889	1
Pole Shoe	43972	2	Formed Bracket	55063	1
Pole Shoe Retainer	43973	2	Lever (Throttle)	44892	1
Engine Adaptor Brkt.	54025	1	Resistor	48583	1
Adaptor Brkt. Screw	54028	4	Switch	24238	1
End Cover Assy.	55007	1			
Brush Rack Assy.	57024	1			
(Complete)	& -1	1			
A. C. Brush	24981	9			
A. C. Brush Holder	23500-2	9			
Brush Holder Plate	56960	2			
A. C. Condenser	41221	3			
Rectifier					
(Excitation)	53976	1			
Cradle	24401-1	1			
Sub Frame	23754	1			
Shock Mounts	23623	4			

ENGINE MAKE Briggs & Stratton MODEL # 243431 PART # 53884

Wiring Diagram C57356
 Schematic C57003
 Generator Parts
 Unassembled C56998
 Complete Unit
 Part # C57286

 REPAIR
 PARTS LIST
 #487

Size 4500 Watts
 Drive Direct
 Type Two Pole

Unit Model # FD405BH-FE/F

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	57001-1	1	Control Box Assy.	57355	1
Armature Bearing	55223	1	Cover Assy.	51580	1
Armature Thru Bolt	23197-15	1	Front Panel (Bare)	57358	1
Fan Assy.	55101	1	Rear Panel (Bare)	51605	1
Fan Washer	23558	1	Receptacle (115)	48323	1
Fan Lockwasher	55224	1	Receptacle (230)	51653	4
Fan Nut	23605	1	Receptacle	56281	1
Field Coil	53989	1	Receptacle	56279	1
Field Coil	53989-1	1	Start Solenoid	24061	1
Shell & Bracket Assy.	57000	1	Connector Half	43659	1
Pole Shoe	43972	2	Conserver Assy.		
Pole Shoe Retainer	43973	2	(Complete)	55798	1
Engine Adaptor Brkt.	54025	1	Module	56921	1
Adaptor Brkt. Screw	54028	4	Transformer	54196	1
End Cover Assy.	55007	1	Electro Magnet	44889	1
Brush Rack Assy.	51760	1	Formed Bracket	55063	1
(Complete)	& -1	1	Lever (Throttle)	44892	1
A. C. Brush	55536	10	Resistor	48583	1
A. C. Brush Holder	23500	10	Switch	24238	1
D. C. Brush	41393	2			
D. C. Brush Holder	41745	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Cradle	24401-1	1			
Sub Frame	23754	1			
Shock Mounts	23623	4			

ENGINE MAKE Briggs & Stratton MODEL # 243431 PART # 53884

Wiring Diagram C55795

Schematic N/A

Generator Parts C55787-1

Complete Unit
Part # C55786

* REPAIR *
* PARTS LIST *
* #517 *

Size 5000 Watts

Drive Direct

Type Four Pole

Unit Model # 5BH-6M/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55776-1	1	Control Box Assy.	55763-2	1
Armature Bearing	46911	1	Cover Assy.	48355	1
Armature Thru Bolt	23197-5	1	Front Panel (Bare)	55737-2	1
			Rear Panel (Bare)	55741	1
Fan Assy.	23404	1	Receptacle	22902	3
Fan Washer	23558	1			
Fan Lockwasher	40552	1	Conserver Assy.		
Fan Nut	23605	1	(Complete)	55798	1
			Moduel	55692	1
Field Coil	55649	1	Transformer	40450	1
Field Coil	55649-1	1	Electro Magnet	44889	1
Field Coil	55649-2	1	Formed Bracket	55063	1
Field Coil	55649-3	1	Lever (Throttle)	44892	1
			Resistor	80132-3	1
Shell & Bracket Assy.	55764	1	Switch	24238	1
Pole Shoe	55633	4			
Pole Shoe Retainer	42628	4			
Engine Adaptor Brkt.	54025	1			
Adaptor Brkt. Screw	54028	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55766	1			
(Complete)	& -1	1			
A. C. Brush	23607	8			
A. C. Brush Holder	23500	8			
Brush Holder Plate	53975	2			
A. C. Condenser	41221	3			
Heat Sink Assy.	55650	1			
Cradle	55137	1			
Shock Mounts	20191-1	5			

ENGINE MAKE Briggs & Stratton MODEL # 24341 PART # 53884

Wiring Diagram C55795
 Schematic N/A
 Generator Parts
 Unassembled C55788
 Complete Unit
 Part # C55786-1

 REPAIR
 PARTS LIST
 #518

Size 5000 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 5BH-7M/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55777-1	1	Control Box Assy.	55763-1	1
Armature Bearing	46911	1	Cover Assy.	48355	1
Armature Thru Bolt	23197-5	1	Front Panel (Bare)	55737-1	1
			Rear Panel (Bare)	55741	1
Fan Assy.	23404	1	Receptacle	22902	3
Fan Washer	23558	1			
Fan Lockwasher	40552	1	Conservator Assy.		
Fan Nut	23605	1	(Complete)	55798	1
			Module	55692	1
Field Coil	55649	1	Transformer	40450	1
Field Coil	55649-1	1	Electro Magnet	44889	1
Field Coil	55649-2	1	Formed Bracket	55063	1
Field Coil	55649-3	1	Lever (Throttle)	44892	1
			Resistor	46856	1
Shell & Bracket Assy.	55764	1	Switch	24238	1
Pole Shoe	55633	4			
Pole Shoe Retainer	42628	4			
Engine Adaptor Brkt.	54025	1			
Adaptor Brkt. Screw	54028	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55765	1			
(Complete)	& -1	1			
A. C. Brush	23607	11			
A. C. Brush Holder	23500	11			
Brush Holder Plate	53975	2			
A. C. Condenser	41221	3			
Heat Sink Assy.	55650	1			
Cradle	55137	1			
Shock Mounts	20191-1	5			

ENGINE MAKE Briggs & Stratton MODEL # 243431 PART # 53884

Wiring Diagram C24931
 Schematic A24930
 Generator Parts
 Unassembled B24856
 Complete Unit
 Part # 43742

 REPAIR
 PARTS LIST
 #479

Size 5000 Watts
 Drive Two Bearing
 Type Four Pole

Unit Model # 5KS4GC-1/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	24883-1	1	Control Box Assy.	42931-1	1
Armature Bearing			Cover Assy.	22516	1
Brush End	46911	1	Front Panel (Bare)	23003	1
Armature Bearing			Rear Panel (Bare)	43162	1
Bracket End	53367	1	Receptacle (115)	24749	1
			Receptacle (230)	23324	1
Fan Assy.	23404	1	Voltmeter	20983	1
Fan Washer	21867	1			
Fan Lockwasher	40552	1			
Fan Nut	9549	1			
Field Coil	24732	1			
Field Coil	24732-1	1			
Field Coil	24732-2	1			
Field Coil	24732-3	1			
Shell & Bracket Assy.	24192	1			
Pole Shoe	24193	4			
Pole Shoe Retainer	24194	4			
Engine Adaptor Brkt.	24265	1			
Adaptor Brkt. Screw	441	4			
End Cover Assy.	24478	1			
Brush Rack Assy.	24853	1			
(Complete)	& -1	1			
A. C. Brush	24981	6			
A. C. Brush Holder	23500-2	6			
D. C. Brush	24042	4			
D. C. Brush Holder	23500-2	4			
D. C. Condenser	22685	1			
D. C. Condenser	22683	1			
Base	51147	1			

Wiring Diagram N/A
 Schematic B44149
 Generator Parts
 Unassembled B44879
 Complete Unit
 Part # B44880

 REPAIR
 PARTS LIST
 #541

Size 5000 Watts
 Drive Two Bearing
 Type Four Pole

Unit Model # 5KS4GC-3/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	24660-1	1	Control Box Assy.	24484	1
Armature Bearing			Cover Assy.	24718	1
Brush End	46911	1			
Armature Bearing					
Bracket End	53367	1			
Fan Assy.	23404	1			
Fan Washer	21867	1			
Fan Lockwasher	20039	1			
Fan Nut	9459	1			
Field Coil	44877	1			
Field Coil	44877-1	1			
Field Coil	44877-2	1			
Field Coil	44877-3	1			
Shell & Bracket Assy.	24192	1			
Pole Shoe	24193	4			
Pole Shoe Retainer	24194	4			
Engine Adaptor Brkt.	24265	1			
Adaptor Brkt. Screw	441	4			
End Cover Assy.	24478	1			
Brush Rack Assy.					
(Complete)	41639	1			
A. C. Brush	23607	6			
A. C. Brush Holder	23500	6			
D. C. Brush	41393	4			
D. C. Brush Holder					
& Plate Assy.	41997	2			
A. C. Condenser	41221	2			
D. C. Condenser	41197	1			
Base	51147	1			

Wiring Diagram C55795
 Schematic N/A
 Generator Parts
 Unassembled C55780
 Complete Unit
 Part # C55779

 REPAIR
 PARTS LIST
 #520

Size 5000 Watts
 Drive Two Bearing
 Type Four Pole
 Unit Model # 5KS6GC-6/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55774-1	1	Control Box Assy.	55763-3	1
Armature Bearing			Cover Assy.	48355	1
Brush End	46911	1	Front Panel (Bare)	55737-2	1
Armature Bearing			Rear Panel (Bare)	23868-1	1
Bracket End	8031	1	Receptacle	22902	3
Fan Assy.	23404	1			
Fan Washer	20039	1			
Fan Lockwasher	40552	1			
Fan Nut	9549	1			
Field Coil	55773	1			
Field Coil	55773-1	1			
Field Coil	55773-2	1			
Field Coil	55773-3	1			
Shell & Bracket Assy.	55764	1			
Pole Shoe	55633	4			
Pole Shoe Retainer	42628	4			
End Bracket	40097	1			
Adaptor Bracket Screw	441	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55768	1			
(Complete)	& -1	1			
A. C. Brush	23607	8			
A. C. Brush Holder	23500	8			
Brush Holder Plate	53975	2			
A. C. Condenser	41221	3			
Heat Sink Assy.	55650	1			
Base	24535	1			

Wiring Diagram C55795
 Schematic N/A
 Generator Parts
 Unassembled C55719
 Complete Unit
 Part # B55624

 REPAIR
 PARTS LIST
 #523

Size 5000 Watts
 Drive Two Bearing
 Type Four Pole
 Unit Model # 5KS6GC-7/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55632-1	1	Control Box Assy.	55763-3	1
Armature Bearing			Cover Assy.	48355	1
Brush End	46911	1	Front Panel (Bare)	55737-2	1
Armature Bearing			Rear Panel (Bare)	23868	1
Bracket End	8031	1	Receptacle	22901	3
Fan Assy.	23404	1			
Fan Washer	9756	1			
Fan Lockwasher	40552	1			
Fan Nut	9549	1			
Field Coil	55649	1			
Field Coil	55649-1	1			
Field Coil	55649-2	1			
Field Coil	55649-3	1			
Shell & Bracket Assy.	55764	1			
Pole Shoe	55633	4			
Pole Shoe Retainer	42628	4			
End Bracket	40097	1			
Adaptor Bracket Screw	441	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55648	1			
(Complete)	& -1	1			
A. C. Brush	23607	11			
A. C. Brush Holder	23500	11			
Brush Holder Plate	53975	2			
A. C. Condenser	41221	3			
Heat Sink Assy.	55650	1			
Base	24535	1			

Wiring Diagram C54136
Schematic N/A
Generator Parts
Unassembled C55420
Complete Unit
Part # C55419

REPAIR
PARTS LIST
#542

Size 5300 Watts
Drive Direct
Type Two Pole
Unit Model # P503BH-3E/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55317-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-7	1
Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55422	1
Field Coil	55422-1	1
Shell & Bracket Assy.	55417	1
Pole Shoe	23207	2
Pole Shoe Retainer	23208	2
Engine Adaptor Bracket	54025	1
Adaptor Bracket Screw	54028	4
End Cover Assy.	55368	1
End Cover Receptacle	53636	2
End Cover Receptacle	55253	1
Brush Rack Assy.	55423	1
(Complete)	& -1	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
D. C. Brush	41393	2
D. C. Brush Holder	41744	1
& Plate Assy.	& -1	1
A. C. Condenser	41221	2
D. C. Condenser	41180	1
Resistor (Charge)	55425	1
Start Switch	2210	1
Cradle	55137	1
Shock Mounts	20191-1	5

ENGINE MAKE Briggs & Stratton MODEL # 243431 PART # 53884

Wiring Diagram C54136
Schematic N/A
Generator Parts
Unassembled A57964
Complete Unit
Part # C55419

REPAIR
PARTS LIST
#568

Size 5300 Watts
Drive Direct
Type Two Pole
Unit Model # P503BH-3E/C

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55317	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-7	1
Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55422	1
Field Coil	55422-1	1
Shell & Bracket Assy.	55417	1
Pole Shoe	23207	2
Pole Shoe Retainer	23208	2
Engine Adaptor Bracket	54178	1
Adaptor Bracket Screw	3290	4
End Cover Assy.	55368	1
End Cover Receptacle	53636	2
End Cover Receptacle	55253	1
Brush Rack Assy.	55423	1
(Complete)	& -1	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
D. C. Brush	41393	2
D. C. Brush Holder	41744	1
& Plate Assy.	& -1	1
A. C. Condenser	41221	2
D. C. Condenser	41180	1
Resistor (Charge)	55425	1
Start Switch	2210	1
Cradle	57906	1
Sub Frame	57963	1
Shock Mounts	20191	8

ENGINE MAKE Briggs & Stratton MODEL # 251412 PART # 57965

Wiring Diagram C55415
Schematic N/A
Generator Parts
Unassembled C55415
Complete Unit
Part # C55414

REPAIR
PARTS LIST
#535

Size 5300 Watts
Drive Direct
Type Two Pole
Unit Model # P503BH-3M/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55318-1	1
Armature Bearing	55223	1
Armature Thru Bolt	23197-7	1
Fan Assy.	55101	1
Fan Washer	23558	1
Fan Lockwasher	55224	1
Fan Nut	23605	1
Field Coil	55361	1
Field Coil	55361-1	1
Shell & Bracket Assy.	55417	1
Pole Shoe	23207	2
Pole Shoe Retainer	23208	2
Engine Adaptor Bracket	54025	1
Adaptor Bracket Screw	54028	4
End Cover Assy.	55140	1
End Cover Receptacle	53636	2
End Cover Receptacle	55253	1
Brush Rack Assy. (Complete)	55247	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate	55107	1
A. C. Condenser	41221	2
Rectifier (Excitation)	54976	1
Cradle	55137	1
Shock Mounts	20191-1	5

ENGINE MAKE Briggs & Stratton MODEL # 243431 PART # 53884

Wiring Diagram C56617
 Schematic N/A
 Generator Parts
 Unassembled C56617
 Complete Unit
 Part # B56615

 REPAIR
 PARTS LIST
 #491

Size 5300 Watts
 Drive Two Bearing
 Type Two Pole
 Unit Model # 503KS2PC-3/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	56560-1	1
Armature Bearing		
Brush End	46911	1
Armature Bearing		
Bracket End	8031	1
Fan Assy.	23404	1
Fan Washer	21867	1
Fan Lockwasher	40552	1
Fan Nut	9549	1
Field Coil	55361	1
Field Coil	55361-1	1
Shell & Bracket Assy.	55417	1
Pole Shoe	23207	2
Pole Shoe Retainer	23208	2
Engine Adaptor Bracket	40097	1
Adaptor Bracket Screw	9416	4
End Cover Assy.	55140	1
End Cover Receptacle	53636	2
End Cover Receptacle	55253	1
Brush Rack Assy. (Complete)	55247	1
A. C. Brush	23607	6
A. C. Brush Holder	23500	6
Brush Holder Plate	55107	1
A. C. Condenser	41221	1
Capacitor & Lead Assy.	54977	1
Rectifier (Excitation)	54976	1
Base	24535	1

Wiring Diagram C57322
 Schematic N/A
 Generator Parts
 Unassembled A57542
 Complete Unit
 Part # C57245

 REPAIR
 PARTS LIST
 #555

Size 6000 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 6PDS-3E/B

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	51301-1	1	Control Box Assy.	57294	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	57283	1
			Rear Panel (Bare)	51608	1
Fan Assy.	23404	1	Receptacle	56281	1
Fan Washer	23558	1	Receptacle	56279	1
Fan Lockwasher	40552	1	Resistor (Charge)	24870	1
Fan Nut	23605	1	Heat Sink & Diode Assy.	45930-2	1
			Start Stop Switch	52029	1
Field Coil	50503	1	Receptacle	57324	1
Field Coil	50503-1	1	Receptacle	56359	1
Field Coil	50503-2	1	Receptacle	50766	1
Field Coil	50503-3	1			
Shell & Bracket Assy.	51087	1			
Pole Shoe	51007	4			
Pole Shoe Retainer	51009	4			
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	56077	1			
(Complete)	& -1	1			
A. C. Brush	55536	9			
A. C. Brush Holder	23500	9			
D. C. Brush	47683	4			
D. C. Brush Holder					
& Plate Assy.	49075	2			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Frame	57391	1			

ENGINE MAKE Petter Diesel MODEL # PJ-1 PART # 56034

Wiring Diagram C52255
 Schematic N/A
 Generator Parts
 Unassembled C51786
 Complete Unit
 Part # C52258

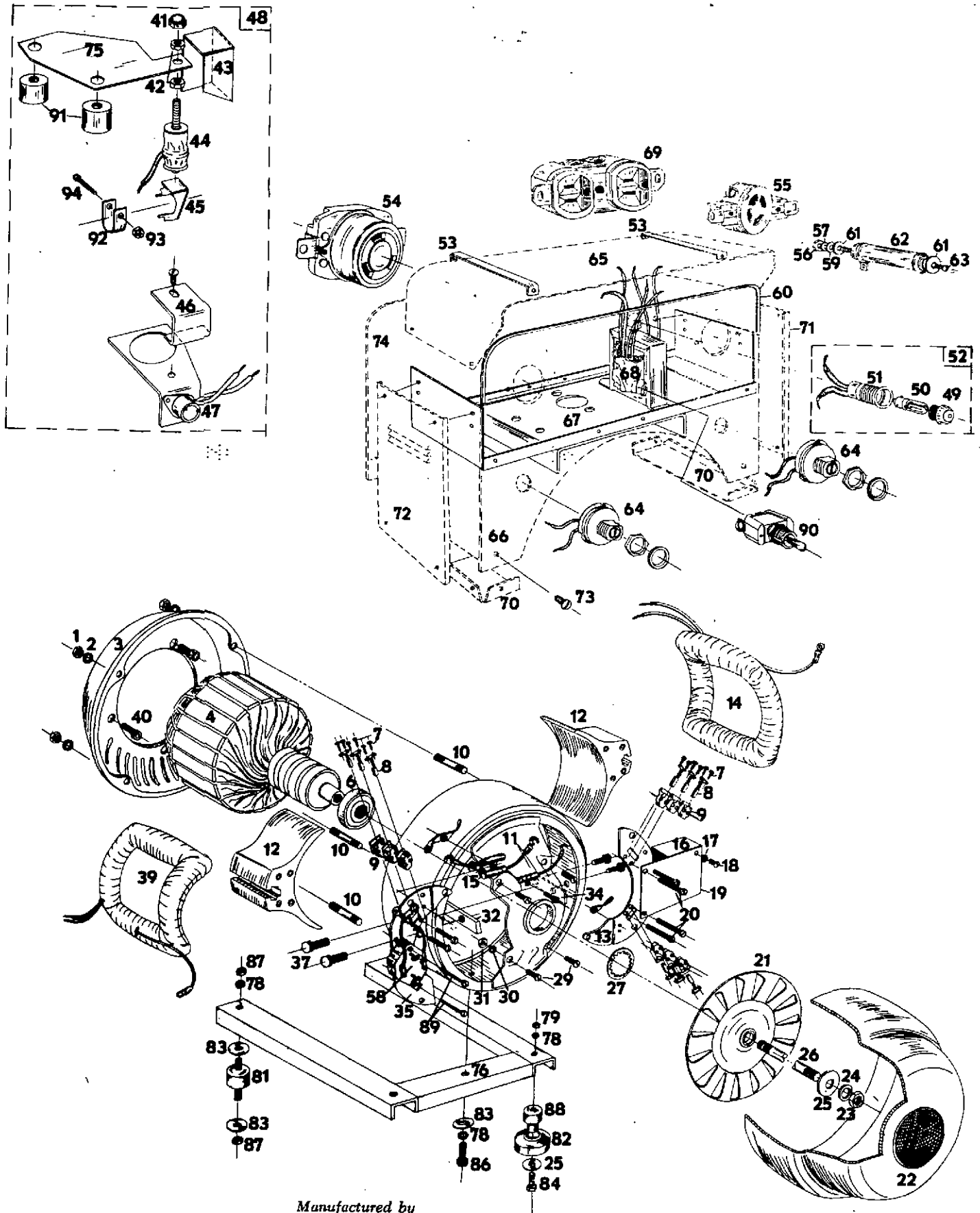
 REPAIR
 PARTS LIST
 #537

Size 6000 Watts
 Drive Direct
 Type Two Pole
 Unit Model # FD6WH-FE/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	51772-1	1	Control Box Assy.	52257	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	24185	1	Front Panel (Bare)	52243-1	1
/			Rear Panel (Bare)	51605	1
Fan Assy.	23404	1	Receptacle	22636	1
Fan Washer	23558	1	Receptacle	43603	1
Fan Lockwasher	40552	1	Receptacle	23324	4
Fan Nut	23605	1	Receptacle	22901	1
Field Coil	51895	1	Start Stop Switch	23772	1
Field Coil	51895-1	1	Maxi Watt Switch	44022	1
			Start Solenoid	24061	1
			Battery Connector Half	43660	1
Shell & Bracket Assy.	51698	1			
Pole Shoe	42882	2	Conserver Assy.		
Pole Shoe Retainer	51697	2	(Complete)	51773	1
Engine Adaptor Brkt.	24957	1	Module	49521	1
Adaptor Brkt. Screw	23604	4	Transformer	40450	1
End Cover Assy.	23634	1	Electro Magnet	44889	1
			Formed Bracket	41788	1
Brush Rack Assy.	51784	1	Lever (Throttle)	51787	1
(Complete)	& -1	1	Resistor	48583	1
A. C. Brush	55536	11	Switch	24238	1
A. C. Brush Holder	23500	11	Cover	44891	1
D. C. Brush	47683	2	Cover Nut	44948	1
D. C. Brush Holder	47684	1			
& Plate Assy.	& -1	1			
A.C. Condenser	41221	2			
D. C. Condenser	41180	1			
Cradle	51817-1	1			
Sub Frame	51711	1			
Shock Mounts	20191	8			

