

PARTS AND OPERATION MANUAL

Table of Contents

MQ POWER DCA-125SSJU DCA-125SSJU2 PORTABLE GENERATOR (Standard)

© COPYRIGHT 2001, MULTQUIP INC.

PARTS LIST NO. M3870300174
S/N UP TO 7500507-125SSJU
S/N FROM 7500508-125SSJU2

Revision #2 (05/04/01)



MULTQUIP INC.
18910 WILMINGTON AVE.
CARSON, CALIFORNIA 90746
310-537-3700
800-421-1244
FAX: 310-537-3927
E-mail: mq@multiquip.com

PARTS DEPARTMENT:
800-427-1244
FAX: 800-672-7877

SERVICE DEPARTMENT:
800-835-2551
FAX: 310-638-8046
www.multiquip.com



WARNING



CALIFORNIA — Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

HERE'S HOW TO GET HELP

*PLEASE HAVE THE MODEL AND SERIAL NUMBER
ON-HAND WHEN CALLING*

PARTS DEPARTMENT

800/427-1244 or 310/537-3700

FAX: 800/672-7877 or 310/637-3284

SERVICE DEPARTMENT

800/835-2551 or 310/537-3700

FAX: 310/638-8046

WARRANTY DEPARTMENT

800/835-2551 or 310/537-3700

FAX: 310/638-8046

MAIN

800/421-1244 or 310/537-3700

FAX: 310/537-3927

Here's How To Get Help	3
Table Of Contents	4
Parts Ordering Procedures	5
Rules for Safe Operation	6-9
Towing and Transportation	10
Trailer Safety Guidelines	11-17
Trailer Wiring Diagram	18
Electric Brake Troubleshooting	19
Hydraulic Brake Troubleshooting	20
Operation Decals	21-22
DCA 125SSJU Specifications	23

MQ POWER DCA-125SSJU AC GENERATOR

General Information	24
Major Components	25
Dimensions	26
Control Panel Descriptions	28-29
Engine Operating Panel w/key	30-31
Engine Operating Panel w/MPEC	32-33
Output Terminal Panel Overview	34-41
Installation	42-43
Pre Setup	44-47
Load Application	48
Generator Start-up Procedure (Manual)	49-51
Generator Start-up Procedure (Auto)	52
Generator Shutdown Procedure	53
Maintenance	54-55
Engine Troubleshooting	56-57
Generator/Engine Troubleshooting	58
MPEC Troubleshooting	59
Explanation of Codes in Remarks Column	60
Suggested Spare Parts	61

Generator Assembly	62-63
Control Box Assembly	64-67
Engine & Radiator Assembly	68-71
Engine Operating Panel Assembly	72-73
Output Terminal Assembly	74-75
Battery Assembly	76-77
Muffler Assembly	78-79
Fuel Tank Assembly	80-81
Enclosure Assembly	82-83
Rubber Seal Assembly	84-87
Name Plate And Decals	88-89

Terms and Condition of Sale — Parts	90
---	----

NOTE

*Specification and part number
are subject to change without
notice.*

PARTS ORDERING PROCEDURES

- Dealer account number
- Dealer name and address
- Shipping address (if different than billing address)
- Return fax number
- Applicable model number
- Quantity, part number and description of each part
- Specify preferred method of shipment:
 - UPS Ground
 - UPS Second Day or Third Day*
 - UPS Next Day*
 - Federal Express Priority One (please provide us with your Federal Express account number)*
 - Airborne Express*
 - Truck or parcel post

**Normally shipped the same day the order is received, if prior to 2PM west coast time.*

Earn Extra Discounts when you order by FAX!

All parts orders which include complete part numbers and are received by fax qualify for the following extra discounts:

<u>Number of line items ordered</u>	<u>Additional Discount</u>
1-9 items	3%
10+ items**	5%

Get special freight allowances when you order 10 or more line items via FAX!**

- UPS Ground Service at no charge for freight
- PS Third Day Service at one-half of actual freight cost

No other allowances on freight shipped by any other carrier.

**Common nuts, bolts and washers (all items under \$1.00 list price) do not count towards the 10+ line items.

DISCOUNTS ARE SUBJECT TO CHANGE

Fax order discount and UPS special programs revised June 1, 1995

**Extra Fax Discount
for Domestic USA
Dealers Only**

**Up to 5%
extra savings!**

**UPS
Special**
For faxed orders only

**Now! Direct TOLL-FREE access
to our Parts Department!**

Toll-free nationwide:

800-421-1244

Toll-free FAX:

800/6-PARTS-7 • 800-672-7877

RULES FOR SAFE OPERATION

CAUTION:



Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating the DCA-125SSJU portable generator:

GENERAL SAFETY

- **DO NOT** operate or service this equipment before reading this entire manual.



- This equipment should not be operated by persons under 18 years of age.



- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.

- **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.



- **NEVER** operate this equipment under the influence of drugs or alcohol.



- **NEVER** use accessories or attachments, which are not recommended by MQ Power for this equipment. Damage to the equipment and/or injury to user may result.

- Manufacturer does not assume responsibility for any accident due to equipment modifications.

- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.

- Always check the machine for loosened threads or bolts before starting.

- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or generator.



- **High Temperatures** – Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with *hot* components can cause serious burns.

- The engine of this generator requires an adequate free flow of cooling air. Never operate the generator in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the generator or engine and may cause injury to people. The generator engine gives off **DEADLY** carbon monoxide gas.

CAUTION:



- Always refuel in a well-ventilated area, away from sparks and open flames.

- Always use extreme caution when working with **flammable** liquids. When refueling, **stop the engine** and allow it to cool. **DO NOT smoke** around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.

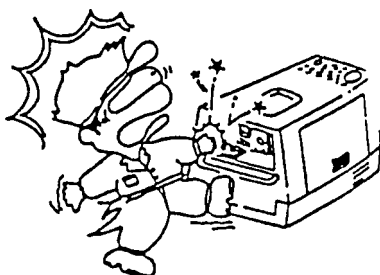
- **NEVER** operate the generator in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe *bodily harm or even death*.

- Topping-off to filler port is dangerous, as it tends to spill fuel.



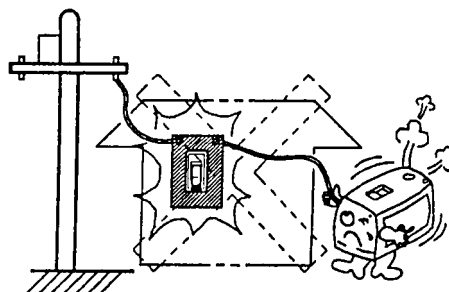
RULES FOR SAFE OPERATION

CAUTION:



- **NEVER** touch output terminals during operation. This is extremely dangerous. Always stop the machine when contact with the output terminals is required.

CAUTION:



- **Backfeed** to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is opened.

CAUTION:



- **Never** use damaged or worn cables when connecting power tools or equipment to the generator. Make sure power connecting cables are securely connected to the generator's output terminals, insufficient tightening of the terminal connections may cause damage to the generator and electrical shock.

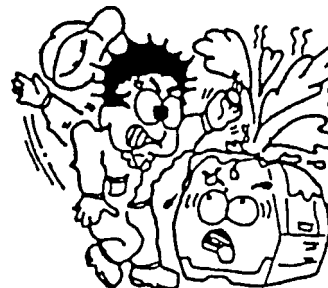
CAUTION:



DO NOT touch or open any of the below mentioned components while the generator is running. Always allow sufficient time for the engine and generator to cool before performing maintenance.

Radiator

1. **Radiator Cap** - Removing the radiator cap while the engine is hot will result in high pressurized, boiling water to gush out of the radiator, causing severe scalding to any persons in the general area of the generator.



2. **Coolant Drain Plug** - Removing the coolant drain plug while the engine is hot will result in hot coolant to gush out of the coolant drain plug, therefore causing severe scalding to any persons in the general area of the generator.
3. **Engine Oil Drain Plug** - Removing the engine oil drain plug while the engine is hot will result in hot oil to gush out of the oil drain plug, therefore causing severe scalding to any persons in the general area of the generator.

RULES FOR SAFE OPERATION

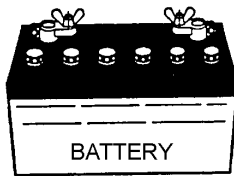
Battery

CAUTION:



Never over fill the battery with water above the upper limit.

The battery contains acids that can cause injury to the eyes and skin. To avoid eye irritation, always wear safety glasses. Use well insulated gloves when picking up the battery. Use the following guidelines when handling the battery:



1. **DO NOT** drop the battery. There is the possibility of risk that the battery may explode.
2. **DO NOT** expose the battery to open flames, sparks, cigarettes etc. The battery contains combustible gases and liquids. If these gases and liquids come in contact with a flame or spark, an explosion could occur.
3. Always keep the battery charged. If the battery is not charged a buildup of combustible gas will occur.
4. Always keep battery charging and booster cables in good working condition. Repair or replace all worn cables.
5. Always recharge the battery in an open air environment, to avoid risk of a dangerous concentration of combustible gases.
6. In case the battery liquid (dilute sulfuric acid) comes in contact with **clothing or skin**, rinse skin or clothing immediately with plenty of water.
7. In case the battery liquid (dilute sulfuric acid) comes in contact with your **eyes**, rinse eyes immediately with plenty of water, then contact the nearest doctor or hospital, and seek medical attention.

- **NEVER** Run engine without air filter. Severe engine damage may occur.
- Always service air cleaner frequently to prevent carburetor malfunction.
- Always disconnect the battery before performing service on the generator.
- Always be sure the operator is familiar with proper safety precautions and operations techniques before using generator.
- Always store equipment properly when not in use. Equipment should be stored in a clean, dry location out of the reach of children.
- **DO NOT** leave the generator running in the manual mode unattended.
- **DO NOT** allow unauthorized people to operate this equipment.
- Always read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.
- Refer to the ***John Deere Engine Owner's Manual*** for engine technical questions or information.

Loading and Unloading (Crane)

- Before lifting, make sure the generator's lifting hook is secure and that there is no apparent damage to the generator itself (loose screws, nuts and bolts). If any part is loose or damaged, please take corrective action before lifting.
- Always drain fuel prior to lifting.
- Always make sure crane or lifting device has been properly secured to the hook of guard frame on generator.
- **NEVER** lift the machine while the engine is running.
- Use adequate lifting cable (wire or rope) of sufficient strength.
- When lifting the generator, always use the balanced center-point suspension hook and lift straight upwards.
- **NEVER** allow any person or animal to stand underneath the machine while lifting.
- When loading the generator on a truck, be sure to use the front and back frame bars as a means to secure the generator during transport.

RULES FOR SAFE OPERATION

Transporting

- Always shutdown engine before transporting.
- Tighten fuel tank cap securely.
- Drain fuel when transporting generator over long distances or bad roads.
- Always tie-down the generator during transportation by securing the generator.
- If generator is mounted on a trailer, make sure trailer complies with all local and state safety transportation laws. See page 10 for basic towing procedures.

Emergencies

- Always know the location of the nearest **fire extinguisher** and **first aid kit**. Know the location of the nearest telephone. Also know the phone numbers of the nearest **ambulance**, **doctor** and **fire department**.

Maintenance Safety

- **NEVER** lubricate components or attempt service on a running machine.
- Always allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in proper running condition.
- Fix damage to the machine immediately and always replace broken parts.
- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, coolant, fuel, and fuel filters.
- **DO NOT** use plastic containers to dispose of hazardous waste.
- **DO NOT** pour waste, oil, coolant or fuel directly onto the ground, down a drain or into any water source.

DCA-125SSJU — TOWING RULES FOR SAFE OPERATION

Towing Safety Precautions

CAUTION :



Check with your county or state safety towing regulations department before towing your generator.

To reduce the possibility of an accident while transporting the generator on public roads, always make sure the trailer (Figure 1) that supports the generator and the towing vehicle are in good operating condition and both units are mechanically sound.

The following list of suggestions should be used when towing your generator:

- Make sure the hitch and coupling of the towing vehicle are rated equal to, or greater than the trailer "gross vehicle weight rating" (GVWR).
- **ALWAYS** inspect the hitch and coupling for wear. **NEVER** tow a trailer with defective hitches, couplings, chains etc.
- Check the tire air pressure on both towing vehicle and trailer. Also check the tire tread wear on both vehicles.
- **ALWAYS** make sure the trailer is equipped with a "Safety Chain".
- **ALWAYS** attach trailer's safety chain to bumper of towing vehicle.
- **ALWAYS** make sure the vehicle and trailer directional, backup, brake, and trailer lights are connected and working properly.
- The maximum speed for highway towing is **45 MPH** unless posted otherwise. Recommended off-road towing is not to exceed **10 MPH** or less depending on type of terrain.
- Place *chocked blocks* underneath wheel to prevent **rolling**, while parked.
- Place *support blocks* underneath the trailer's bumper to prevent **tipping**, while parked.
- Use the trailer's hand winch to adjust the height of the trailer, then insert locking pin to lock wheel stand in place, while parked.
- Avoid sudden stops and starts. This can cause skidding, or jack-knifing. Smooth, gradual starts and stops will improve gas mileage.
- Avoid sharp turns to prevent rolling.
- Remove wheel stand when transporting.
- **DO NOT** transport generator with fuel in tank.

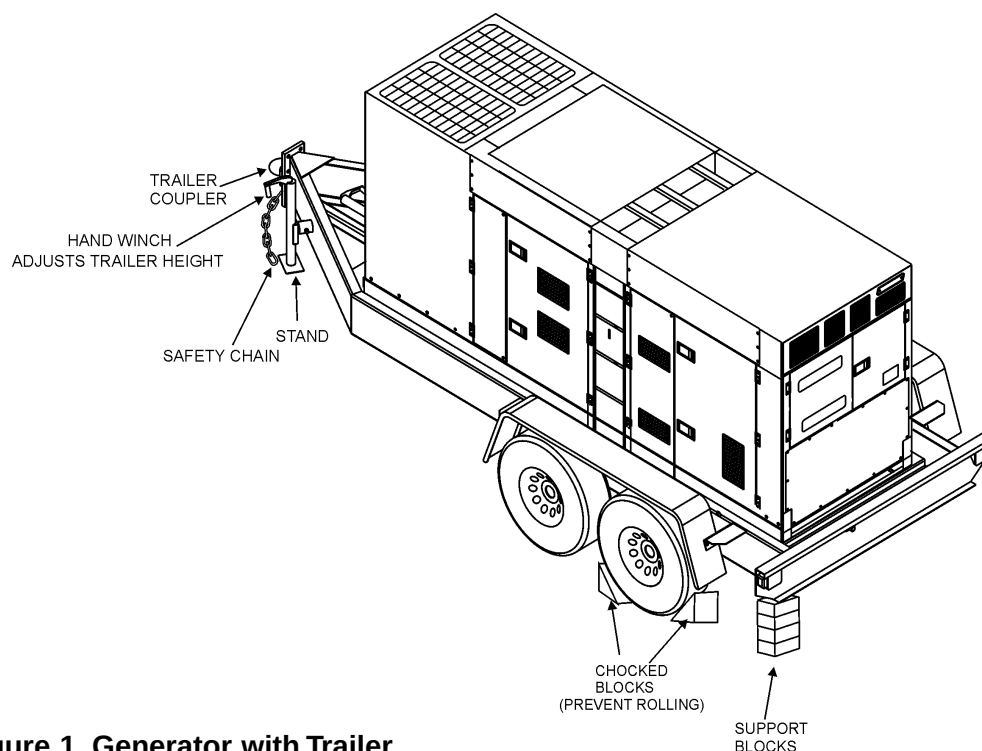


Figure 1. Generator with Trailer

DCA-125SSJU —TRAILER-SAFETY GUIDELINES

CAUTION:

ALWAYS make sure the trailer is in good operating condition. Check the tires for proper inflation and wear. Also check the wheel lug nuts for proper tightness.

Explanation of Chart:

This section is intended to provide the user with trailer service and maintenance information. The service and maintenance guidelines referenced in this section apply a wide range of trailers. Remember periodic inspection of the trailer will ensure safe towing of the equipment and will prevent damage to the equipment and personal injury.

It is the purpose of this section to cover the major maintenance components of the trailer. The following trailer components will be discussed in this section:

- Brakes
- Tires
- Lug Nut Torquing
- Suspension
- Electrical
- Brake Troubleshooting Tables

Use the following definitions with reading Table 1.

1. **Fuel Cell** - Provides an adequate amount of fuel for the equipment in use. Fuel cells must be empty when transporting equipment.
2. **Braking System** - System employed in stopping the trailer. Typical braking systems are electric, surge, hydraulic, hydraulic-surge and air.
3. **GVWR**- Gross Vehicle Weight Rating (GVWR), is the maximum number of pounds the trailer can carry, including the fuel cell (empty).
4. **Frame Length** - This measurement is from the ball hitch to the rear bumper (reflector).
5. **Frame Width** - This measurement is from fender to fender.
6. **Jack Stand** - Trailer support device with maximum pound requirement from the tongue of the trailer.
7. **Coupler** - Type of hitch used on the trailer for towing.
8. **Tire Size** - Indicates the diameter of the tire in inches (10,12,14, etc.), and the width in millimeters (175,185,205, etc.). The tire diameter must match the diameter of the tire rim.
9. **Tire Ply** - The tire ply (layers) number is rated in letters; 2-ply,4-ply,6-ply, etc.
10. **Wheel Hub** - The wheel hub is connected to the trailer's axle.
11. **Tire Rim** - Tires mounted on a tire rim. The tire rim must match the size of the tire.
12. **Lug Nuts** - Used to secure the wheel to the wheel hub. Always use a torque wrench to tighten down the lug nuts. See Table 4 and Figure 5 for lug nut tightening and sequence.
13. **Axle** - Indicates the maximum weight the axle can support in pounds, and the diameter of the axle expressed in inches (see Table 3). Please note that some trailers have a double axle. This will be shown as 2-6000 lbs., meaning two axles with a total weight capacity of 6000 pounds.
14. **Suspension** - Protects the trailer chassis from shocks transmitted through the wheels. Types of suspension used are leaf, Q-flex, and air ride.
15. **Electrical** - Electrical connectors (looms) are provided with the trailer so the brake lights and turn signals can be connected to the towing vehicle. See page 16 for proper wiring connections.
16. **Application** - Indicates which units can be employed on a particular trailer.

DCA-125SSJU —TRAILER-SPECIFICATIONS

Table 1. Specifications

MODEL	APPLICATION	FUEL CELL	BRAKE SYSTEM	GVWR	FRAME LENGTH	FRAME WIDTH	JACK STAND
TRLR-10-15	TLG-12, DCA15, TLW-300	NO	NO	1900LBS	96"	50"	800LB. FULL TILT WHEEL
TRLR-10X	TLG-12, DCA15, TLW-300	NO	NO	1900LBS	96"	50"	800LB. FULL TILT WHEEL
TRLR-10XF	TLG-12, DCA15, TLW-300	51 GAL	NO	1900LBS	96"	50"	800LB. FULL TILT WHEEL
TRLR-225W	DCA-10	NO	NO	2200LBS	85"	42"	800LB. FULL TILT WHEEL
BLW-400	BLW-400	NO	ELECTRIC	2700LBS	W/MAST 154" W/O 124"	55" (78" TALL)	800LB. FULL TILT WHEEL
TRLR-15XF	DCA-15	41 GAL	NO	2700LBS	124"	55"	800LB. FULL TILT WHEEL
TRLR-50X	DCA-25	NO	NO	2700LBS	124"	55"	800LB. FULL TILT WHEEL
TRLR-50XF	DCA-25	41 GAL	NO	2700LBS	124"	55"	800LB. FULL TILT WHEEL
TRLR-25SBT	DCA-25	NO	NO	2990LBS	120"	66"	800LB. FULL TILT WHEEL
TRLR-70W	DCA-45, -60, 70	NO	SURGE	7000LBS	186"	77"	2000LB. FLAT PAD
TRLR-70X	DCA-45, -60, 70	OPT	SURGE	7000LBS	138"	66"	2000LB. FLAT PAD
TRLR-70XF	DCA-45, -60, 70	53 GAL	SURGE	7000LBS	138"	66"	2000LB. FLAT PAD
TRLR-100XF	DCA-100, 125	150 GAL	HYDRAULIC SURGE	7000LBS	190"	76"	2000LB. FLAT PAD
TRLR-85/125	DCA-85, 100, 125	145 GAL	HYDRAULIC	10000LBS	186"	77"	2000LB. FLAT PAD
TRLR-150XF	DCA-150, 180	200 GAL	HYDRAULIC SURGE	11160LBS	204"	84"	5000 LB. FLAT PAD
TRLR-220XF	DCA-220	250 GAL	HYDRAULIC SURGE	14000LBS	222"	83"	5000 LB. FLAT PAD
TRLR-300XF	DCA-300	250 GAL	HYDRAULIC SURGE	18000LBS	238"	83"	5000 LB. FLAT PAD
TRLR-400XF	DCA-400	350 GAL	ELECTRIC	18000LBS	238"	83"	5000 LB. FLAT PAD
TRLR-600XF	DCA-600, 800	550 GAL	AIR	30000LBS	384"	96"	5000 LB. FLAT PAD
TRLR-800SX	DCA-600, 800	550 GAL	AIR	30000LBS	384"	96"	5000 LB. FLAT PAD

DCA-125SSJU —TRAILER-SPECIFICATIONS

Table 1. Specifications (Con't)

MODEL	COUPLER	TIRES	WHEELS	AXLE	HUBS	SUSPENSION	ELECTRICAL
TRLR-10-15W	2" BALL CLASS 2 ADJUSTABLE	175-13C	13"X4.50"	2200# 2X2	5 LUG	3 LEAF	4 WIRE LOOM W/ 4 POLE FLAT
TRLR-10X	2" BALL CLASS 2 ADJUSTABLE	175-13C	13"X4.5"	2200#2X2	5 LUG	3 LEAF	4 POLE FLAT
TRLR-10XF	2" BALL CLASS 2 ADJUSTABLE	175-13C	13"X4.5"	2200#2X2	5 LUG	3 LEAF	4 POLE FLAT
TRLR-225W	2" BALL CLASS 2 ADJUSTABLE	175-13B	13X4.5"	2200#2X2	5 LUG	Q FLEX	4 POLE FLAT
BLW 400	2" BALL CLASS 2 ADJUSTABLE	175-13C	13 X 4.5"	2200#2X2	5 LUG	3 LEAF	4 POLE FLAT
TRLR-15XF	2" BALL CLASS	B78-13LRC	13"X4.50"	3500# 2-1/2"	5 LUG	4 LEAF	4 POLE RUBBER FLAT
TRLR-50X	2" BALL CLASS	B78-13LRC	13"X4.50"	3500lbs. 2-3/8"	5 LUG	4 LEAF	4 POLE RUBBER FLAT
TRLR-50XF	2" BALL CLASS	B78-13LRC	13"X4.50"	3500lbs. 2-3/8"	5 LUG	4 LEAF	4 POLE RUBBER FLAT
TRLR-70W	2" BALL CLASS 3" ADJUSTABLE	205-14C BIAS (4)	14"X5"	3500lbs. 3"	5 LUG	5 LEAF	4 POLE RUBBER FLAT
TRLR-70X	2" BALL CLASS 3" ADJUSTABLE	205-14C BIAS (4)	14"X5"	3500lbs 3"	5 LUG	5 LEAF	4 POLE RUBBER FLAT
TRLR-70XF	2" BALL CLASS 3" ADJUSTABLE	205-14C BIAS (4)	14"X5"	3500lbs. 3"	5 LUG	5 LEAF	4 POLE RUBBER FLAT
TRLR-100XF	ADJUSTABLE 2-5/6 OPT 3" EYE	205-15C BIAS (4)	14"X5.5"	3500lbs 3"	5 LUG	5 LEAF	4 WIRE LOOM
TRLR-85/125	ADJUSTABLE 2-5/6 OPT 3" EYE	ST225/75R15D RADIAL (4)	14"x6"	(2)-6000lbs	6 LUG	7 LEAF	4 WIRE LOOM
TRLR-150XF	3" BALL EYE	750-16 E BIAS (4)	16"X7"	(2)-6000lbs	8 LUG	7 LEAF	4 WIRE LOOM
TRLR-220XF	3" EYE ADJUSTABLE	ST235/85R16E RADIAL(4)	16"X7"	(2)-7000lbs	8 LUG	Q FLEX	4 WIRE LOOM
TRLR-300XF	3" EYE ADJUSTABLE	ST235/85R16E RADIAL(6)	16"X7"	(2)-6000lbs	8 LUG	Q FLEX	4 WIRE LOOM
TRLR-400XF	3" EYE ADJUSTABLE	ST235/85R16E RADIAL(6)	16"X7"	(3)-7000lbs.	8 LUG	Q FLEX	4 WIRE LOOM
TRLR-600XF	5TH WHEEL	ST215/75R17.5H RADIAL (8)	16"X7"	(3)-10000lbs	8 LUG	7 LEAF	6 WIRE LOOM
TRLR-800AR	5TH WHEEL	ST215/75R17.5H RADIAL (8)	16"X7"	(3)-10000lbs	8 LUG	AIR-RIDE	6 WIRE LOOM

DCA-125SSJU —TRAILER SAFETY GUIDELINES

Brakes

If your trailer has a braking system, the brakes should be inspected the first 200 miles of operation. This will allow the brake shoes and drums to seat properly. After the first 200 mile interval, inspect the brakes every 3,000 miles. If driving over rough terrain, inspect the brakes more frequently.

Electric Brakes

Electrically actuated brakes (Figure 2) are similar to hydraulic brakes. The basic difference is that hydraulic brakes are actuated by an electromagnet.

Listed below are some of the advantages that electric brakes have over hydraulic brakes:

- Brake system can be manually adjusted to provide the corrected braking capability for varying road and load conditions.
- Brake system can be modulated to provide more or less braking force, thus easing the brake load on the towing vehicle.
- Brake system has very little lag time between the time the vehicle's brakes are actuated and the trailer's brakes are actuated.
- Brake system can provide an independent emergency brake system.

Road testing is necessary in order to properly synchronize the towing vehicle's braking to the trailer's braking. Brake lockup, grabbiness, or harshness is due to lack of synchronization between the tow vehicle and the trailer being towed or under-adjusted brakes.

Before any brake synchronizations adjustments can be made, the trailer brakes should be burnished-in by applying the brakes 20-30 times with approximately a 20 m.p.h. decrease in speed, e.g. 40 m.p.h. to 20 m.p.h.. Allow ample time for brakes to cool between application. This allows the brake shoes to slightly be seated into the brake drum surface.

Figure 2 displays the major electric brake components that will require inspection and maintenance. Please inspect these components as required. Reference Table 5 for electric brake troubleshooting guidelines.

Electric Brake Adjustment

1. Place the trailer on jack stands. Make sure the jack stands are placed on secure level ground.
2. Check the wheel and drum for free rotation.
3. Remove the adjusting hole cover from the adjusting slot at the bottom brake backing plate.
4. With a screwdriver or standard adjusting tool, rotate the star wheel of the adjuster assembly to expand the brake shoes.
5. Adjust the brake shoes outward until the pressure of the lining against the wheel drum makes the wheel difficult to turn.
6. Rotate the star wheel in the opposite direction until the wheel rotates freely with slight lining drag.
7. Replace the adjusting hole cover and lower the trailer to the ground.
8. Repeat steps 1 through 6 on the remaining brakes.

DCA-125SSJU —TRAILER SAFETY GUIDELINES

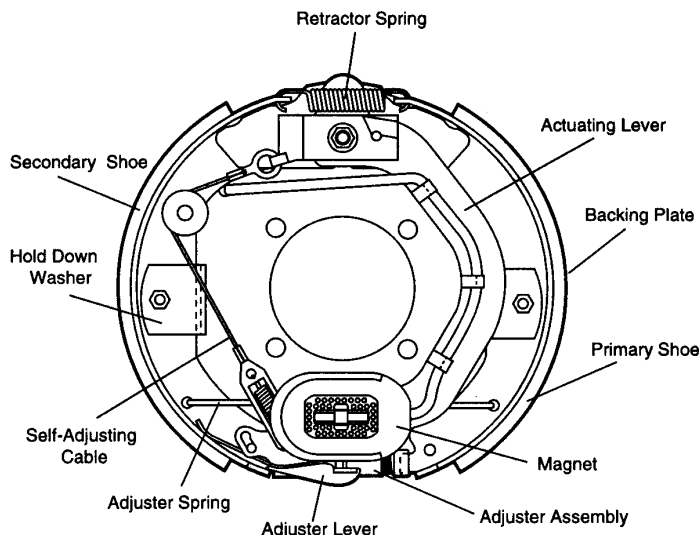


Figure 2. Electrical Brake Components

Hydraulic/Air/Surge Brakes

Hydraulic brakes (Figure 3) should not require any special attention with the exception of routine maintenance such as shoe and lining replacement. These brakes can be adjusted in the same manner as electric brakes. Brake lines should be periodically checked for cracks, kinks, or blockage.

Figure 3 below displays the major hydraulic/air/surge brake components that will require inspection and maintenance. Please inspect these components as required using steps 1 through 6 as referenced in the electric brake adjustments section. Reference Table 6 for hydraulic brake troubleshooting guidelines.

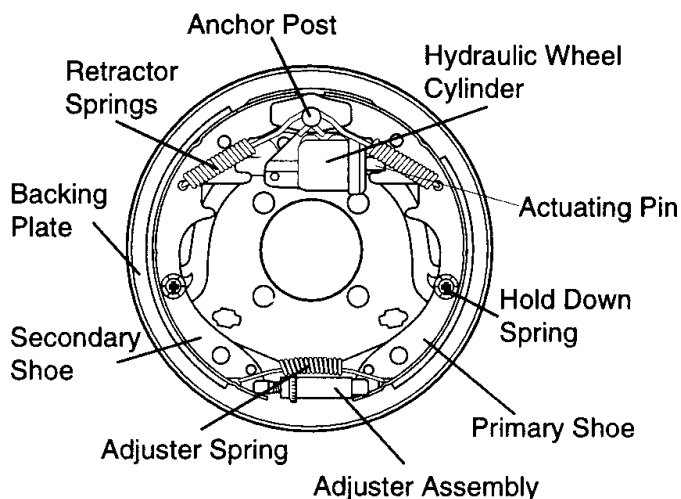


Figure 3. Hydraulic Brake Components

DCA-125SSJU —TRAILER SAFETY GUIDELINES

Tires/Wheels/Lug Nuts

Tires and wheels are a very important and critical components of the trailer. When specifying or replacing the trailer wheels it is important the wheels, tires, and axle are properly matched.

CAUTION:



DO NOT attempt to repair or modify a wheel. DO NOT install an inner tube to correct a leak through the rim. If the rim is cracked, the air pressure in the inner tube may cause pieces of the rim

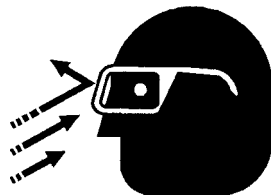
to explode (break off) with great force and cause serious eye or bodily injury.

Tire Wear/Inflation

Tire inflation pressure is the most important factor in tire life. Pressure should be checked cold before operation DO NOT bleed air from tires when they are hot. Check inflation pressure weekly during use to insure the maximum tire life and tread wear.

Table 2 (Tire Wear Troubleshooting) will help pinpoint the causes and solutions of tire wear problems.

CAUTION:



NOTE

ALWAYS wear safety glasses when removing or installing force fitted parts. Failure to comply may result in serious injury.

TABLE 12. TIRE WEAR TROUBLESHOOTING

WEAR PATTERN		CAUSE	SOLUTION
	Center Wear	Over Inflation.	Adjust pressure to particular load per tire manufacturer.
	Edge Wear	Under Inflation.	Adjust pressure to particular load per tire manufacturer.
	Side Wear	Loss of chamber or overloading.	Make sure load does not exceed axle rating. Align wheels.
	Toe Wear	Incorrect toe-in.	Align wheels.
	Cupping	Out-of-balance.	Check bearing adjustment and balance tires.
	Flat Spots	Wheel lockup & tire skidding.	Avoid sudden stops when possible and adjust brakes.

Suspension

The leaf suspension springs and associated components (Figure 4) should be visually inspected every 6,000 miles for signs of excessive wear, elongation of bolt holes, and loosening of fasteners. Replace all damaged parts (suspension) immediately. Torqued suspension components as detailed in Table 3.

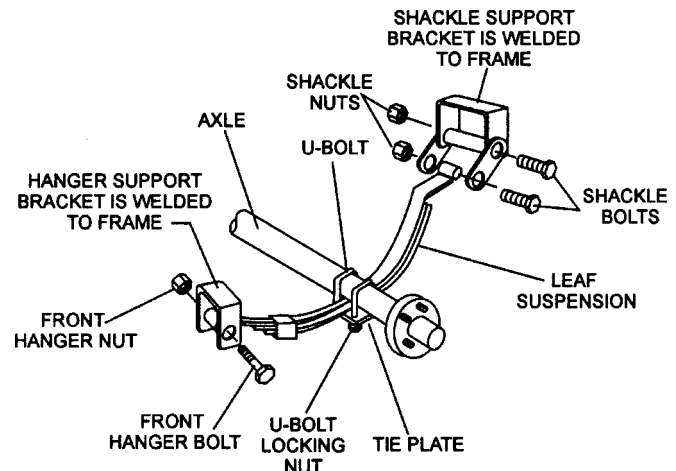


Figure 4. Suspension Components

DCA-125SSJU — TRAILER SAFETY GUIDELINES

Table 3. Suspension Torque Requirements

Item	Torque (Ft.-Lbs.)
3/8" U-BOLT	MIN-30 MAX-35
7/16" U-BOLT	MIN-45 MAX-60
1/2" U-BOLT	MIN-45 MAX-60
SHACKLE BOLT SPRING EYE BOLT	SNUG FIT ONLY. PARTS MUST ROTATE FREELY. LOCKING NUTS OR COTTER PINS ARE PROVIDED TO RETAIN NUT-BOLT ASSEMBLY.
SHOULDER TYPE SHACKLE BOLT	MIN-30 MAX-50

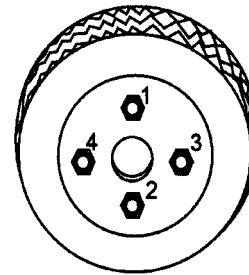
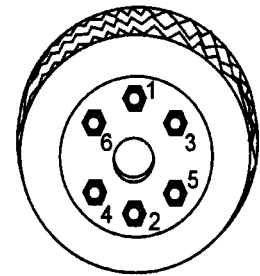
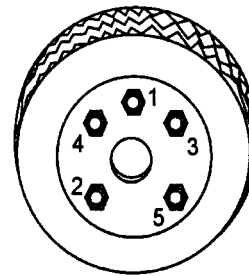
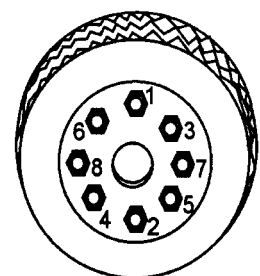
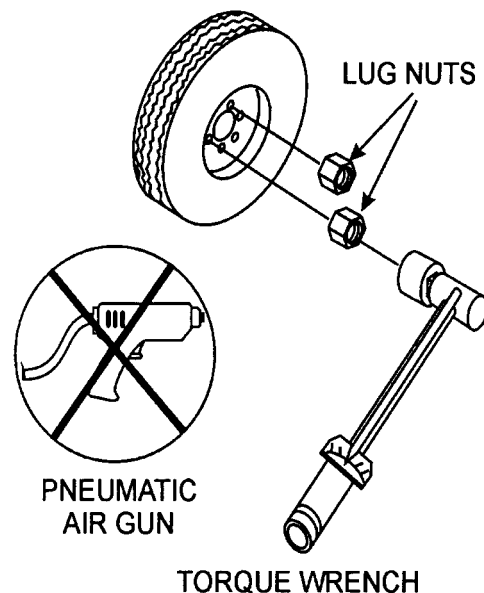
Lug Nut Torque Requirements

It is extremely important to apply and maintain proper wheel mounting torque on the trailer. Be sure to use only the fasteners matched to the cone angle of the wheel. Proper procedure for attachment of the wheels is as follows:

1. Start all wheel lug nuts by hand.
2. Torque all lug nuts in sequence. See Figure 5. DO NOT torque the wheel lug nuts all the way down. Tighten each lug nut in 3 separate passes as defined by Table 4.
3. After first road use, retorque all lug nuts in sequence. Check all wheel lug nuts periodically.

Table 4. Tire Torque Requirements

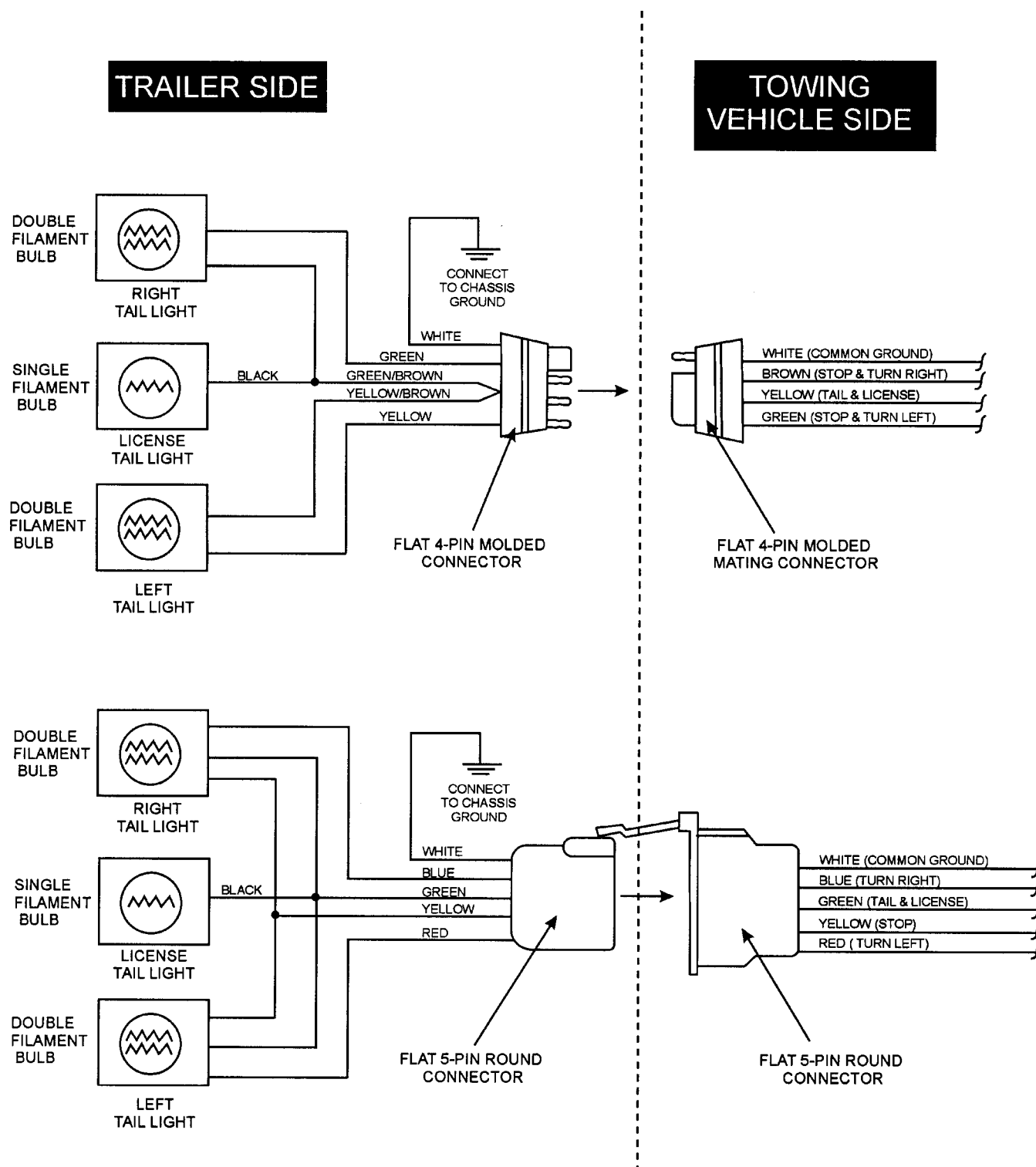
Wheel Size	First Pass FTLBS	Second Pass FTLBS	Third Pass FTLBS
12"	20-25	35-40	50-65
13"	20-25	35-40	50-65
14"	20-25	50-60	90-120
15"	20-25	50-60	90-120
16"	20-25	50-60	90-120


4-LUG NUTS

6-LUG NUTS

5-LUG NUTS

8-LUG NUTS

Figure 5. Lug Nut Tightening Sequence

NOTE

NEVER use an pneumatic air gun to tighten wheel lug nuts.

DCA-125SSJU —TRAILER WIRING DIAGRAMS



NOTE:
LIGHTS ARE ORIENTED FROM THE DRIVER'S SEAT

DCA-125SSJU —TRAILER-BRAKE TROUBLESHOOTING

Table 5. Electric Brake Troubleshooting

Symptom	Possible Cause	Solution
No Brakes or Intermittent Brakes	Any open circuits or broken wires?	Find and correct.
	Any short circuits?	Find and correct.
	Faulty controller?	Test and correct.
	Any loose connections?	Find and repair.
	Ground wire secure?	Find and secure.
Weak Brakes or Brakes Pull to One Side	Grease or oil on magnets or linings?	Clean or replace.
	Connections corroded?	Clean and correct cause of corrosion.
	Brake drums scored or grooved?	Machine or replace.
	Brakes synchronized?	Correct.
Locking Brakes	Brake components loose, bent or broken?	Replace components.
	Brake drums out-of-round?	Replace.
Noisy Brakes	System lubricated?	Lubricate.
	Brake components correct?	Replace and correct.
Dragging Brakes	Bearings of the wheel adjusted?	Adjust.

DCA-125SSJU —TRAILER-BRAKE TROUBLESHOOTING

Table 6. Hydraulic Brake Troubleshooting

Symptom	Possible Cause	Solution
No Brakes	Brake line broken or kinked?	Repair or replace.
Weak Brakes or Brakes Pull to One Side	Brake lining glazed?	Reburnish or replace.
	Trailer overloaded?	Correct weight.
	Brake drums scored or grooved?	Machine or replace.
	Tire pressure correct?	Inflate all tires equally.
	Tires unmatched on the same axle?	Match tires.
Locking Brakes	Brake components loose, bent or broken?	Replace components.
	Brake drums out-of-round?	Replace.
Noisy Brakes	System lubricated?	Lubricate.
	Brake components correct?	Replace and correct.
Dragging Brakes	Brake lining thickness correct or in right wrong position?	Install new shoes and linings.
	Enough brake fluid or correct fluid?	Replace rubber parts fill with dot4 fluid.

DCA-125SSJU — GENERATOR DECALS

The DCA -125SSJU generator is equipped with a number of safety decals. These decals are provided for operator safety and maintenance information. The illustration below and on the preceding pages show the decals as they appear on the machine. Should any of these decals become unreadable, replacements can be obtained from your dealer.

OPERATING PROCEDURES

Manual Starting

1. Check the engine oil, coolant, and fuel levels. Replenish if necessary.
2. Place all Generator Circuit Breakers in the "OFF" position and close all doors.
3. Check that the Voltage select switch (or the Voltage change-over board) is present at desired voltage.
(In case of generator having multiple voltage ratings.)
4. Set the Engine speed switch to the "LOW" position.
5. Turn the Auto-Off/Reset-Manual switch to the "Manual" position to start the engine. If the engine fails to start in the specified number of attempts, the overcrank lamp will indicate and the Auto-Off/Reset-Manual switch must be returned to the "Off/Reset" position before proceeding.
6. When the engine is ready for starting during cold weather operating conditions, push the Intake heater button for approximately 30 seconds. Start engine using the Auto-Off/Reset-Manual switch to the "Manual" position. As soon as the engine starts, release the button.
If the engine still does not start, utilize the water heater until water is warm. (If additional water heater is supplied.)
7. After starting, allow the engine to run for 1 or 2 minutes to warm-up. At temperatures below freezing, this time period must be extended to 2 to 4 minutes.
8. When the engine starts, immediately check for abnormal noise, vibration, fluid leakage or any indication of a problem. Check the control panel gauges. If all is normal, let the engine remain at the "Low" position for a short time, depending on the ambient conditions, warm up.
9. After sufficient warm-up time has elapsed, set the Engine speed switch to the "High" position and the unit is ready for operation.
10. Check the NO-Load speed as shown in the table below.
60Hz operation—Approx. 50 Hz (1500rpm)
11. Adjust the Voltage Regulator to the specified voltage.

Manual Stopping

1. Place the Generator Circuit Breakers in the "OFF" position.
2. Set the Engine speed switch to the "LOW" position, and allow the unit to cool for a few minutes.
3. Turn the Auto-Off/Reset-Manual switch, to the "Off/Reset" position.

Auto Starting/Stopping

1. With the Auto/Manual switch in the Auto position, the Auto Starting/Stopping controller monitors remote start contacts. Closure of the remote start contacts will begin engine cranking. When the contacts are opened cranking will stop or if running the engine will stop. All functions of the Automatic shutdown System work as in Manual Starting/stopping.
2. For cold weather conditions utilize the water heater until water is warm. If the engine still does not start, please operate as in Manual Starting.

Emergency Stopping

1. Place the Generator Circuit Breakers in the "OFF" position.
2. Turn the Auto-Off/Reset-Manual switch to the "Off/Reset" position.

M35200010

P/N M3552000103

SAFETY INSTRUCTIONS

Improper operation of this machine can cause severe injury or death.

- Read the instruction manual carefully before operating or servicing.

This machine should only be operated by a person with sufficient knowledge and skill to ensure safe operation.

High voltage circuits are located inside the output terminal cover and control panel.

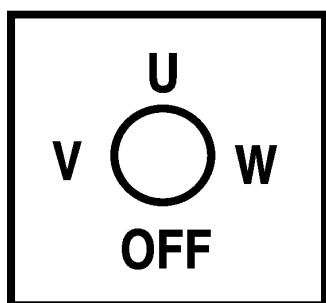
- Close the cover and control panel before operating.

Moving parts and hot surfaces are contained within the enclosure.

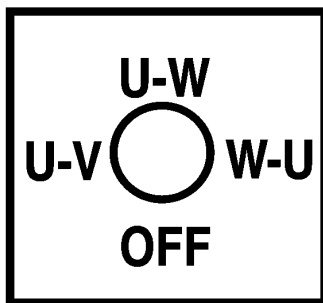
- Close all doors and lock them before operating.