ENGINE MAKE Wisconsin MODEL # S14D PART # 51763

WINCO GENERATOR PLANT MODEL 6WH-FM

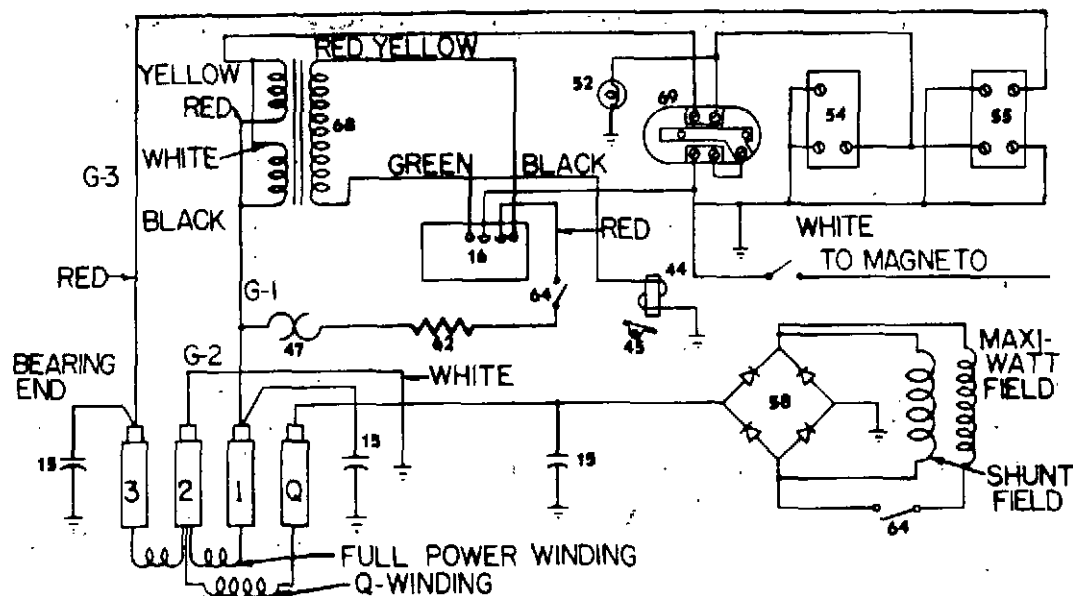


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102

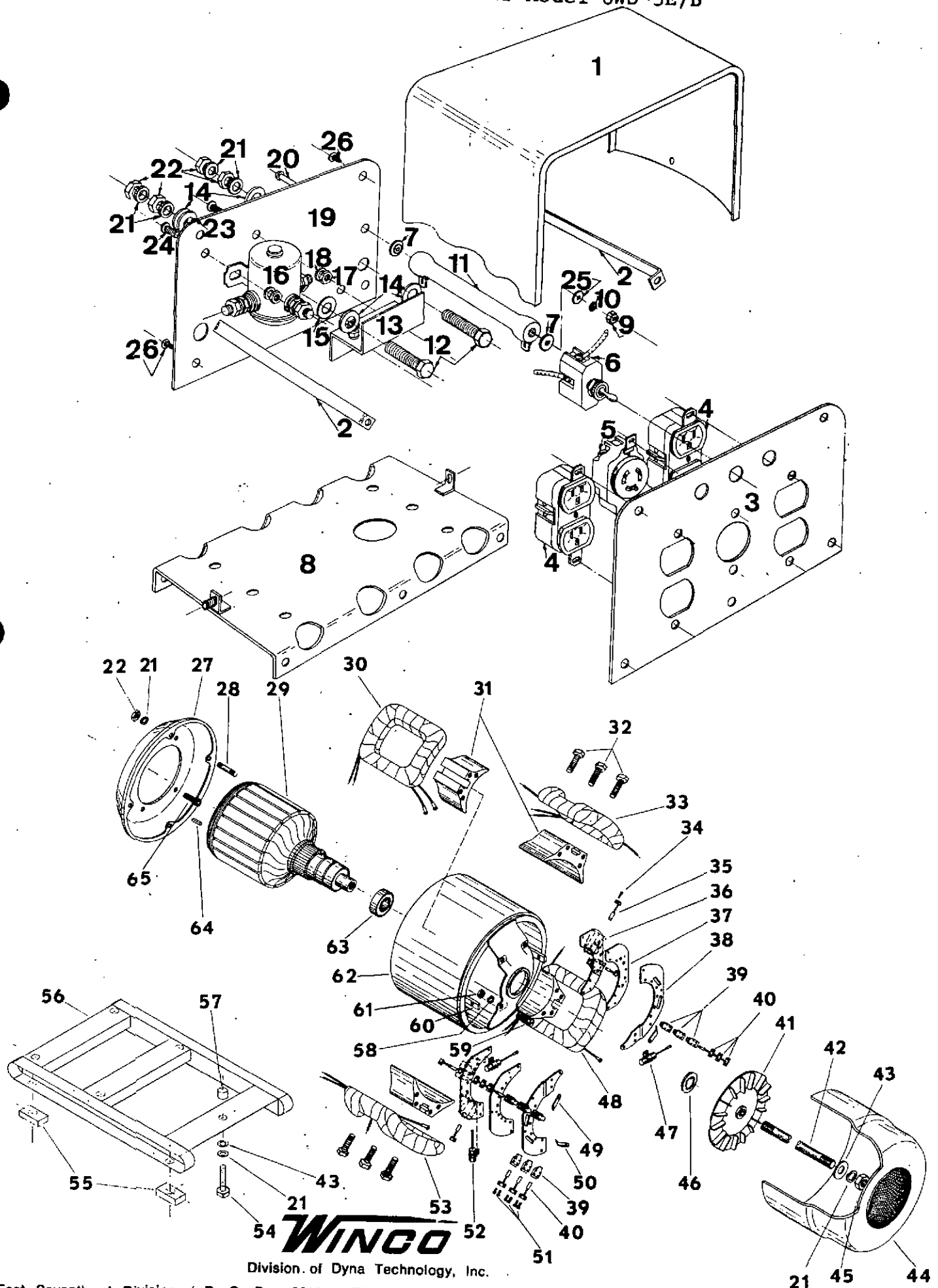


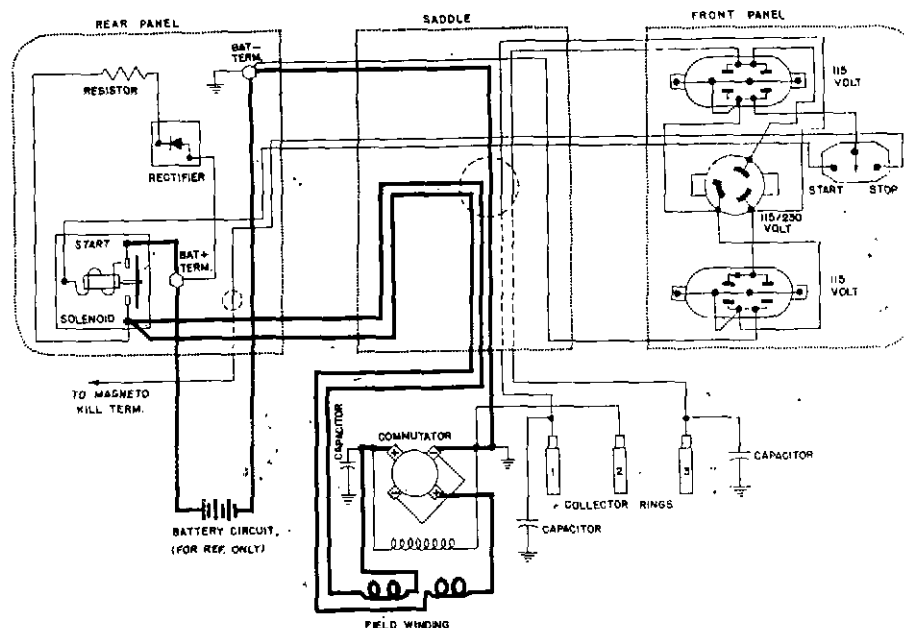
PARTS LIST

Ref. No.	Part No.	DESCRIPTION	Quantity	Ref. No.	Part No.	DESCRIPTION	Quantity
1	458	Field Shell Stud Nut (5/16-18)	4	47	49417	Thermostat	1
2	480	Stud Nut Lockwasher (5/16")	4	48	51773-1	Bracket and Magnet Assembly Complete	1
3	24957	End Bracket	1	49	43341-1	Dome Only	1
4	51581-1	Armature	1	50	43358	Bulb	1
6	50215	Bearing	1	51	43341	Socket & Dome	1
7	40746	Screw—A. C. Brush (#8-32x5/16")	18	52	43340	Socket Assembly	1
8	24981	A. C. Brush	9	53	51576	Brace	2
9	23500-2	Brush Holder	9	54	22636	Receptacle 115 Volt	1
10	23451	Field Shell Stud	4	55	22902	Receptacle 230 Volt	1
11	51698	Field Shell & Bracket	1	56	6372	Hex Nut (10-32)	1
12	42882	Pole Shoe	2	57	21975	Lockwasher #10 Ext.	1
13	50471	Brush Rack Half	1	58	49484	Rectifier	1
14	51737-1	Field Coil	1	59	598	Flatwasher #10	1
15	41221	A. C. Condenser	3	60	51696-1	Weather Strip	2
16	48574	Module for Conserver	1	61	1376	Shoulder Washer	2
17	21976	Lockwasher (#8 Ext.)	2	62	48583	Resistor	1
18	6402	Screw (8-32x3/8")	2	63	24864	Machine Screw	1
19	50237	Bracket-Module	1	64	44022	Switch	2
20	21977	Machine Screw-Brush Holders (8-32x2 1/4")	6	65	51580	Box Cover	1
21	23404	Fan	1	66	51813	Front Panel	1
22	23634	End Cover	1	67	51573	Saddle	1
23	23605	Armature Nut (5/16-24)	1	68	40450	Transformer	1
24	480	Armature Lockwasher (5/16")	1	69	24749	Receptacle 115 Volt Duplex	1
25	23558	Flat Washer	5	70	51577	Bottom Support	2
26	24185	Armature Thru Bolt	1	71	51685	Side Panel—(right)	1
27	40552	Fan Lockwasher	1	72	51589	Side Panel—(left)	1
29	3728	Screw-Brush Rack Mounting (#10-24x1 1/2")	4	73	21698	Sheet Metal Screw (#10x3/8")	30
30	484	Lockwasher-Brush Rack Mounting (#10)	4	74	51606	Rear Cover	1
31	456	Nut-Brush Rack Mounting (#10-24)	4	75	51788	Bracket-Electro Magnet	1
32	51697	Pole Shoe Retainer	2	76	51711	Sub Frame	1
34	6402	Machine Screw-Capacitor (8-32x3/8")	3	78	480	Lockwasher 5/16	5
35	50471	Brush Rack Half	1	79	458	Hex Nut 5/16-18	4
37	399	Pole Shoe Screw (Hex 3/8-16x1 1/4")	6	81	23623	Rubber Shock Mounting (With Cradle)	4
39	51737	Field Coil	1	82	20952	Rubber Foot (Without Cradle)	4
40	24707	Allen Screw	4	83	23760	Flat Washer	1
41	44948	Acorn Nut (5/16-24)	1	84	580	Cap Screw (5/16-18x1 1/4")	4
42	44894	Hex Jam Nut (5/16-24)	2	86	467	Cap Screw (5/16-18x3/4")	1
43	44891	Cover	1	87	446	Hex Nut (5/16-24)	8
44	44889	Electro Magnet	1	88	24187	Spacer	4
45	51787	Bracket-Throttle Lever	1	89	49531	Machine Screw (4-40x1 1/4")	2
46	45222	Bracket-Cover Thermostat	1	90	52029	Switch - Stop	1
				91	48714	Spacer	2
				92	51801	Locking Band	1
				93	51802	Lock Nut	1
				94	22221	Machine Screw (#6-32 x 1")	1

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WINCO GENERATOR PLANT Model 6WS-3E/B





PARTS LIST

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	21626	1	Cover	33	53131-3	1	Field coil
2	49974	2	Brace	34	4637	10	Machine screw
3	56401	1	Front Panel	35	41393	4	DC brush
4	24749	2	Receptacle	36	51936	2	Riveted DC brush rack assy.
5	56281	1	Receptacle	37	53454	2	Mounting plate spacer
6	23772	1	Switch	38	51933	2	Mounting plate half
7	1376	2	Shoulder Washer	39	23500	9	AC brush holder
8	24733	1	Base	40	55536	9	AC brushes
9	6372	1	Hex Nut	41	23404	1	Fan
10	21975	1	Lockwasher	42	24185	1	Thru bolt
11	40149	1	Resistor	43	23558	2	Flat washer
12	21974	2	Machine Screw	44	23634	1	End cover
13	45930-2	1	Heat Sink & Diode Assembly	45	23605	1	Hex nut
14	8068	4	Flat Washer (brass)	46	40552	1	Lockwasher
15	21981	1	Insulation Washer	47	41180	1	DC condenser
16	24061	1	Solenoid	48	53131-2	1	Field coil
17	638	4	Hex Nut	49	41387-7	2	Ground strap
18	479	4	Lockwasher	50	41387-1	1	Ground strap
19	52585	1	Rear Panel	51	40746	18	Machine screw
20	24864	1	Machine Screw	52	41221	2	AC condenser
21	480	10	Lockwasher	53	53131-1	1	Field coil
22	458	8	Hex Nut	54	471	1	Cap screw
23	6892	1	Insulation Washer	55	24725	4	Rubber blocks
24	3884	4	Machine Screw	56	49987	1	Frame assy
25	598	1	Flat Washer	57	24780	1	Spacer
26	21698	10	Sheet Metal Screw	58	484	4	Lockwasher
27	24957	1	Mounting bracket	59	3728	4	Screw
28	23451	4	Stud	60	51926	4	Pole shoe retainer
29	55302-1	1	Armature	61	456	4	Nut
30	53131	1	Field coil	62	52543	1	Field shell & bracket
31	51925	4	Pole shoe assy.	63	50215	1	Bearing
32	1743	12	Cap screw	64	51882	1	Key
				65	24707	4	Allen screw

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

Wiring Diagram C53560Schematic N/A

Generator Parts

Unassembled D55348

Complete Unit

Part # D55349-1

 REPAIR
 PARTS LIST
 #485

Size 6000 WattsDrive DirectType Four PoleUnit Model # 6WS-3R/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55302-1	1	Control Box Assy.	53405	1
Armature Bearing	50215	1	Cover Assy.	49627	1
Armature Thru Bolt	24185	1	Front Panel (Bare)	53561	1
			Rear Panel (Bare)	52592	1
Fan Assy.	23404	1	Resistor (Charge)	40149	1
Fan Washer	23558	1	Reverse Current Diode	45930-2	1
Fan Lockwasher	40552	1	Start Stop Switch	23772	1
Fan Nut	23605	1	Start Solenoid	24061	2
			Terminal Block	22148	1
Field Coil	53131	1			
Field Coil	53131-1	1			
Field Coil	53131-2	1			
Field Coil	53131-3	1			
Shell & Bracket Assy.	52543	1			
Pole Shoe	51925	1			
Pole Shoe Retainer	51926	1			
Engine Adaptor Brkt.	24957	1			
Adaptor Brkt. Screw	24707	1			
End Cover Assy.	23634	1			
Brush Rack Assy.	55346	1			
(Complete)	& -1	1			
A. C. Brush	55536	9			
A. C. Brush Holder	23500	9			
D. C. Brush	41393	4			
D. C. Brush Holder	1				
& Plate Assy.	51936	2			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Frame	49987	1			

ENGINE MAKE Wisconsin MODEL # THD PART # 24006

Wiring Diagram C57322
 Schematic N/A
 Generator Parts
 Unassembled A57464
 Complete Unit
 Part # C57246

 REPAIR
 PARTS LIST
 #511

Size 7000 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 7LDS-3E/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	51301-1	1	Control Box Assy.	57294	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	57283	1
			Rear Panel (Bare)	51608	1
Fan Assy.	23404	1	Receptacle (115)	50766	1
Fan Washer	23558	1	Receptacle (230)	56281	1
Fan Lockwasher	40552	1	Receptacle (230)	57324	1
Fan Nut	23605	1	Receptacle (115)	56359	1
			Receptacle (115)	56279	1
Field Coil	50503	1	Resistor (Charge)	24870	1
Field Coil	50503-1	1	Heat Sink &		
Field Coil	50503-2	1	Diode Assy.	45930-2	1
Field Coil	50503-3	1	Start Stop Switch	52029	1
Shell & Bracket Assy.	51087	1			
Pole Shoe	51007	4			
Pole Shoe Retainer	51009	4			
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	56077	1			
(Complete)	& -1	1			
A. C. Brush	55536	9			
A. C. Brush Holder	23500	9			
D. C. Brush	47683	4			
D. C. Brush Holder					
& Plate Assy.	49075	2			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Frame	57378	1			

ENGINE MAKE Lister Diesel MODEL # SR2 PART # 57245

Wiring Diagram C57811
 Schematic N/A
 Generator Parts
 Unassembled C57816
 Complete Unit
 Part # A58239

 REPAIR
 PARTS LIST
 #514

Size 7000 Watts
 Drive Direct
 Type +Four Pole
 Unit Model # 7LDS-3E/B

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	57790-1	1	Control Box Assy.	57813	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	57283	1
			Rear Panel (Bare)	57265	1
Fan Assy.	23404	1	Receptacle (115)(30A)	56359	1
Fan Washer	23558	1	Receptacle (230)(20A)	56281	1
Fan Lockwasher	40552	1	Receptacle (230)(30A)	57324	1
Fan Nut	23605	1	Receptacle (115)(20A)	56279	1
			Receptacle (115)(20A)	50766	1
Field Coil	57791	1	Resistor (Charge)	41254	1
Field Coil	57791-1	1	Heat Sink &		
Field Coil	57791-2	1	Diode Assy.	47731	1
Field Coil	57791-3	1	Start Stop Switch	52029	1
			Fuse	43798	1
Shell & Bracket Assy.	57794	1	Fuse Holder	2489	1
Pole Shoe	57796	4	Transformer	43945	1
Pole Shoe Retainer	57793	4			
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	57797	1			
(Complete)	& -1	1			
A. C. Brush	24981	6			
A. C. Brush Holder	23500-2	6			
Brush Holder Plate	58395	3			
Q. Ring Brush	53949	2			
Q. Ring Brush Holder	23500	2			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Base	57378	1			

ENGINE MAKE Lister Diesel MODEL # SR2 PART # 57425

Wiring Diagram C55357

Schematic N/A

Generator Parts

Unassembled C55334

Complete Unit

Part # C55335

REPAIR
PARTS LIST
#483

Size 7000 Watts

Drive Direct

Type Two Pole

Unit Model # 7WH-3E/B

DESCRIPTION

PART # QTY. DESCRIPTION

PART # QTY.

Armature	55329-1	1	Control Box Assy.	55354	1
Armature Bearing	50215	1	Cover Assy.	49627	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	56976-1	1
			Rear Panel (Bare)	55350	1
Fan Assy.	23404	1	Receptacle (115)	24749	2
Fan Washer	23558	1	Receptacle (230)	56281	1
Fan Lockwasher	40552	1	Resistor (Charge)	54599	1
Fan Nut	23605	1	Diode Assy.	54023-1	1
			Start Stop Switch	23772	1
Field Coil	55332	1	Start Solenoid	24061	1
Field Coil	55332-1	1			
			Conserver Assy.		
Shell & Bracket Assy.	55340	1	(Complete)	55697	1
Pole Shoe	43473	2	Module	55692	1
Pole Shoe Retainer	43474	2	Transformer	40450	2
Engine Adaptor Brkt.	55493	1	Electro Magnet	44889	1
Adaptor Brkt. Screw	24707	4	Formed Bracket	51788	1
End Cover Assy.	55007	1	Lever (Throttle)	51787	1
			Resistor	80132-3	1
Brush Rack Assy.	55657	1	Switch	24238	1
(Complete)	& -1	1	Cover	44891	1
A. C. Brush	55536	9	Cover Nut	44948	1
A. C. Brush Holder	23500	9	Band	51801	1
D. C. Brush	47683	2			
D. C. Brush Holder	47684	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Cradle	55045-1	1			
Shock Mounts	20191	6			

ENGINE MAKE Wisconsin MODEL # S14D PART # 54745

Wiring Diagram C55665
 Schematic N/A
 Generator Parts
 Unassembled C55667
 Complete Unit
 Part # C55666-1

 REPAIR
 PARTS LIST
 #495

Size 7000 Watts
 Drive Direct
 Type Two Pole
 Unit Model # 7WH-3R/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55329-1	1	Control Box Assy.	55668-1	1
Armature Bearing	50215	1	Cover Assy.	49627	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	55670	1
			Rear Panel (Bare)	55695	1
Fan Assy.	23404	1	Resistor	54599	2
Fan Washer	23558	1	Resistor (Charge)	80258-5	1
Fan Lockwasher	40552	1	Diode Assy.	54023-1	1
Fan Nut	23605	1	Start Stop Switch	23772	1
			Relay	55427	1
Field Coil	55332	1	Start Solenoid	24061	1
Field Coil	55332-1	1	Terminal Block	22148	1
Shell & Bracket Assy.	55340	1			
Pole Shoe	43473	2			
Pole Shoe Retainer	43474	2			
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	52374	1			
(Complete)	& -1	1			
A. C. Brush	55536	9			
A. C. Brush Holder	23500	9			
D. C. Brush	47683	2			
D. C. Brush Holder	47684	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Cradle	55045-1	1			
Shock Mounts	20191	6			

ENGINE MAKE Wisconsin MODEL # S14D PART # 55293

Wiring Diagram C55665

Schematic N/A
Generator Parts
Unassembled C55669
Complete Unit
Part # C55666-2

REPAIR
PARTS LIST
#494

Size 7000 Watts
Drive Direct
Type Two Pole
Unit Model # 7WH-5R/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55642-1	1	Control Box Assy.	55668-2	1
Armature Bearing	50215	1	Cover Assy.	21626	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	55670-1	1
			Rear Panel (Bare)	55695	1
Fan Assy.	23404	1	Resistor	54599	2
Fan Washer	23558	1	Resistor (Charge)	80258-5	1
Fan Lockwasher	40552	1	Diode Assy.	54023-1	1
Fan Nut	23605	1	Start Stop Switch	23772	1
			Relay	55427	1
Field Coil	55332	1	Start Solenoid	24061	1
Field Coil	55332-1	1	Terminal Block	22148	1
Shell & Bracket Assy.	55340	1			
Pole Shoe	43473	2			
Pole Shoe Retainer	43474	2			
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55674	1			
(Complete)	& -1	1			
A. C. Brush	55536	6			
A. C. Brush Holder	23500	6			
D. C. Brush	47683	2			
D. C. Brush Holder	47684	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	3			
D. C. Condenser	41180	1			
Cradle	55045-1	1			
Shock Mounts	20191	6			

ENGINE MAKE Wisconsin MODEL # S14D PART # 55293

Wiring Diagram C57350
 Schematic N/A
 Generator Parts
 Unassembled D57348
 Complete Unit
 Part # C57287

 ** REPAIR **
 ** PARTS LIST **
 ** #472 **

Size 7000 Watts
 Drive Direct
 Type Two Pole
 Unit Model # FD7WH-FE/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54375-1	1	Control Box Assy.	57349	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57354	1
			Rear Panel (Bare)	51605	1
Fan Assy.	23404	1	Receptacle (115) (20A)	56279	1
Fan Washer	23558	1	Receptacle (115) (15A)	48323	1
Fan Lockwasher	40552	1	Receptacle (115) (15A)	51653	4
Fan Nut	23605	1	Receptacle (230) (20A)	56281	1
			Start Stop Switch	23772	1
Feidl Coil	54601	1	Start Solenoid	24061	1
Field Coil	54601-1	1	Quick Disconnect Half	43659	1
Shell & Brkt. Assy.	57308	1	Conserver Assy.		
Pole Shoe	43473	2	(Complete)	51773	1
Pole Shoe Retainer	43474	2	Module	49521	1
Engine Adaptor Brkt.	55493	1	Transformer	54196	2
Adaptor Brkt. Screw	24707	4	Electro Magnet	44889	1
End Cover Assy.	23634	1	Formed Bracket	51788	1
			Lever (Throttle)	51787	1
Brush Rack Assy.	57353	1	Resistor	48583	1
(Complete)	& -1	1	Switch	24238	1
A. C. Brush	24981	10	Cover	44891	1
A. C. Brush Holder	23500-2	10	Cover Nut	44948	1
D. C. Brush	47683	2	Collar	51801	1
D. C. Brush Holder					
& Plate Assy.	54836	2			
A. C. Condenser	41221	2			
D. C. Condenser	41180	2			
Module Bracket	50237	1			
Cradle	51817-1	1			
Sub Frame	51711	1			
Shock Mounts	20191	8			