M92010030

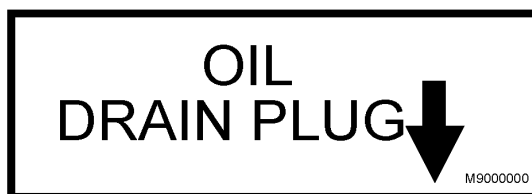
P/N M9520100304



P/N M9520000104



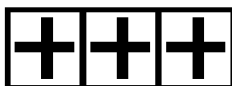
P/N M9520000204



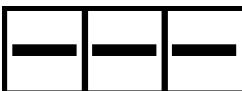
P/N M950000004



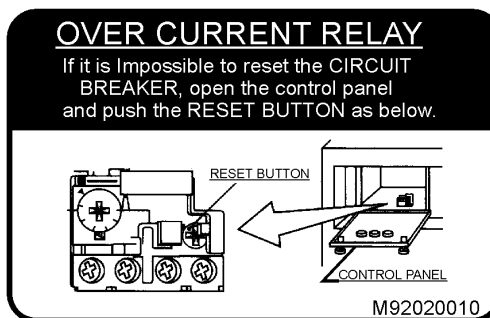
P/N M9510200002



P/N M9500300104



P/N M9500300004



P/N M9520200104



P/N M9500500104

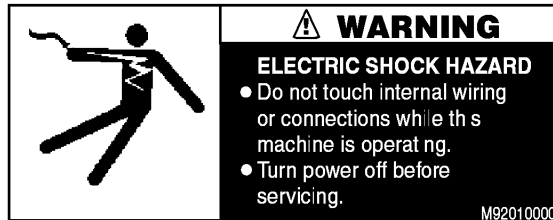


P/N M9500500004

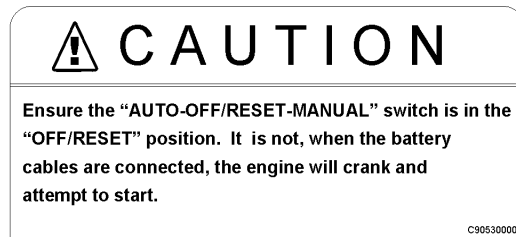


P/N M9503000103

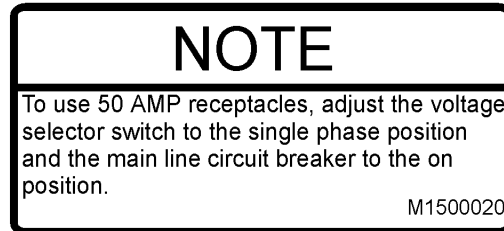
DCA-125SSJU — GENERATOR DECALS



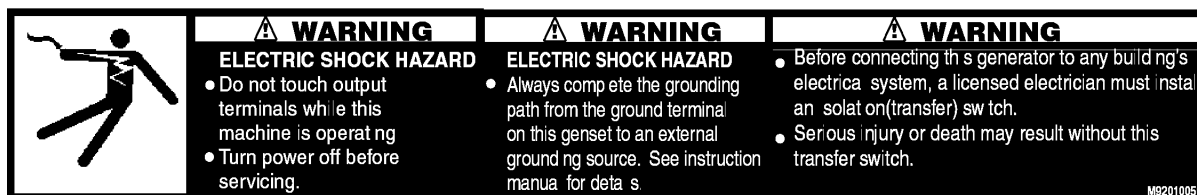
P/N M9520100004



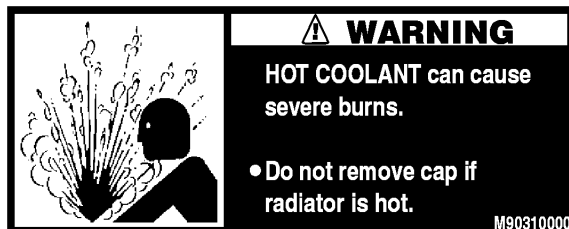
P/N M9505300004



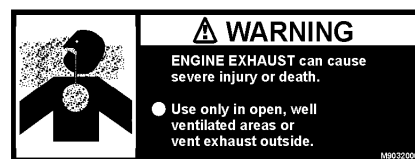
P/N M1550000204



P/N M9520100503



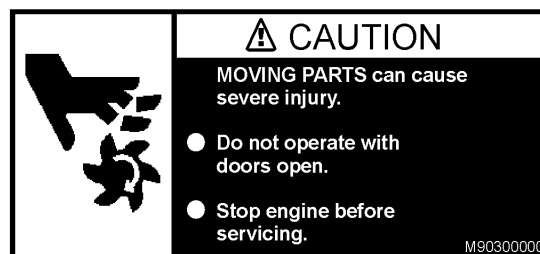
P/N M9503100004



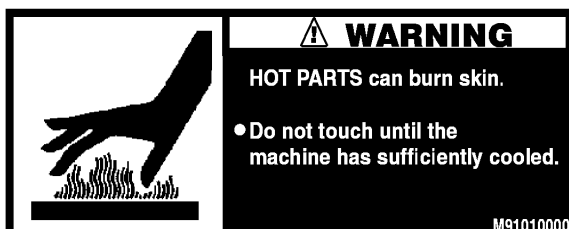
P/N M9503200004



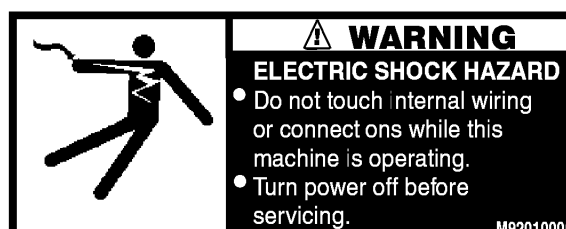
P/N M9520100204



P/N M9503000004



P/N M9510100004



P/N M9520100004

DCA-125SSJU — SPECIFICATIONS

Table 7. Specifications		
Generator Specifications		
Model	DCA-125SSJU	
Type	Revolving field, self ventilated, drip proof single bearing	
Armature Connection	Star with Neutral/ Zig Zag	
Voltage-3 phase	208, 220, 240, 416, 440, 480V switchable	
Voltage-single phase	120, 127, 139, 240, 254, 277V switchable	
Standby Output	137.5 KVA (110 KW)	
Prime Output	125 KVA (100 KW)	
Frequency	60 Hz	
Speed	1800 rpm	
Power Factor	0.8	
Sound Level dB(A) Full Load at 23 feet	67	
Insulation	Class F	
Engine Specifications		
Model	JOHN DEERE 6068TF250	
Type	4 Cycle, water-cooled, direct injection, turbo-charged	
No. of Cylinders	6 cylinders	
Bore x Stroke	(106 mm x 127 mm)	
Rated Output	150 HP/1800 rpm	
Displacement	410 cu. in. (6724 cc)	
Starting	Electric	
Coolant Capacity	10.3 gal. (39 liters)	
Lube Oil Capacity	4.5 gal. (17 liters)	
Fuel Consumption	7.5 gal(28.4L)/hr at full load	5.7 gal(21.6L)/hr at 3/4 load
	4.0 gal(15.1L)/hr at 1/2 load	2.3gal(8.7L)/hr at 1/4 load
Battery	12V- 150 AH x1	
Fuel	#2 Diesel Fuel	

DCA-125SSJU — GENERAL INFORMATION

DCA-125SSJU FAMILIARIZATION

Generator

The MQ Power Model DCA-125SSJU is a 100 kW **generator** that is designed as a high quality portable (requires a trailer for transport) power source for telecom sites, lighting facilities, power tools, submersible pumps and other industrial and construction machinery.

Engine Operating Panel

The "Engine Operating Panel" is provided with the following:

- Tachometer
- Water Temperature Gauge
- Oil Pressure Gauge
- Charging Ammeter Gauge
- Fuel level gauge
- Engine Speed Switch
- Pre-Heat Button
- Emergency Stop Button
- Battery Switch
- Panel Light
- Panel Light Switch
- Auto Start/Stop Controller

Generator Control Panel

The "Generator Control Panel" is provided with the following:

- Output Voltage Adjustment Knob
- Frequency Meter (Hz)
- AC Ammeter (Amps)
- AC Voltmeter (Volts)
- Ammeter Change-Over Switch
- Voltmeter Change-Over Switch
- Pilot Lamp

Output Terminal Panel

The "Output Terminal Panel" is provided with the following:

- Three 120/240V output receptacles, 50 amp
- Two 120V input receptacles, 20 amp
- 3 Load Circuit Breakers 250V @50 amps
- 2 Load GFCI Circuit Breakers 120V@ 20amps

Control Box

The "Control Box" is provided with the following:

- Main Circuit Breaker 300 amps
- Over-Current Relay

Open Delta Excitation System

The DCA-125SSJU generator is equipped with the state of the art "**Open-Delta**" excitation system. The open delta system consist of an electrically independent winding wound among stationary windings of the AC output section.

There are four leads: A, B, C and D. During light loads, the power to the **Automatic Voltage Regulator (AVR)** is supplied from the leads parallel connections of B&C. When loads increase, the AVR switches and accepts power from leads A&D. The output of leads A&D increase proportionally with load. This of adding the voltages to each phase provides better voltage response during heavy loads.

The connections of the AVR to the AC output windings are for sensing only. No power is required from these windings.

The open-delta design provides virtually unlimited excitation current, offering maximum motor starting capabilities. The excitation does not have a "**fixed ceiling**" and responds according the demands of the required load.

Engine

The **DCA-125SSJU** is powered by a 4 cycle, water cooled, JOHN DEERE 6068 TF 150 **diesel** engine. This engine is designed to meet every performance requirement for the generator. Reference Table 7, page 23 for engine specifications.

In keeping with Multiquip's policy of constantly improving its products, the specifications quoted herein are subject to change without prior notice.

The basic controls and indicators for the DCA-125SSJU generator are addressed on the following pages.

Mechanical Governor System

The mechanical governor system control the RPM of the engine. When the engine demands increase or decrease, the mechanical governor system regulates the frequency variation to $\pm 1.5\%$. The electronic governor option increases frequency variation to $\pm 0.25\%$.

DCA-125SSJU — MAJOR COMPONENTS

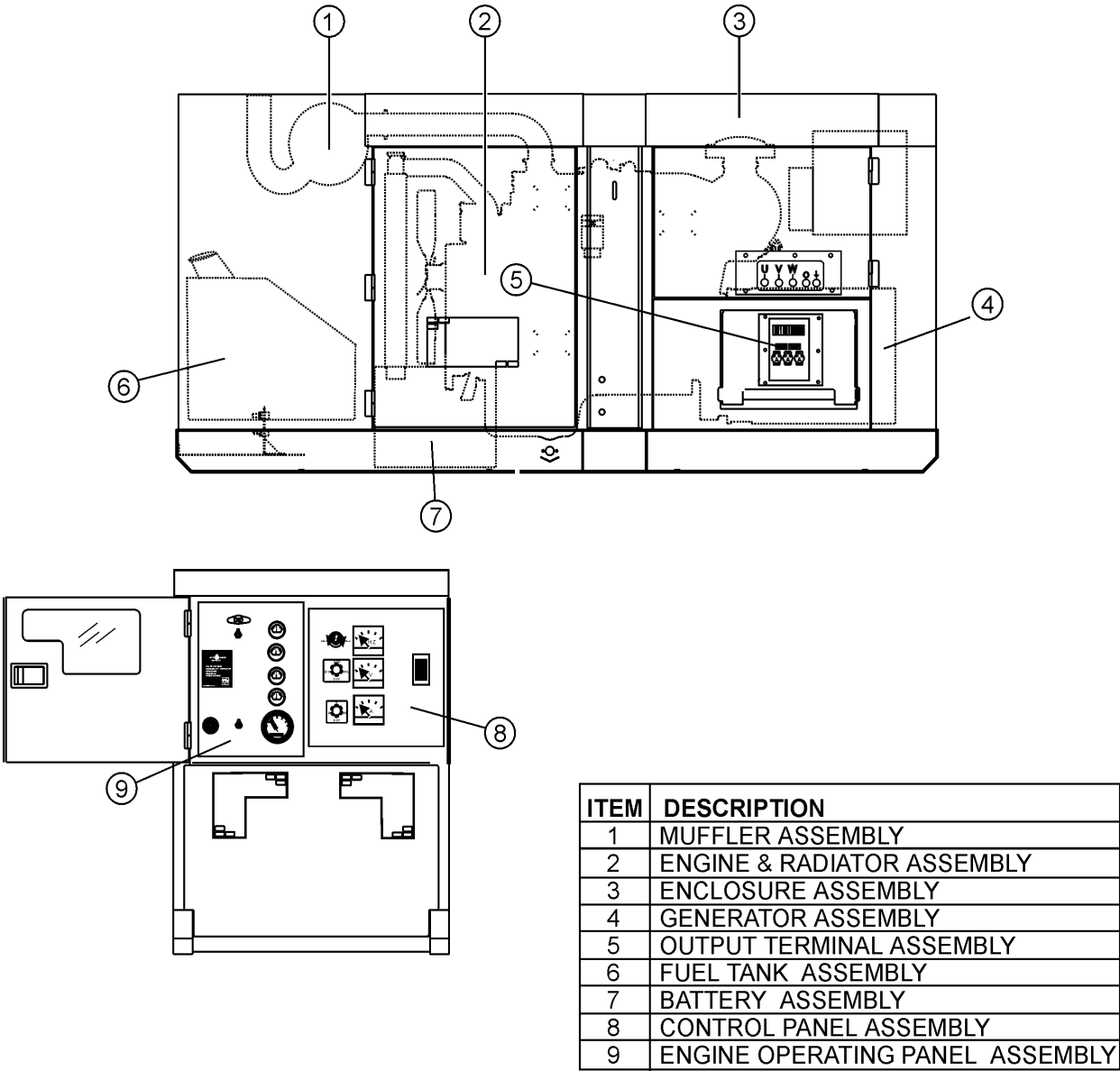


Figure 6. Major Components

DCA-125SSJU — DIMENSIONS (TOP, SIDE AND FRONT)

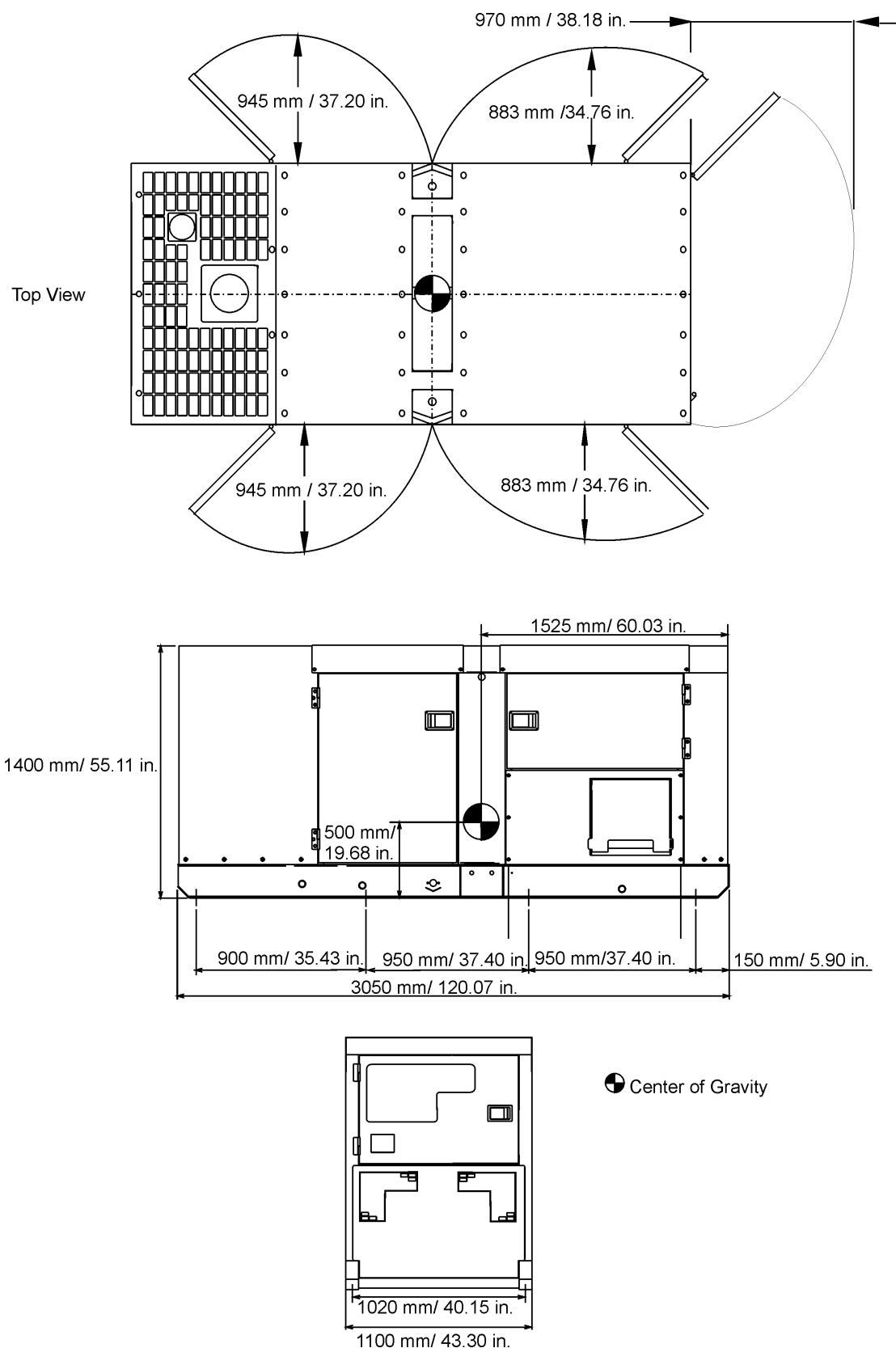
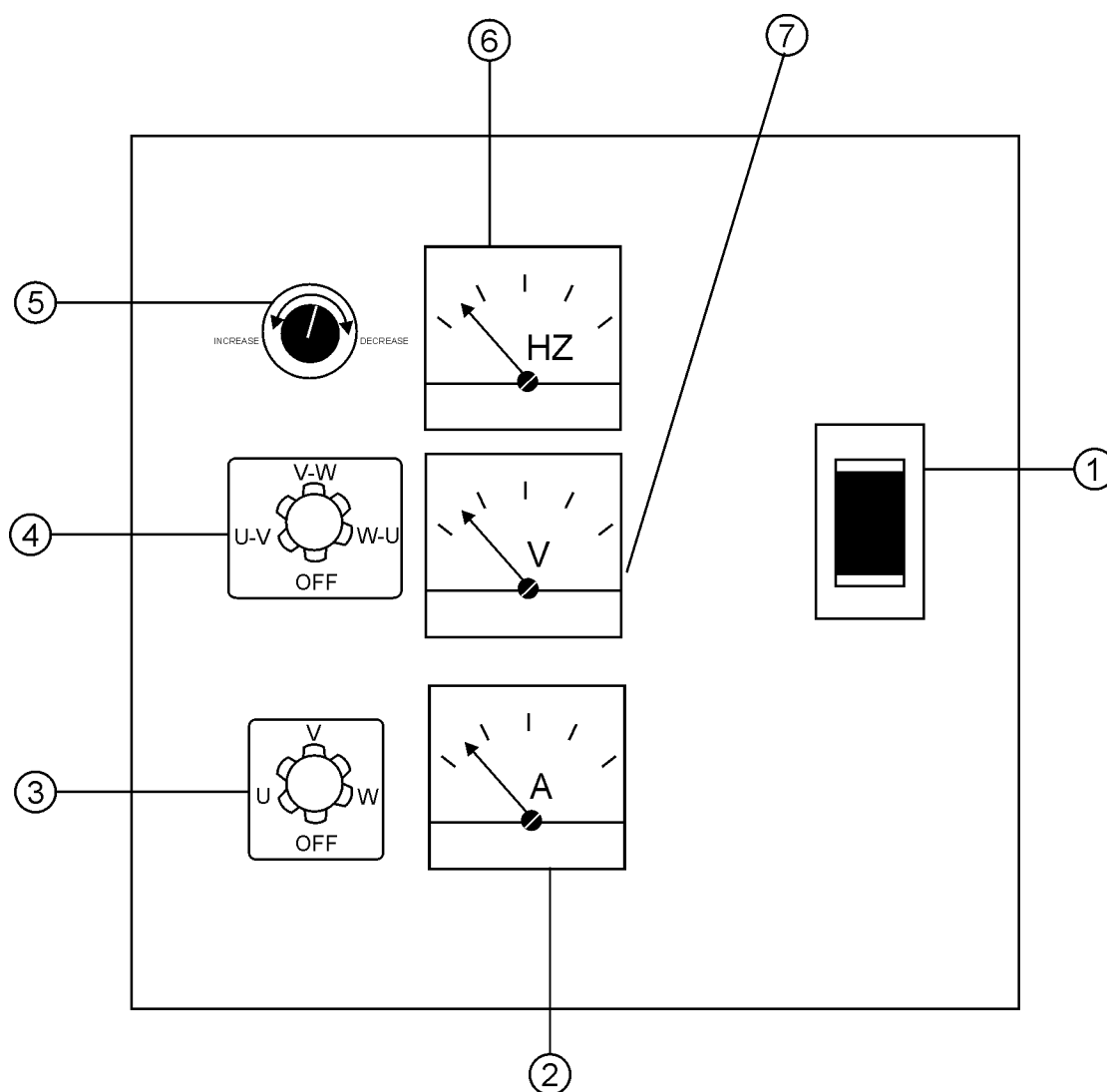


Figure 7. Dimensions

[illegible]

DCA-125SSJU — CONTROL PANEL



NO	DESCRIPTION
1	CIRCUIT BREAKER
2	AC AMMETER
3	AMMETER CHANGE-OVER SWITCH
4	VOLTMETER CHANGE-OVER SWITCH
5	VOLTAGE REGULATOR
6	FREQUENCY METER
7	AC VOLTMETER

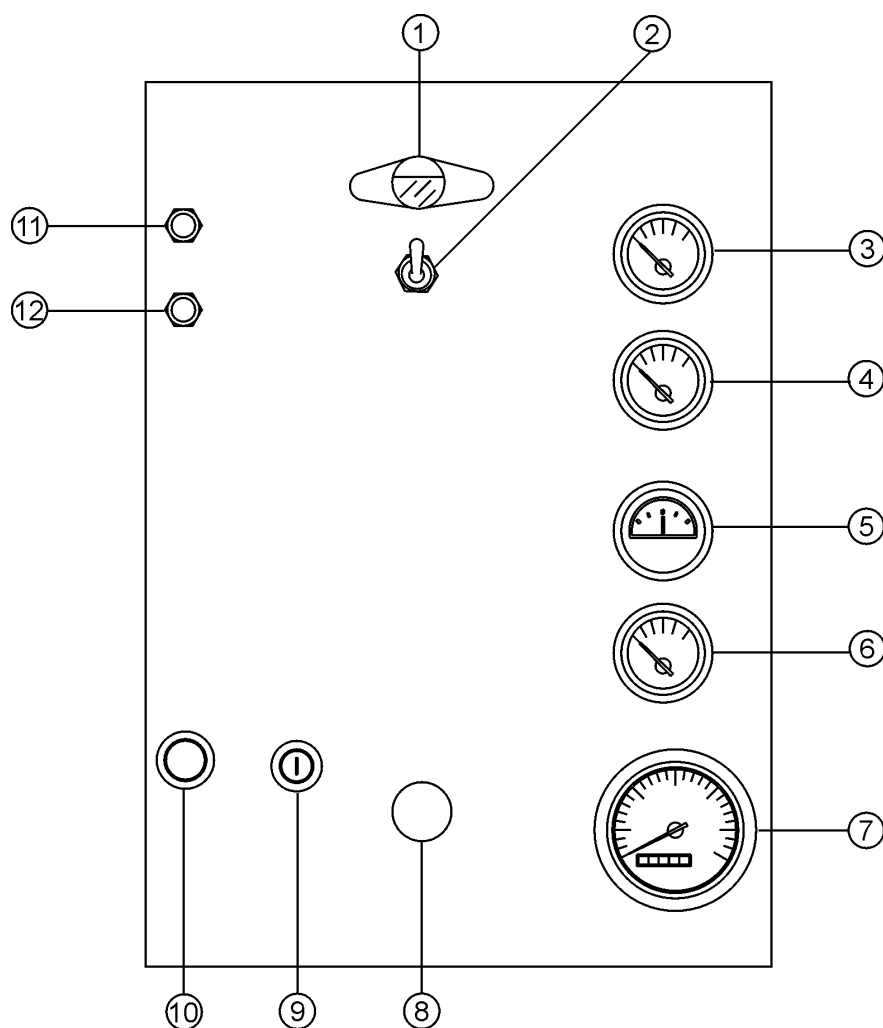
Figure 8. Control Panel

DCA-125SSJU — CONTROL PANEL

The definitions below describe the controls and functions of the DCA-125SSJU " **Control Panel** " (Figure 8).

1. **Main Circuit Breaker** – This three-pole, 300 amp main breaker is provided to protect the UVW voltage output terminals from overload.
2. **AC Ammeter** – Indicates the amount of current the load is drawing from the generator.
3. **Ammeter Change-Over Switch** – This switch allows the AC ammeter to indicate the current flowing to the load connected to any phase of the output terminals, or to be switched off.
4. **Voltmeter Change-Over Switch** – This switch allows the AC voltmeter to indicate phase to phase voltage between any two phases of the output terminals or to be switched off.
5. **Voltage Regulator Control** – Allows manual adjustment of the generator's output voltage.
6. **Frequency Meter** – Indicates the output frequency in hertz (Hz). Normally 60 Hz ± 1 Hz .
7. **AC Voltmeter** – Indicates the single phase output voltage present at the UVW terminals.

DCA-125SSJU — ENGINE OPERATING PANEL (WITH KEY)



NO	DESCRIPTION
1	PANEL LIGHT
2	PANEL LIGHT SWITCH
3	OIL PRESSURE GAUGE
4	WATER TEMPERATURE GAUGE
5	CHARGING AMMETER
6	FUEL GAUGE
7	TACHOMETER
8	ENGINE THROTTLE LEVER
9	STARTER SWITCH
10	COLD STARTING BUTTON
11	OIL PRESSURE INDICATOR
12	WATER TEMPERATURE INDICATOR

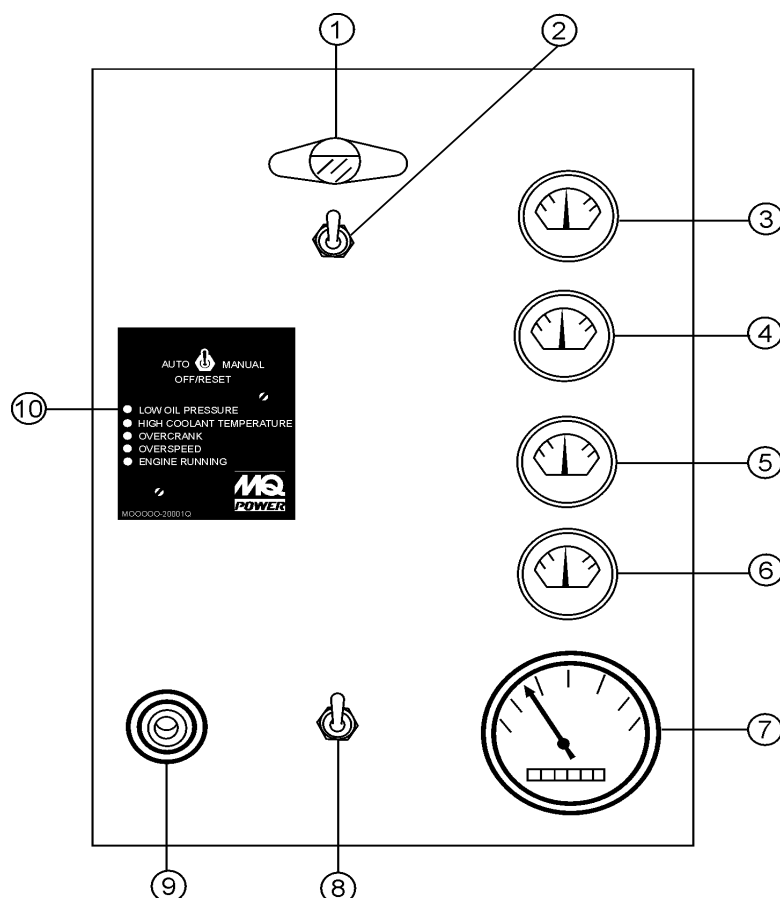
Figure 9. Engine Operating Panel

DCA-125SSJU — ENGINE OPERATING PANEL (WITH KEY)

The definitions below describe the controls and functions of the DCA-125SSJU " **Engine Operating Panel** " (Figure 9).

1. **Panel light** - Normally used in dark places or at night. When activated, panel will luminate. When the generator is not in use, turn the panel light switch to the 'OFF' position.
2. **Panel light switch**- When activated, will turn on control panel light.
3. **Oil Pressure Gauge** – Normal operation should be about 25 psi. When starting the generator the oil pressure may read a bit higher, but after the engine warms up the oil pressure should return to normal.
4. **Water Temperature Gauge** – During normal operation this gauge should read between 165° to 215°.
5. **Charging Ammeter Gauge** – Indicates the current being supplied by the engine's alternator which provides current for generator's control circuits and battery charging system.
6. **Fuel Gauge** - Indicates amount of diesel fuel available.
7. **Tachometer** – Indicates engine speed in RPM's for 60 Hz operation. This meter should indicate 1800 RPM's when the rated load is applied. In addition a built in hour meter will record the number of operational hours that the generator has been in use.
8. **Engine Throttle Lever**- This lever will change the speed of the engine from high to low.
9. **Pre-Heat Button** – Press hold this button to start the engine in cold conditions.
10. **Starter Switch with Key** – This switch has three different positions: Stop-Turn the key to stop the engine. Start-Turn the key to this position to start the engine. Release the key once the engine has started and it will automatically return to the operating position.
11. **Oil Pressure Indicator** - This indicator lets the operator know the oil pressure is dangerously high or low and will shut down the engine.
12. **Water Temperature Indicator** - This indicator lets the operator know the water temperature is dangerously high and will shut down the engine.

DCA-125SSJU — ENGINE OPERATING PANEL



NO	DESCRIPTION
1	PANEL LIGHT
2	PANEL LIGHT SWITCH
3	OIL PRESSURE GAUGE
4	WATER TEMPERATURE GAUGE
5	CHARGING AMMETER
6	FUEL GAUGE
7	TACHOMETER
8	ENGINE SPEED SWITCH
9	PREHEAT BUTTON
10	AUTO/START/STOP CONTROLLER

Figure 10. Engine Operating Panel

DCA-125SSJU — ENGINE OPERATING PANEL

The definitions below describe the controls and functions of the DCA-125SSJU " **Engine Operating Panel** " (Figure 10).

1. **Panel light** - Normally used in dark places or at night. When activated, panel will luminate. When the generator is not in use, turn the panel light switch to the 'OFF' position.
2. **Panel light switch**- When activated, will turn on control panel light.
3. **Oil Pressure Gauge** – Normal operation should be about 25 psi. When starting the generator the oil pressure may read a bit higher, but after the engine warms up the oil pressure should return to normal.
4. **Water Temperature Gauge** – During normal operation this gauge should read between 165°F to 215°F.
5. **Charging Ammeter Gauge** – Indicates the current being supplied by the engine's alternator which provides current for generator's control circuits and battery charging system.
6. **Fuel Gauge** - Indicates amount of diesel fuel available.
7. **Tachometer** – Indicates engine speed in RPM's for 60 Hz operation. This meter should indicate 1800 RPM's when the rated load is applied. In addition a built in hour meter will record the number of operational hours that the generator has been in use.
8. **Engine speed Handle**- This handle will change the speed of the engine from high to low.

9. **Pre-Heat Button** – Press hold this button until the preheat lamp is lit (ON).



10. **MPEC – Microprocessor Engine Control Module** – (MPEC) has a vertical row of status LED's (Figure 11), that when lit, indicate that an engine malfunction (fault), has been detected. When a fault has

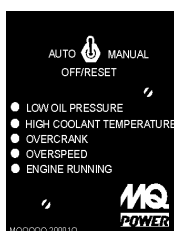


Figure 11. MPEC

been detected the MPEC will evaluate the fault and all major faults will shutdown the generator. During **cranking cycle**, The MPEC will attempt to crank the engine for 10 seconds before disengaging. If the engine does not engage (start) by the third attempt, the engine will be shutdown by the MPEC's " Over Crank Protection" mode. If the engine engages at a speed (RPM's) that is not safe, the MPEC will shutdown the engine by initializing the "Over Speed Protection" mode.

Also the MPEC will shutdown the generator in the event of low oil pressure, high coolant temperature, low coolant level, and loss of magnetic pickup. These conditions can be observed by monitoring the LED status indicators on the front of the MPEC module.

- A. **Off/Manual/Auto Switch** – This switch controls the running of the generator. If this switch is left in the "OFF" position, the generator will not run. When this switch is set to the **manual** position, the generator will start immediately.

If the generator is to be connected to a building's AC power source via a transfer switch (isolation), place the switch in the **auto** position. In this position the generator will monitor the AC line output from the building's power source.

- B. **Low Oil Pressure** – Indicates the engine pressure has fallen below 15 psi. The oil pressure is detected using variable resistive values from the oil pressure sending unit. This is considered a **major** fault.
- C. **High Coolant Temperature** – Indicates the engine temperature has exceeded 215°F. The engine temperature is detected using variable resistive values from the temperature sending unit. This is considered a **major** fault.
- D. **Overcrank Shutdown** – Indicates the unit has attempted to start a pre-programmed number of times, and has failed to start. The number of cycles and duration are programmable. It is preset at 3 cycles with a 10 second duration. This is considered a **major** fault.
- E. **Overspeed Shutdown** – Indicates the engine is running at an unsafe speed. This is considered a **major** fault.
- F. **Engine Running** – Indicates that engine is running at a safe operating speed.

DCA-125SSJU — OUTPUT TERMINAL PANEL OVERVIEW

OUTPUT TERMINAL FAMILIARIZATION

The "Output Terminal Panel" is provided with the following:

- Three 120/240V output receptacles, 50 amp
- Two 120V input receptacles, 20 amp
- 3 Load Circuit Breakers 250V @50 amps
- 2 Load GFCI Circuit Breakers 120V@ 20amps

Control Box

The "Control Box" is provided with the following:

- Main Circuit Breaker 300 amps
- Over-Current Relay

Output Terminal Panel

The Output Control Panel (See Figure 12) is located on the right hand side (left from control panel) of the generator. The UVW lugs are protected by a face plate cover that can be secured in the close position by a pad lock. (See Figure 1).

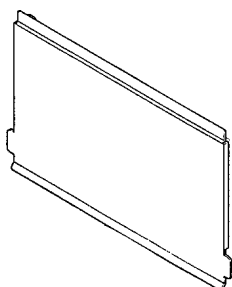


FIGURE 12. Output Terminal Cover

120 Volt Receptacle

Two GFCI Duplex Nema 5-20R (120V, 20 Amp) receptacle is provided on the output terminal. This receptacle can be used anytime the generator is in operation. The receptacle is controlled by the circuit breaker located on the control panel.

Pressing the reset button resets the receptacle after being tripped. Pressing the "Test Button" (See Figure 13) in the center of this receptacle will check the GFCI function. The receptacle should be tested at least once a month.

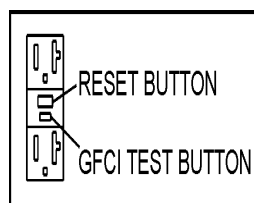


FIGURE 13. GFCI Test Button

Connecting Load

Loads can be connected to the generator by the UVW Lugs or the convenience receptacles. (See figure 14). Make sure to read the operation manual before attempting to connect a load to the generator.

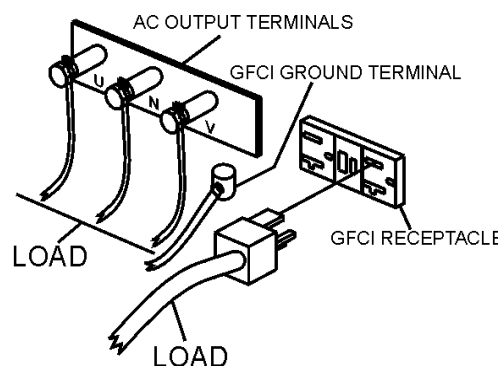


FIGURE 14. Connecting Load

Circuit Breakers

To protect the generator from an overload, a 3-pole, 300 amp, **main** circuit breaker is provided to protect the UVW output terminals from overload. In addition two single-pole, 20 amp **GFCI** circuit breakers are provided to protect the GFCI receptacles from overload. Three 50 amp **load** circuit breakers have also been provided to protect the load side of the generator from overload. Make sure to switch **ALL** circuit breakers to the "OFF" position prior to starting the engine.

Maximum Output

The entire load connected to the UVW Lugs, all four slots in the duplex receptacles, and the must not exceed 110 kW in standby or 100 kW in prime output.

Twist Lock Dual Voltage Receptacles - To use these receptacles, place the voltage selector switch in the single phase 240/120 voltage position and adjust the output voltage to 240 volts with the voltage regulator on the Control Panel (see figure). Place the voltmeter change-over switch to the U-W position and the ammeter change-over switch to the U or W to read the output.

DCA-125SSJU — OUTPUT TERMINAL PANEL OVERVIEW

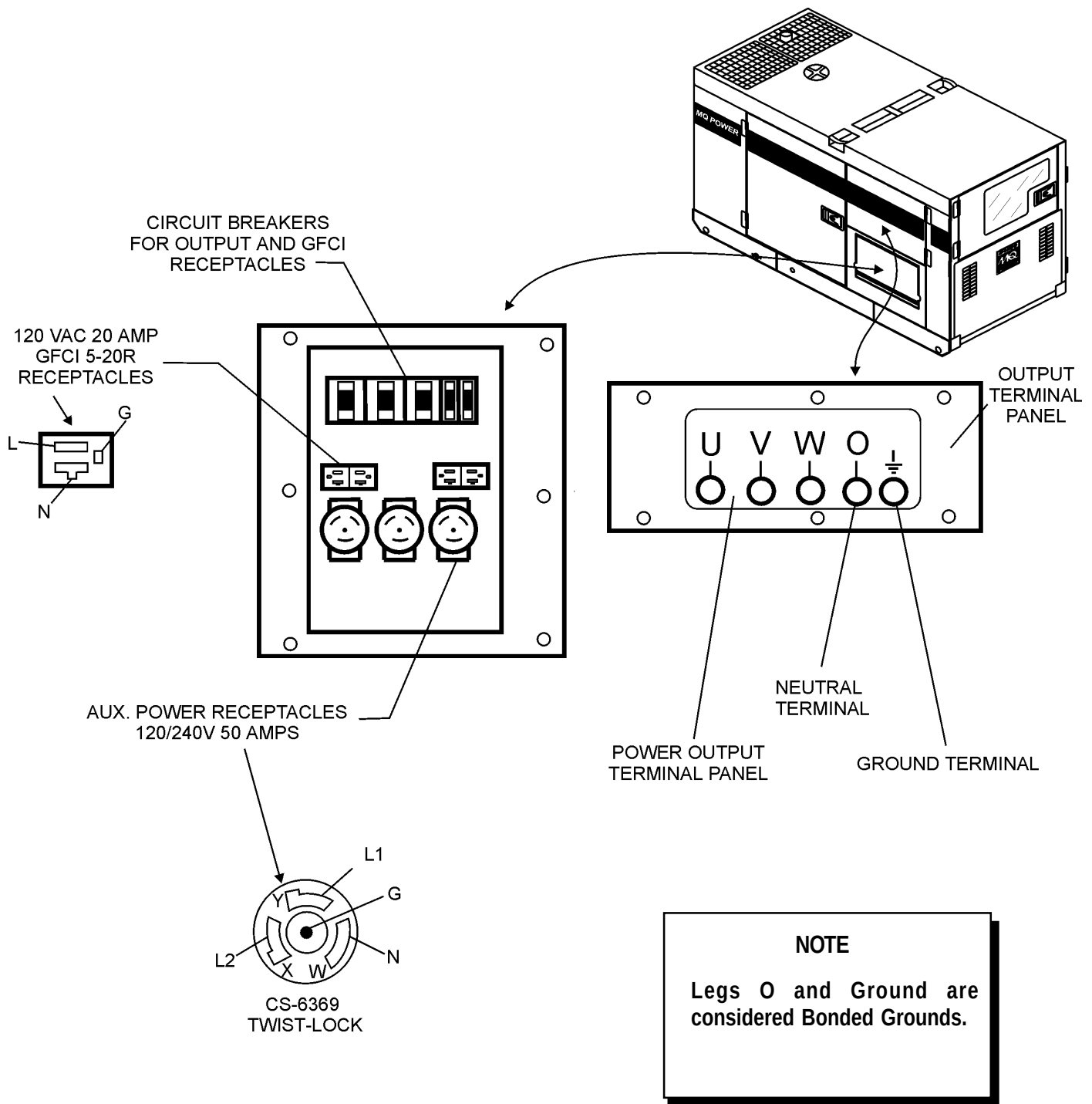


FIGURE 15. Output Terminal Panel

DCA-125SSJU — OUTPUT TERMINAL PANEL OVERVIEW

Output Terminal Panel Available Voltages

A wide range of voltages are available to supply load to many different applications. Voltages may be selected by using the voltage selector switch and how you hookup your hard wire connection to the generator. To obtain some of the voltages listed, fine adjustment with the Voltage Regulator on the control panel is necessary. See the table below (Table 8) for a list of available voltages the generator is able to supply.

TABLE 8. VOLTAGES AVAILABLE						
MODEL	DCA125SSJU					
3 PHASE VOLTAGE (SWITCHABLE)	208 VOLT	220 VOLT	240 VOLT	416 VOLT	440 VOLT	480 VOLT
SINGLE PHASE (SWITCHABLE)	120 VOLT	127 VOLT	139 VOLT	240 VOLT	254 VOLT	277 VOLT

Voltage Selector Switch

The voltage selector switch is located above the UVWO Hard Wire Hookup Panel. It has been provided for ease of voltage selection.

CAUTION :



NEVER switch Voltage Selector Switch position while the engine is engaged.

Voltage Selector Switch Locking Button

The voltage selector switch has a locking button to protect the generator and generator load from being switched while the engine is running. To lock the Voltage Selector Switch, press in the red button located on the Voltage Selector Switch, and use a pad lock to hold it into this position.

Over Current Relay

An over current relay is connected to the circuit breaker. In an over current situation, both the circuit breaker and the over current relay may trip. If the circuit breaker can not be reset, the reset button on the over current relay must be pressed. The over current relay is located in the control box.

Maximum Amps

The following table show the maximum amps the entire generator can provide. Do not exceed the maximum amps listed. (See Table 9)

Table 9. Maximum Amps	
Model:	DCA125SSJU
Rated Voltage	Maximum Amps
Single Phase 120 Volt	277.8 amps (4 wire)
Single Phase 240 Volt	138.9 amps (4 wire)
Three Phase 240 Volt	301 amps
Three Phase 480 Volt	150 amps

Receptacle Use

When the UVWO terminals are providing power, the receptacle power available decrease. Do not exceed receptacle power available listed on Table 10.

Table 10. Receptacle Use		
Power in Use		Receptacle Power Available
240/480V 3-Phase	240/120V Single Phase or Twist Lock CS6369	Duplex NEMA 5-20R 120V
KVA	KW	KW
125	72	0
121	70.8	1.2
117	69.6	2.4
113	68.4	3.6
108	67.2	4.8

DCA-125SSJU — OUTPUT TERMINAL PANEL OVERVIEW

How to read the output terminal gauges.

The gauges and knobs on the control panel **DO NOT** effect the generator output in any fashion. They are there to simply help the operator observe how much power is being produced at the UVWO legs.

When the Voltage selector switch is in the 240/120V position (see figure 16), place the AC Voltmeter Change-over switch to the W-U position and the AC ammeter Change -over Switch to the U or W position to read the output on the selected leg.

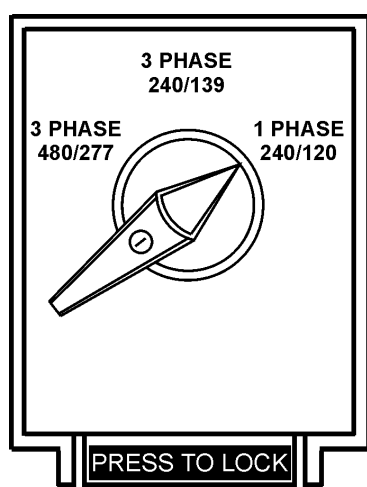


FIGURE 16. Voltage Selector Switch 240/120V Single Phase Position

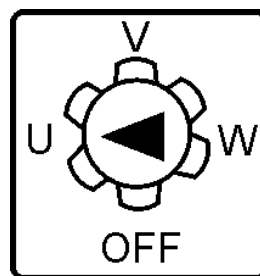


FIGURE 19. AC Ammeter Change-over Switch (Reading the U leg on the output terminal panel)

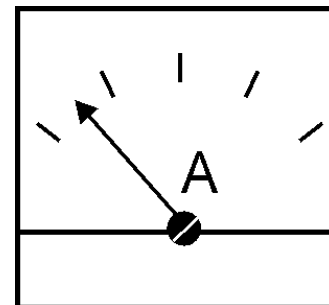


FIGURE 20. AC Ammeter (Amp reading on U lug)

NOTE

When using plural single phase voltages, make sure to balance the load on each of the single phase legs.

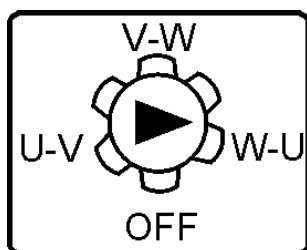


FIGURE 17. AC Voltmeter Change-over switch (Reading the W-U leg on the output terminal panel)

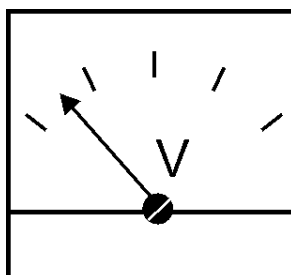


FIGURE 18. AC Voltmeter Gauge (Volt reading on W-U Lug)

DCA-125SSJU — OUTPUT TERMINAL PANEL OVERVIEW

240/120V Hard Wire Hookup

The output terminal panel, when supplying single phase 120 volts, will provide three legs available with 277.8 amps each on three different circuits. (See Figure 22 below.) The voltage selector switch must be set at the single phase 240/120V position. (See figure 21 below.)

The output terminal panel, when supplying single phase 240 volts, will provide one leg only with 138.9 amps available. (See Figure 22 below.) The voltage selector switch must be set at the single phase 240/120V position. (See figure 21 below.)

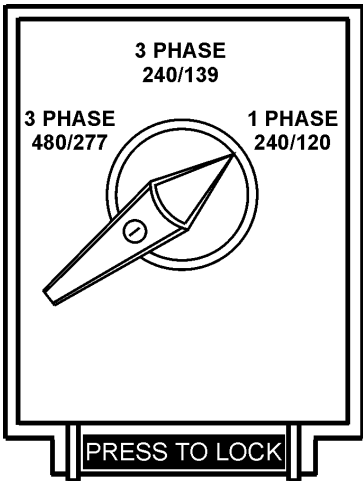


FIGURE 21. Voltage Selector Switch 240/120V Single Phase Position

480/240V Hard Wire Hookup

The output terminal panel, when supplying three phase 240 volts, will provide one circuit available at 301 amps with any two wires plus the ground. (See Figure 24 below.) The voltage selector switch must be set at the three phase 480/277V position. (See figure 23 below.)

The output terminal panel, when supplying 3 phase 480 volts, will provide one circuit available at 150 amps available with all three wires plus ground. (See Figure 24 below.) The voltage selector switch must be set at the three phase 480/277V position. (See figure 23 below.)