ENGINE MAKE Wisconsin MODEL # S14D PART # 54745

Wiring Diagram C55011
 Schematic N/A
 Generator Parts
 Unassembled C55014
 Complete Unit
 Part # C55013

 REPAIR
 PARTS LIST
 #539

Size 7300 Watts
 Drive Direct
 Type Two Pole

Unit Model # P703WH-3E/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	54993-1	1	Control Box Assy.	55019	1
Armature Bearing	50215	1	Cover Assy.	21626	1
Armature Thru Bolt	24185	1	Front Panel (Bare)	54371	1
			Rear Panel (Bare)	54872	1
Fan Assy.	23404	1	Receptacle (115)	24749	1
Fan Washer	23558	1	Receptacle (230)	55278	1
Fan Lockwasher	40552	1	Receptacle	57325	1
Fan Nut	23605	1	Resistor (Charge)	54599	2
			Diode Assy.	54023-1	1
Field Coil	54994	1	Start Switch	2210	1
Field Coil	54994-1	1			
Shell & Bracket Assy.	55008	1			
Pole Shoe	42882	2			
Pole Shoe Retainer	51697	2			
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	23604	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	52374	1			
(Complete)	& -1	1			
A. C. Brush	55536	9			
A. C. Brush Holder	23500	9			
D. C. Brush	47683	2			
D. C. Brush Holder	47684	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Cradle	55045-1	1			
Shock Mounts	20191	6			

ENGINE MAKE Wisconsin MODEL # S14D PART # 54745

Wiring Diagram C57811
 Schematic N/A
 Generator Parts
 Unassembled C57816
 Complete Unit
 Part # C57815

 REPAIR
 PARTS LIST
 #515

Size 8000 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 8LDS-3E/B

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	57790-1	1	Control Box Assy.	57813	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	57283	1
			Rear Panel (Bare)	57265	1
Fan Assy.	23404	1	Receptacle (115)(30A)	56359	1
Fan Washer	23558	1	Receptacle (230)(20A)	56281	1
Fan Lockwasher	40552	1	Receptacle (230)(30A)	57324	1
Fan Nut	23605	1	Receptacle (115)(20A)	56279	1
			Receptacle (115)(20A)	50766	1
Field Coil	57791	1	Resistor (Charge)	41254	1
Field Coil	57791-1	1	Heat Sink &		
Field Coil	57791-2	1	Diode Assy.	47731	1
Field Coil	57791-3	1	Start Stop Switch	52029	1
			Fuse	43798	1
Shell & Bracket Assy.	57794	1	Fuse Holder	2489	1
Pole Shoe	57796	4			
Pole Shoe Retainer	57793	4	Transformer	43945	1
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	57797	1			
(Complete)	& -1	1			
A. C. Brush	24981	6			
A. C. Brush Holder	23500-2	6			
Brush Holder Plate	58395	3			
Q. Ring Brush	53949	2			
Q. Ring Brush Holder	23500	2			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Base	57378	1			

ENGINE MAKE Lister Diesel MODEL # ST2 PART # 57425

Wiring Diagram B51091
 Schematic N/A
 Generator Parts
 Unassembled B51091
 Complete Unit
 Part # B51141

 REPAIR
 PARTS LIST
 #545

Size 10,000 Watts
 Drive Two Bearing
 Type Four Pole

Unit Model # 10KS4G-3/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	51089-1	1	Control Box Assy.	24484	1
Armature Bearing			Cover Assy.	24718	1
Brush End	50215	1			
Armature Bearing					
Bracket End	46913	1			
Fan Assy.	23404	1			
Fan Washer	21867	1			
Fan Lockwasher	40552	1			
Fan Nut	9549	1			
Field Coil	51086	1			
Field Coil	51086-1	1			
Field Coil	51086-2	1			
Field Coil	51086-3	1			
Shell & Bracket Assy.	51087	1			
Pole Shoe	51007	4			
Pole Shoe Retainer	51009	4			
Engine Adaptor Brkt.	50517	1			
Adaptor Brkt. Screw	51101	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	49083	1			
(Complete)	& -1	1			
A. C. Brush	55536	12			
A. C. Brush Holder	23500	12			
D. C. Brush	47683	2			
D. C. Brush Holder					
& Plate Assy.	49075	2			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Base	51147	1			

Wiring Diagram N/A
 Schematic C51094
 Generator Parts
 Unassembled C51091
 Complete Unit
 Part # 51092

 REPAIR
 PARTS LIST
 #477

Size 10,000 Watts
 Drive Two Bearing
 Type Four Pole
 Unit Model # 10KS4GC-3/B

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	51089-1	1	Control Box Assy.	54125	1
Armature Bearing			Cover Assy.	21626	1
Brush End	50215	1	Front Panel (Bare)	54126	1
Armature Bearing			Rear Panel (Bare)	43161-1	1
Shaft End	46913	1	Receptacle (115)	24749	2
Bearing Retainer	50536	1	Receptacle (230)	22901	2
			Voltmeter	22300	1
Fan Assy.	23404	1			
Fan Washer	21867	1			
Fan Lockwasher	40552	1			
Fan Nut	9549	1			
Field Coil	51086	1			
Field Coil	51086-1	1			
Field Coil	51086-2	1			
Field Coil	51086-3	1			
Shell & Brkt. Assy.	51087	1			
Pole Shoe	51007	4			
Pole Shoe Retainer	51009	4			
Engine Adaptor Brkt.	50517	1			
Adaptor Brkt. Screw	51101	4			
End Cover Assy.	24478	1			
Brush Rack Assy.	49083	1			
(Complete)	& -1	1			
A. C. Brush	55536	12			
A. C. Brush Holder	23500	12			
D. C. Brush	47683	4			
D. C. Brush Holder					
& Plate Assy.	49075	2			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Base	51147	1			

Wiring Diagram C56393
 Schematic N/A
 Generator Parts
 Unassembled C55492
 Complete Unit
 Part # 56391

 REPAIR
 PARTS LIST
 #482

Size 10,000 Watts
 Drive Direct
 Type Two Pole
 Unit Model # 10WH-3E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55360-1	1	Control Box Assy.	56392	1
Armature Bearing	50215	1	Cover Assy.	49627	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	54371	1
			Rear Panel (Bare)	54872-1	1
Fan Assy.	23404	1	Receptacle (115)	24749	1
Fan Washer	23558	1	Receptacle (230)	55278	1
Fan Lockwasher	40552	1	Receptacle (230)	57325	1
Fan Nut	23605	1	Resistor (Charge)	54599	2
			Relay	56396	1
Field Coil	55359	1	Diode Assy.	54023-1	1
Field Coil	55359-1	1	Stop Switch	52029	1
			Start Switch	2210	1
Shell & Bracket Assy.	55340	1			
Pole Shoe	43473	2	Conserver Assy.		
Pole Shoe Retainer	43474	2	(Complete)	42269	1
Engine Adaptor Brkt.	55493	1	Solenoid	42255	1
Adaptor Brkt. Screw	24707	4	Transformer	40450	2
End Cover Assy.	55007	1	Mounting Base	42251	1
			Arm (Throttle)	42249	1
Brush Rack Assy.	40656	1	Throttle Rod	42250	1
(Complete)	& -1	1	Resistor	22184	1
A. C. Brush	55536	12	Switch	24238	1
A. C. Brush Holder	23500	12	Cover	42243	1
D. C. Brush	47683	2			
D. C. Brush Holder	47684	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Frame	49987	1			

ENGINE MAKE Wisconsin MODEL # THD PART # 47525

Wiring Diagram C55011
 Schematic N/A
 Generator Parts
 Unassembled C55492
 Complete Unit
 Part # C55491

 REPAIR
 PARTS LIST
 #538

Size 10,000 Watts
 Drive Direct
 Type Two Pole
 Unit Model # P10WH-3E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55360-1	1	Control Box Assy.	55019	1
Armature Bearing	50215	1	Cover Assy.	21626	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	54371	1
			Rear Panel (Bare)	54872	1
Fan Assy.	23404	1	Receptacle (115)	24749	1
Fan Washer	23558	1	Receptacle (230)	55278	1
Fan Lockwasher	40552	1	Resistor (Charge)	54599	2
Fan Nut	23605	1	Reverse Current Diode	54023-1	1
			Start Switch	2210	1
Field Coil	55359	1	Receptacle	57325	1
Field Coil	55359-1	1			
Shell & Bracket Assy.	55340	1			
Pole Shoe	43473	2			
Pole Shoe Retainer	43474	2			
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	50656	1			
(Complete)	& -1	1			
A. C. Brush	55536	12			
A. C. Brush Holder	23500	12			
D. C. Brush	47683	2			
D. C. Brush Holder	47684	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Frame	49987				

ENGINE MAKE Wisconsin MODEL # THD PART # 47525

Wiring Diagram C55665
 Schematic N/A
 Generator Parts
 Unassembled C55492
 Complete Unit
 Part # C55698-5

 REPAIR
 PARTS LIST
 #543

Size 10,000 Watts
 Drive Direct
 Type Two Pole

Unit Model # P10WH-3R/ANG

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55360-1	1	Control Box Assy.	55668-2	1
Armature Bearing	50215	1	Cover Assy.	21626	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	55670-1	1
			Rear Panel (Bare)	55695	1
Fan Assy.	23404	1	Resistor	80258-5	1
Fan Washer	23558	1	Heat Sink Diode	54023-1	1
Fan Lockwasher	40552	1	Start Switch	23772	1
Fan Nut	23605	1	Start Solenoid	24061	1
			Terminal Block	22148	1
Field Coil	55359	1	Relay	55427	1
Field Coil	55359-1	1	Resistor (Charge)	54599	2
Shell & Bracket Assy.	55340	1	Gas Kit (Complete)	50773	1
Pole Shoe	43473	2	Regulator	50248	1
Pole Shoe Retainer	43474	2	Carburetor	50852	1
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	50656	1			
(Complete)	& -1	1			
A. C. Brush	55536	12			
A. C. Brush Holder	23500	12			
D. C. Brush	47683	2			
D. C. Brush Holder	47684	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Frame	49987	1			

ENGINE MAKE Wisconsin MODEL # THD PART # 56302

Wiring Diagram C55665
 Schematic N/A
 Generator Parts
 Unassembled C55699
 Complete Unit
 Part # C55698-7

 REPAIR
 PARTS LIST
 #544

Size 10,000 Watts
 Drive Direct
 Type Two Pole
 Unit Model # P10WH-5R/ANG

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55642-1	1	Control Box Assy.	55668-2	1
Armature Bearing	50215	1	Cover Assy.	21626	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	55670-1	1
			Rear Panel (Bare)	55695	1
Fan Assy.	23404	1	Resistor	80258-5	1
Fan Washer	23558	1	Heat Sink Diode	54023-1	1
Fan Lockwasher	40552	1	Start Switch	23772	1
Fan Nut	23605	1	Start Solenoid	24061	1
			Terminal Block	22148	1
Field Coil	55359	1	Relay	55427	1
Field Coil	55359-1	1	Resistor (Charge)	54599	2
Shell & Bracket Assy.	55340	1	Gas Kit (Complete)	50773	1
Pole Shoe	43473	2	Regulator	50248	1
Pole Shoe Retainer	43474	2	Carburetor	50852	1
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	55007	1			
Brush Rack Assy.	55709	1			
(Complete)	& -1	1			
A. C. Brush	55536	9			
A. C. Brush Holder	23500	9			
D. C. Brush	47683	2			
D. C. Brush Holder	47684	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	3			
D. C. Condenser	41180	1			
Frame	49987	1			

ENGINE MAKE Wisconsin MODEL # THD PART # 56302

Wiring Diagram C54229

Schematic N/A

Generator Parts

Unassembled C54283

Complete Unit

Part # C54236

REPAIR
PARTS LIST
#534

Size 10,000 Watts

Drive Direct

Type Four Pole

Unit Model # 10WS-3R/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	54227-1	1	Control Box Assy.	54228	1
Armature Bearing	50215	1	Cover Assy.	49627	1
Armature Thru Bolt	24195	1	Front Panel (Bare)	53561-2	1
			Rear Panel (Bare)	52592	1
Fan Assy.	23404	1	Resistor (Charge)	24870	1
Fan Washer	23558	1	Reverse Current Diode	45930-2	1
Fan Lockwasher	40552	1	Start Stop Switch	23772	1
Fan Nut	23605	1	Start Solenoid	24061	2
			Terminal Block	22148	1
Field Coil	54282	1			
Field Coil	54282-1	1			
Field Coil	54282-2	1			
Field Coil	54282-3	1			
Shell & Bracket Assy.	50229	1			
Pole Shoe	51007	4			
Pole Shoe Retainer	51009	4			
Engine Adaptor Brkt.	49017	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54235	1			
(Complete)	& -1	1			
A. C. Brush	55536	12			
A. C. Brush Holder	23500	12			
D. C. Brush	47683	4			
D. C. Brush Holder &					
Plate Assy.	53918	2			
A. C. Condenser	41221	1			
D. C. Condenser	41180	1			
Frame	49000	1			

ENGINE MAKE Wisconsin MODEL # VF4D PART # 51275

Wiring Diagram C57323

Schematic N/A
 Generator Parts
 Unassembled D54238-1
 Complete Unit
 Part # C57247

 REPAIR
 PARTS LIST
 #509

Size 10,500 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 1005LDS-3E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54244	1	Control Box Assy.	57290	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57288	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (115)(20A)	56279	1
Fan Washer	23558	1	Receptacle (230)(20A)	56281	1
Fan Lockwasher	40552	1	Receptacle (230)(30A)	57324	1
Fan Nut	23605	1	Receptacle (115)(30A)	56359	1
			Receptacle (115)(20A)	50766	1
Field Coil	54241	1	Receptacle (230)(50A)	57325	1
Field Coil	54241-1	1	Resistor (Charge)	41254	1
Field Coil	54241-2	1	Heat Sink &		
Field Coil	54241-3	1	Diode Assy.	47731	1
			Start Stop Switch	52029	1
Shell & Bracket Assy.	53180	1	Fuse	43798	1
Pole Shoe	49279	4	Fuse Holder	2489	1
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	55493	1	Transformer	43945	1
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54242	1			
(Complete)	& -1	1			
A. C. Brush	24981	12			
A. C. Brush Holder	23500-2	12			
Brush Holder Plate	53975	6			
Q. Ring Brush	53949	2			
Q. Ring Brush Holder	23500	2			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Frame	57378	1			

ENGINE MAKE Lister Diesel MODEL # SR3 PART # 57422

Wiring Diagram C57400
 Schematic N/A
 Generator Parts
 Unassembled A57670
 Complete Unit
 Part # C57249

 REPAIR
 PARTS LIST
 #503

Size 10,500 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 1005LDS-4E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54244-1	1	Control Box Assy.	57395	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57399	1
Fan Assy.	23404	1	Rear Panel (Bare)	57291	1
Fan Washer	23558	1	Receptacle (125)(20A)	56279	1
Fan Lockwasher	40552	1	Receptacle (208)(20A)	57471	1
Fan Nut	23605	1	Resistor (Charge)	41254	1
			Heat Sink &		
Field Coil	54241	1	Diode Assy.	47731	1
Field Coil	54241-1	1	Start Stop Switch	52029	1
Field Coil	54241-2	1	Fuse	43798	1
Field Coil	54241-3	1	Fuse Holder	2489	1
			Receptacle (250)(20A)	56281	1
Shell & Bracket Assy.	53180	1	Receptacle (208)(30A)	57470	1
Pole Shoe	49279	4	Receptacle (125)(20A)	50766	1
Pole Shoe Retainer	49278	4	Receptacle (125)(30A)	56359	1
Engine Adaptor Brkt.	55493	1	Transformer	43945	1
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
Brush Holder Plate	53975	1			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Frame	57397	1			

ENGINE MAKE Lister Diesel MODEL # SR3 PART # 57422

Wiring Diagram C57401
 Schematic N/A
 Generator Parts
 Unassembled A58165
 Complete Unit
 Part # C57251

 REPAIR
 PARTS LIST
 #524

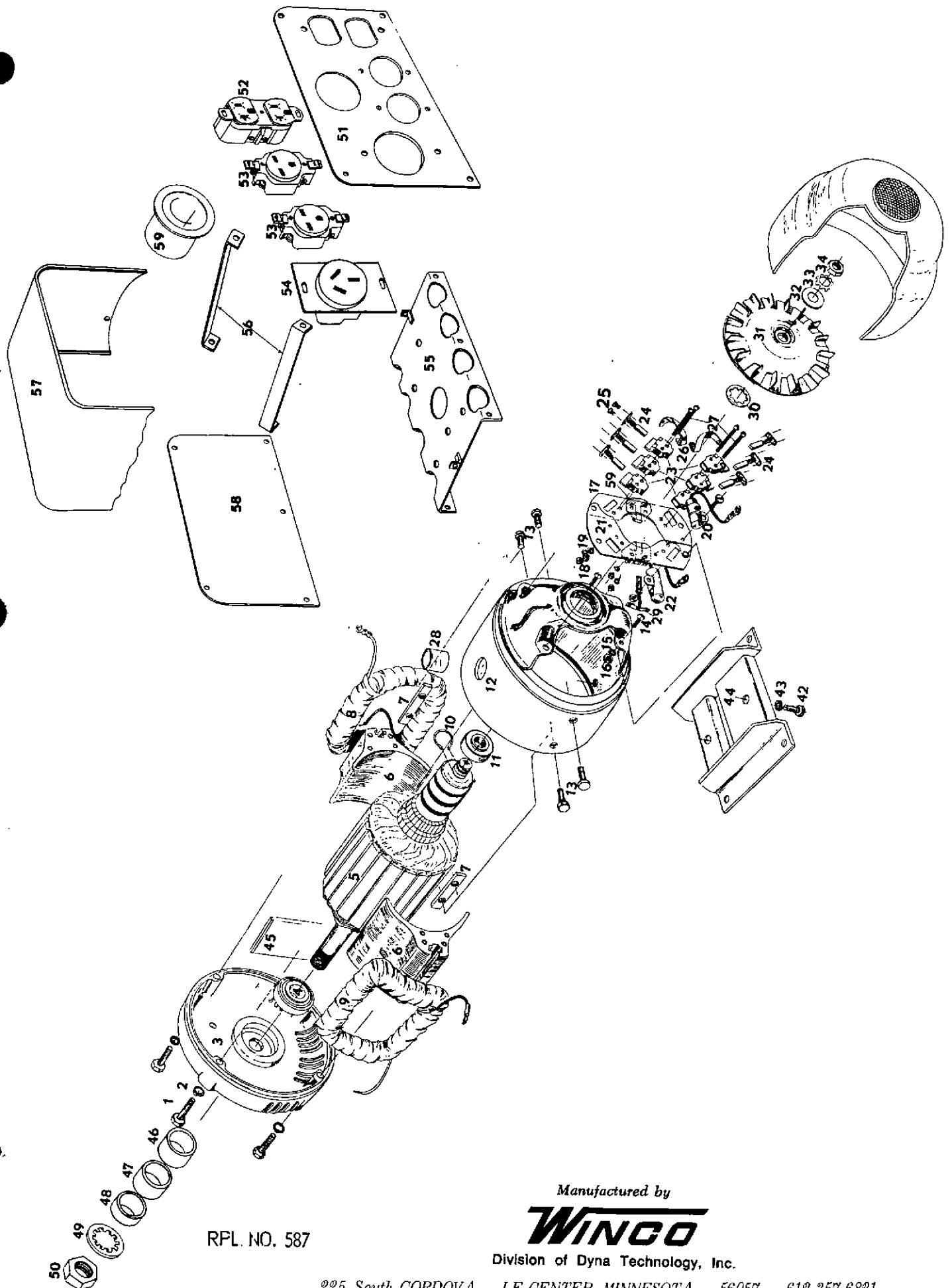
Size 10,500 Watts
 Drive Direct
 Type Four Pole

Unit Model # 1005LDS-17E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55832-1	1	Control Box Assy.	57396	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57399	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (125) (20A)	56279	1
Fan Washer	23558	1	Receptacle (250) (30A)	57473	1
Fan Lockwasher	40552	1	Receptacle (250) (20A)	56281	1
Fan Nut	23605	1	Receptacle (250) (20A)	57472	1
			Receptacle (125) (15A)	50766	1
Field Coil	54241	1	Receptacle (125) (30A)	56359	1
Field Coil	54241-1	1	Resistor (Charge)	41254	1
Field Coil	54241-2	1	Heat Sink &		
Field Coil	54241-3	1	Diode Assy.	47731	1
			Start Stop Switch	52029	1
Shell & Bracket Assy.	53180	1	Fuse	43798	1
Pole Shoe	49279	4	Fuse Holder	2489	1
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	55493	1	Transformer	43945	1
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
Brush Holder Plate	53975	6			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Frame	57378	1			

ENGINE MAKE Lister MODEL # SR3 PART # 57422

WINCO GENERATOR PLANT MODEL 12KS2GC-3/C



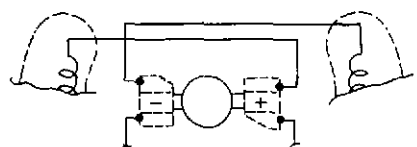
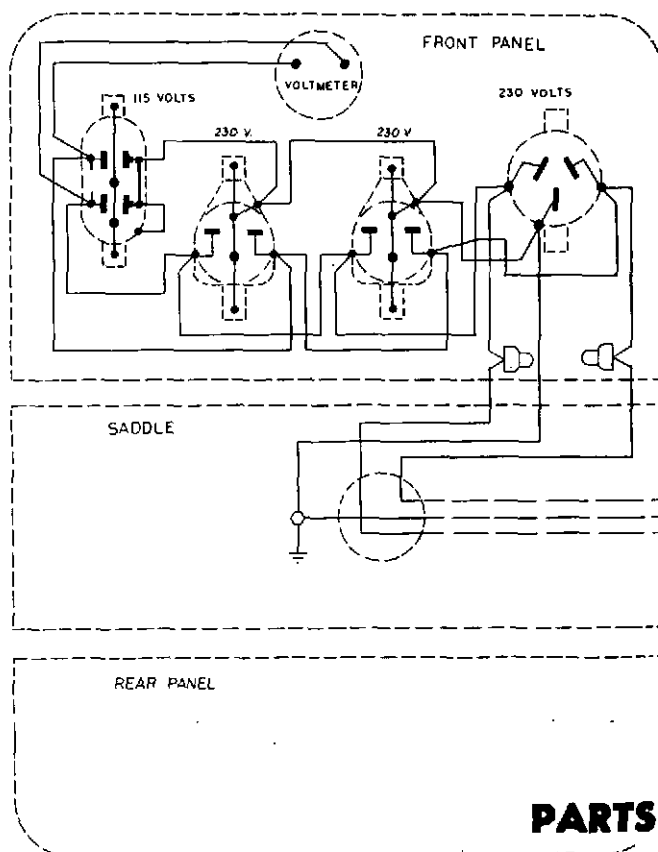
RPL. NO. 587

Manufactured by

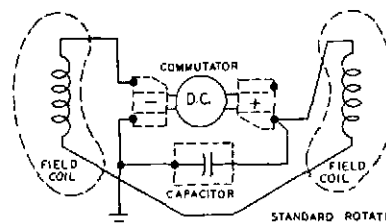
WINCO

Division of Dyna Technology, Inc.

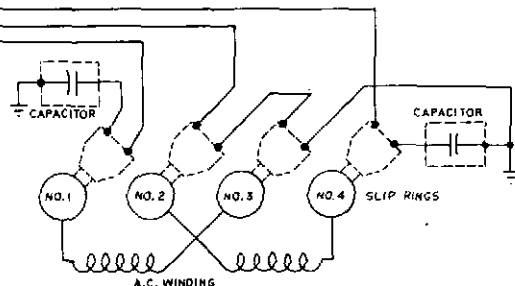
225 South CORDOVA LE CENTER, MINNESOTA 56057 612 357 6821



REVERSE ROTATION
C.W. FACING INPUT SHAFT



STANDARD ROTATION
C.C.W. FACING INPUT SHAFT



PARTS LIST

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	441	Cap Screw	4	25	40746	Machine Screw	32
2	480	Lockwasher	4	26	41387-1	Ground Strap	4
3	43850	End Bracket	1	27	44342	Machine Screw	8
4	46913	Bearing	1	28	21848	Insulation Tube	1
5	44526-1	Armature	1	29	41393	DC Brush	2
6	43473	Pole Shoe Assembly	2	30	40552	Lockwasher	1
7	43474	Pole Shoe Retainer	2	31	23404	Fan	1
8	44339-1	Field Coil	1	32	21867	Flat Washer	1
9	44339	Field Coil	1	33	20039	Lockwasher	1
10	21549	Retaining Ring	1	34	9549	Hex Nut	1
11	4783	Bearing	1	42	2706	Cap Screw	2
12	44624	Field Shell & Bracket Assembly	1	43	636	Lockwasher	2
13	43781	Cap Screw	8	44	24723	Base Assembly	1
14	4637	Machine Screw	4	45	44208	Key	1
15	484	Lockwasher	4	46	44634	Spacer	1
16	456	Hex Nut	4	47	44634-1	Spacer	1
17	44347-1	Riveted DC Brush Holder Assembly	1	48	44634-2	Spacer	1
18	5113	Hex Nut	10	49	20139	Lockwasher	1
19	21976	Lockwasher	10	50	20160	Hex Nut	1
20	41221	AC Condenser	2	51	56639	Front Panel	1
21	44347-1	Riveted DC Brush Holder Assembly	1	52	50766	Receptacle	1
22	41180	DC Condenser	1	53	55278	Receptacle	2
23	23500-2	AC Brush Holders	16	54	48343	Receptacle	1
24	24981	AC Brush	16	55	24733	Base Assembly	1
				56	49974	Brace	2
				57	21626	Box Cover	1
				58	43161	Rear Panel	1
				59	52490	Voltmeter	1

Wiring Diagram C51026
 Schematic N/A
 Generator Parts
 Unassembled C51026
 Complete Unit
 Part # C51027

 REPAIR
 PARTS LIST
 #480

Size 12,500 Watts
 Drive Two Bearing
 Type Four Pole
 Unit Model # 1205KS4G-3/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	51021-1	1
Armature Bearing		
Brush End	50215	1
Armature Bearing		
Bracket End	46913	1
Bearing Retainer	50536	1
Fan Assy.	23404	1
Fan Washer	21867	1
Fan Lockwasher	40552	1
Fan Nut	9549	1
Field Coil	50460	1
Field Coil	50460-1	1
Field Coil	50460-2	1
Field Coil	50460-3	1
Shell & Bracket Assy.	51024	1
Pole Shoe	49279	4
Pole Shoe Retainer	49278	4
Engine Adaptor Bracket	50517	1
Adaptor Bracket Screw	51101	4
End Cover Assy.	24478	1
Brush Rack Assy. (Complete)	50469 & -1	1
A. C. Brush	24981	16
A. C. Brush Holder	23500-2	16
Brush Holder Plates	40994	1
	& 50471	1
A. C. Condenser	41221	1
Rectifier (Excitation)	49484	1
Base	51147	1
Control Box Assy.	45990	1
Cover Assy.	22375-1	1

Wiring Diagram N/A
 Schematic A49930
 Generator Parts
 Unassembled C51026
 Complete Unit
 Part # 51036

 REPAIR
 PARTS LIST
 #489

Size 12,500 Watts
 Drive Two Bearing
 Type Four Pole

Unit Model # 1205KS4GC-3/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	51021-1	1	Control Box Assy.	45392	1
Armature Bearing			Cover Assy.	21626	1
Brush End	50215	1	Front Panel (Bare)	56387	1
Armature Bearing			Rear Panel (Bare)	43161-1	1
Bracket End	46913	1	Receptacle (115)	24749	1
			Receptacle (230)	22901	2
Fan Assy.	23404	1	Receptacle (230) (50A)	22636	1
Fan Washer	21867	1	Voltmeter	22300	1
Fan Lockwasher	40552	1			
Fan Nut	9549	1			
Field Coil	50460	1			
Field Coil	50460-1	1			
Field Coil	50460-2	1			
Field Coil	50460-3	1			
Shell & Bracket Assy.	51024	1			
Pole Shoe	49279	4			
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	50517	1			
Adaptor Brkt. Screw	51101	4			
End Cover Assy.	24478	1			
Brush Rack Assy.	50469	1			
(Complete)	& -1	1			
A. C. Brush	24891	16			
A. C. Brush Holder	23500-2	16			
Brush Holder	40994	1			
Plate Assy.	& 50471	1			
A. C. Condenser	41221	2			
Rectifier					
(Excitation)	49484	1			
Base	51147	1			

Wiring Diagram C57323
 Schematic N/A
 Generator Parts
 Unassembled D54238-1
 Complete Unit
 Part # C57247

 REPAIR
 PARTS LIST
 #510

Size 12,500 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 1205LDS-3E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54244	1	Control Box Assy.	57290	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57288	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (115) (20A)	56279	1
Fan Washer	23558	1	Receptacle (230) (20A)	56281	1
Fan Lockwasher	40552	1	Receptacle (230) (30A)	57324	1
Fan Nut	23605	1	Receptacle (115) (30A)	56359	1
			Receptacle (115) (20A)	50766	1
Field Coil	54241	1	Receptacle (230) (50A)	57325	1
Field Coil	54241-1	1	Resistor (Charge)	41254	1
Field Coil	54241-2	1	Heat Sink &		
Field Coil	54241-3	1	Diode Assy.	47731	1
			Start Stop Switch	52029	1
Shell & Bracket Assy.	53180	1	Fuse	43798	1
Pole Shoe	49279	4	Fuse Holder	2489	1
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	55493	1	Transformer	43945	1
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54242	1			
(Complete)	& -1	1			
A. C. Brush	24981	12			
A. C. Brush Holder	23500-2	12			
Brush Holder Plate	53975	6			
Q. Ring Brush	53949	2			
Q. Ring Brush Holder	23500	2			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Frame	57378	1			

ENGINE MAKE Lister Diesel MODEL # ST3 PART # 57422

Wiring Diagram C57400
 Schematic N/A
 Generator Parts
 Unassembled A57670
 Complete Unit
 Part # C57249

 REPAIR
 PARTS LIST
 #504

Size 12,500 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 1205LDS-4E/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54244-1	1	Control Box Assy.	57395	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57399	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (125)(20A)	56279	1
Fan Washer	23558	1	Receptacle (208)(20A)	57471	1
Fan Lockwasher	40552	1	Resistor (Charge)	41254	1
Fan Nut	23605	1	Heat Sink &		
			Diode Assy.	47731	1
Field Coil	54241	1	Start Stop Switch	52029	1
Field Coil	54241-1	1	Fuse	43798	1
Field Coil	54241-2	1	Fuse Holder	2489	1
Field Coil	54241-3	1	Receptacle (250)(20A)	56281	1
			Receptacle (208)(30A)	57470	1
Shell & Bracket Assy.	53180	1	Receptacle (125)(20A)	50766	1
Pole Shoe	49279	4	Receptacle (125)(30A)	56359	1
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	55493	1	Transformer	43945	1
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
Brush Holder Plate	53975	1			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Frame	57397	1			

ENGINE MAKE Lister Diesel MODEL # ST3 PART # 57422

Wiring Diagram C57401

Schematic N/A

Generator Parts

Unassembled A58165

Complete Unit

Part # C57251

REPAIR
PARTS LIST
#525

Size 12,500 Watts

Drive Direct

Type Four Pole

Unit Model # 1205LDS-17E/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55832-1	1	Control Box Assy.	57396	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57399	1
Fan			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (125)(20A)	56279	1
Fan Washer	23558	1	Receptacle (250)(30A)	57473	1
Fan Lockwasher	40552	1	Receptacle (250)(20A)	56281	1
Fan Nut	23605	1	Receptacle (250)(20A)	57472	1
			Receptacle (125)(15A)	50766	1
Field Coil	54241	1	Receptacle (125)(30A)	56359	1
Field Coil	54241-1	1	Resistor (Charge)	41254	1
Field Coil	54241-2	1	Heat Sink &		
Field Coil	54241-3	1	Diode Assy.	47731	1
			Start Stop Switch	52029	1
Shell & Bracket Assy.	53180	1	Fuse	43798	1
Pole Shoe	49279	4	Fuse Holder	2489	1
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	55493	1	Transformer	43945	1
Adaptor Brkt. Screw	57581	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
Brush Holder Plate	53975	6			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Frame	57378	1			

ENGINE MAKE Lister MODEL # ST3 PART # 57422

Wiring Diagram C57323
 Schematic N/A
 Generator Parts
 Unassembled A56330
 Complete Unit
 Part # C57248

 REPAIR
 PARTS LIST
 #554

Size 12,500 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 1205PDS-3E/B

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54244-1	1	Control Box Assy.	57290	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57288	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (125) (20A)	56279	1
Fan Washer	23558	1	Receptacle (250) (30A)	57324	1
Fan Lockwasher	40552	1	Receptacle (250) (20A)	56281	1
Fan Nut	23605	1	Receptacle (125) (30A)	56359	1
			Receptacle (125) (20A)	50766	1
Field Coil	54241	1	Receptacle (250) (50A)	57325	1
Field Coil	54241-1	1	Resistor (Charge)	41254	1
Field Coil	54241-2	1	Heat Sink & Diode Assy.	47731	1
Field Coil	54241-3	1	Start Stop Switch	52029	1
			Fuse	43798	1
Shell & Bracket Assy.	53180	1	Fuse Holder	2489	1
Pole Shoe	49279	4			
Pole Shoe Retainer	49278	4	Transformer	43945	1
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54242	1			
(Complete)	& -1	1			
A. C. Brush	24981	12			
A. C. Brush Holder	23500-2	12			
Brush Holder Plate	53975	6			
Q. Ring Brush	53949	2			
Q. Ring Brush Holder	23500	2			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Frame	57391	1			

ENGINE MAKE Petter Diesel MODEL # PJ-2 PART # 56178

Wiring Diagram C57400
 Schematic N/A
 Generator Parts
 Unassembled A57633
 Complete Unit
 Part # C57250

 REPAIR
 PARTS LIST
 #553

Size 12,500 Watts
 Drive Direct
 Type Four Pole

Unit Model # 1205PDS-4E/B

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54245-1	1	Control Box Assy.	57395	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57399	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (125) (20A)	56279	1
Fan Washer	23558	1	Receptacle (125) (20A)	50766	1
Fan Lockwasher	40552	1	Receptacle (208) (20A)	57471	1
Fan Nut	23605	1	Receptacle (250) (20A)	56281	1
			Receptacle (208) (30A)	57470	1
Field Coil	54241	1	Receptacle (125) (30A)	56359	1
Field Coil	54241-1	1	Resistor (Charge)	41254	1
Field Coil	54241-2	1	Heat Sink & Diode Assy.	47731	1
Field Coil	54241-3	1	Start Stop Switch	52029	1
			Fuse	43798	1
Shell & Bracket Assy.	53180	1	Fuse Holder	2489	1
Pole Shoe	49279	4			
Pole Shoe Retainer	49278	4	Transformer	43945	1
Engine Adaptor Brkt.	55493	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
Brush Holder Plate	53975	6			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Frame	57391	1			

ENGINE MAKE Petter Diesel MODEL # PJ-2 PART # 56178

Wiring Diagram C57401
 Schematic N/A
 Generator Parts
 Unassembled A57395
 Complete Unit
 Part # C57252

 REPAIR
 PARTS LIST
 #513

Size 12,500 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 1205FDS-17E/B

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55832-1	1	Control Box Assy.	57396	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57399	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (115)(20A)	56279	1
Fan Washer	23558	1	Receptacle (230)(20A)		
Fan Lockwasher	40552	1	(Three Phase)	57472	1
Fan Nut	23605	1	Receptacle (230)(20A)	56281	1
			Receptacle (230)(30A)		
Field Coil	54241	1	(Three Phase)	57473	1
Field Coil	54241-1	1	Receptacle (115)(20A)	50766	1
Field Coil	54241-2	1	Receptacle (115)(30A)	56359	1
Field Coil	54241-3	1	Resistor (Charge)	41254	1
			Heat Sink &		
Shell & Bracket Assy.	53180	1	Diode Assy.	47731	1
Pole Shoe	49279	4	Start Stop Switch	52029	1
Pole Shoe Retainer	49278	4	Fuse	43798	1
Engine Adaptor Brkt.	55493	1	Fuse Holder	2489	1
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1	Transformer	43945	1
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24891	16			
A. C. Brush Holder	23500-2	16			
Brush Holder Plate	53975	6			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Base	57391	1			

ENGINE MAKE Petter Diesel MODEL # PJ2 PART # 56178

Wiring Diagram C58313

Schematic N/A

Generator Parts

Unassembled A57549

Complete Unit

Part # D58318

REPAIR
PARTS LIST
#572

Size 12,500 Watts

Drive Direct

Type Four Pole

Unit Model # 1205WS-3EP/D

DESCRIPTION

PART # QTY. DESCRIPTION

PART # QTY.

Armature	54244-1	1	Control Box Assy.	57544-1	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57288	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (115) (20A)	56279	1
Fan Washer	23558	1	Receptacle (250) (20A)	56281	1
Fan Lockwasher	40552	1	Receptacle (250) (30A)	57324	1
Fan Nut	23605	1	Receptacle (115) (30A)	56359	1
			Receptacle (115) (20A)	50766	1
Field Coil	54241	1	Receptacle (250) (50A)	57325	1
Field Coil	54241-1	1	Resistor (Charge)	41254	1
Field Coil	54241-2	1	Heat Sink & Diode Assy.	47731	1
Field Coil	54241-3	1	Switch	23772	1
			Fuse	43798	1
Shell & Bracket Assy.	53180	1	Fuse Holder	2489	1
Pole Shoe	49279	4	Start Solenoid	58314	1
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	49017	1	Transformer	43945	1
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54242	1			
(Complete)	& -1	1			
A. C. Brush	24981	12			
A. C. Brush Holder	23500-2	12			
Brush Holder Plate	53975	6			
Q. Ring Brush	53949	2			
Q. Ring Brush Holder	23500	2			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Base	49000	1			
Shock Mounts	24725	4			

ENGINE MAKE Wisconsin MODEL # VH4D PART # 51274

Wiring Diagram C58316
 Schematic N/A
 Generator Parts
 Unassembled A58319
 Complete Unit
 Part # D58318-1

 REPAIR
 PARTS LIST
 #570

Size 12,500 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 1205WS-4EP/D

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54245-1	1	Control Box Assy.	57544-2	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57399	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (115) (20A)	56279	1
Fan Washer	23558	1	Receptacle (250) (20A)	56281	1
Fan Lockwasher	40552	1	Receptacle (115) (20A)	50766	1
Fan Nut	23605	1	Receptacle (115) (30A)	56359	1
			Receptacle (208) (30A)	57470	1
Field Coil	54241	1	Receptacle (208) (20A)	57471	1
Field Coil	54241-1	1	Resistor (Charge)	41254	1
Field Coil	54241-2	1	Heat Sink & Diode Assy.	47731	1
Field Coil	54241-3	1	Fuse	43798	1
			Fuse Holder	2489	1
Shell & Bracket Assy.	53180	1	Start Solenoid	58314	1
Pole Shoe	49279	4			
Pole Shoe Retainer	49278	4	Transformer	43945	1
Engine Adaptor Brkt.	49017	1	Switch	23772	1
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
Brush Holder Plate	53975	6			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Base	49000	1			
Shock Mounts	24725	4			

ENGINE MAKE Wisconsin MODEL # VH4D PART # 51274

Wiring Diagram C58316Schematic N/A

Generator Parts

Unassembled A58320

Complete Unit

Part # D58318-2

 REPAIR
 PARTS LIST
 #571

Size 12,500 WattsDrive DirectType Four PoleUnit Model # 1205WS-17EP/D

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	55832-1	1	Control Box Assy.	57544-3	1
Armature Bearing	50215	1	Cover Assy.	51580	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	57399	1
			Rear Panel (Bare)	57291	1
Fan Assy.	23404	1	Receptacle (115)(20A)	56279	1
Fan Washer	23558	1	Receptacle (250)(20A)	56281	1
Fan Lockwasher	40552	1	Receptacle (115)(20A)	50766	1
Fan Nut	23605	1	Receptacle (115)(30A)	56359	1
			Receptacle (250)(20A)	57472	1
Field Coil	54241	1	Receptacle (250)(30A)	57473	1
Field Coil	54241-1	1	Resistor (Charge)	41254	1
Field Coil	54241-2	1	Heat Sink & Diode Assy.	47731	1
Field Coil	54241-3	1	Switch	23772	1
			Fuse	43798	1
Shell & Bracket Assy.	53180	1	Fuse Holder	2489	1
Pole Shoe	49279	4	Start Solenoid	58314	1
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	49017	1	Transformer	43945	1
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23623	1			
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
Brush Holder Plate	53975	6			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Base	49000	1			
Shock Mounts	24745	4			

ENGINE MAKE Wisconsin MODEL # VH4D PART # 51274

Wiring Diagram C54232
 Schematic N/A
 Generator Parts
 Unassembled D54238-1
 Complete Unit
 Part # D54237-1

 REPAIR
 PARTS LIST
 #550

Size 12,500 Watts
 Drive Direct
 Type Four Pole
 Unit Model # 1205WS-3R/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	54244-1	1	Control Box Assy.	54239	1
Armature Bearing	50215	1	Cover Assy.	49627	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	54246	1
			Rear Panel (Bare)	54225	1
Fan Assy.	23404	1	Resistor	53953-2	1
Fan Washer	23558	1	Start Stop Switch	23772	1
Fan Lockwasher	40552	1	Fuse	51872	1
Fan Nut	23605	1	Fuse Holder	2489	1
			Start Solenoid	24061	1
Field Coil	54241	1	Terminal Block	22148	1
Field Coil	54241-1	1			
Field Coil	54241-2	1	Transformer	43945	1
Field Coil	54241-3	1			
Shell & Bracket Assy.	53180	1			
Pole Shoe	49279	4			
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	49017	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54242	1			
(Complete)	& -1	1			
A. C. Brush	24981	12			
A. C. Brush Holder	23500-2	12			
Brush Holder Plate	53975	6			
Q. Ring Brush	53949	2			
Q. Ring Brush Holder	23500	2			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Skid Base	49000	1			
Shock Mounts	24725	4			

ENGINE MAKE Wisconsin MODEL # VH4D PART # 51274

Wiring Diagram C54233
Schematic N/A
Generator Parts
Unassembled D54238-2
Complete Unit
Part # D54237-2

REPAIR
PARTS LIST
#549

Size 12,500 Watts
Drive Direct
Type Four Pole
Unit Model # 1205WS-4R/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	54245-1	1	Control Box Assy.	54239	1
Armature Bearing	50215	1	Cover Assy.	49627	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	54246	1
			Rear Panel (Bare)	54225	1
Fan Assy.	23404	1	Resistor (Charge)	53953-2	1
Fan Washer	23558	1	Heat Sink & Diode Assy.	47731	1
Fan Lockwasher	40552	1	Start Stop Switch	23772	1
Fan Nut	23605	1	Fuse	51872	1
			Fuse Holder	2489	1
Field Coil	54241	1	Start Solenoid	24061	1
Field Coil	54241-1	1	Terminal Block	22148	1
Field Coil	54241-2	1	Transformer	43945	1
Field Coil	54241-3	1			
Shell & Bracket Assy.	53180	1			
Pole Shoe	49279	4			
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	49017	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
Brush Holder & Plate	53975	3			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976				
Skid Base	49000	1			
Shock Mounts	24725	4			

ENGINE MAKE Wisconsin MODEL # VH4D PART # 51274

Wiring Diagram C55833

Schematic N/A

Generator Parts

Unassembled C54238-2

Complete Unit
Part # A55830

REPAIR
PARTS LIST
#512

Size 12,500 Watts

Drive Direct

Type Four Pole

Unit Model # 1205WS-17R/B

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55832-1	1	Control Box Assy.	54239	1
Armature Bearing	50215	1	Cover Assy.	49627	1
Armature Thru Bolt	44702	1	Front Panel (Bare)	54246	1
			Rear Panel (Bare)	54225	1
Fan Assy.	23404	1	Resistor (Charge)	53953-2	1
Fan Washer	23558	1	Heat Sink &		
Fan Lockwasher	40552	1	Diode Assy.	47331	1
Fan Nut	23605	1	Start Stop Switch	23772	1
			Fuse	51872	1
Field Coil	54241	1	Fuse Holder	2489	1
Field Coil	54241-1	1	Start Solenoid	24061	1
Field Coil	54241-2	1	Terminal Block	22148	1
Field Coil	54241-3	1			
			Transformer	43945	1
Shell & Bracket Assy.	53180	1			
Pole Shoe	49279	4			
Pole Shoe Retainer	49278	4			
Engine Adaptor Brkt.	49017	1			
Adaptor Brkt. Screw	24707	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	54243	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
Brush Holder Plate	53975	6			
A. C. Condenser	41221	3			
Rectifier (Excitation)	53976	1			
Base	49000	1			

ENGINE MAKE Wisconsin MODEL # VH4D PART # 51274

Wiring Diagram C46476
 Schematic C46476
 Generator Parts
 Unassembled C47720
 Complete Unit
 Part # C47721