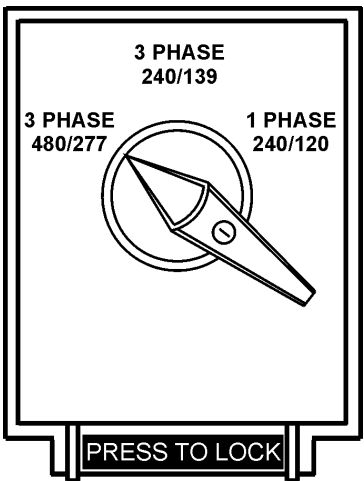


FIGURE 23. Voltage Selector Switch 480/277V Three Phase Position

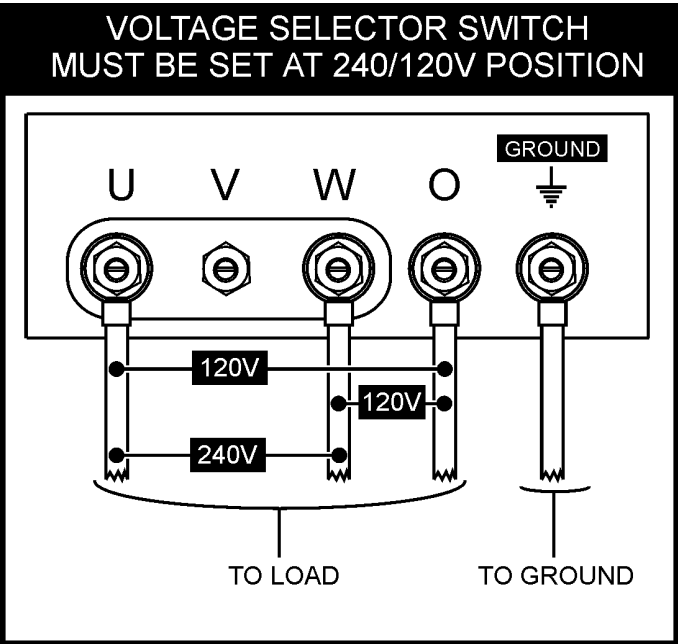


FIGURE 22. Hard Wire Hookup at 240/120V Position

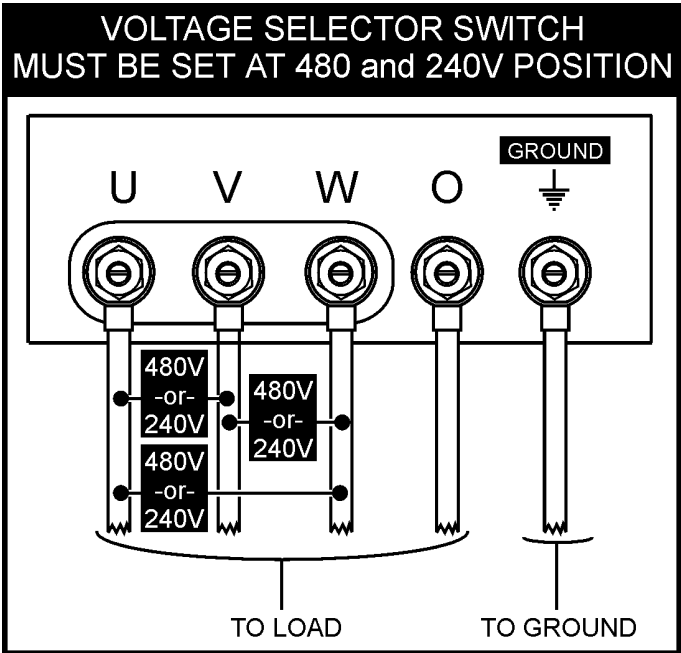


FIGURE 24. Hard Wire Hookup at 480/240V Position

DCA-125SSJU — OUTPUT TERMINAL PANEL OVERVIEW

Voltage Selector Switch- 3 Phase 480/277V Position

The following are additional voltages available when the voltage selector switch is in the 3 phase 480/277V position. (See figure 25 below.)

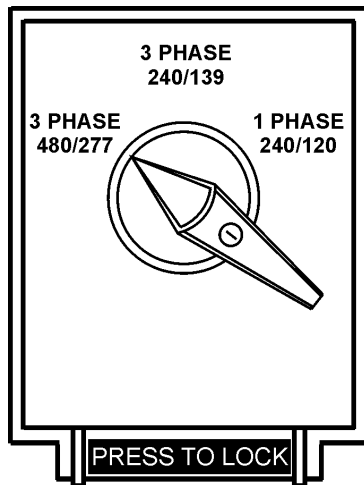


FIGURE 25. Voltage Selector Switch 480/277V Single Phase Position



FIGURE 26. Voltage Regulator Knob located on the control panel

3 Phase, 480V, 440V, or 416 Volt

The following connection, with the voltage selector switch locked into the 3 phase 480/277V position (See Figure 25), can offer **THREE PHASE** power at 480V, 440V, or 416V. After hooking up the hard wires to the lugs as shown in figure 27 below, 480V will be the voltage with the Voltage Regulator Knob turned toward maximum. 440 volt will be reached when the Voltage Regulator Knob is turned down, and 416 volt when the Voltage Regulator Knob is toward the lowest setting (See Figure 26).

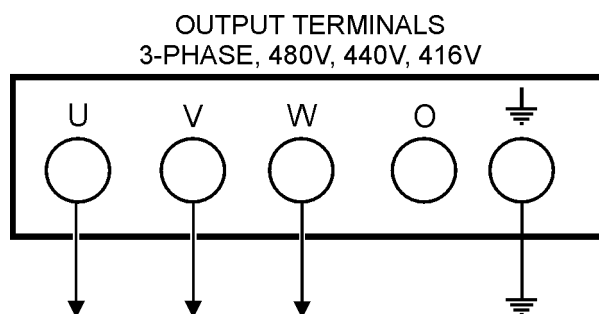


FIGURE 27. Hard Wire Hookup for Three Phase 480V, 440V, or 416V

Single Phase: 480V, 440V, or 416 Volt

The following connection, with the voltage selector switch locked into the 3 phase 480/277V position (See Figure 25), can offer **SINGLE PHASE** power at 480V, 440V, or 416V. After hooking up the hard wires to the lugs as shown in figure 8 below, 480V will be the voltage with the Voltage Regulator Knob turned toward maximum. 440 volt will be reached when the Voltage Regulator Knob is turned down, and 416 volt when the Voltage Regulator Knob is toward the lowest setting (See Figure 26).

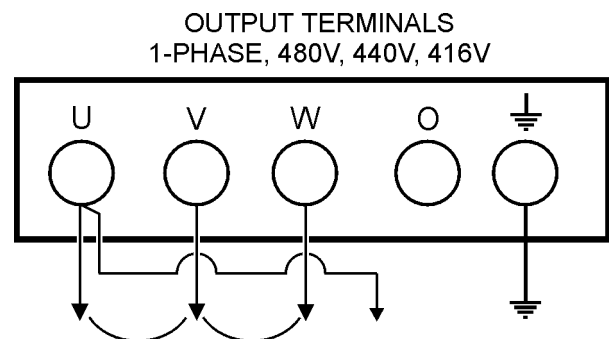


FIGURE 28. Hard Wire Hookup for Single Phase 480V, 440V, or 416V

Single Phase: 277V, 254V, or 240V

The following connection, with the voltage selector switch locked into the 3 phase 480/277V position (See Figure 25), can offer **SINGLE PHASE** power at 277V, 254V, or 240V. After hooking up the hard wires to the lugs as shown in figure 29 below, 277V will be the voltage with the Voltage Regulator Knob turned toward maximum. 254 volt will be reached when the Voltage Regulator Knob is turned down, and 240 volt when the Voltage Regulator Knob is toward the lowest setting (See Figure 26).

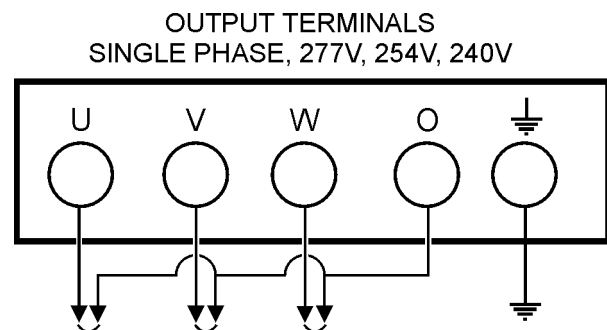


FIGURE 29. Hard Wire Hookup for Single Phase 277V, 254V, or 240V

DCA-125SSJU — OUTPUT TERMINAL PANEL OVERVIEW

Voltage Selector Switch- 3 Phase 240/139V Position

The following are additional voltages available when the voltage selector switch is in the 3 phase 240/139V position. (See Figure 30 below.)

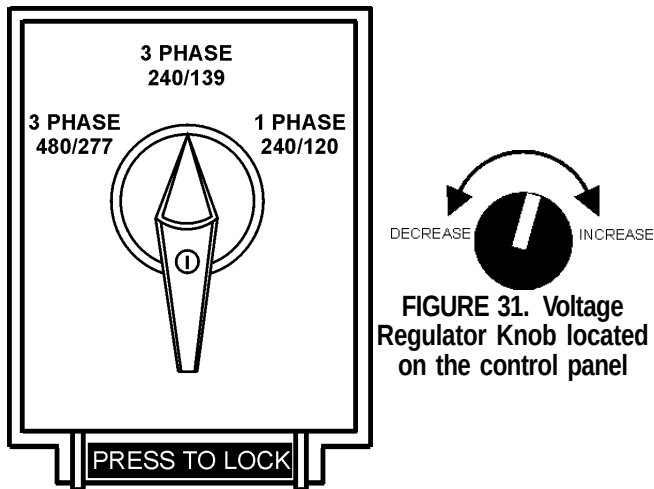


FIGURE 30. Voltage Selector Switch 240/139V Three Phase Position

3 Phase, 240V, 220V, or 208 Volt

The following connection, with the voltage selector switch locked into the 3 phase 270/139V position (See Figure 30), can offer **THREE PHASE** power at 270V, 220V, or 208V. After hooking up the hard wires to the lugs as shown in figure 32 below, 240V will be the voltage with the Voltage Regulator Knob turned toward maximum. 220 volt will be reached when the Voltage Regulator Knob is turned down, and 208 volt when the Voltage Regulator Knob is toward the lowest setting (See Figure 31).

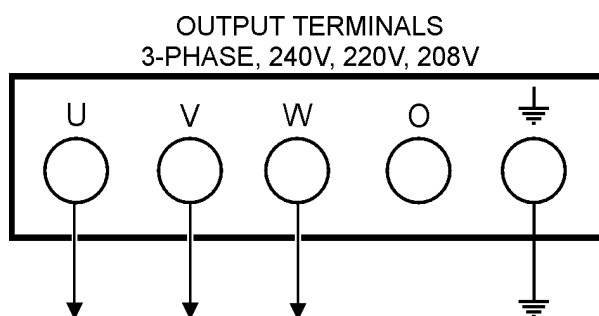


FIGURE 32. Hard Wire Hookup for Three Phase 240V, 220V, or 208V

Single Phase: 240V, 220V, or 208 Volt

The following connection, with the voltage selector switch locked into the 3 phase 270/139V position (See Figure 30), can offer **SINGLE PHASE** power at 240V, 220V, or 208V. After hooking up the hard wires to the lugs as shown in figure 33 below, 240V will be the voltage with the Voltage Regulator Knob turned toward maximum. 220 volt will be reached when the Voltage Regulator Knob is turned down, and 208 volt when the Voltage Regulator Knob is toward the lowest setting (See Figure 31).

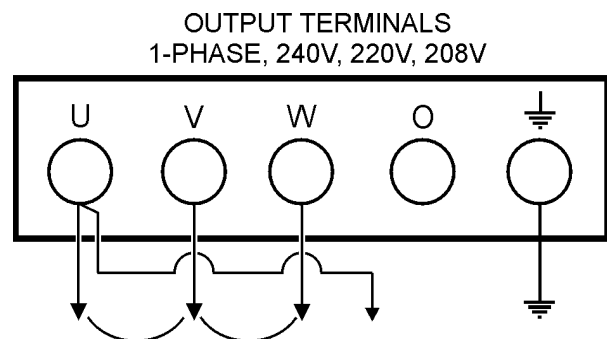


FIGURE 33. Hard Wire Hookup for Single Phase 240V, 220V, or 208V

Single Phase: 139V, 127V, or 120V

The following connection, with the voltage selector switch locked into the 3 phase 270/139V position (See Figure 30), can offer **SINGLE PHASE** power at 139V, 127V, or 120V. After hooking up the hard wires to the lugs as shown in figure 34 below, 139V will be the voltage with the Voltage Regulator Knob turned toward maximum. 127 volt will be reached when the Voltage Regulator Knob is turned down, and 120 volt when the Voltage Regulator Knob is toward the lowest setting (See Figure 31).

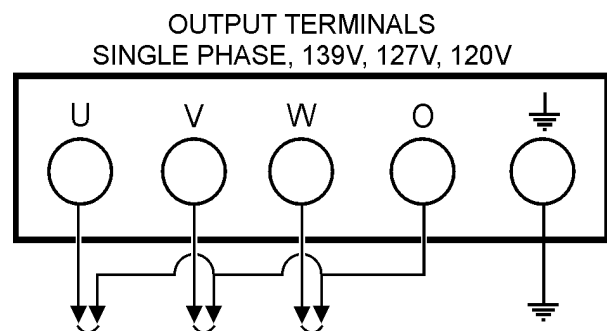


FIGURE 34. Hard Wire Hookup for Single Phase 139V, 127V, or 120V

DCA-125SSJU — OUTPUT TERMINAL PANEL OVERVIEW

Voltage Selector Switch- Single Phase 240/120V Position

The following are additional voltages available when the voltage selector switch is in the single phase 240/120V position. (See Figure 35 below.)

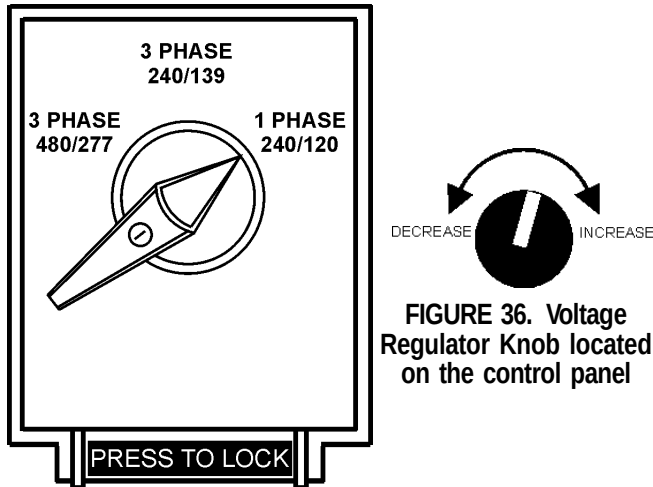


FIGURE 35. Voltage Selector Switch 240/120V Single Phase Position

Single Phase: 120 Volt

The following connection, with the voltage selector switch locked into the single phase 240/120V position (See Figure 35), will offer **SINGLE PHASE** power at 120V. After hooking up the hard wires to the lugs as shown in figure 38 below, use the Voltage Regulator Knob to fine tune to 120V. (See Figure 36).

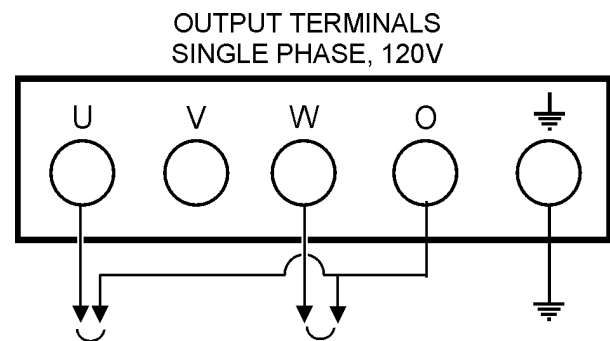


FIGURE 38. Hard Wire Hookup for Single Phase, 120 volt

Single Phase, 240 Volt

The following connection, with the voltage selector switch locked into the single phase 240/120V position (See Figure 35), will offer **SINGLE PHASE** power at 240V. After hooking up the hard wires to the lugs as shown in figure 37 below, use the Voltage Regulator Knob to fine tune to 240V. (See Figure 36).

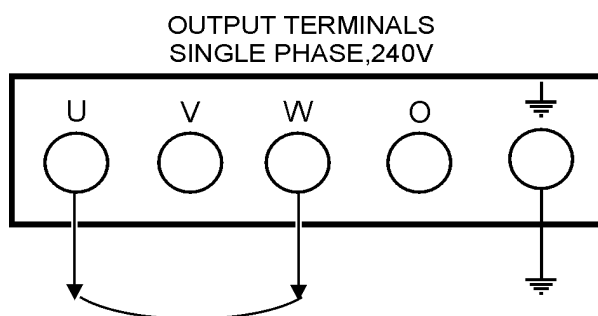


FIGURE 37. Hard Wire Hookup for Single Phase 240 volt

DCA-125SSJU — INSTALLATION

Outdoor Installation

Install the generator in a location where it will not be exposed to rain or sunshine. Make sure the generator is on secure level ground so it cannot slide or shift around. Also install the generator so the exhaust will not be discharged in the direction of nearby homes.

The installation site must be relatively free from moisture and dust. All electrical equipment should be protected from excessive moisture. Failure to do will result in deterioration of the insulation and will result in short circuits and grounding.

Foreign materials such as dust, sand, lint and abrasive materials have a tendency to cause excessive wear to the engine and alternator parts.

CAUTION :

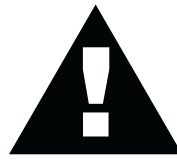


Pay close attention to ventilation when operating the generator inside tunnels and caves. The engine exhaust contains noxious elements. Engine exhaust must be routed to a ventilated area.

Indoor Installation

Exhaust gases from diesel engines are extremely poisonous. Whenever an engine is installed indoors the exhaust fumes must be vented to the outside. The engine should be installed at least two feet from any outside wall. Using an exhaust pipe which is too long or too small can cause excessive back pressure which will cause the engine to heat excessively and possibly burn the valves.

CAUTION :



An electric shock may happen when vibrators are used. Pay close attention to handling when operating vibrators and always use rubber boots and gloves to insulate the body from electrical shock.

Generator Grounding

To guard against electrical shock and possible damage to the equipment, it is important to provide a good **EARTH** ground.

Article 250 (Grounding) of the National Electrical Code (NEC) provides guide lines for proper grounding and specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

NEC articles 250-64(b) and 250-66 set the following grounding requirements:

1. Use one of the following wire types to connect the generator to earth ground.
 - a. Copper - 10 AWG (5.3 mm²) or larger.
 - b. Aluminum - 8 AWG (8.4 mm²) or larger.
2. When grounding the generator (Figure 14) connect the ground cable between the lock washer and the nut on the generator and tighten the nut fully. Connect the other end of the ground cable to earth ground.
3. NEC article 250-52(c) specifies that the earth ground rod should be buried a minimum of 8 ft. into the ground.

NOTE

When connecting the generator to any buildings electrical system **ALWAYS** consult with a licensed electrician.

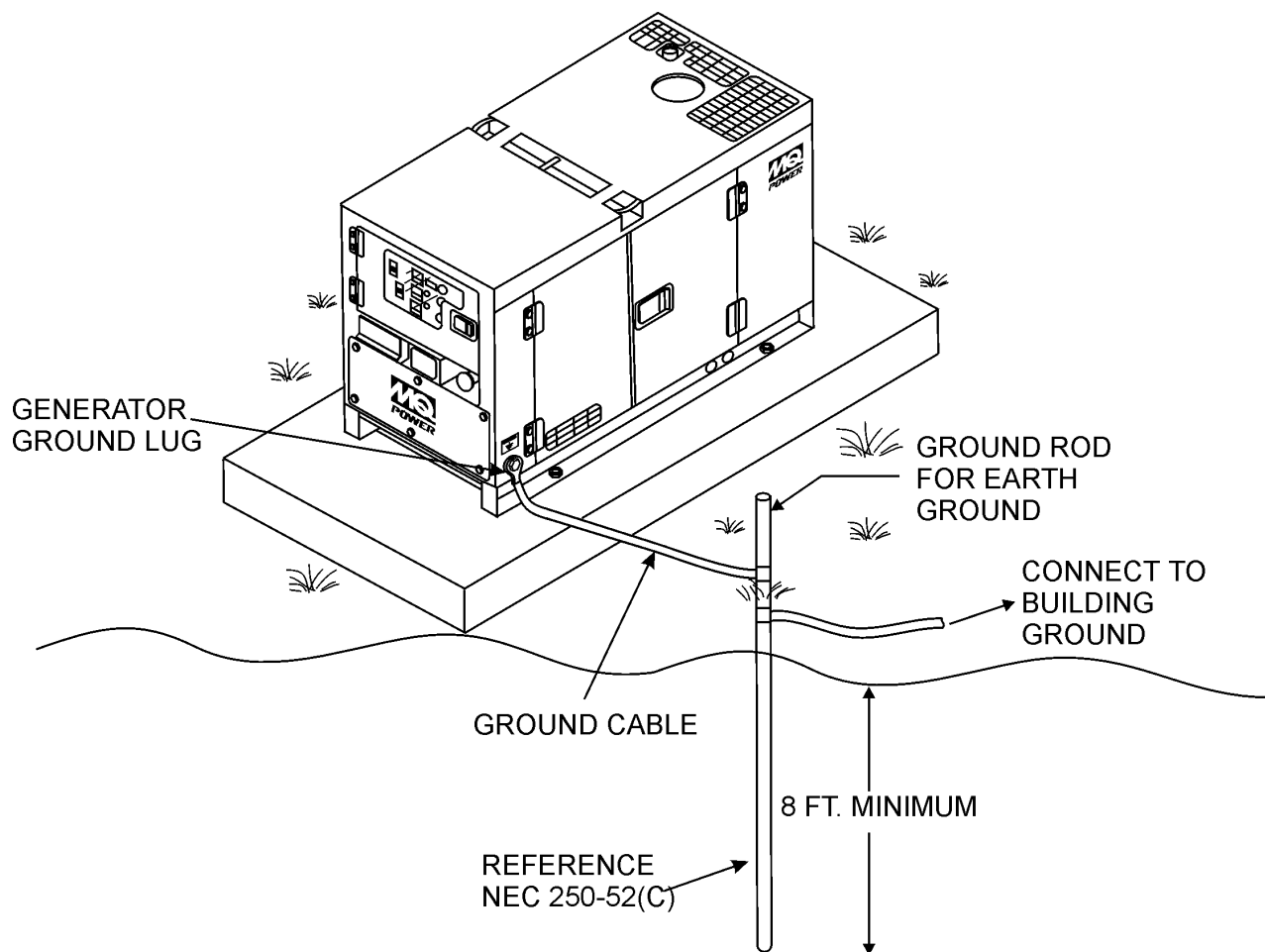
DCA-125SSJU — INSTALLATION

Figure 39. Typical Generator Grounding Application

DCA-125SSJU — PRE-SETUP

General Inspection Prior to Operation

The DCA-125SSJU generator has been thoroughly inspected and accepted prior to shipment from the factory. However, be sure to check for damaged parts or components, or loose nuts and bolts, which could have occurred in transit.

Extension Cable

When electric power is to be provided to various tools or loads at some distance from the generator, extension cords are normally used. Cables should be sized to allow for distance in length and amperage so that the voltage drop between the generator and point of use (load) is held to a minimum. Use the Cable Selection Guide (Table 11) as a guide for selecting proper cable size.

Circuit Breakers

To protect the generator from an overload, a 3-pole, 300 amp, **main** circuit breaker is provided to protect the UVW output terminals from overload. In addition two single-pole, 20 amp **GFCI** circuit breakers are provided to protect the GFCI receptacles from overload. Three 50 amp **load** circuit breakers have also been provided to protect the load side of the generator from overload. Make sure to switch **ALL** circuit breakers to the "OFF" position prior to starting the engine.