 REPAIR
 PARTS LIST
 #481

Size 15,000 Watts
 Drive Two Bearing
 Type Two Pole
 Unit Model # 15KS2GC-3/A

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	47243-1	1	Control Box Assy.	46478	1
Armature Bearing			Cover Assy.	21626-1	1
Brush End	46911	1	Front Panel (Bare)	56387	1
Armature Bearing			Rear Panel (Bare)	43161	1
Bracket End	46913	1	Receptacle (115)	24749	1
			Receptacle (230)	22091	2
Fan Assy.	23404	1	Receptacle (50A)	22636	1
Fan Washer	21867	1	Maxi Watt Switch	44650	1
Fan Lockwasher	40552	1	Voltmeter	22300	1
Fan Nut	9549	1			
Field Coil	46923	1			
Field Coil	46923-1	1			
Shell & Bracket Assy.	44624	1			
Pole Shoe	43473	2			
Pole Shoe Retainer	43474	2			
Engine Adaptor Brkt.	51046-1	1			
Adaptor Brkt. Screw	441	4			
End Cover Assy.	24478	1			
Brush Rack Assy.	44346	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
D. C. Brush	41393	2			
D. C. Brush Holder					
& Plate Assy.	44347-1	2			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Base	24723	1			

Wiring Diagram C54695
 Schematic N/A
 Generator Parts
 Unassembled C54695
 Complete Unit
 Part # 55565

 REPAIR
 PARTS LIST
 #499

Size 15,000 Watts
 Drive Two Bearing
 Type Two Pole

Unit Model # 15KS2GS-517/A

<u>DESCRIPTION</u>	<u>PART #</u>	<u>QTY.</u>
Armature	55566-1	1
Armature Bearing (Brush End)	50215	1
Armature Bearing (Bracket End)	46913	1
Fan Assy.	23404	1
Fan Washer	21867	1
Fan Lockwasher	40552	1
Fan Nut	9549	1
Field Coil	53942	1
Field Coil	53942-1	1
Shell & Bracket Assy.	54784	1
Pole Shoe	43473	2
Pole Shoe Retainer	43474	2
Engine Adaptor Bracket	54804	1
Adaptor Bracket Screw	51101	4
End Cover Assy.	23634	1
Brush Rack Assy.	52582	1
(Complete)	& -1	1
A. C. Brush	24981	16
A. C. Brush Holder	23500-2	16
D. C. Brush	41393	2
D. C. Brush Holder	44347	1
& Plate Assy.	& -1	1
D. C. Condenser	41180	1
Base	54754	1

Wiring Diagram C44623
 Schematic N/A
 Generator Parts
 Unassembled C47246
 Complete Unit
 Part # D47248

 REPAIR
 PARTS LIST
 #547

Size 15,000 Watts
 Drive Belt
 Type Two Pole
 Unit Model # 15WH-3R/C

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	47243-1	1	Control Box Assy.	44527	1
Armature Bearing			Cover Assy.	53766	1
Brush End	46911	1	Front Panel (Bare)	44636	1
Armature Bearing			Rear Panel (Bare)	44367	1
Bracket End	46913	1	Diode	43946	1
			Start Switch	23772	1
Fan Assy.	23404	1	Maxi Watt Switch	44022	1
Fan Washer	21867	1	Fuse	43798	1
Fan Lockwasher	40552	1	Fuse Holder	2489	1
Fan Nut	9549	1	Start Solenoid	24061	1
			Resistor	24870	1
Field Coil	46923	1	Terminal Block	21973	1
Field Coil	46923-1	1	Ammeter	21699	1
			Transformer	43945	1
Shell & Bracket Assy.	44624	1	Switch	24238	1
Pole Shoe	43473	2			
Pole Shoe Retainer	43474	2			
Engine Adaptor Brkt.	47245	1			
Adaptor Brkt. Screw	441	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	44346	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
D. C. Brush	41393	2			
D. C. Brush Holder					
& Plate Assy.	44347-1	2			
A. C. Condenser	41221	2			
D. C. Condenser	41180	1			
Frame	20370	1			
Base (Generator)	24723	1			
Shock Mounts	24725	4			

ENGINE MAKE Wisconsin MODEL # VF4D PART # 44488

Wiring Diagram B44814
 Schematic N/A
 Generator Parts
 Unassembled C47251
 Complete Unit
 Part # D47253

 REPAIR
 PARTS LIST
 #546

Size 15,000 Watts
 Drive Belt
 Type Two Pole
 Unit Model # 15WH-4R/C

DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	47249-1	1	Control Box Assy.	44527	1
Armature Bearing			Cover Assy.	53766	1
Brush End	46911	1	Front Panel (Bare)	44636	1
Armature Bearing			Rear Panel (Bare)	44637	1
Bracket End	46913	1	Resistor	24870	1
			Diode	43946	1
Fan Assy.	23404	1	Start Stop Switch	23772	1
Fan Washer	21867	1	Maxi Watt Switch	44022	1
Fan Lockwasher	40552	1	Fuse	43798	1
Fan Nut	9549	1	Fuse Holder	2489	1
			Start Solenoid	24061	1
Field Coil	47071	1	Terminal Block	21973	1
Field Coil	47071-1	1	Ammeter	21699	1
Shell & Bracket Assy.	44624	1	Transformer	43945	1
Pole Shoe	43473	2	Switch	24238	1
Pole Shoe Retainer	43474	2			
Engine Adaptor Brkt.	47245	1			
Adaptor Brkt. Screw	441	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	50343	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
D. C. Brush	41393	2			
D. C. Brush Holder					
& Plate Assy.	44347-1	2			
A. C. Condenser	41221	3			
D. C. Condenser	41180	1			
Frame	20370	1			
Base (Generator)	24723	1			
Shock Mounts	24725	4			

ENGINE MAKE Wisconsin MODEL # VF4D PART # 44488

Wiring Diagram C N/A
 Schematic B44260
 Generator Parts
 Unassembled A56299
 Complete Unit
 Part # A56299

 REPAIR
 PARTS LIST
 #501

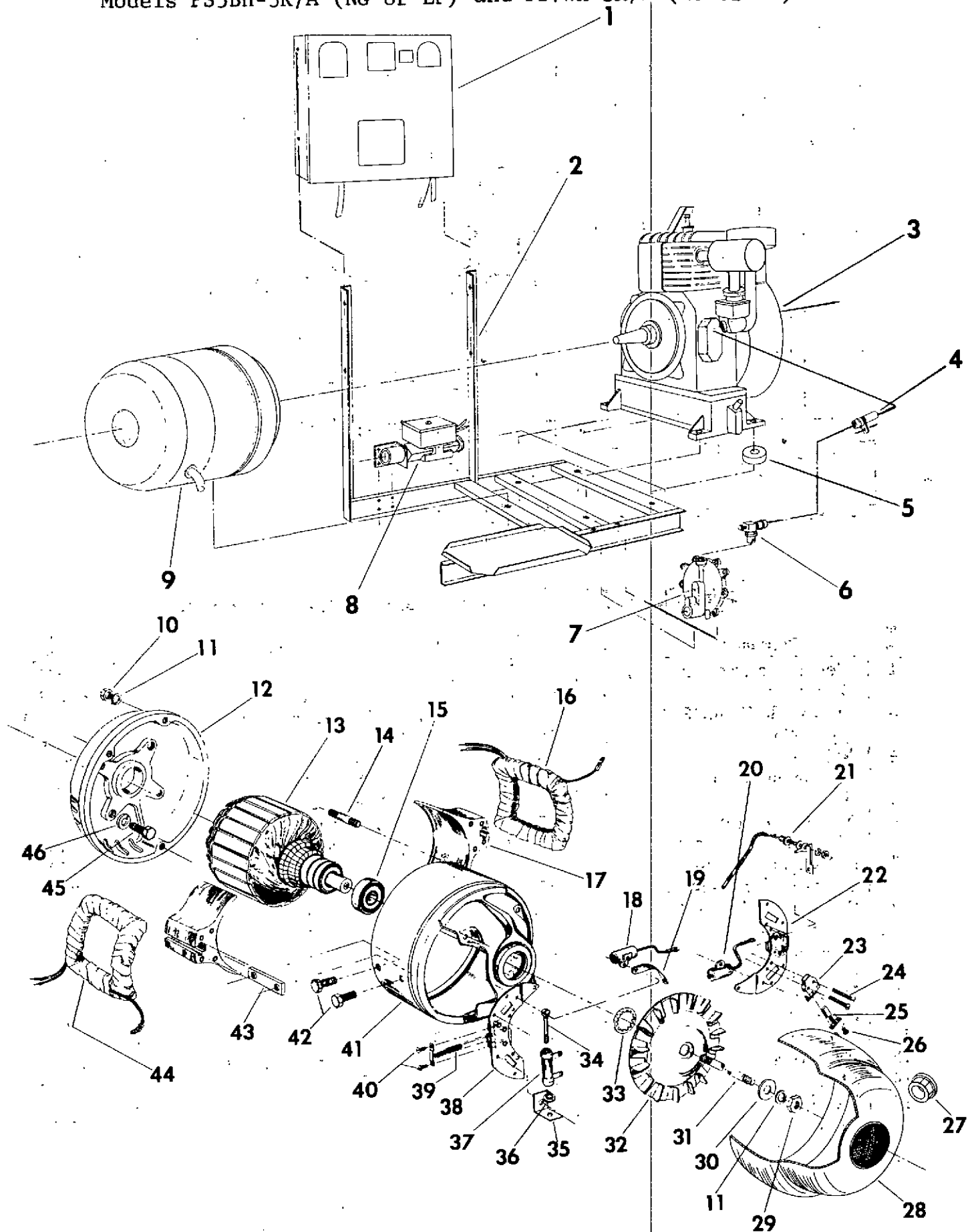
Size 15,000 Watts
 Drive Belt Drive
 Type Two Pole
 Unit Model # 15WH-17R/A

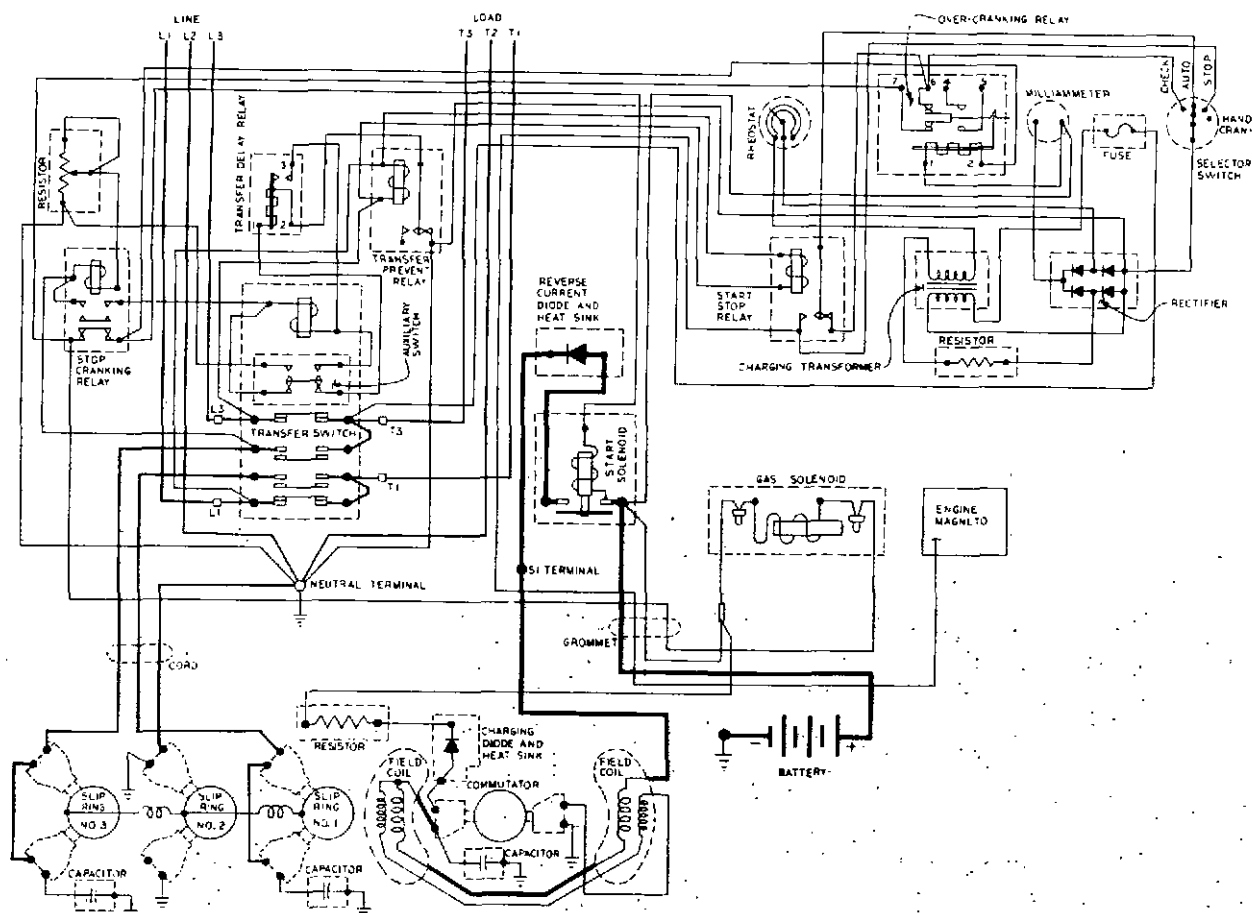
DESCRIPTION	PART #	QTY.	DESCRIPTION	PART #	QTY.
Armature	56262-1	1	Control Box Assy.	44226-1	1
Armature Bearing			Cover Assy.	21626	1
Brush End	46911	1	Front Panel (Bare)	44636	1
Armature Bearing			Rear Panel (Bare)	44637	1
Bracket End	46913	1	Resistor (Charge)	24870	1
			Diode Assy.	43946	1
Fan Assy.	23404	1	Toggle Switch	24238	1
Fan Washer	21867	1	Maxi Watt Switch	23772	1
Fan Lockwasher	40552	1	Fuse	43798	1
Fan Nut	9549	1	Fuse Holder	2489	1
			Ammeter	21699	1
Field Coil	53942	1	Transformer	44646	1
Field Coil	53942-1	1	Terminal Block	21973	1
Shell & Bracket Assy.	44624	1			
Pole Shoe	43473	2			
Pole Shoe Retainer	43474	2			
Engine Adaptor Brkt.	51046-1	1			
Adaptor Brkt. Screw	51101	4			
End Cover Assy.	23634	1			
Brush Rack Assy.	50343	1			
(Complete)	& -1	1			
A. C. Brush	24981	16			
A. C. Brush Holder	23500-2	16			
D. C. Brush	41393	2			
D. C. Brush Holder	44347	1			
& Plate Assy.	& -1	1			
A. C. Condenser	41221	3			
D. C. Condenser	41180	1			
Frame	20370	1			
Frame (Generator Only)	24723	1			
Shock Mounts	24725	4			

ENGINE MAKE Wisconsin MODEL # VH4D PART # 44488

WINCO EMERGENCY POWER PLANT

Models PS5BH-3R/A (NG or LP) and PS7WH-3R/A (NG or LP)





PARTS LIST

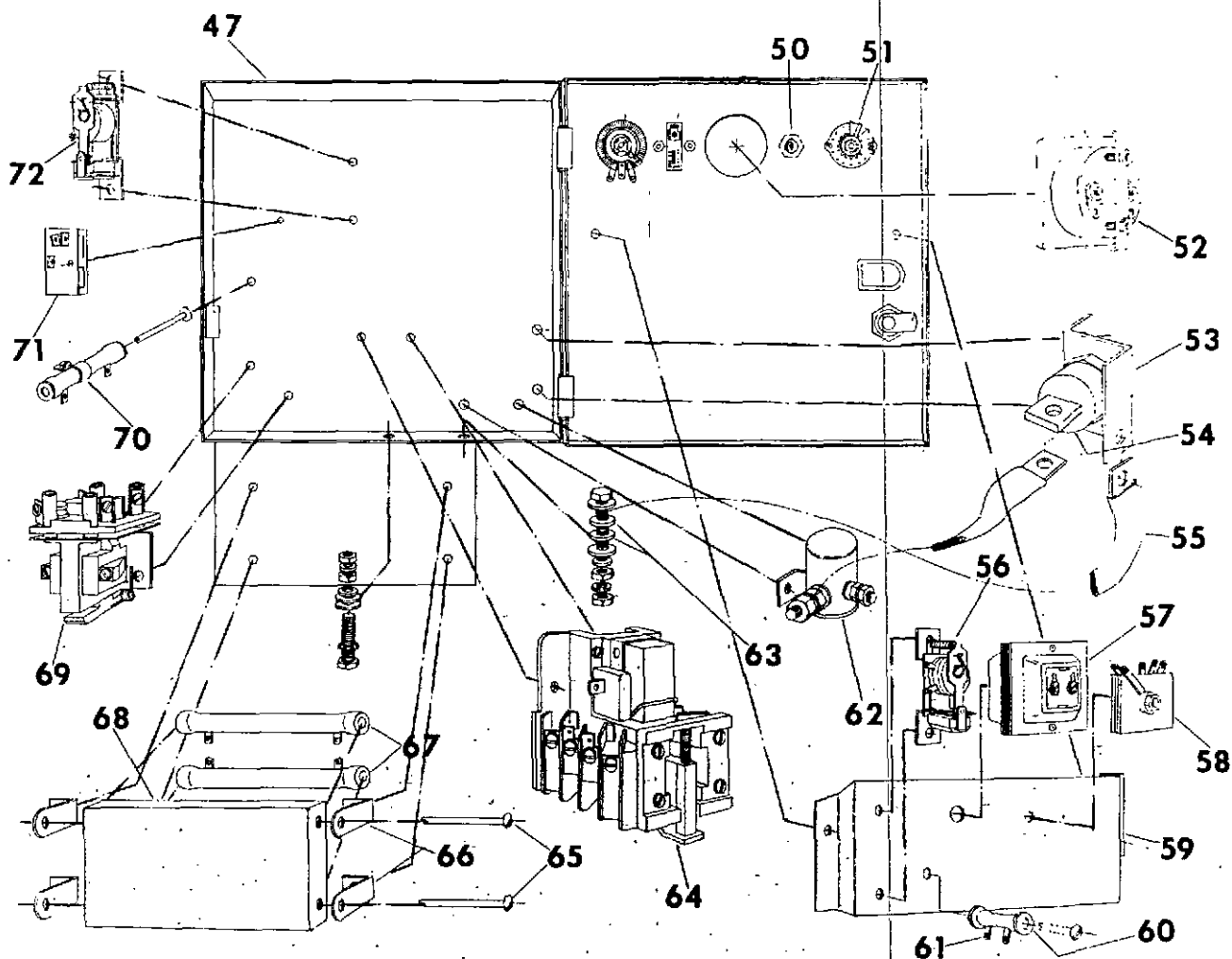
MODEL PS5BH-3R/A (NG or LP)

Ref. No.	Description	Qty.	Part No.	Ref. No.	Description	Qty.	Part No.
1	Elec. transfer control assy		55547	21	Diode	1	54023-1
2	Base frame assy	1	55466	21a	Heat sink	1	54733
3	Engine B&S 243431, type 0659.01	1	56270	22	Riveted brush rack assy	1	41744-1
4	NG fuel spud-in*		55561	23	Ac brush holders	6	23500
	LP fuel spud-in*		55552	24	Machine screw	4	40550
5	Rubber shock mount	5	20191-1	25	AC brush	6	23607
6	NG fuel load block*		55560	26	Machine screw	12	40746
	LP fuel load block*		55502	27	Strain relief	1	55437
7	NG secondary regulator*		55559	28	End cover	1	55438-1
	LP secondary regulator*		55501-2	29	Hex nut	1	23605
8	Solenoid & bracket assy	1	55528	30	Flat washer	1	23558
8a	Solenoid only (not illustrated)		42942	31	Thru bolt	1	23197-7
9	Generator assy		55420	32	Fan assy	1	55101
10	Hex nut	4	458	33	Shakeproof lockwasher	1	55224
11	Split lockwasher	5	480	34	Machine screw	1	24864
12	End bracket	1	54025	35	Bracket	2	53997
13	Armature	1	55317-1	36	Fiber washer	2	1376
14	Stud	4	23451	37	Resistor	1	41984
15	Bearing	1	55223	38	Riveted brush rack assy	1	51744
16	Field coil	1	55422-1	39	DC brush	2	41393
17	Pole shoe	2	23207	40	Machine screw	3	4637
18	AC capacitor	2	41221	41	Field shell & brkt. assy	1	55417
19	Copper ground strap	2	41387-6	42	Hex hd cap screw	4	9416
20	DC capacitor	1	41180	43	Pole shoe retainer	2	23208
				44	Field coil	1	55422
				45	Hex hd cap screw	4	54028
				46	Split lockwasher	4	90570

* NG — Natural Gas

* LP — Liquefied Petroleum

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.



PARTS LIST

The following parts are common to Models PS5BH-3R/A and PS7WH-3R/A except as noted *.