NOTE

ALWAYS consult with a licensed electrician for correct extension cord wire size.

Table 11. Cable Selection (60 Hz, Single Phase Operation)

Current in Amperes	Load In Watts		Maximum Allowable Cable Length			
	At 120 Volts	At 240 Volts	#10 Wire	#12 Wire	#14 Wire	#16 Wire
2.5	300	600	1000 ft.	600 ft.	375 ft.	250 ft.
5	600	1200	500 ft.	300 ft.	200 ft.	125 ft.
7.5	900	1800	350 ft.	200 ft.	125 ft.	100 ft.
10	1200	2400	250 ft.	150 ft.	100 ft.	
15	1800	3600	150 ft.	100 ft.	65 ft.	
20	2400	4800	125 ft.	75 ft.	50 ft.	
CAUTION: Equipment damage can result from low voltage.						

DCA-125SSJU — PRE-SETUP

Lubrication Oil

Fill the engine crankcase with lubricating oil through the filler hole, but do not overfill. Make sure the generator is level. With the dipstick inserted all the way, but without being screw into the filler hole, verify that the oil level is maintained between the two notches (Figure 40) on the dipstick. See Table 12 for proper selection of engine oil.

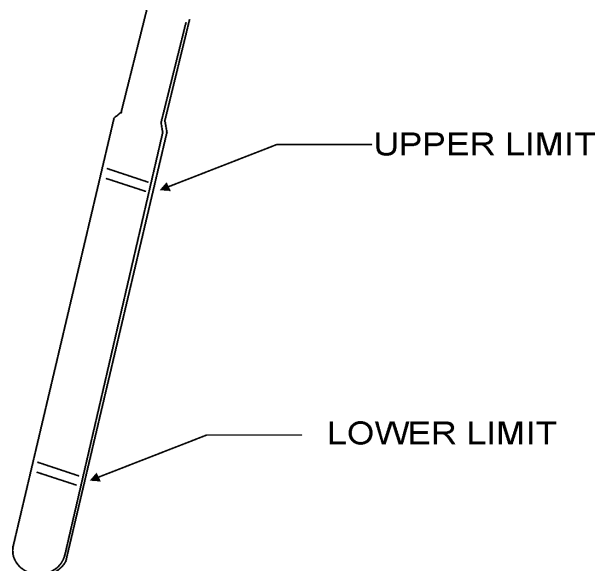


Figure 40. Engine Oil Dipstick

When checking the engine oil, be sure to check if the oil is clean and viscous. If the oil is not clean, drain the oil by removing the oil drain plug, and refill with the specified amount of oil as outlined in the **John Deere Engine Owner's Manual**.

Fuel

Fill the fuel tank with clean and fresh **diesel fuel**. **DO NOT** fill the tank beyond capacity.

Pay attention to the fuel tank capacity when replenishing fuel. Refer to the fuel tank capacity listed on page 23, Specification Table 7.

The fuel tank cap must be closed tightly after filling. Handle fuel in a safety container. If the container does not have a spout, use a funnel. Wipe up any spilled fuel immediately.

CAUTION:

Never fill the fuel tank while the engine is running or in the dark. Diesel spillage on a hot engine can cause a fire or explosion. If diesel spillage occurs, wipe up the spilled diesel completely to prevent fire hazards.

Coolant

Use only drinkable tap water. If hard water or water with many impurities is used, the inside of the engine and radiator may become coated with deposits and cooling efficiency will be reduced.

An anticorrosion additive added to the water will help prevent deposits and corrosion in the cooling system. See the engine manual for further details.

Table 12. Recommended Motor Oil

Temperature Range	Type Oil
104° F ~ 23° F (40° C ~ -5°C)	SAE 15W-40
23° F ~ 5° F (-5° C ~ -15°C)	SAE 5W-30
Below 5° C (-15°)	SAE 30 OR SAE 0W-30

DCA-125SSJU — PRE-SETUP

CAUTION :

When adding coolant or antifreeze to the radiator, do not remove the radiator cap until the unit has completely cooled.

Day-to-day addition of coolant is done from the reserve tank. When adding coolant to the radiator, **DO NOT** remove the radiator cap until the unit has completely cooled. See Table 13 for engine, radiator, and reserve tank coolant capacities. Make sure the coolant level in the reserve tank is always between the "H" and the "L" markings.

Table 13. Coolant Capacity

Engine and Radiator	10.3 Gal. (39 Liters)
Reserve Tank	2 Quarts (1.9 Liters)

Operation in Freezing Weather

When operating in freezing weather, be certain the proper amount of antifreeze (Table 12) has been added.

Table 14. Anti-Freeze Operating Temperatures

Vol % Anti-Freeze	Freezing Point		Boiling Point	
	°C	°F	°C	°F
40	-24	-12	106	222
50	-37	-34	108	226

NOTE

When the antifreeze is mixed with water, the antifreeze mixing ratio must be less than 50%.

Cleaning the Radiator

The engine may overheat if the radiator fins become overloaded with dust or debris. Periodically clean the radiator fins with compressed air. Cleaning inside the machine is dangerous, so clean only with the engine turned off and the battery disconnected.

Air Cleaner

Periodic cleaning/replacement is necessary. Inspect it in accordance with the **John Deere Engine Owner's Manual**.

Fan Belt Tension

A slack fan belt may contribute to overheating, or to insufficient charging of the battery. Inspect the fan belt for damage and wear and adjust it in accordance with the **John Deere Engine Owner's Manual**.

The fan belt tension is proper if the fan belt bends 7 to 10 mm (Figure 41) when depressed with the thumb as shown below.

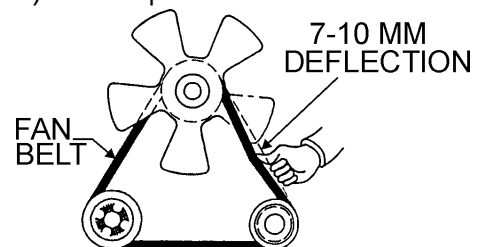


Figure 41. Fan Belt Tension

CAUTION :

Never place hands near the belts or fan while the generator set is running.

Battery

This unit is of negative ground. **DO NOT** connect in reverse. Always maintain battery fluid level between the specified marks. Battery life will be shortened, if the fluid level is not properly maintained. Add only distilled water when replenishment is necessary.

The battery is sufficiently charged if the specific gravity of the battery fluid is 1.28 (at 68°F). If the specific gravity should fall to 1.245 or lower, it indicates the battery is discharged and needs to be recharged or replaced.

Check to see whether the battery cables are loose. Poor contact may result in poor starting or malfunctions. Always keep the terminals firmly tightened. Coating the terminals with a thin film of grease will help inhibit corrosion.

Battery Cable Installation

ALWAYS be sure the battery cables (Figure 42) are properly connected to the battery terminals as shown below. The **RED** cable is connected to the positive terminal of the battery, and the **BLACK** cable is connected to the negative terminal of the battery.

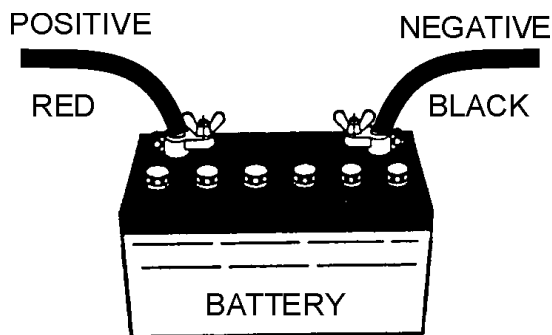


Figure 42. Battery Connections

CAUTION :



Inadequate battery connections may cause poor starting of the generator, and create other malfunctions.

Wiring

Inspect the entire generator for bad or worn electrical wiring or connections. If any wiring or connections are exposed (insulation missing) replace wiring immediately.

Piping and Hose Connection

Inspect all piping, oil hose, and fuel hose connections for wear and tightness. Tighten all hose clamps and check hoses for leaks.

If any hose (fuel or oil) lines are defective replace them immediately.

CAUTION :



If the battery cable is connected incorrectly, electrical damage to the generator will occur. Pay close attention to the polarity of the battery when connecting the battery.

When connecting battery do the following:

1. **DO NOT** connect the battery cables to the battery terminals when the **Off/Manual/Auto** switch is in either the manual or auto position (ON). **ALWAYS** make sure that the Off/Manual/Auto switch is in the OFF position when connecting the battery.
2. Place a small amount of grease around both battery terminals. This will ensure a good connection and will help prevent corrosion around the battery terminals.

DCA-125SSJU — LOAD APPLICATION

Single Phase Load

Always be sure to check the nameplate on the generator and equipment to insure the wattage, amperage and frequency requirements are satisfactorily supplied by the generator for operating the equipment.

Generally, the wattage listed on the nameplate of the equipment is its rated output. Equipment may require 130—150% more wattage than the rating on the nameplate, as the wattage is influenced by the efficiency, power factor and starting system of the equipment.

When the voltage selector switch is in single phase (240/120V position), place the AC voltmeter change-over switch to the U-W position and the AC ammeter change over-switch to the U or W position to read the output.

NOTE

If wattage is not given on the equipment's name plate, approximate wattage may be determined by multiplying nameplate voltage by the nameplate amperage.

$$\text{WATTS} = \text{VOLTAGE} \times \text{AMPERAGE}$$

The power factor of this generator is 1.0. See Table 15. below when connecting loads.

Table 15. Power Factor By Load

Type Of Load	Power Factor
Single-phase induction motors	0.4 - 0.75
Electric heaters, incandescent lamps	1.0
Fluorescent lamps, mercury lamps	0.4 - 0.9
Electronic devices, communication equipment	1.0
Common power tools	0.8

Three Phase Load

When calculating the power requirements for 3-phase power use the following equation:

$$\text{KVA} = \frac{\text{VOLTAGE} \times \text{AMPERAGE} \times \sqrt{3}}{1000}$$

CAUTION:



Motors and motor-driven equipment draw much greater current for starting than during operation.

An inadequate size connecting cable which cannot carry the required load can cause a voltage drop which can burn out the appliance or tool and overheat the cable.

- When connecting a resistance load such as an incandescent lamp or electric heater, a capacity of up to the generating set's rated output (kW) can be used.
- When connecting a fluorescent or mercury lamp, a capacity of up to the generating set's rated output (kW) multiplied by 0.6 can be used.
- When connecting an electric drill or other power tools, pay close attention to the required starting current capacity.

If wattage is not available on the equipment, approximate wattage may be determined by multiplying the nameplate voltage by the nameplate amperage for three-phase:
 $\text{WATTS} = 1.732 \times \text{VOLTAGE} \times \text{AMPERAGE}$

CAUTION:



Before connecting this generator to any building's electrical system, a licensed electrician must install an isolation (transfer) switch. Serious injury or death may result without this transfer switch.

NOTE

If output (kVA) is not given on the equipment nameplate, approximate output may be determined by multiplying voltage by amperage by $\sqrt{3}$

DCA-125SSJU — GENERATOR START-UP PROCEDURE

WARNING:



The engine's exhaust contains harmful emissions. **ALWAYS** ventilate the exhaust when operating inside tunnels, excavations or buildings. Direct exhaust away from nearby personnel.

Before Starting Engine

1. Check the lubricating oil level prior to starting the engine. Make sure the generator is level. The oil level must be maintained between two notches on the dipstick.
2. When there is not enough lubricating oil, fill the crankcase with high grade motor oil. Use a high quality detergent oil classified CC or higher (See Table 10 on page 39).
3. Check the coolant level in the radiator and subtank. Replenish with antifreeze as necessary. Always maintain the coolant level between the **FULL** and **LOW** markings on the coolant container. Be sure that the radiator cap is fastened securely.
4. Check the fuel level on the fuel gauge. If fuel is low, fill the fuel tank with clean fresh unleaded automotive diesel. If diesel spillage occurs, completely wipe up the spilled fuel immediately.

Before Starting Generator and Control Panel

CAUTION:



NEVER start the engine with the **main**, **GFCI** or **load** circuit breakers in the **ON** position.

1. Be sure to disconnect the electrical load and switch the **main**, **load** and **G.F.C.I.** circuit breakers (Figure 43) to the "OFF" position prior to starting the engine.

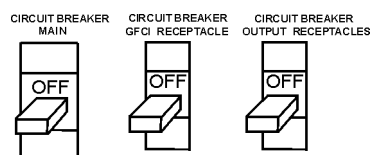


Figure 43. Main, GFCI and Load Circuit Breakers

2. Connect the load to the UVW terminals as shown in Figure 44. These terminals can be found on the output terminal panel, (see page 35 Figure 15). To gain access to the output terminals lift the UVW cover. Tighten terminal nuts securely to prevent load wires from slipping out.

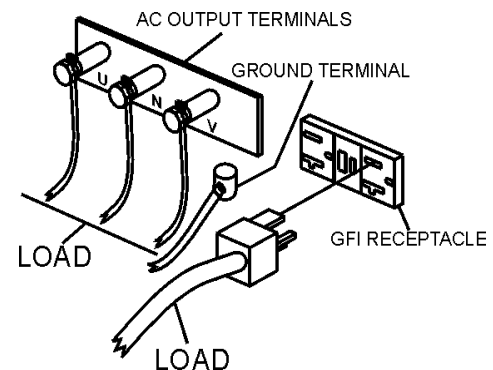


Figure 44. UVW Terminal Lugs (Load)

3. Connect the negative battery cable (BLACK) to the negative post on the battery (Figure 45).

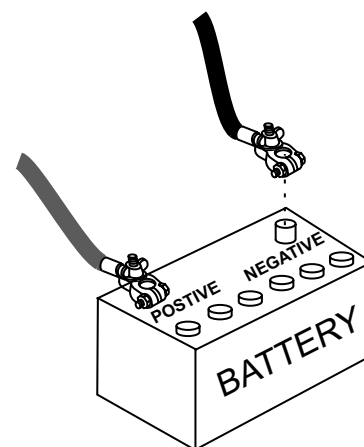


Figure 45. Battery Connections

DCA-125SSJU — GENERATOR START-UP PROCEDURE (MANUAL)

4. Close all engine enclosure doors (Figure 46).

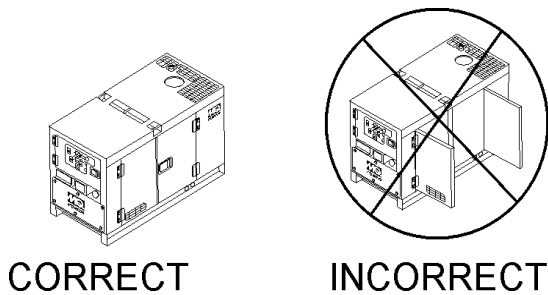


Figure 46. Engine Enclosure Doors

5. When starting the generator in **COLD** weather conditions, press and hold the engine preheat button (Figure 47) .



Figure 47. Engine Pre-Heat Button

6. Check the voltage selection switch is at the desired voltage (Figure 48).

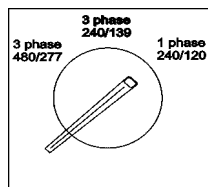


Figure 48. Voltage Selection Switch

7. If the generator is equipped with a engine throttle lever, make sure the lever is pushed in and set to 'IDLE' (Figure 49).

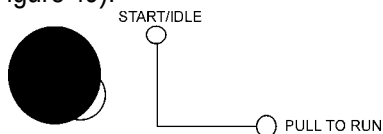


Figure 49. Engine Throttle Lever (IDLE)

8. If the generator has a starter switch, turn the key to 'START' (Figure 50) until the engine starts. Then release the key to set it at 'OPERATION' function.

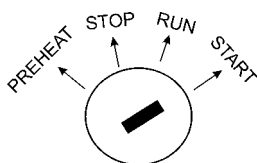


Figure 50. Engine Speed Switch (low)

9. Once the engine is warm and the engine is running properly, pull and turn the lever to 'RUN' (Figure 51).

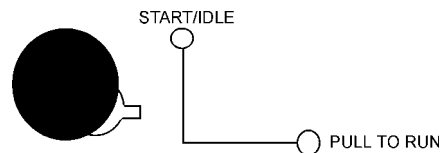


Figure 51. Engine Speed Switch (low)

10. If the generator is equipped with a Microprocessor Engine Control unit (MPEC), set engine speed switch to 'Low' (Figure 52).

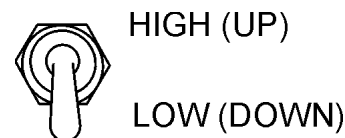


Figure 52. Engine Speed Switch (low)

11. Turn the Auto-Off/Reset-Manual switch to 'Manual' to start the engine (Figure 53). Once the engine starts, let the engine run for 1-2 minutes. Listen for any abnormal noises.

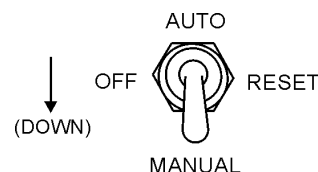


Figure 53. Auto-Off/Reset-Manual Switch

12. Once the engine is warm and the engine is running properly, set the engine speed switch to 'High' (Figure 54).

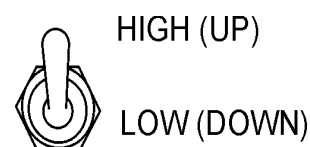


Figure 54. Engine Speed Switch (high)

DCA-125SSJU — GENERATOR START-UP PROCEDURE (MANUAL)

13. The generator's frequency meter (Figure 55) displays the 60 cycle output frequency in **HERTZ**.

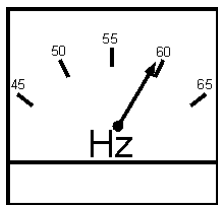


Figure 55. Frequency Meter (Hz)

14. The generator's voltage meter (Figure 56) displays the 120 VAC in **VOLTS**. If the voltage is not within the specified frequency tolerance, use the voltage adjustment control knob (Figure 57) to increase or decrease the desired voltage.

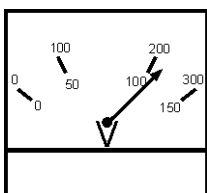


Figure 56. Engine Speed Switch (low)

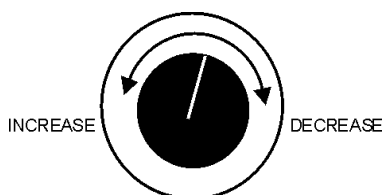


Figure 57. Voltage Adjust Control Knob

15. The ammeter (Figure 58) will indicate zero amps with no load applied. When a load is applied, this meter will indicate the amount of current that the load is drawing from the generator's alternator.

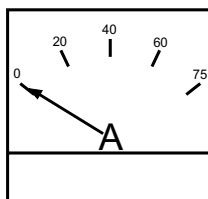


Figure 58. Ammeter (No Load)

16. The engine oil pressure gauge (Figure 59) will indicate the oil pressure (kg/ cm²) of the engine. Under normal operating conditions the oil pressure is approximately 25 psi.

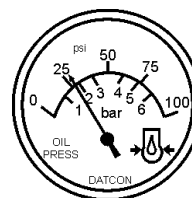


Figure 59. Oil Pressure Gauge

17. The coolant temperature gauge (Figure 60) will indicate the coolant temperature. Under normal operating conditions the coolant temperature is between 165 and 215 degrees Fahrenheit.

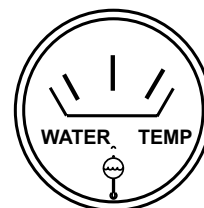


Figure 60. Coolant Temperature Gauge

18. The tachometer (Figure 61) will indicate the speed of the engine when the generator is operating. Under normal operating conditions this speed is approximately 1800 RPM's.

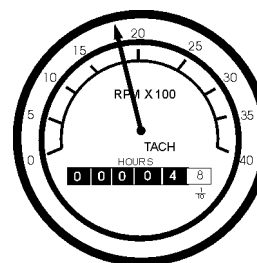


Figure 61. Engine Tachometer

19. Turn the MAIN, GFCI and LOAD circuit breakers to their ON position (Figure 62).

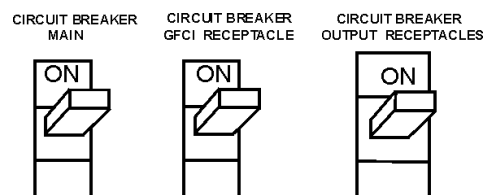


Figure 62. Main and GFCI Circuit Breakers

DCA-125SSJU — GENERATOR START-UP PROCEDURE (AUTO)

20. Observe the generator's ammeter (Figure 63) and verify it reads the anticipated amount of current with respect to the load. The ammeter will only display a current reading if the load is in use.

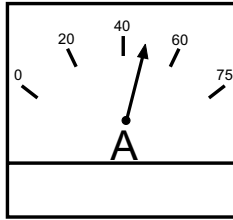
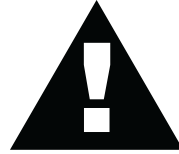


Figure 63. Ammeter (Load)

21. The generator will run until manually stopped or an abnormal condition occurs.

CAUTION:



Before connecting this generator to any building's electrical system, a **licensed electrician** must install an isolation (transfer) switch. Serious ***injury*** or ***death*** may result without this transfer switch.

CAUTION:



When connecting the generator to a isolation (transfer) switch, **ALWAYS** have power applied to the generator's internal battery charger. This will ensure that the engine will not fail due to a dead battery.

Starting the generator in the "AUTO" mode is similar to starting the generator in the "MANUAL" mode, with a few exceptions.

CAUTION:



When running the generator in the **AUTO** mode, remember the generator can start up at any time without warning. **NEVER** attempt to perform any maintenance when the generator is in the auto mode.

When starting generator in Auto mode use the "Manual Start-up" procedure except where noted (see below).

1. Perform steps 1 through 10 (Before Starting, page 49-50) as outlined in the manual starting procedure.
2. Place the Off/Manual/Auto switch (Figure 64) in the **AUTO** position (up).

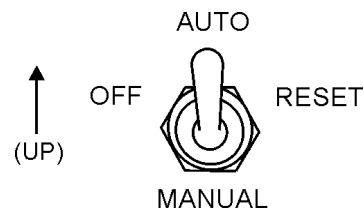


Figure 64. Off/Manual Auto Switch (AUTO)

3. Continue to follow the steps outline in the manual start-up procedure (start at step 12, page 50).

DCA-125SSJU — GENERATOR SHUTDOWN PROCEDURE

ENGINE SHUTDOWN

To shutdown the generator, use the following procedure:

1. Switch both the MAIN, GFCI and LOAD circuit breakers (Figure 65) to the "OFF" position.

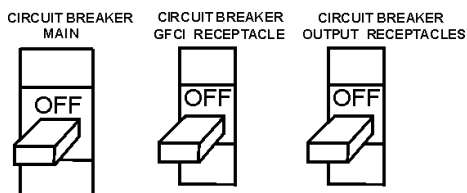


Figure 65. Main, GFCI and Load circuit breakers

2. Set the engine speed switch (Figure 66) to the idle (low) position.

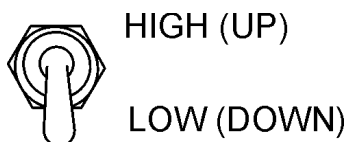


Figure 66. Engine Speed Switch

3. If the engine is equipped with the engine throttle lever, turn and push to 'IDLE' position (Figure 67).

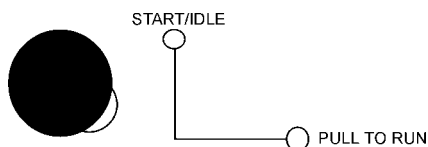


Figure 67. Engine Throttle Lever (IDLE)

4. Let the engine cool by running it for 3-5 minutes with no load applied.
5. Turn the Auto-Off/Reset-Manual switch from the MPEC to "OFF/Reset" position (Figure 68).