Ref. No.	Description	Qty.	Part No.	Ref. No.	Description	Qty.	Part No.
47	Surface cabinet	1	55426	59	Bracket	1	46117
48	Rheostat	1	24786	60	Insulation washer	2	266
48a	Dial Plate	1	8777	61	Resistor	1	24787
48b	Knob	2	8778	62	Start solenoid	1	24061
49	Over cranking relay	1	48585	63a	Shoulder washer	1	21981
50	Fuse holder	1	2489	63b	Insulation washer	1	6892
50a	Fuse, 3 AG, 1 amp	1	22219	64	Transfer relay	1	46125
51	Selector switch	1	22185	65	Machine screw†	2	54599-2
51a	Dial plate	1	21962	66	Bracket†	4	54599-1
52	Milliammeter	1	22188	67	Resistor†	2	54599
53	Heat sink	1	51061	68	Cover†	1	43987
54	Silicon rectifier	1	51060	69	Stop cranking relay	1	23566
55	Copper strap	2	52789-6	70	Resistor	1	23635
55a	Insulation sleeving	2	54041-6	71	Thermal delay relay	1	48525
56	Start/stop relay	1	40518	72	Transfer prevent relay	1	40518
57	Transformer	1	46755				
58	Selenium rectifier	1	22191				

* Items used on Model PS7WH-3R/A only

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

PARTS LIST MODEL PS7WH-3R/A (NG or LP)

Ref. No.	Description	Qty.	Part No.	Ref. No.	Description	Qty.	Part No.
1	Elec. transfer control assy		55594	21a	Heat sink	1	54729
2	Base frame assy	1	55544	22	Riveted brush rack assy	1	47684-1
3	Engine, Wisconsin S14D	1	56303	23	AC brush holder	9	23500
4	Fuel load block/ spud-in**	1	55593	24	Machine screw	6	23867
5	Rubber shock mount	6	20191	25	AC brush	9	55536
7	Secondary fuel regulator	1	55559	26	Machine screw	18	40746
8	Solenoid & Bracket assy	1	55528	27	Strain relief	1	55437
8a	Fuel solenoid only (not illustrated)		42942	28	End cover	1	55438-3
9	Generator assy		55014	29	Hex nut	1	23605
10	Hex nut	4	458	30	Flat washer	1	23558
11	Split lockwasher	5	480	31	Thru bolt	1	24185
12	End bracket	1	24957	32	Fan assy	1	23404
13	Armature	1	54993-1	33	Shakeproof lockwasher	1	40552
14	Stud	1	23451	38	Riveted brush rack assy	1	47684
15	Bearing	1	50215	39	DC brush	2	47683
16	Field Coil	1	54994-1	40	Machine screw	4	4637
17	Pole shoe	2	42882	41	Field shell & bracket assy	1	55008
18	AC capacitor	2	41221	42	Hex head cap screw	6	399
19	Copper ground strap	2	41387-1	43	Pole shoe retainer	2	51697
20	DC capacitor	1	41180	44	Field coil	1	54994
21	Diode	1	54023-1	45	Key	1	51822
				46	Socket head bolt	4	23604

** Carburetor adjustment for LP and NG

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

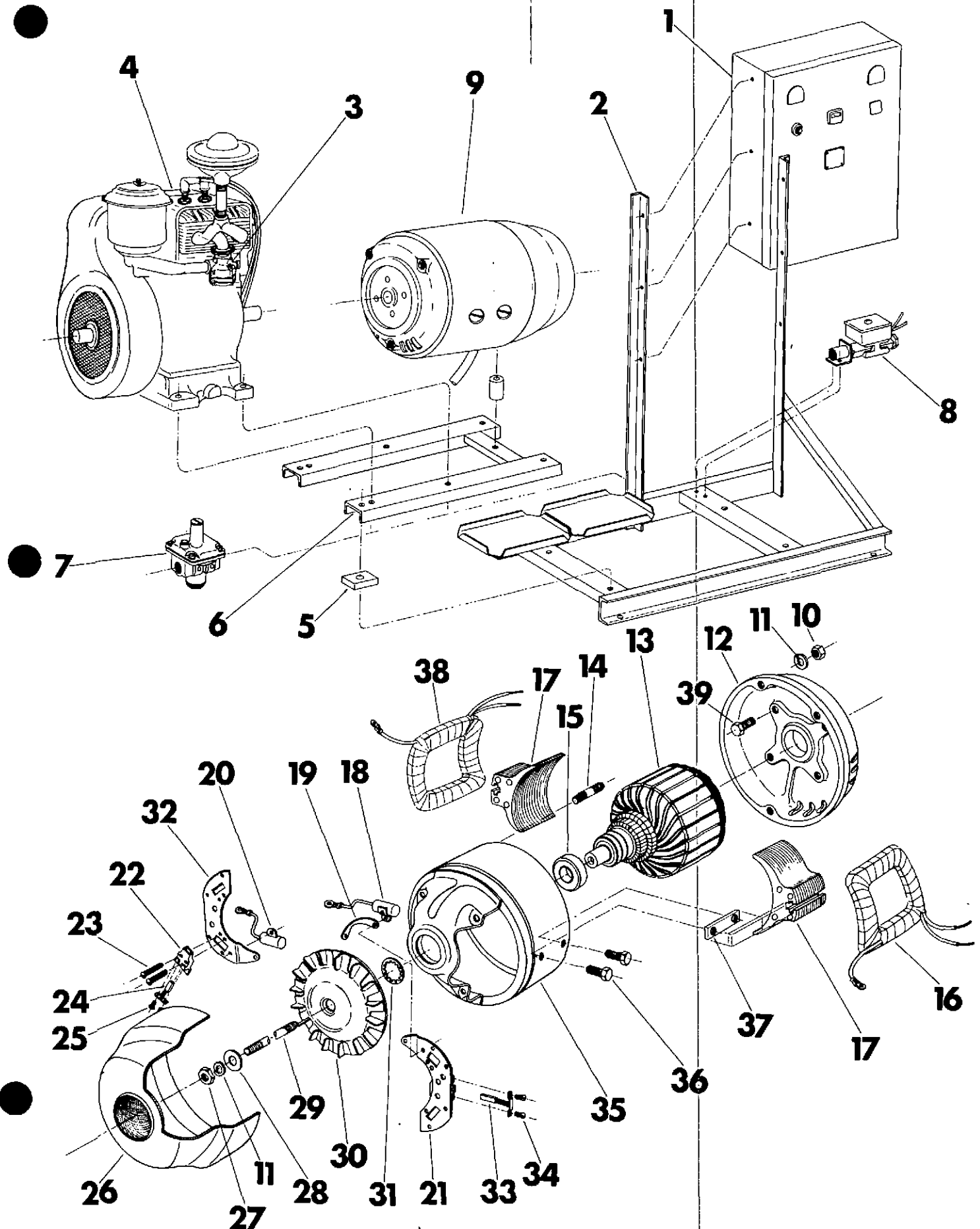
Manufactured by

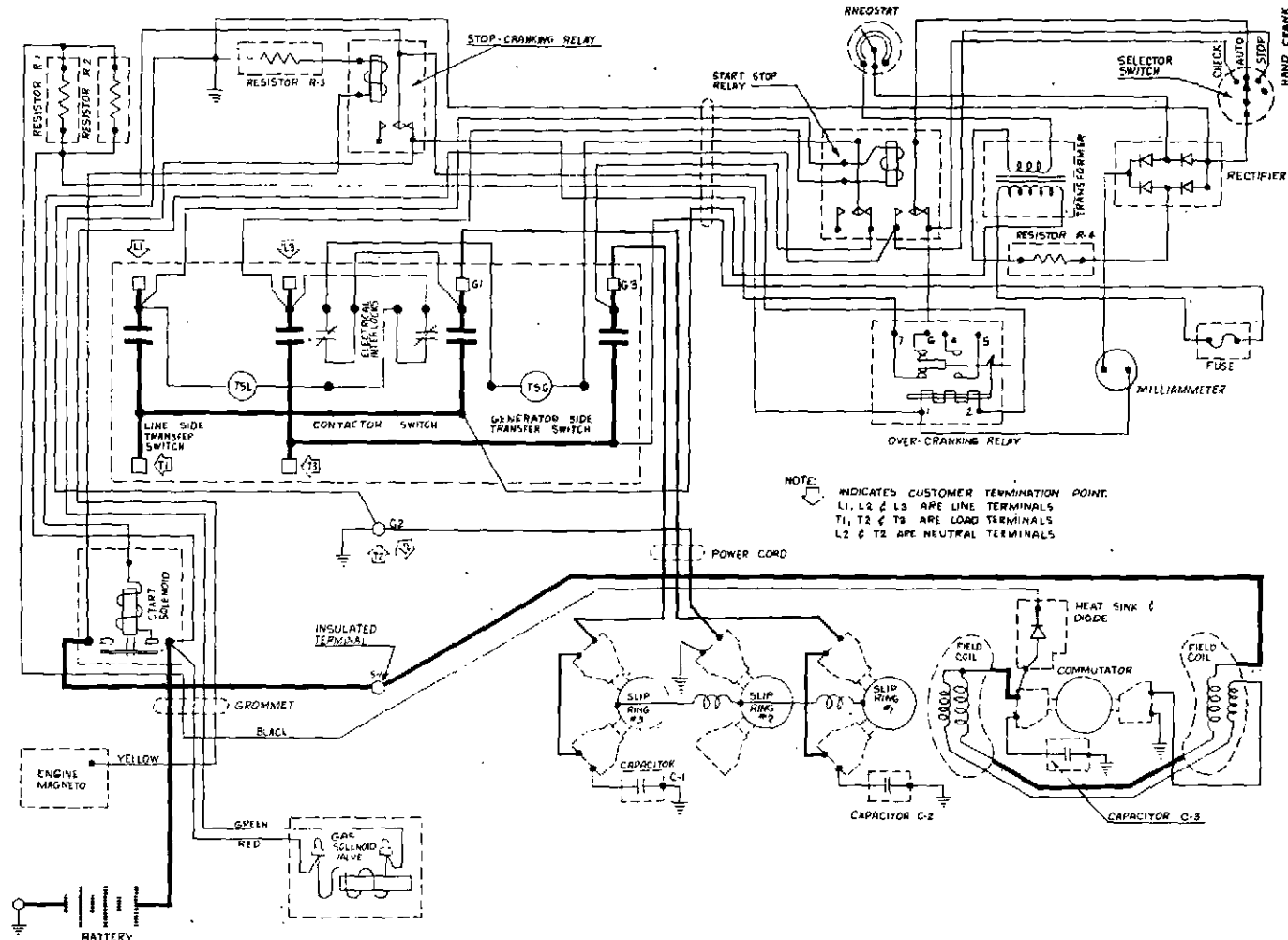
WINGO

Division of Dyna Technology, Inc.

WINCO EMERGENCY POWER PLANT

MODEL PS10WH-3R/B (NG or LP)



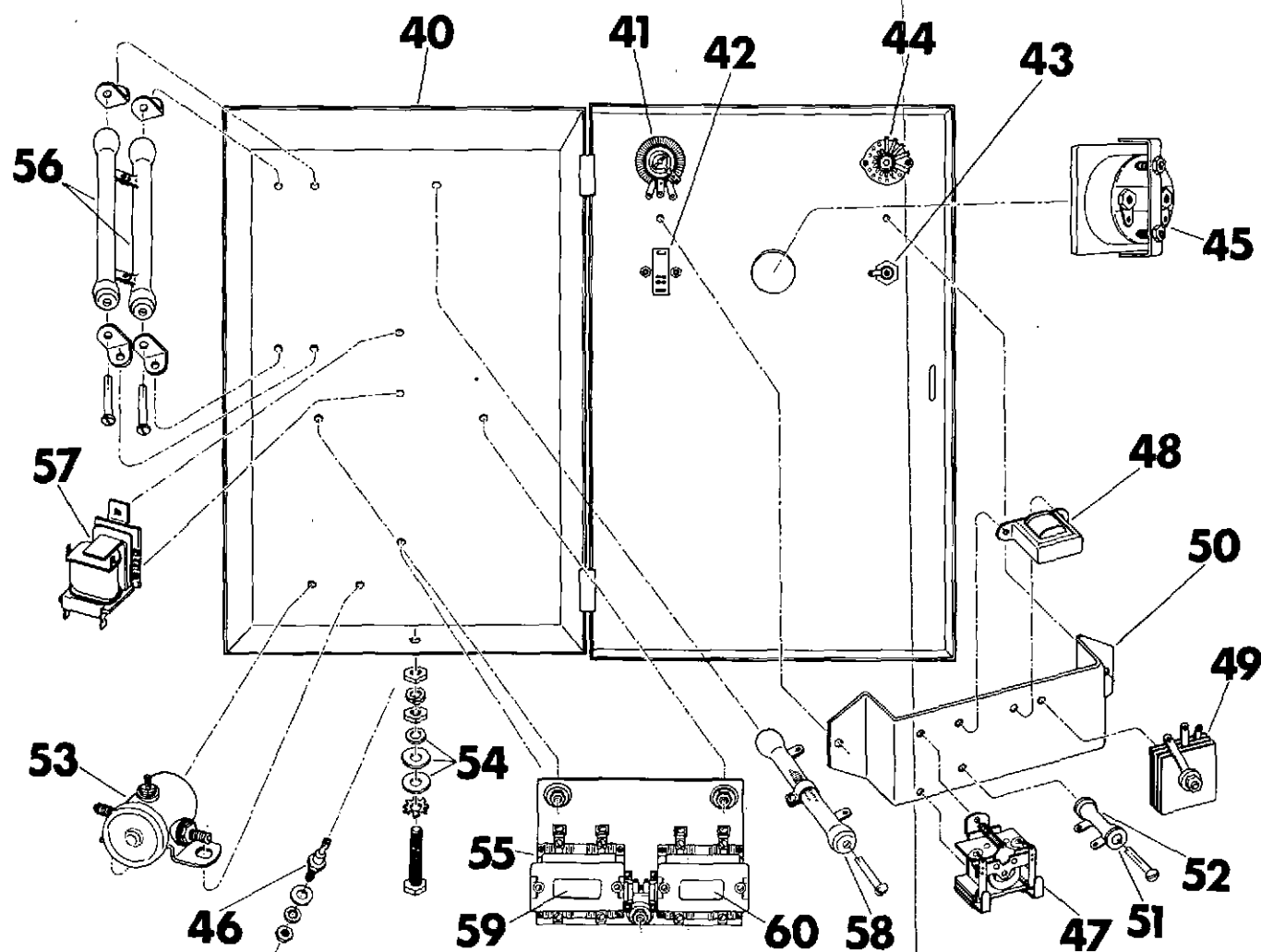


PARTS LIST

MODEL PS10WH-3R/B (NG or LP)

Ref. No.	Description	Qty.	Part No.	Ref. No.	Description	Qty.	Part No.
1	Elec. transfer control assy	1	55714	20	DC capacitor	1	41180
2	Base frame assy	1	55581	21	Riveted brush rack assy	1	47684-1
3	Carburetor	1	50852	22	AC brush holders	12	23500
4	Engine Wis. THD 361979	1	56302	23	Machine screw	8	23867
5	Rubber slab	4	24725	24	AC brush	12	55536
6	Sub base	1	55579	25	Machine screw	24	40746
7	Secondary regulator	1	50248	26	End cover	1	55007
8	Solenoid & bracket assy	1	55528	27	Hex Nut	1	23605
8a	Solenoid only	1	42942	28	Flat Washer	1	23558
9	Generator assy	1	55492	29	Thru bolt	1	24195
10	Hex nut	4	458	30	Fan assy	1	23404
11	Split lockwasher	5	480	31	Shakeproof lockwasher	1	40552
12	End Bracket	1	55493	32	Riveted brush rack assy	1	47684
13	Armature	1	55360	33	DC brush	2	47683
14	Stud	4	51434	34	Machine Screw	3	4637
15	Bearing	1	50215	35	Field shell & brkt. assy	1	55340
16	Field Coil	1	55359-1	36	Hex hd cap screw	8	43781
17	Pole shoe	2	43473	37	Pole shoe retainer	2	43474
18	AC capacitor	2	41221	38	Field coil	1	55359
19	Copper ground strap	4	41387	39	Hex hd cap screw	4	24707

Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.



PARTS LIST

MODEL P510WH-3R/B (NG or LP)

Ref. No.	Description	Qty.	Part No.	Ref. No.	Description	Qty.	Part No.
40	Surface cabinet	1	55597	49	Selenium rectifier	1	22191
41	Rheostat	1	24786	50	Bracket	1	22243
41a	Dial Plate	1	8777	51	Insulation washer	2	266
41b	Knob	2	8778	52	Resistor	1	24787
42	Over cranking relay	1	48585	53	Start solenoid	1	24061
43	Fuse holder	1	2489	54	Shoulder washer	1	21981
43a	Fuse, 3 AG, 1 amp	1	22219	54a	Insulation washer	1	6892
44	Selector switch	1	22185	55	Contactor switch assy	1	55728-1
44a	Dial plate	1	21962	56	Resistor	2	54599
45	Milammeter	1	22188	57	Stop cranking relay	1	55427
46	Diode	1	54023-1	58	Resistor	1	80258-5
47	Start/stop relay	1	50259	59	Line side contactor	1	55726
48	Transformer	1	24785	60	Generator side contactor	1	55727

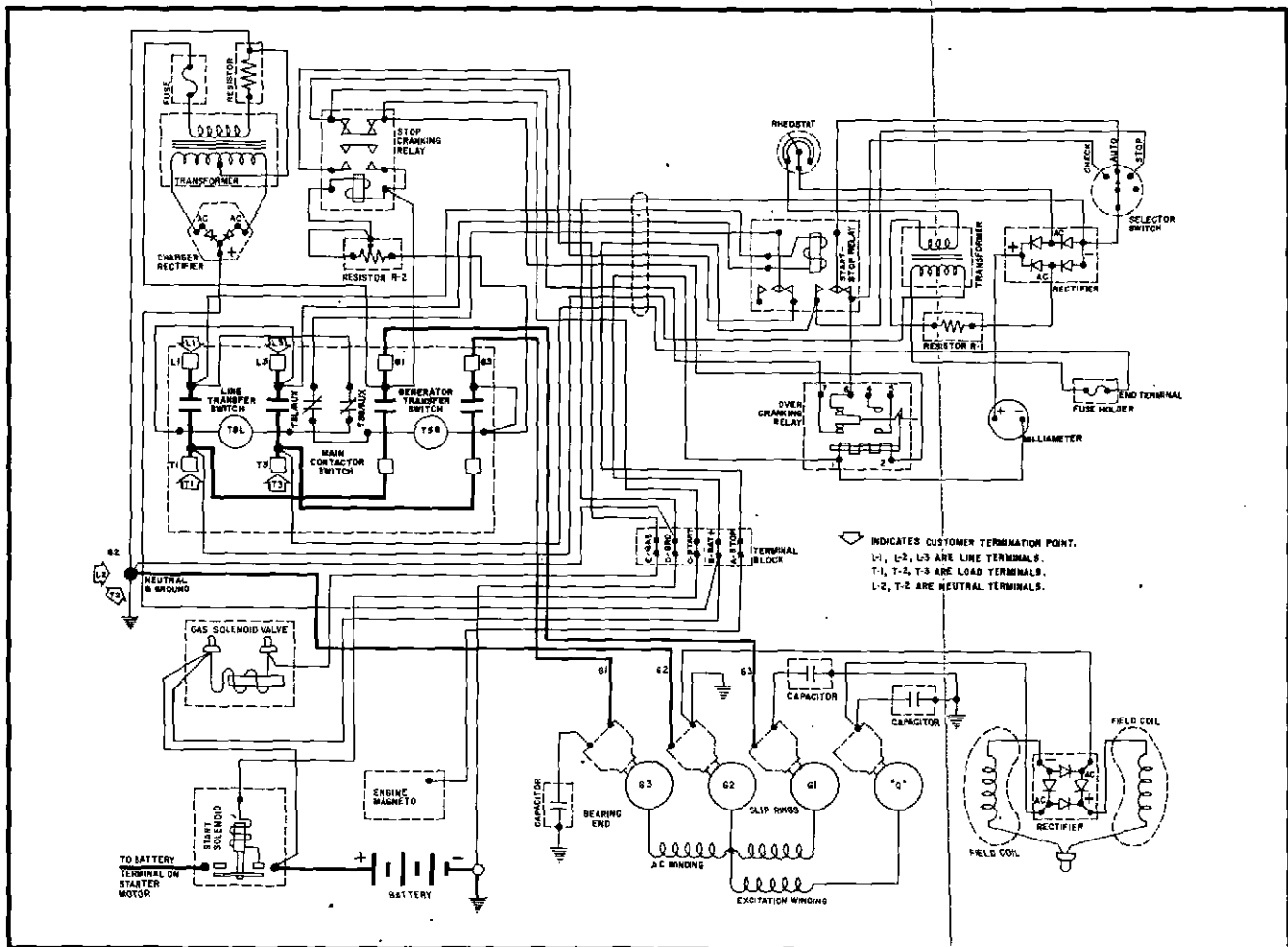
Any parts required for gas engine portion of the unit should be obtained from the local engine manufacturer's service station.

WIRING DIAGRAM & PARTS LIST



EMERGENCY POWER PLANT

MODEL PS18WH-3R — 18,000 WATTS



HOW TO ORDER REPAIR PARTS

Please provide following information:

- Model Number
- Serial Number
- Part Description and Number as shown in Parts List.

Address order to:

WINCO

Division of Dyna Technology, Inc.

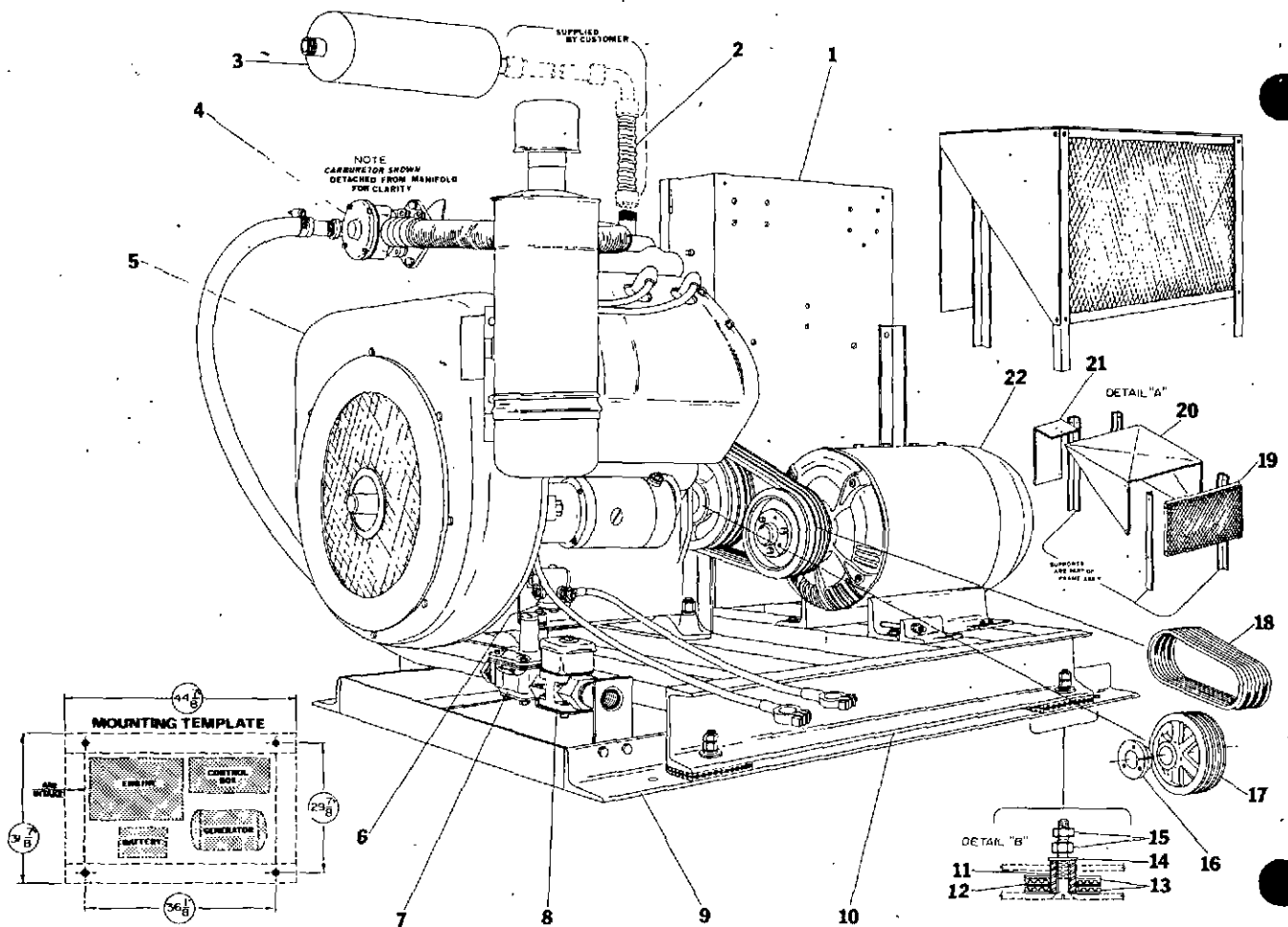
225 So. Cordova

Le Center, Minn. 56057

Attention: Service Dept.

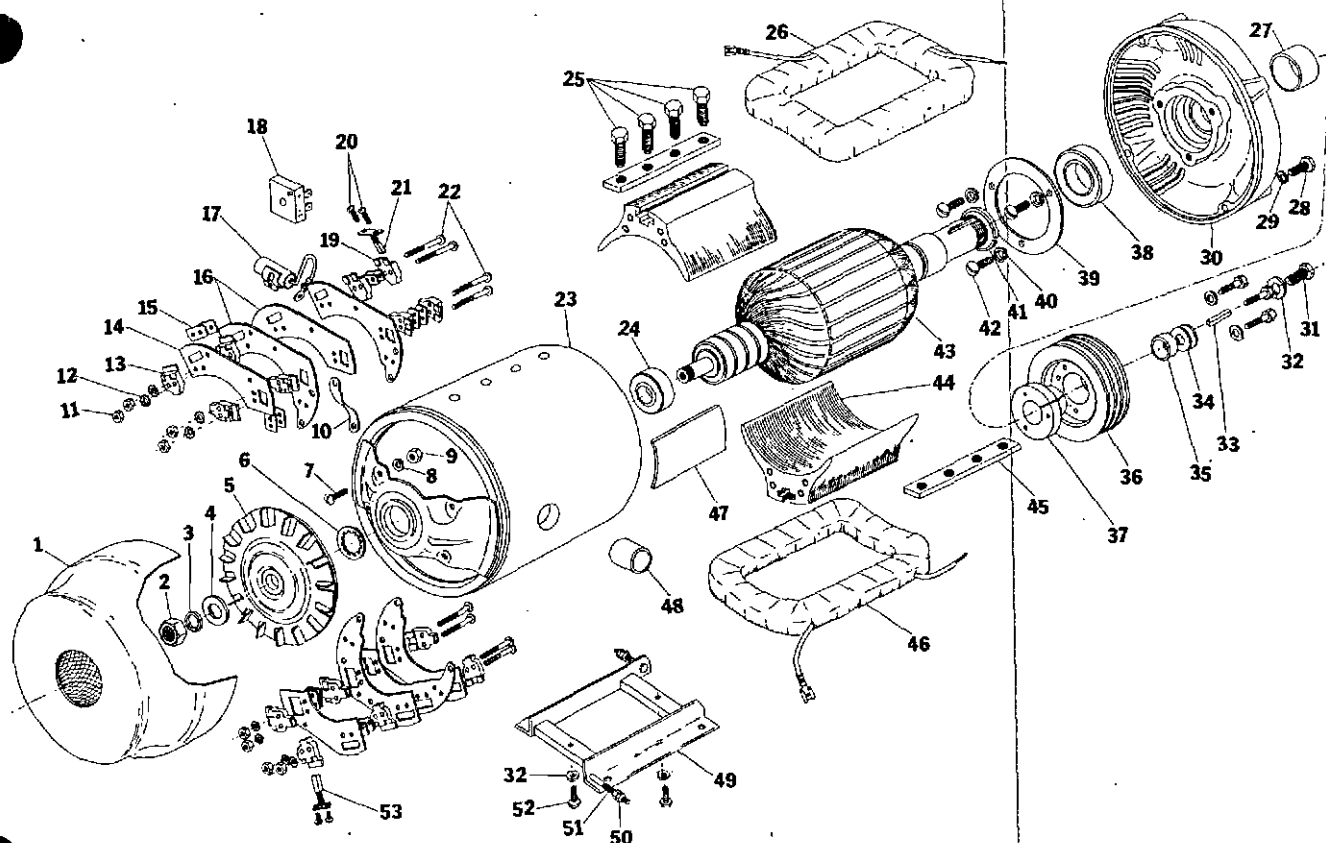
Ph. 612 357-6821

PARTS LIST— MODEL PS18WH-3

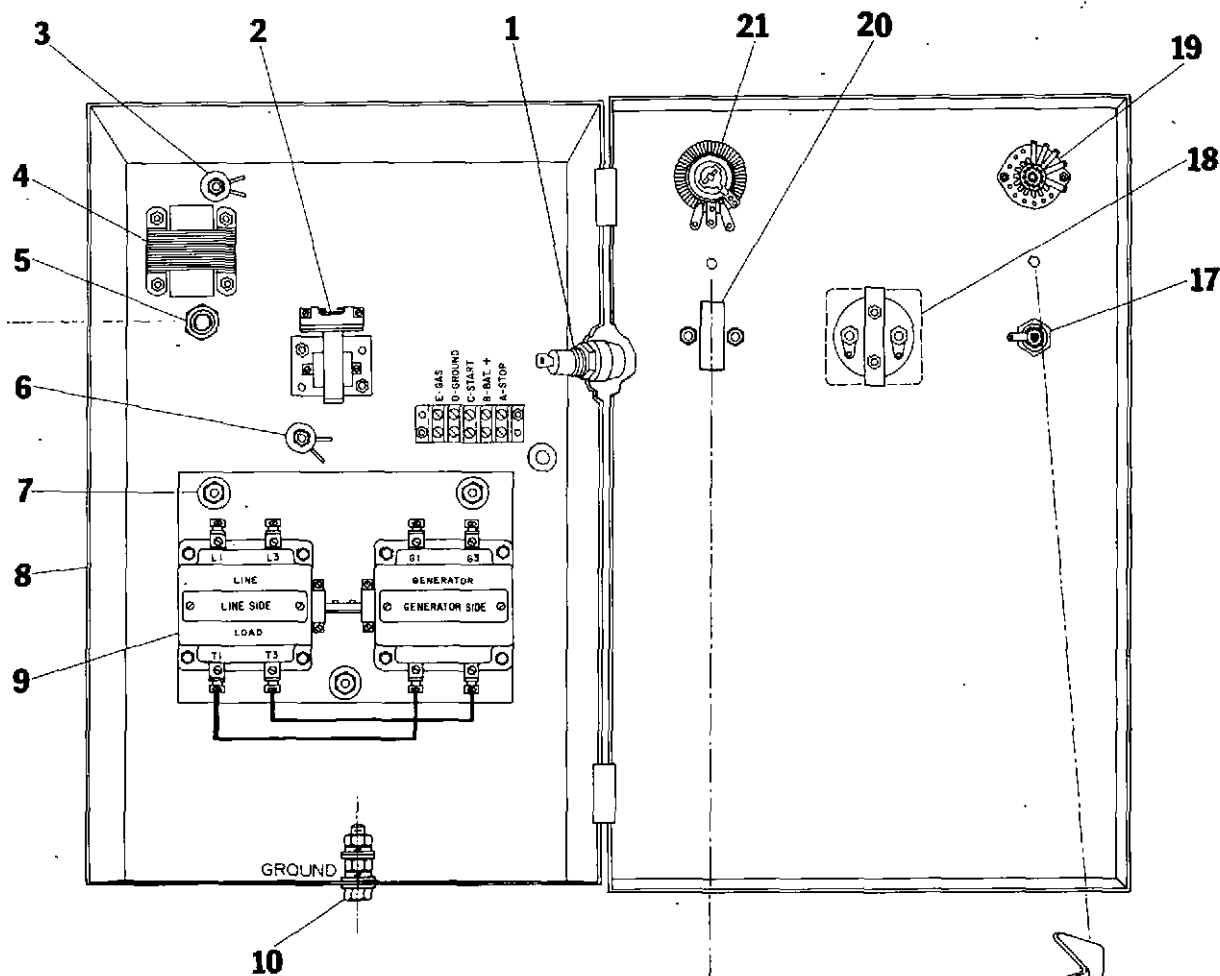


Ref. No.	Description	Part No.	Qty.	Ref. No.	Description	Part No.	Qty.
1	ETC Panel	55945	1	12	Spacer Plate	56060	4
2	Flex Exhaust	80518-1	1	13	Shock Mount	56059	8
3	Muffler	80519-1	1	14	Flat Washer	9756	8
4	Carburetor	50852	1	15	Nut	1744	8
5	Engine	55982	1	16	Coupling	56057	1
6	Start Solenoid	24061	1	17	Sheave	56058	1
7	Regulator	50248	1	18	V Belt Set	56054	1
8	Gas Solenoid	42942	1	19	Screen	56104	1
9	Main Frame	55883	1	20	Generator Cover	55897	1
10	Sub Frame	55890	1	21	Belt Guard	55898	1
11	Hose (Spacer)	23048-12	4	22	Generator Only	55073-1	1

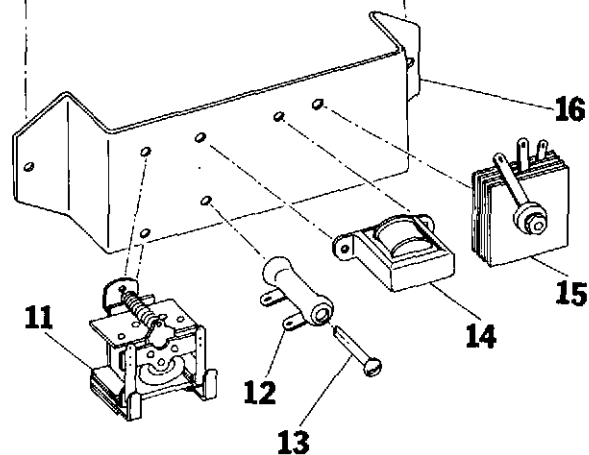
R EMERGENCY POWER PLANT



Ref. No.	Description	Part No.	Qty.	Ref. No.	Description	Part No.	Qty.
1	End Cover -----	23634	1	27	Spacer -----	44634-3	1
2	Nut -----	9549	1	28	Cap Screw -----	51101	4
3	Lockwasher -----	20039	1	29	Lockwasher -----	480	4
4	Flatwasher -----	21867	1	30	End Bracket -----	56090	1
5	Fan -----	23404	1	31	Bolt -----	1741	1
6	Lockwasher -----	40552	1	32	Lockwasher -----	636	3
7	Machine Screw -----	4637	4	33	Key -----	44208	1
8	Lockwasher -----	484	4	34	Flatwasher -----	9756	2
9	Nut -----	456	4	35	Spacer -----	44634-5	1
10	Ground Strap -----	41387-1	2	36	Sheave -----	56091	1
11	Nut -----	5113	10	37	Bushing -----	56092	1
12	Lockwasher -----	6376	10	38	Bearing -----	46913	1
13	Brush Holder -----	23500-2	12	39	Retainer Ring -----	44318	1
14	Brush Holder Spacer -----	52559	2	40	Lockwasher -----	479	3
15	Fiber Spacer -----	23522	14	41	Snap Ring -----	21549	1
16	Brush Holder -----			42	Machine Screw -----	45633	3
17	Mounting Plate -----	53975	6	43	Armature -----	56086	1
18	Capacitor -----	41221	3	44	Pole Shoe -----	43473	2
19	Rectifier -----	53976	1	45	Retainer -----	43474	2
20	Q Ring Brush Holder -----	23500	2	46	Field Coil -----	52563-1	1
21	Machine Screw -----	40746	28	47	Lead Shield -----	23478	1
22	Q Ring Brush -----	53949	2	48	Grommet -----	21346	1
23	Machine Screw -----	21977	4	49	Base Assembly -----	55895	1
24	Field Shell & Bracket -----	54784	1	50	Nut -----	459	4
25	Bearing (Brush End) -----	50215	1	51	Bolt -----	56056	2
25A	Cap Screw -----	43781	7	52	Cap Screw -----	48178	2
26	Cap Screw -----	54806	1	53	A. C. Brush -----	24981	12
	Field Coil -----	52563	1				



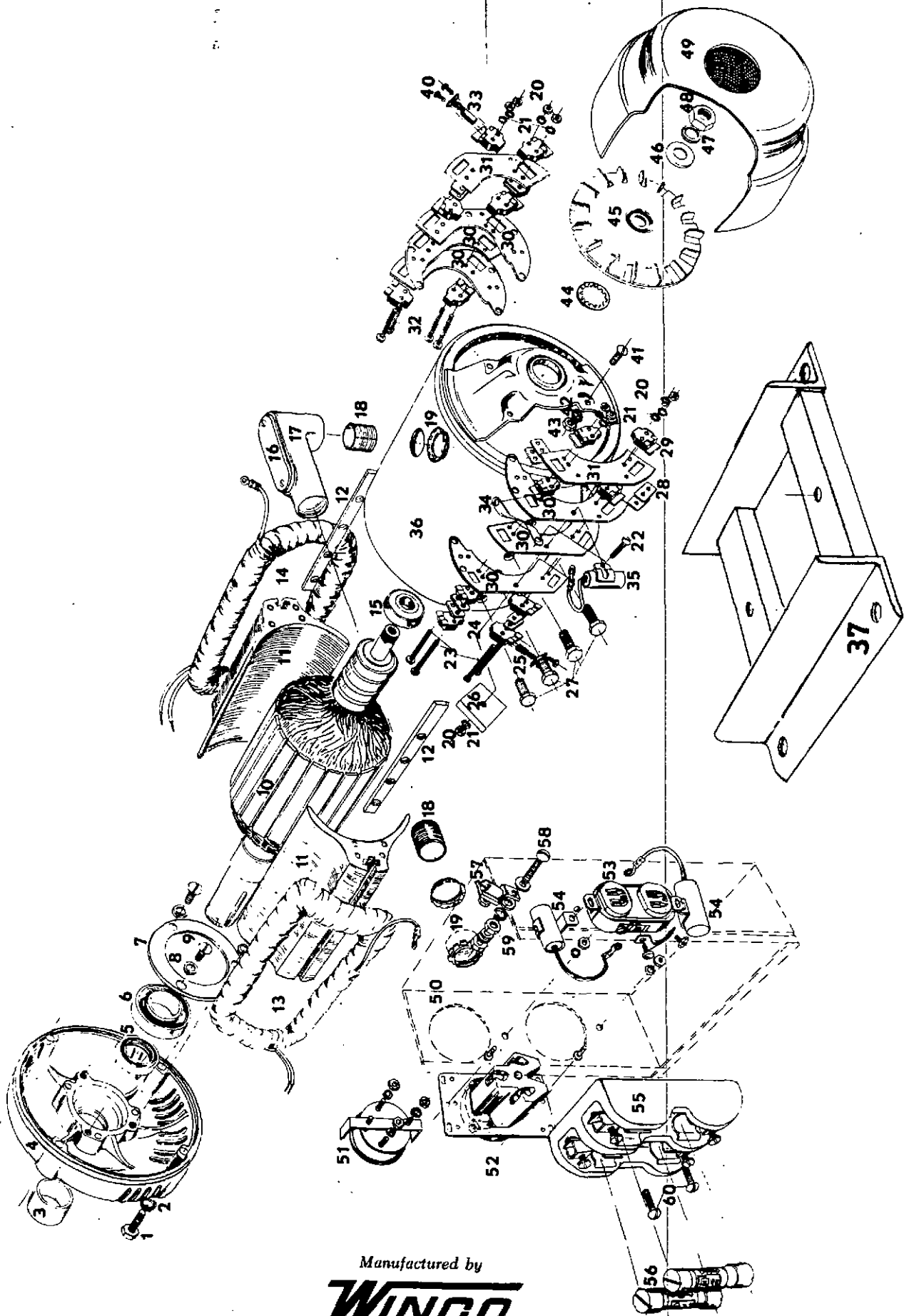
Ref. No.	Description	Part No.	Qty.
1	Fuse Holder	2489	1
1A*	Fuse Element	22219	2
2	Stop Cranking Relay	23165	1
3	Resistor	53953-2	1
4	Transformer	43945	1
5	Rectifier	53646	1
6	Resistor	22184	1
7	Rubber Grommet	50755	6
8	Surface Cabinet	22182	1
9	Contactor Switch Assembly	55801-1	1
9A	Line Side Contactor	55802	1
9B	Generator Side Contactor	55803	1
10	Ground Bolt Assembly	49621	1
11	Start/Stop Relay	50259	1
12	Resistor	24787	1



Ref. No.	Description	Part No.	Qty.
13	Machine Screw	22587	1
14	Transformer	24785	1
15	Selenium Rectifier	22191	1
16	Mounting Bracket	22243	1
17	Fuse Holder	2489	1
18	Milliammeter	22188	1
19	Selector Switch	22185	1
20	Over Cranking Relay	48585	1
21	Rheostat	24786	1

*Item 1A is an element only used with items 1 & 17

WINCO GENERATOR PLANT MODEL P15PTOF-3/D



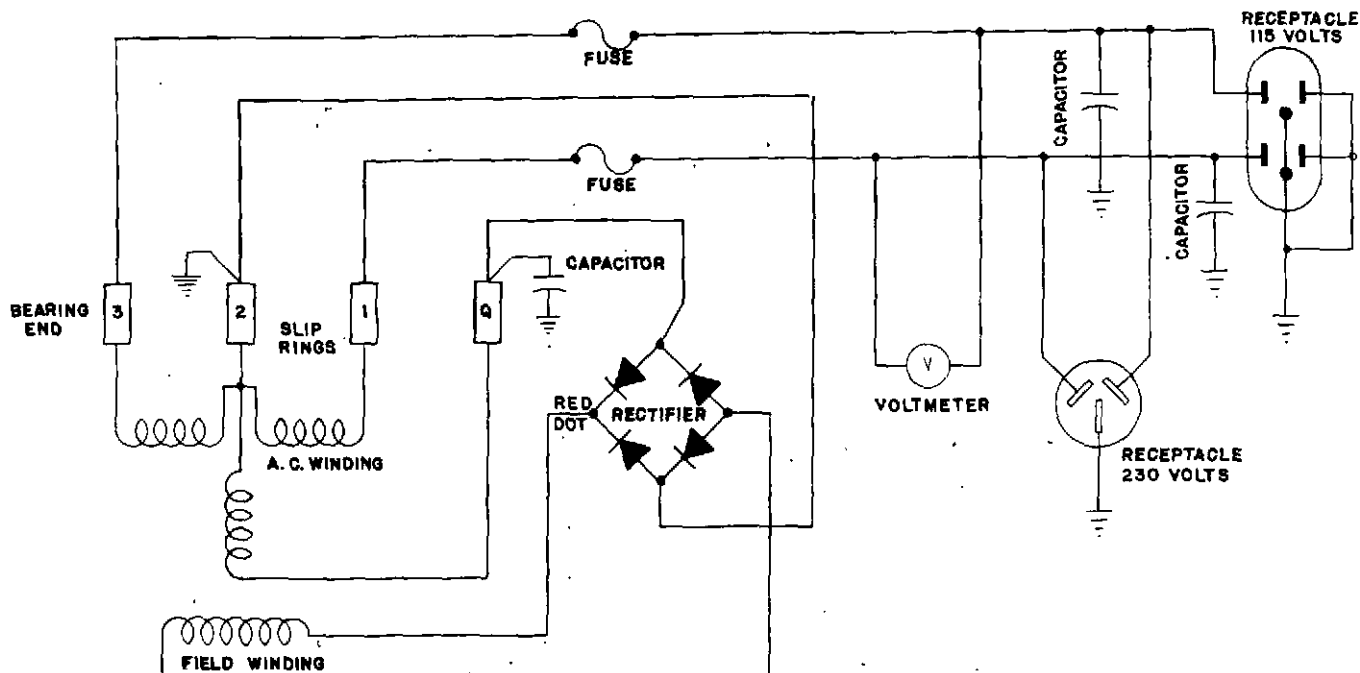
39
38

Manufactured by

WINCO

Division of Dyna Technology, Inc.

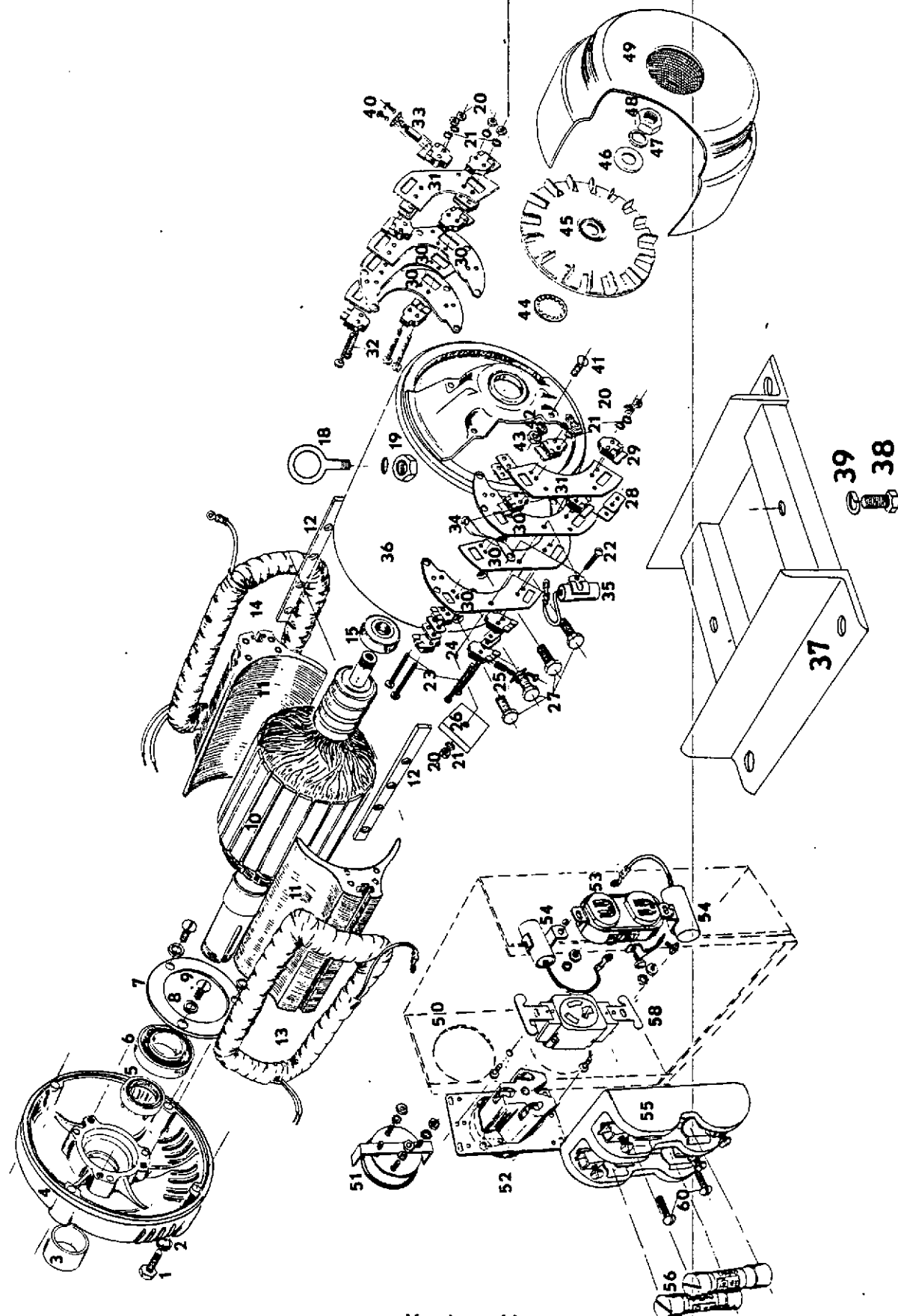
East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102