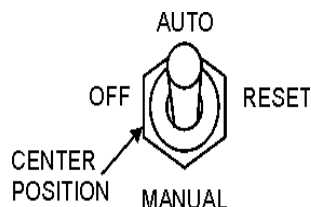


Figure 68. Off/Manual Auto Switch

6. If the engine is equipped with the engine throttle lever, turn the key to "STOP" position (Figure 69).

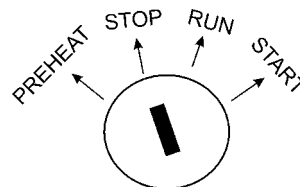


Figure 69. Engine Starter Switch (STOP)

7. Remove the load from the UVW terminal strip.

DCA-125SSJU — MAINTENANCE**General Inspection**

Prior to each use, the generating set should be cleaned and inspected for deficiencies. Check for loose, missing or damaged nuts, bolts or other fasteners. Also check for fuel or oil leaks.

Engine Side, Fuel, Oil and Coolant (Refer to the Engine Instruction Manual)

Air Cleaner

Every 50 hours: Remove air cleaner element and clean heavy duty paper element with kerosene, or foam element with liquid detergent and hot water. Wrap foam element in a cloth and squeeze dry. For heavy duty paper element, wipe excess kerosene with towel.

Fuel Addition

Add diesel fuel (the grade may vary according to season and locations). Always pour through the mesh filter.

Removing Water from the Tank

After prolonged use, water and other impurities accumulate in the bottom of the tank. Occasionally remove the drain cock and drain the contents. During cold weather, the greater the empty volume inside the tank, the easier it is for water to condense. This can be reduced by always keeping the tank as full as possible.

Air Removal

If air enters the fuel injection system of a diesel engine, starting becomes impossible. After running out of fuel, or after disassembling the fuel system, bleed the system according to the following procedure.

To restart after running out of fuel, turn the key switch to the "START" position for 15-30 seconds. Try again, if needed. This unit is equipped with an automatic air bleeding system.

Service Daily

If engine is operating in very dusty and dry grass conditions, a clogged air cleaner will result in high fuel consumption, loss of power and excessive carbon buildup in the combustion chamber.

Cleaning the Fuel Strainer

Clean the fuel strainer if it contains dust or water. Remove dust or water in the strainer cap and wash it in diesel. Securely fasten the fuel strainer cap so that fuel will not leak. Check the fuel strainer every 200 hours of operation or once a month.

Check Oil Level

Check the crankcase oil level prior to each use, or when the fuel tank is filled. Insufficient oil may cause severe damage to the engine. Make sure the generator is level. The oil level must be between the two notches on the dipstick as shown in page 27, Figure 9.

Generator Storage

For storage of the generator for over 30 days, the following is required:

- Drain the fuel tank completely.
- Completely drain the oil from the crankcase and refill with fresh oil.
- Clean all external parts of the generator with a cloth.
- Cover the generating set and store in a clean, dry place.

DCA-125SSJU — MAINTENANCE

TABLE 16.

INSPECTION / MAINTENANCE		10 Hrs DAILY	250 Hrs	500 Hrs	1000 Hrs
ENGINE	Check Engine Fluid Levels	X			
	Check Air Cleaner	X			
	Check Battery Acid Level	X			
	Check Fan Belt Condition	X			
	Check for Leaks	X			
	Check for Loosening of Parts	X			
	Replace Engine Oil and Filter * ¹		X		
	Clean Air Filter		X		
	Drain Bottom of Fuel Tank		X		
	Clean Unit, Inside and Outside		X		
	Change Fuel Filter * ²			X	
	Clean Radiator and Check Coolant Protection Level			X	
	Replace Air Filter Element				X
	Change Corrosion Resistor				X
	Check all Hoses and Clamps				X
	Clean Inside of Fuel Tank				X
GENERATOR	Measure Insulation Resistance Over 3M ohms		X		

*¹ Replace engine oil and filter at 100 hours, first time only.

*² Replace fuel filter at 250 Hours, first time only.

DCA-125SSJU —TROUBLESHOOTING (ENGINE)

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of a breakdown, use the tables shown for

diagnosis based on the Engine Troubleshooting (Table 17). If the problem cannot be remedied, consult our company's business office or service plant.

TABLE 17. ENGINE TROUBLESHOOTING

SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Engine does not start.	No fuel?	Replenish fuel.
	Air in the fuel system?	Bleed system.
	Water in the fuel system?	Remove water from fuel tank.
	Fuel pipe clogged?	Clean fuel pipe.
	Fuel filter clogged?	Clean or change fuel filter.
	Excessively high viscosity of fuel or engine oil at low temperature?	Use the specified fuel or engine oil.
	Fuel with low cetane number?	Use the specified fuel.
	Fuel leak due to loose injection pipe retaining nut?	Tighten nut.
	Incorrect injection timing?	Adjust.
	Fuel cam shaft worn?	Replace.
	Injection nozzle clogged?	Clean injection nozzle.
	Injection pump malfunctioning?	Repair or replace.
	Seizure of crankshaft, camshaft, piston, cylinder liner or bearing?	Repair or replace.
	Compression leak from cylinder?	Replace head gasket, tighten cylinder head bolt, glow plug and nozzle holder.
	Improper valve timing?	Correct or replace timing gear.
	Piston ring and liner worn?	Replace.
	Excessive valve clearance?	Adjust.
Starter does not run.	Starter malfunctioning?	Repair or replace.
	Wiring disconnected?	Connect wiring.

DCA-125SSJU —TROUBLESHOOTING (ENGINE)

TABLE 17. ENGINE TROUBLESHOOTING (CONTINUED)

SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Engine revolution is not smooth.	Fuel filter clogged or dirty?	Clean or change.
	Air cleaner clogged?	Clean or change.
	Fuel leak due to loose injection pipe retaining nut?	Tighten nut.
	Injection pump malfunctioning?	Repair or replace.
	Incorrect nozzle opening pressure?	Adjust.
	Injection nozzle stuck or clogged?	Repair or replace.
	Fuel over flow pipe clogged?	Clean.
	Governor malfunctioning?	Repair.
Either white or blue exhaust gas is observed.	Excessive engine oil?	Reduce to the specified level.
	Piston ring and liner worn or stuck?	Repair or replace.
	Incorrect injection timing?	Adjust.
	Deficient compression?	Adjust top clearance.
Either black or dark gray exhaust gas is observed.	Overload?	Lessen the load.
	Low grade fuel used?	Use the specified fuel.
	Fuel filter clogged?	Clean or change.
	Air cleaner clogged?	Clean or change.
	Deficient nozzle injection?	Repair or replace the nozzle.
Deficient output.	Incorrect injection timing?	Adjust.
	Engine's moving parts seem to be seizing?	Repair or replace.
	Uneven fuel injection?	Repair or replace the injection pump.
	Deficient nozzle injection?	Repair or replace the nozzle.
	Compression leak?	Replace head gasket, tighten cylinder head bolt, glow plug and nozzle holder.

DCA-125SSJU —TROUBLESHOOTING (GENERATOR/ENGINE)

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of a breakdown, use the tables shown for diagnosis based on the Engine and Radiator Troubleshooting (Table 18) and the MPEC trouble shooting table (Table 19). If the problem cannot be remedied, consult our company's business office or service plant.

TABLE 18. ENGINE & GENERATOR TROUBLESHOOTING

SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Engine fails to start and starter does not rotated.	Dead battery?	Replace battery.
	Defective starter switch?	Replace switch.
	Fuse F5 burned out?	Replace fuse.
Engine fails to start and starter rotates.	Broken pre-heat circuit?	Check pre-heat circuit.
	No fuel?	Add fuel.
	Defective wiring?	Check wiring.
Engine starts and remains at low speed.	Clogged fuel strainer?	Clean or replace.
	Clogged air cleaner?	Clean or replace.
	Disconnected wiring?	Check and repair wiring.
Engine speed rises and no voltage is present in AC power source.	No voltage present in AC power source?	Replace rectifier (RE1).
	Defective rotor?	Replace rotor.
	Defective voltmeter?	Replace voltmeter.
	Disconnected wiring?	Check and repair wiring.
	Layer short-circuit in armature winding?	Replace armature.
Engine speed rises and AC power voltage is too low or cannot be used.	Defective circuit breaker (protector)?	Replace circuit breaker (protector).
	Layer short-circuit, broken wires in armature winding?	Repair or replace armature.
Engine speed rises and battery discharges too soon.	Defective engine regulator?	Replace regulator.
	Defective wiring?	Repair or replace wiring.
Engine speed rises and engine seems overloaded.	Defective alternator?	Repair or replace alternator.
	Damaged alternator bearing?	Replace alternator bearings.

DCA-125SSJU —TROUBLESHOOTING (MPEC)

TABLE 19. MPEC TROUBLESHOOTING

Sympton	Possible Cause	Solution
Low oil pressure light is on.	Low oil level?	Fill oil level.
	Oil pressure sending unit failure?	Replace oil pressure sending unit.
	Time delay malfuntion in MPEC?	Refer to dealer.
	Wire shorted?	Inspect/repair wire.
Low coolant level light is on.	Low coolant level?	Fill coolant level.
	Sending unit failure?	Replace sending unit.
	Low battery voltage?	Replace/charge battery.
High coolant temperture light is on.	Fan belt tension incorrect?	Tighten/replace fan belt.
	Air flow is not circulation through radiator?	Clean/repair radiator grill.
	Doors open?	Close doors.
	Exhaust leaking?	Replace/repair gaskets or faulty part.
	Generator being overloaded?	Check/reduce load.
	Thermostat failure?	Replace thermostat.
	Air intake blocked?	Clear all air intakes.
	Temperature switch failure?	Replace temperature switch.
Overcrank light is on.	No or low Fuel?	Fill fuel level.
	MPEC needs to be calibrated?	Refer to dealer.
Overspeed light is on.	RPM engine speed too high?	Adjust RPM.
	Governor actuator needs to be adjusted?	Adjust governor actuator.
	Governor controller needs to be adjusted?	Adjust governor controller.
	MPEC needs to be calibrated?	Refer to dealer.
Loss of MPU light(s) or on.	Magnetic pick up out of adjustment?	Adjust magnetic pick up.
	Magnetic pick up dirty?	Clean magnetic pick up.

EXPLANATION OF CODE IN REMARKS COLUMN

How to read the marks and remarks used in this parts book.

Items Found In the “Remarks” Column

Serial Numbers-Where indicated, this indicates a serial number range (inclusive) where a particular part is used.

Model Number-Where indicated, this shows that the corresponding part is utilized only with this specific model number or model number variant.

Items Found In the “Items Number” Column

All parts with same symbol in the number column, *, #, +, or %, belong to the same assembly or kit.

Note: If more than one of the same reference number is listed, the last one listed indicates newest (or latest) part available.

DCA-125SSJU — SUGGESTED SPARE PARTS

DCA-125SSJUW/JOHN DEERE 6080TF250 DIESEL ENGINE 1 TO 3 UNITS

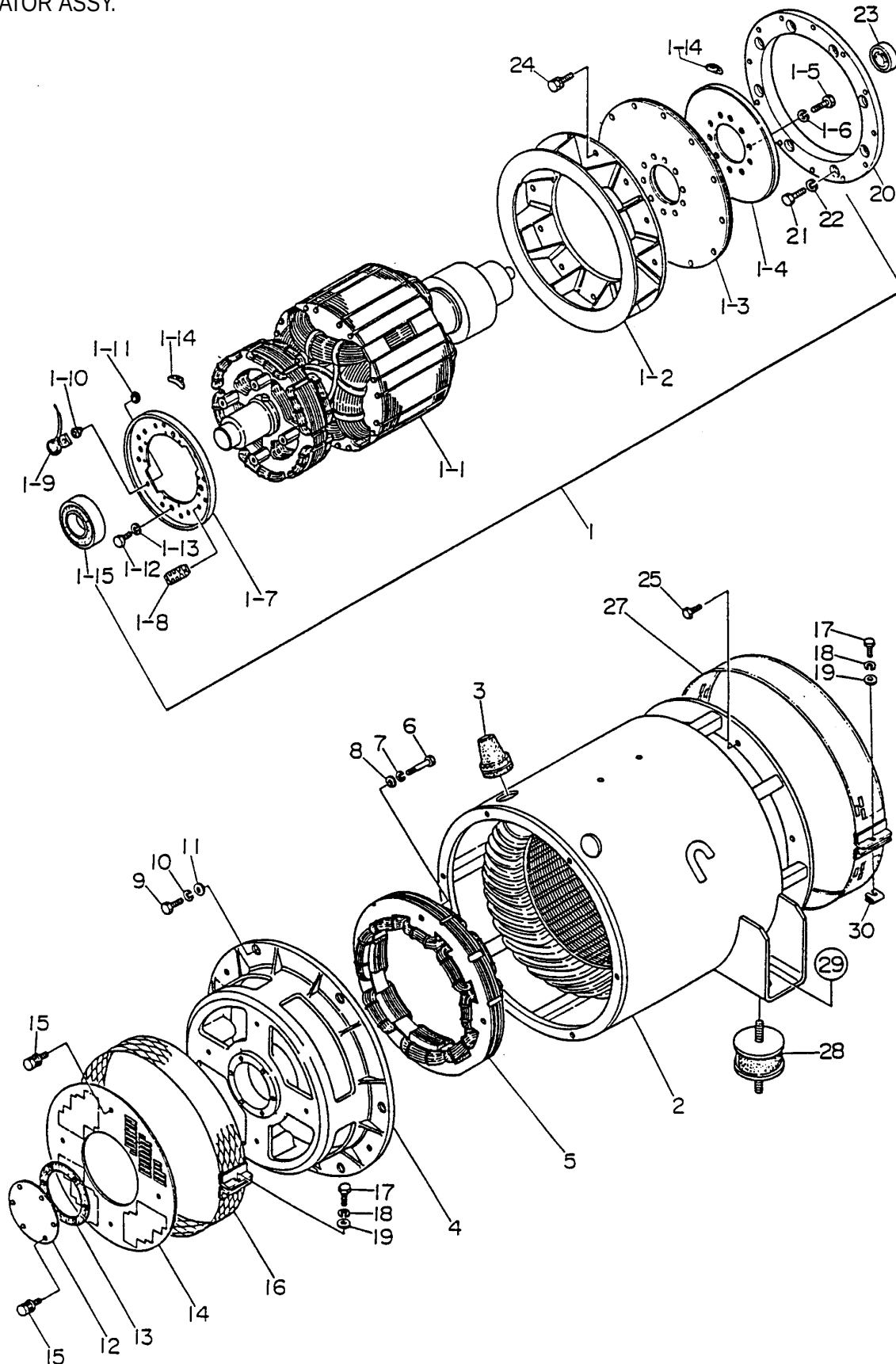
<u>Qty.</u>	<u>P/N</u>	<u>Description</u>
1	0601808813	CIRCUIT BREAKER
1	0601820671	AUTOMATIC VOLTAGE REGULATOR
1	0601840073	RHEOSTAT VOLTAGE REGULATOR
1	0601840121	KNOB RHEOSTAT
1	M3310500003	RADIATOR HOSE, UPPER S/N7500001 TO 7500307
	M3310500403	RADIATOR HOSE, UPPER S/N 7500307~
1	M3310500103	RADIATOR HOSE, LOWER S/N7500001 TO 7500307
1	M3310500503	RADIATOR HOSE, LOWER S/N7500307~
5	0602041290	OIL FILTER
5	0602042590	FUEL FILTER
5	0602046377	AIR ELEMENT
1	0602122271	UNIT OIL PRESSURE S/N7500001 TO 7500120
1	0602122272	UNIT, OIL PRESSURE S/N7500121~
1	062123261	UNIT WATER TEMPERATURE
1	0601810245	BULB, ALARM LAMP
1	R123445	FAN BELT
1	0602122281	OIL SHUTDOWN SWITCH
1	0602100056	STARTER SWITCH, S/N7500001 TO 7500507
3	AR51481	KEY, STARTER SWITCH S/N UP TO 7500507
1	ECU9988N	MPEC S/N FROM 7500508~

NOTE

Part number on this Suggested Spare Parts list may supercede/replace the P/N shown in the text pages of this book.

DCA-125SSJU --- GENERATOR ASSY.

GENERATOR ASSY.



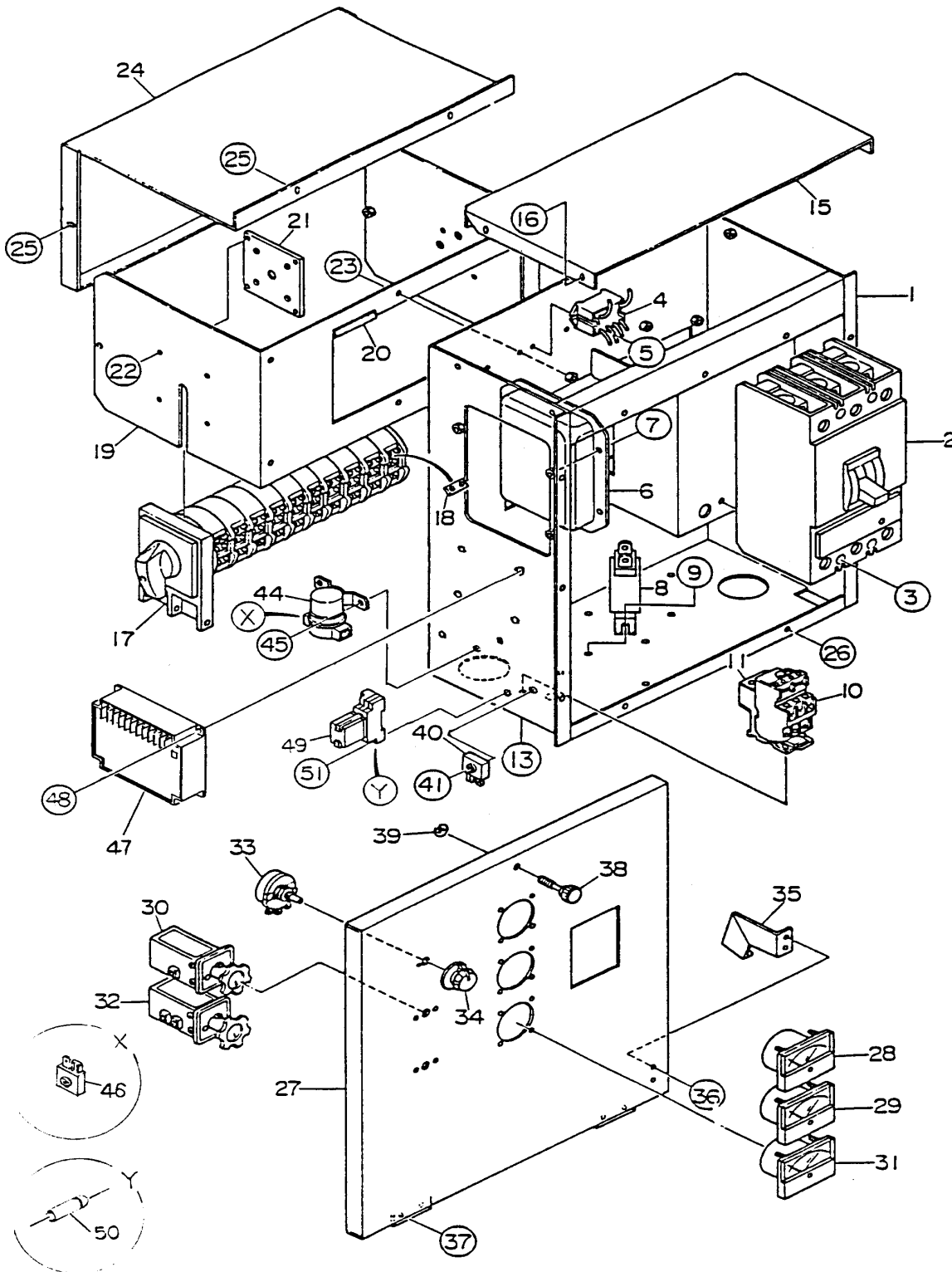
DCA-125SSJU --- GENERATOR ASSY.

GENERATOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
1	C0110000002	ROTOR ASSY.	1	
1-1		FIELD ASSY.	1	
1-2	8131070013	FAN	1	
1-3	8131611014	COUPLING DISK	8	
1-4	8131015003	BALANCING PLATE	1	
1-5	0012112035	HEX. HEAD BOLT	10	
1-6	0042612000	LOCK WASHER	10	
1-7	8101026013	SET PLATE, RECTIFIER	1	
1-8	0601821349	RECTIFIER	2	PT3610
1-9	0601822601	SURGE ABSORBER	1	ERZM14JK621A
1-10	8001020004	INSULATOR WASHER	1	
1-11	8001020504	INSULATOR WASHER	1	
1-12	0010110020	HEX. HEAD BOLT	4	
1-13	0040010000	LOCK WASHER	4	
1-14	0601000209	BALANCING WEIGHT KIT	1	
1-15	0071906312	BEARING	1	6312DDUC3
2	8131340213	STRATOR ASSY.	1	
3	0845041804	GROMMET	2	
4	8131315202	END BRACKET	1	
5	8101350013	FIELD ASSY. EXCITER	1	
6	0012110060	HEX. HEAD BOLT	4	
7	0042610000	LOCK WASHER	4	
8	031110160	PLAIN WASHER	4	REPLACES 0041210000
9	0010112035	HEX. HEAD BOLT	6	
10	0040012000	LOCK WASHER	6	
11	031112230	PLAIN WASHER	6	REPLACES 0041212000
12	8131310104	COVER, BEARING	1	
13	8131312204	GASKET, BEARING	1	
14	8131331003	COVER, END BRACKET	1	
15	0105050616	HEX. HEAD BOLT	10	REPLACES 0017106012
16	8101333003	COVER, END BRACKET	1	
17	0010106030	HEX. HEAD BOLT	2	
18	0040006000	LOCK WASHER	2	
19	952404470	PLAIN WASHER	2	REPLACES 0041206000
20	M3163400003	COUPLING RING	1	
21	0013904044	HEX. HEAD BOLT	8	S/N7500001 TO 7500242
	034320415	HEX. HEAD BOLT	8	S/N7500243~
22	EM923344	LOCK WASHER	8	REPLACES 0043604000
23	0070506306	BEARING	1	6306ZZ
24	0012810030	HEX. HEAD BOLT	12	
25	0010310035	HEX. HEAD BOLT	12	S/N7500001 TO 7500242
	0012810030	HEX. HEAD BOLT	12	S/N7500243~
26	0042510000	LOCK WASHER	12	S/N7500001 TO 7500242
27	8131332003	COVER, FAN	1	S/N7500001 TO 7500003
	8131332014	COVER, FAN	1	S/N7500004~
28	0605000063	RUBBER SUSPENSION	2	
29	0030016000	HEX. NUT	2	
	0040016000	LOCK WASHER	2	
30	020106050	NUT	1	REPLACES 0600815000 S/N7500004~

DCA-125SSJU --- CONTROL BOX ASSY.

CONTROL BOX ASSY.