PARTS LIST

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	51101	Field Sh. cap screw	4	31	52559	Brush holder spacer	2
2	480	Field Shell lockwasher	4	32	21977	Machine screw	1
3	20137	Sleeve	1	33	24981	A.C. Brush	12
4	51046-1	End Bracket	1	34	41387-6	Ground strap	1
5	46912	Oil Seal	1	35	41221	Condenser	1
6	46913	Bearing	1	36	52538	Field shell & Bracket	1
7	44318	Bear. Retain. Plate	1	37	51147	Base assembly	1
8	479	Bear. Ret. L-washer	3	38	48178	Hex head screw	2
9	45633	Bear. Ret. Screw	3	39	636	Lockwasher (split type)	2
10	52497-1	Armature	1	40	40746	Brush holder screw	28
11	43473	Pole shoe assembly	2	41	4637	Machine screw	4
12	43474	Pole shoe retainer	2	42	484	Lockwasher	4
13	52563	Field coil assembly	1	43	456	Hex Nut	4
14	52563-1	Field coil assembly	1	44	40552	Lockwasher (fan)	1
15	50215	Bearing	1	45	23404	Fan assembly	1
16	44396	Condulet cover	1	46	21867	Flat washer (fan)	1
17	44393	Condulet	1	47	20039	L-washer (fan) split type	1
18	24365	Pipe nipple	1	48	9549	Hex nut (fan)	1
19	24364	Conduit locknut	3	49	23634	End cover	1
20	5113	Hex nut	9	50	50793	Control box (only)	1
21	6376	Lockwasher (split type)	9	51	52490	Voltmeter	1
22	23599	Machine screw	1	52	57325	Receptacle	1
23	44342	Machine screw	4	53	24749	Duplex receptacle	1
24	23500	Brush holders	2	54	41221	Condensers	2
25	53949	Q ring brush	2	55	48406	Fuse base	1
26	53976	Rectifier	1	56	48469	Fuse	2
27	43781	Cap screw	8	57	48042	Ground Lug	1
28	23532	Fiber spacers	14	58	424	Machine screw	1
29	23500	A.C. brush holders	12	59	638	Hex nut	2
30	53975	Brush holder mtg. plate	6	60	420	Machine screw	2

WINCO GENERATOR PLANT MODEL 20PTOF-3/C

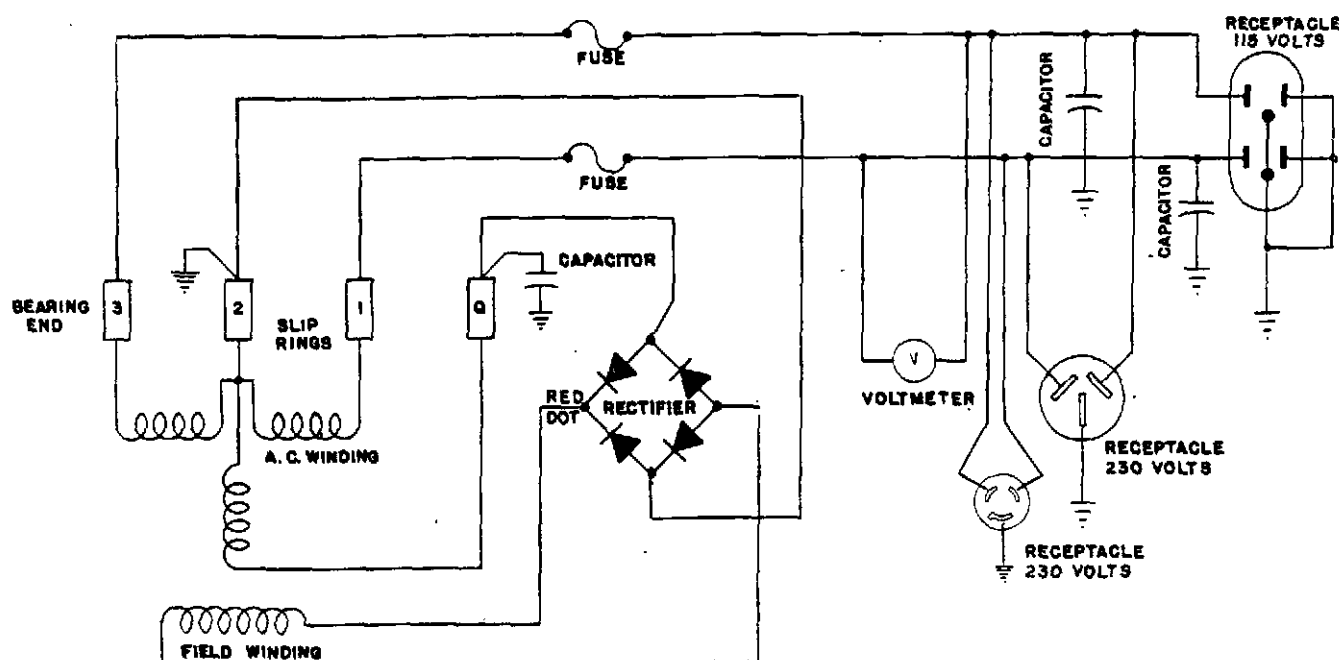


Manufactured by

WINCO

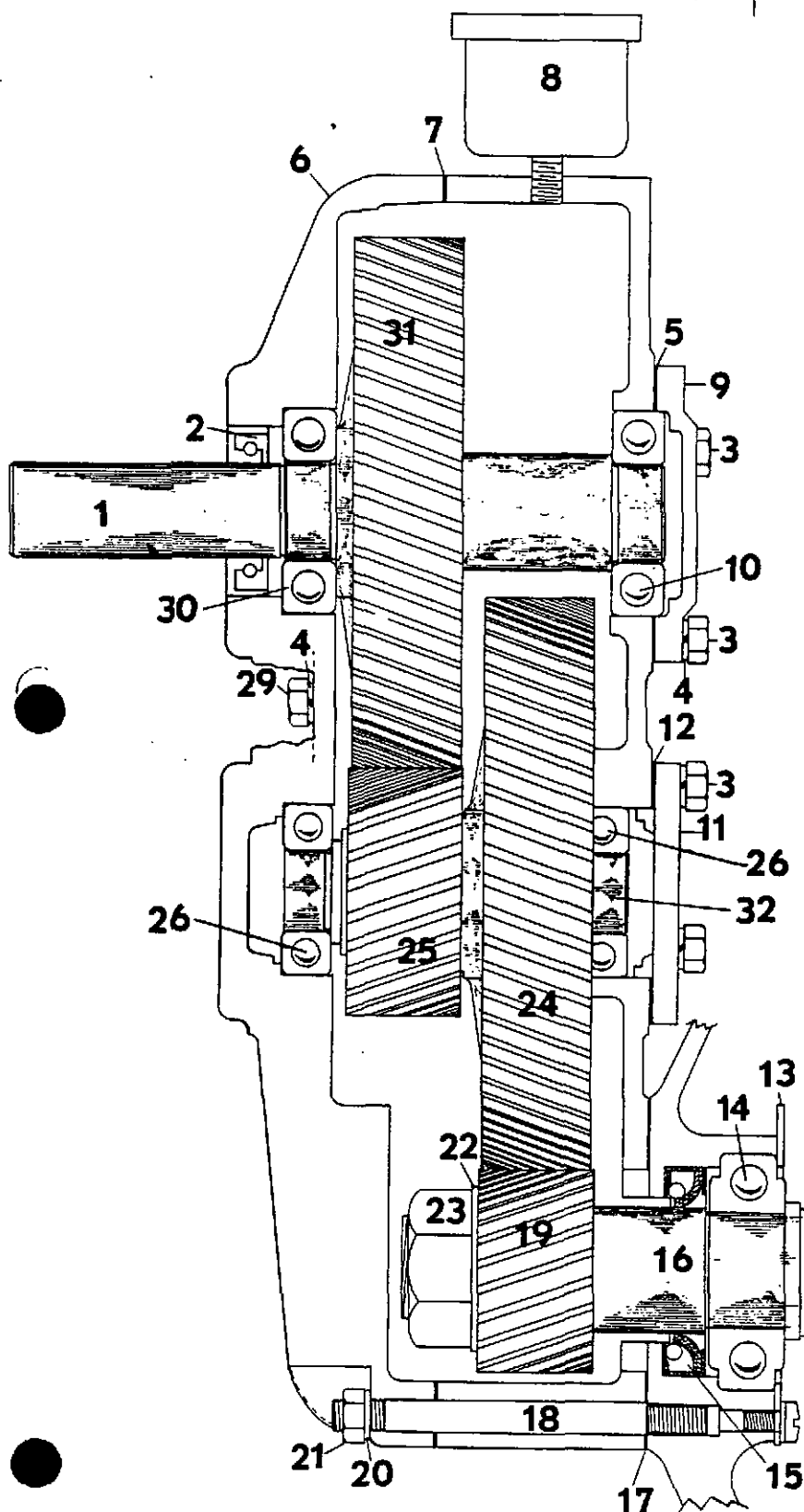
Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	51101	Field Sh. cap screw	4	31	52559	Brush holder spacer	2
2	480	Field Shell lockwasher	4	32	44342	Machine screw	4
3	20137	Sleeve	1	33	24981	A.C. Brush	12
4	54804	End Bracket	1	34	41387-6	Ground strap	1
5	46912	Oil Seal	1	35	41221	Condenser	1
6	46913	Bearing	1	36	54734	Field shell & Bracket	1
7	44318	Bearing Retain. Plate	1	37	54754	Base assembly	1
8	479	Bear. Ret. L-washer	3	38	48178	Hex head screw	2
9	45633	Bear. Ret. Screw	3	39	636	Lockwasher (split type)	2
10	52497-1	Armature	1	40	40746	Brush holder screw	28
11	43473	Pole shoe assembly	2	41	4637	Machine screw	4
12	43474	Pole shoe retainer	2	42	484	Lockwasher	4
13	52563	Field coil assembly	1	43	456	Hex Nut	4
14	52563-1	Field coil assembly	1	44	40552	Lockwasher (fan)	1
15	50215	Bearing	1	45	23404	Fan assembly	1
18	54790	Eye bolt	1	46	21867	Flat washer (fan)	1
19	1744	Nut	3	47	20039	L-washer (fan) split type	1
20	5113	Hex nut	9	48	9549	Hex nut (fan)	1
21	6376	Lockwasher (split type)	9	49	23634	End Cover	1
22	23599	Machine screw	1	50	54756	Control box (only)	1
23	21977	Machine screw	4	51	52490	Voltmeter	1
24	23500	Brush holders	2	52	57325	Receptacle	1
25	53949	Q ring brush	2	53	24749	Duplex receptacle	1
26	53976	Rectifier	1	54	41221	Condensers	2
27	53806	Cap screw	8	55	54773	Fuse base	1
28	23532	Fiber spacers	14	56	57410	Fuse	2
29	23500-2	A.C. brush holders	12	57	43743	Ground Lug	1
30	53975	Brush holder mtg. plate	6	58	55278	Receptacle	1

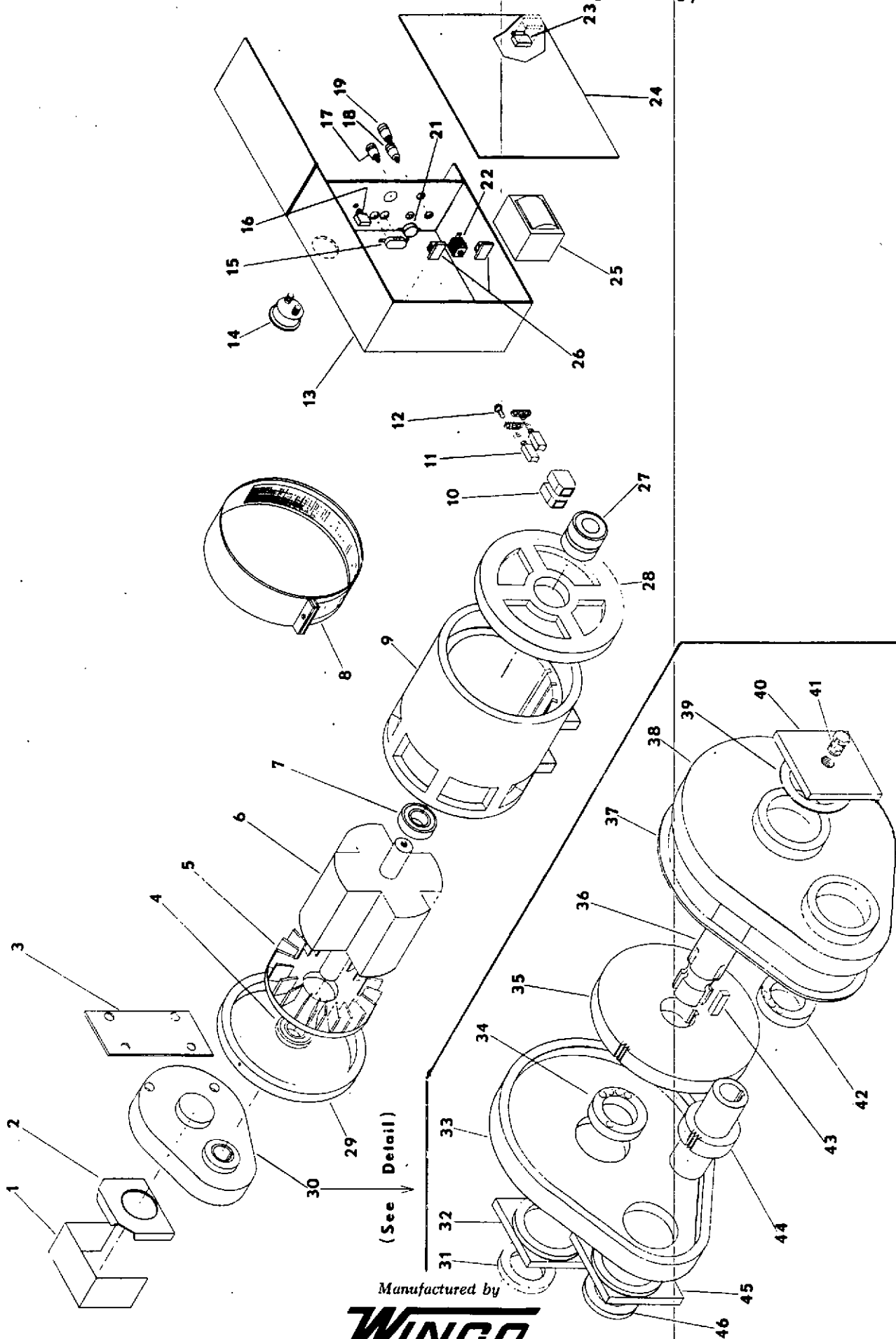
GEAR CASE FOR TRACTOR DRIVEN PTO GENERATORS MODELS ENDING IN C & D



Ref. No.	Part No.	DESCRIPTION	Quantity
1	46296	Shaft	1
2	20029	Oil Seal	1
3	465	Cap Screw 5/16 - 18 x 7/8	10
4	480	Lockwasher 5/16"	18
5	46299	Gasket	1
6	54662	Gear Case & Cover	1
7	20016	Gasket	1
8	40716	Breather	1
9	46295	Bearing Retainer	1
10	54666	Bearing	1
11	46286	Bearing Retainer	1
12	46298	Gasket	1
13	44318	Retainer Plate	1
14	46913	Bearing	1
15	46912	Oil Seal	1
16	20137	Bushing	1
17	20136	Gasket	1
18	20017	Stud	3
19	46545	Pinion	1
20	630	Lockwasher	3
21	459	Hex Nut 3/8"	3
22	20139	Lockwasher	1
23	20160	Hex Jam Nut	1
24	46546	Gear	1
25	46547	Pinion	1
26	54665	Bearing	2
29	580	Cap Screw 5/16 - 18 x 1 1/4	12
30	54666	Bearing	1
31	46548	Gear	1
32	20128	Shaft	1
*	40965	1 Qt. Gear Oil	1
*	1774	Woodruff Key #15 (1/4 x 1")	4

* Not shown on drawing.

WINCO GENERATOR PLANT Model 25PTOC-3/A

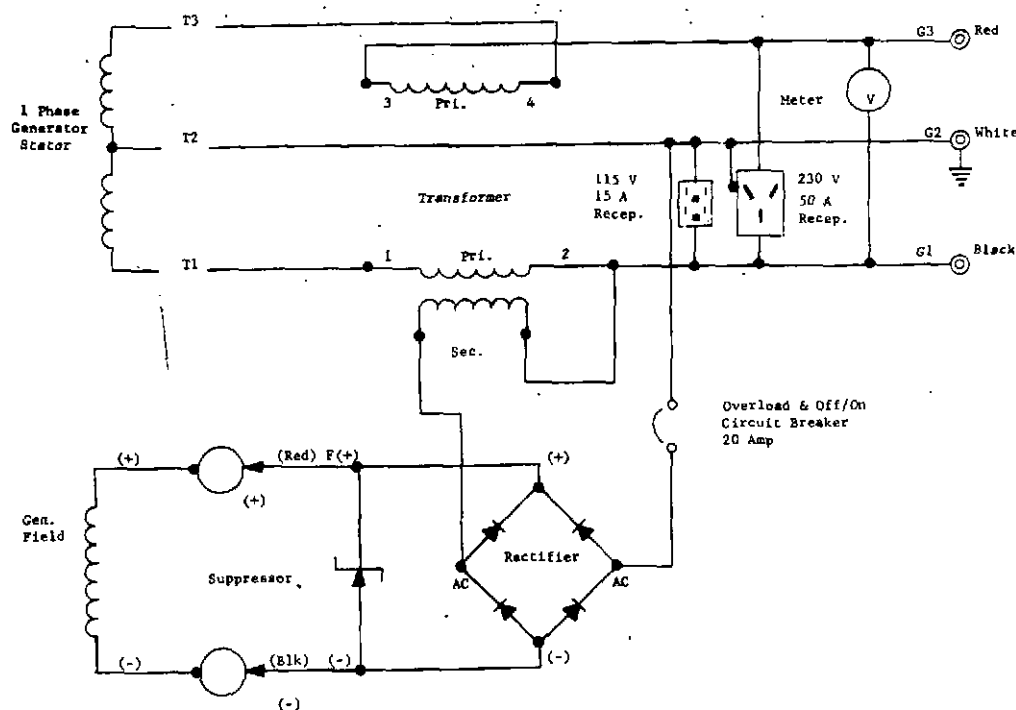


Manufactured by

WINCO

Division of Dyna Technology, Inc.

East Seventh at Division / P. O. Box 3263 / Phone (712) 252-1821 / SIOUX CITY, IOWA 51102



PARTS LIST

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	80708	Safety Shroud	1	25	80761	Current trans.	1
2	80707	Shroud mtg. brkt.	1	26	80760	Field rectifier	2
3	80674	Gearbox support plate	1	27	80820	Collector ring assy.	1
4	80809	Bearing assy.	1	28	80821	End bell (exciter end)	1
5	80810	Fan assy less hub	1	29	80822	End Bell (drive end)	1
6	80812	Rotor assy - one phase	1	30	80690	Gear box assy	1
7	80814	Bearing assy	1	31	80823	Oil seal	1
8	80815	Fan shroud & screen assy.	1	32	80824	End plate	1
9	80816	Stator assy - one phase	1	33	80825	Case half (F)	1
10	23500-2	Brush holder	4	34	80826	Bearing & Cone assy.	2
11	24981	Brush assy.	4	35	80827	Drive gear	1
12	40746	Machine screw	8	36	80828	Drive shaft	1
13	80818	Control box assy	1	37	80829	Case gasket	1
14	52490	Voltmeter	1	38	80830	Case half (R)	1
15	24749	Duplex receptacle	1	39	80831	End plate gasket 4 or & shim as req.	1
16	30762	Field Circuit breaker	1	40	80832	End plate	1
17	80715-2	Receptacle (bl.)	1	41	80833	Case vent plug	1
18	80721-1	Receptacle (wht)	1	42	80834	Bearing & cone assy.	2
19	80715-1	Receptacle (red)	1	43	80835	Key	1
21	48343	Receptacle 230 V	1	44	80836	Driven gear & shaft assy.	1
22	80759	Voltage surge suppressor	1	45	80837	End plate	2
23	80720	Magnetic latch	2	46	80838	Oil seal	2
24	80819	Control box cover	1	47	80839	Key	1

Wiring Diagram B91322

Complete Unit
Part #

D91233

REPAIR
PARTS LIST
#574

Size 30,000 Watts

Unit
Model # 30PTOC-3/A

DESCRIPTION

PART #

QTY.

Rotor Assy. Complete
Rotor Bearing
Fan End
Rotor Bearing
Brush End
Fan
Stator Assy.

91237

1

91112

1

91111

1

91101

1

91231

1

Brush
Brush Holder
Rectifier
Circuit Breaker
Transformer
Voltmeter

23607

4

23500

4

91452

1

57212-2

1

91187

1

52490

1

Receptacle - Pin - Black
Receptacle - Pin - White
Receptacle (115)
Receptacle (50A)

80715-2

2

80721-1

1

24749

1

57325

1

Plug - Pin - Black
Plug - Pin - White
Plug (50A)
Allen Wrench

80715-12

2

80721-11

1

58230

1

55002-2

1

Seal
Gear
Pinion
Gasket
Seal
Bearing
Shaft
Vent Plug

91247

1

91225

1

91118

1

91104

1

91116

1

91250-2

2

91223

1

40716

1

Wiring Diagram B91322

Complete Unit
Part #

D91233

REPAIR
PARTS LIST
#575

Size 30,000 Watts

Unit
Model # 30PTOC-3/B

DESCRIPTION

PART #

QTY.

Rotor Assy. Complete
Rotor Bearing
Fan End
Rotor Bearing
Brush End
Fan
Stator Assy.

91237

1

Brush
Brush Holder
Rectifier
Circuit Breaker
Transformer
Voltmeter

91112

1

91111

1

91101

1

91231

1

23607

4

23500

4

91452

1

57212-2

1

91187

1

91370

1

Receptacle (Octopus)
Receptacle (115)
Receptacle (50A)

91333

1

24749

1

57325

1

Plug (Octopus)
Plug (50A)
Allen Wrench

91334

1

58230

1

55002-2

1

Seal
Gear
Pinion
Gasket
Seal
Bearing
Shaft
Vent Plug

91247

1

91225

1

91118

1

91104

1

91116

1

91250-2

2

91223

1

40716

1

Wiring Diagram B91323

Complete Unit
Part #

D91276-8

REPAIR
PARTS LIST
#576

Size 35,000 Watts

Unit
Model # 35PTOC-4/A

DESCRIPTION

PART #

QTY.

Rotor Assy. Complete

91237

1

Rotor Bearing

Fan End

91112

1

Rotor Bearing

Brush End

91111

1

Fan

91101

1

Stator Assy.

91148-2

1

Brush

23607

4

Brush Holder

23500

4

Rectifier

91452

1

Circuit Breaker

81095-5

1

Transformer

91187-1

1

Voltmeter

91374

1

Receptacle (Octopus)

91353

1

Receptacle (115)

24749

1

Receptacle (50A)

57325

1

Plug (Octopus)

91352

1

Plug (50A)

58230

1

Allen Wrench

55002-2

1

Seal

91247

1

Gear

91225

1

Pinion

91118

1

Gasket

91104

1

Seal

91116

1

Bearing

91250-2

1

Shaft

91223

1

Vent Plug

40716

1

Wiring Diagram B91323

Complete Unit
Part #

D91276

REPAIR
PARTS LIST
#577

Size 35,000 Watts

Unit
Model # 35PTOC-17/A

DESCRIPTION

PART #

QTY.

Rotor Assy. Complete
Rotor Bearing
Fan End
Rotor Bearing
Brush End
Fan
Stator Assy.

91237
91112
91111
91101
91148-1

1
1
1
1
1

Brush
Brush Holder
Rectifier
Circuit Breaker
Transformer
Voltmeter

23607
23500
91452
81095-5
91187-1
91370

4
4
1
1
1
1

Receptacle {Octopus}
Receptacle {115}
Receptacle {50A}

91353
24749
57325

1
1
1

Plug {Octopus}
Plug {50A}
Allen Wrench

91352
58230
55002-2

1
1
1

Seal
Gear
Pinion
Gasket
Seal
Bearing
Shaft
Vent Plug

91247
91225
91118
91104
91116
91250-2
91223
40716

1
1
1
1
1
1
1
1