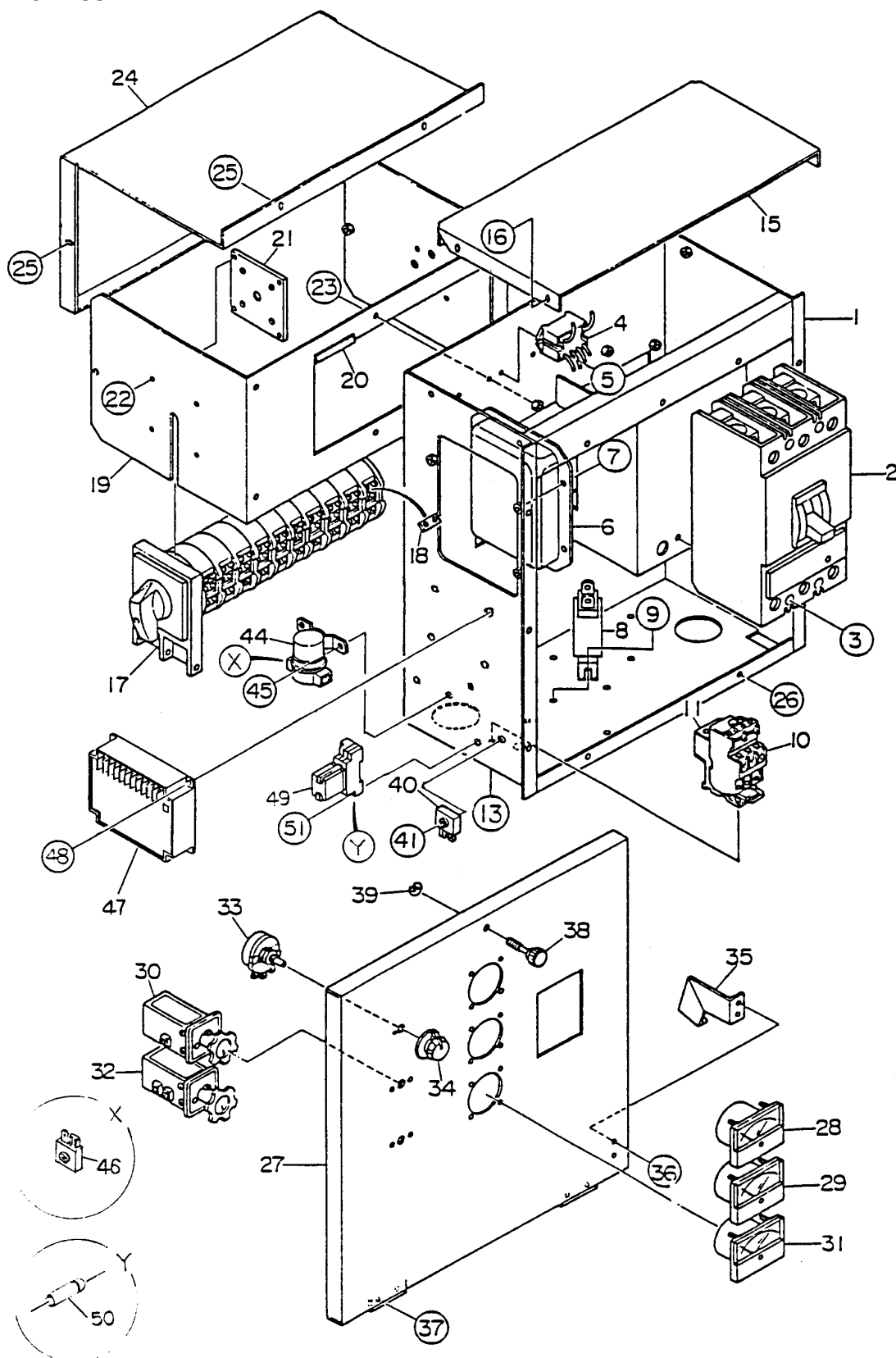
DCA-125SSJU --- CONTROL BOX ASSY.

CONTROL BOX ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
	M3246700304	WIRE HARNESS, GENERATOR	1	
1	M3213000102	CONTROL BOX	1	S/N7500001 TO 7500048
	M3213000112	CONTROL BOX	1	S/N7500049 TO 7500222
	M3213000132	CONTROL BOX	1	S/N7500508~
2	0601808813	CIRCUIT BREAKER	1	LAF3630010213P 300A
3	0021006080	MACHINE SCREW	4	
4	0601823863	RELAY UNIT	2	MSA9013A
5	0021304015	MACHINE SCREW	4	REPLACES 0027104015
6	0601820671	AUTOMATIC VOLTAGE REGULATOR	1	NTA5A2DB
7	0027105010	MACHINE SCREW	4	S/N7500001 TO 7500222
8	0601806118	CURRENT TRANSFORMER	3	814943 200/5A
9	011808015	MACHINE SCREW	6	REPLACES 0027106015
10	0601820845	OVER CURRENT RELAY	1	LR2D1308
11	0601820846	OVER CURRENT RELAY	1	LA7D1064
12	M1260600004	FITTING BRACKET	1	S/N75000001 TO 7500222
13	0021304015	MACHINE SCREW	2	REPLACES 0027104015
	0030004000	HEX. NUT	2	REPLACES 0207004000
14	0027104010	MACHINE SCREW	2	S/N7500001 TO 7500222
15	M3213500003	CONTROL BOX COVER	1	S/N7500001 TO 7500048
	M3213500013	CONTROL BOX COVER	1	S/N7500049~
16	011106015	HEX. HEAD BOLT	4	REPLACES 0016906015
17	M3923100004	SELECTOR SWITCH	1	VY125
18	M3276600004	SPACER	8	
19	M3213600003	SWITCH BRACKET	1	
20	0330000295	EDGING	2	
21	M3260500004	SWITCH BOARD	1	
22	0020004010	MACHINE SCREW	4	REPLACES 0021104010
23	011106015	HEX.HEAD BOLT	6	REPLACES 0016906015
24	M3213600114	SWITCH COVER	1	REPLACES M3213600104
25	011106015	HEX. HEAD BOLT	4	REPLACES 0016906015
26	011106015	HEX. HEAD BOLT	10	REPLACES 0016906015
	0040506000	TOOTHED WASHER	1	
27	M3223000103	CONTROL PANEL	1	
28	0601807630	FREQUENCY METER	1	264250DJDJ9

DCA-125SSJU --- CONTROL BOX ASSY.

CONTROL BOX ASSY.



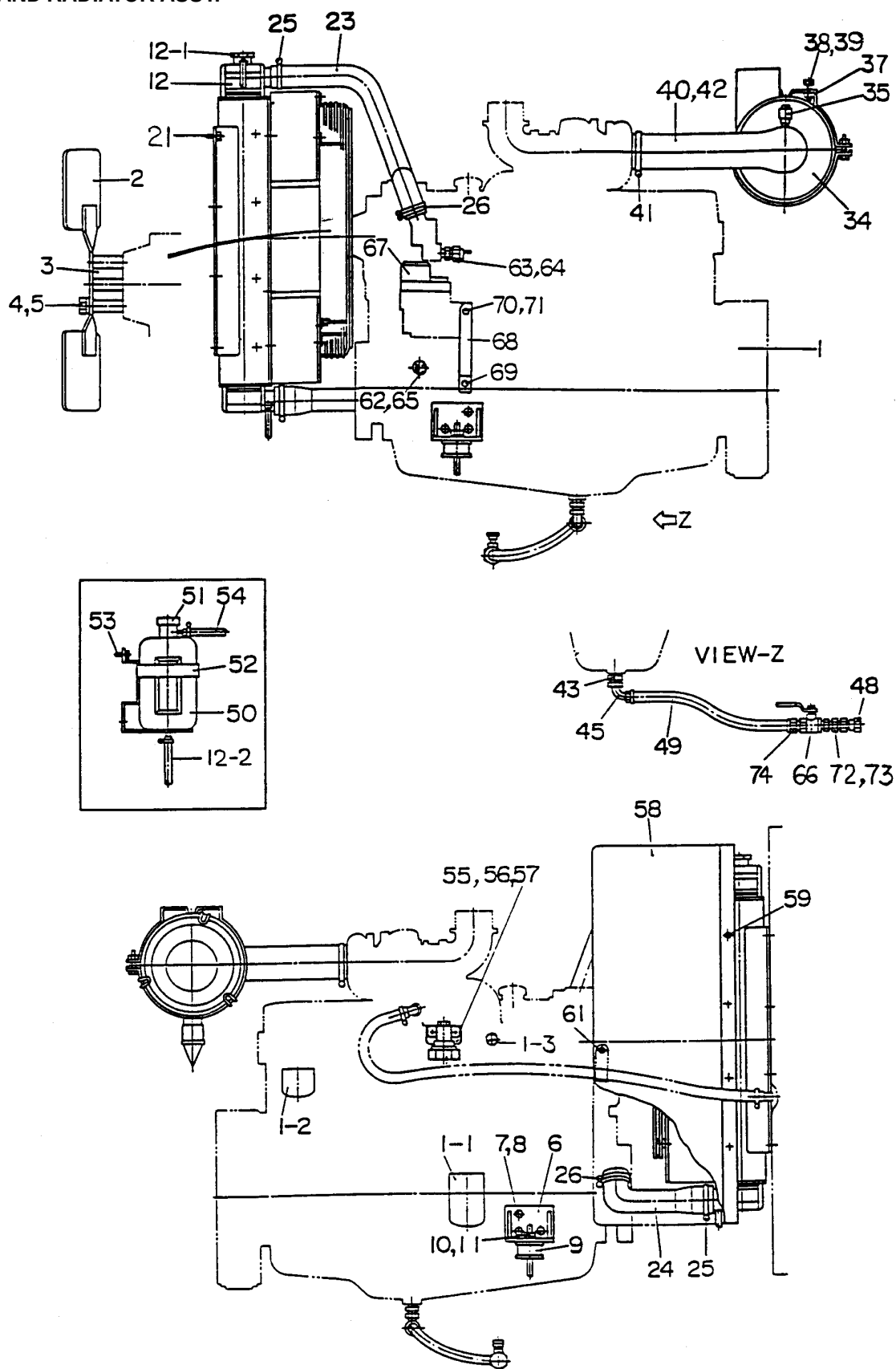
DCA-125SSJU --- CONTROL BOX ASSY.

CONTROL BOX ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
29	0601808953	AC AMMETER	1	260240LSLS1JCA
30	0601801040	CHANGE-OVER SWITCH, AMMETER	1	SL2AS
31	0601806813	AC VOLTMETER	1	260244SJS1
32	0601801041	CHANGE-OVER SWITCH, VOLTMETER ...	1	SL2VS
33	0601840073	RHEOSTAT (VOLTAGE REGULATOR)	1	RA20A2SE102BJ 2W 1K OHM
34	0601840121	KNOB	1	
35	M1223100004	STOPPER	1	
36	0027105015	MACHINE SCREW	2	
37	0027105015	MACHINE SCREW	1	
38	M9220100004	SET SCREW	1	
39	0080200007	SNAP RING	1	
40	0601823240	RECTIFIER	1	DE4503
41	0027104020	MACHINE SCREW	1	S/N7500001 TO 7500307
	0027105020	MACHINE SCREW	1	S/N7500308 TO 7500507
	0027104020	MACHINE SCREW	1	S/N7500508~
42	0602200478	EMERGENCY RELAY	1	1070160602,3 S/N 7500001 TO 7500507
43	0027105040	MACHINE SCREW	2	S/N7500001 TO 7500507
44	0602202592	STARTER RELAY	1	AT141011
45	011808015	MACHINE SCREW	2	REPLACES 0027106015
46	0601823240	RECTIFIER	1	DE4503 S/N7500508~
47	DYN110794000012	CONTROLLER	1	REPLACES 0602202599 S/N7500508~
	MPS6724	SPEED SENSOR, MAGNETIC PICK-UP ..	1	REPLACES 0602120485 S/N7500508~
48	0027105015	MACHINE SCREW	4	S/N7500508~
49	0601823768	RELAY	1	LY2US12VD S/N7500508 TO 7500542
	LY2US12VDC	RELAY	1	REPLACES 0601827656 S/N7500543~
	PTF08AE	BASE, RELAY SOCKET	1	REPLACES 0601823109 S/N7500508~
	PYCA1	CLIP	2	REPLACES 0601824400 S/N7500508~
50	0601823223	RECTIFIER	1	30D4 S/N7500508 TO 7500542
51	0027104020	MACHINE SCREW	2	S/N7500508~

DCA-125SSJU ENGINE AND RADIATOR ASSY.

ENGINE AND RADIATOR ASSY.



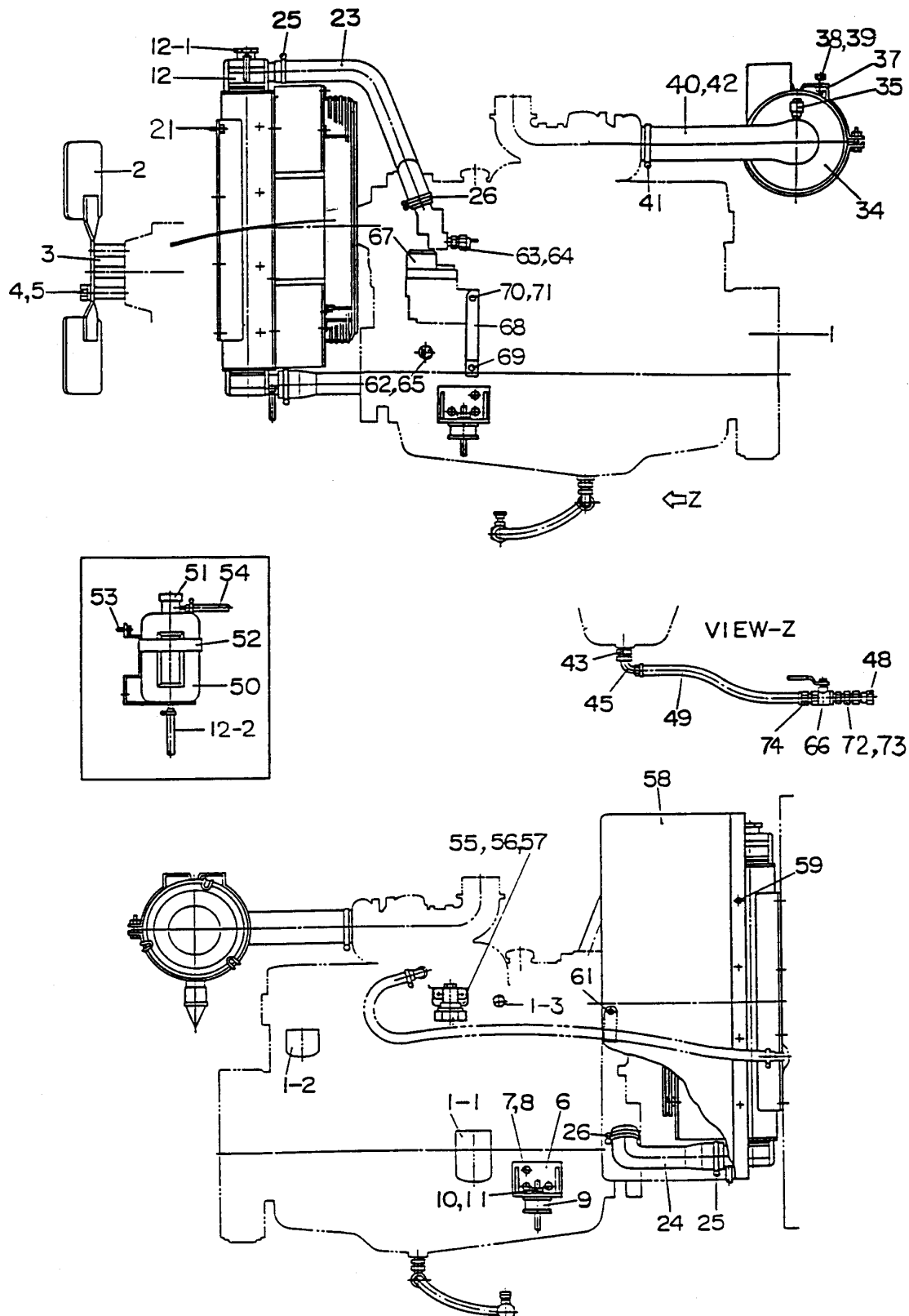
DCA-125SSJU ENGINE AND RADIATOR ASSY.

ENGINE AND RADIATOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
1	M3923200004	ENGINE	1	JOHN DEERE 6068TF
	0602011491	FAN BELT	1	
1-1	0602041290	ELEMENT, OIL FILTER	1	JOHN DEERE RE59754A
1-2	0602042590	ELEMENT, FUEL FILTER	1	JOHN DEERE RE62418
1-3	0602014297	ELECTRIC HEATER	1	JOHN DEERE RE29658
				S/N7500001 TO 7500262
		ELECTRIC HEATER ASSY.	1	JOHN DEERE RE502668 S/N7500263~
2	0602060010	BLOWER FAN	1	422198
3	0602061000	FAN SPACER	1	JOHN DEERE R81911
4	0012110090	HEX. HEAD BOLT	4	S/N7500001 TO 7500003
	0012110095	HEX. HEAD BOLT	4	S/N7500004~
5	030210250	LOCK WASHER	4	REPLACES 0042510000
6	M2303200303	ENGINE FOOT	2	
7	0131151240	HEX. HEAD BOLT	6	REPLACES 0010312030
8	0040012000	LOCK WASHER	6	
9	0605000060	RUBBER SUSPENSION	2	
10	0030012000	HEX. NUT	2	
11	0040012000	LOCK WASHER	2	
12	0602011988	RADIATOR	1	JOHN DEERE RE52824
				S/N7500001 TO 7500307
	0602012723	RADIATOR	1	C2810060000 S/N7500308~
12-1	0602011067	CAP	1	S/N7500001 TO 7500307
	0602011066	CAP	1	S/N7500308~
12-2	0199101200	HOSE	1	S/N7500308~
13	0602010795	FAN COVER	1	C2810044210 S/N7500001 TO 7500307
14	0013006008	HEX. HEAD BOLT	8	S/N7500001 TO 7500307
15	0043106000	PLAIN WASHER	8	S/N7500001 TO 7500307
16	M3310200204	RADIATOR BRACKET	1	S/N7500001 TO 7500307
17	M3310200404	RADIATOR BRACKET	1	S/N7500001 TO 7500307
18	0013006008	HEX. HEAD BOLT	8	S/N7500001 TO 7500307
19	0043006000	LOCK WASHER	8	S/N7500001 TO 7500307
20	0043106000	PLAIN WASHER	8	S/N7500001 TO 7500307
21	011008020	HEX. HEAD BOLT	8	REPLACES 0016908020
22	0138102000	PLUG	1	S/N7500001 TO 7500307
23	M3310500003	RADIATOR HOSE	1	S/N7500001 TO 7500307
	M3310500403	RADIATOR HOSE	1	S/N7500308~
24	M3310500103	RADIATOR HOSE	1	S/N7500001 TO 7500307
	M3310500503	RADIATOR HOSE	1	S/N7500308~
25	0605515148	HOSE BAND	2	
26	0605515147	HOSE BAND	2	
27	0605512190	HOSE JOINT	1	S/N7500001 TO 7500307
28	M2320300103	DRAIN JOINT	1	S/N7500001 TO 7500307
29	M9200200004	DRAIN BOLT	1	S/N7500001 TO 7500307
30	0150000018	O RING	1	S/N7500001 TO 7500307
31	0016906020	HEX. HEAD BOLT	2	S/N7500001 TO 7500307
32	0191300580	DRAIN HOSE	1	S/N7500001 TO 7500307
33	0605515189	HOSE BAND	2	91004 S/N7500001 TO 7500307
34	0602046258	AIR CLEANER	1	FRG100297
	0602046377	ELEMENT, AIR CLEANER	1	P778214
35	0602040650	INDICATOR, AIR CLEANER	1	RBX002252
36	0603306385	NIPPLE	1	S/N7500001 TO 7500004
37	0602040596	BAND, AIR CLEANER	2	P004076

DCA-125SSJU ENGINE AND RADIATOR ASSY.

ENGINE AND RADIATOR ASSY.



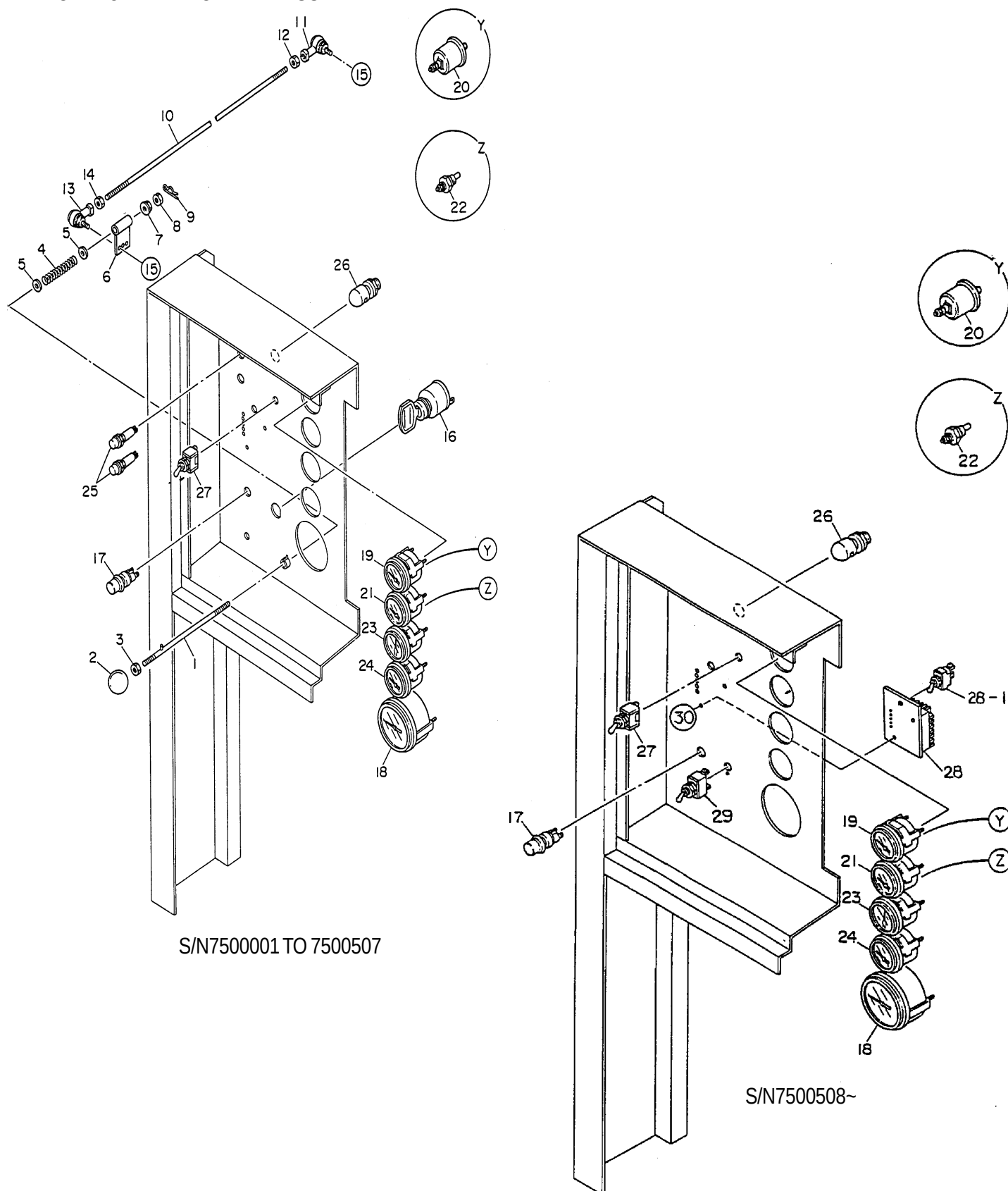
DCA-125SSJU ENGINE AND RADIATOR ASSY.

ENGINE AND RADIATOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
38	011008020	HEX. HEAD BOLT	4	REPLACES 0016908020
39	020108060	HEX. NUT	4	REPLACES 0207008000
40	M337310003	HOSE, AIR CLEANER	1	
41	0605515146	HOSE BAND	1	5035
42	0605515200	HOSE BAND	1	5072
43	0602022563	ADAPTER	1	10M18X1.5 F80XS
44	0602021165	O RING	1	S/N7500001 TO 7500307
45	0602022561	90° ELBOW	1	398210-10+
46	0602022562	UNION	1	10WTXWLNS S/N7500001 TO 7500307
47	0602022792	SWIVEL	1	306821010 S/N7500001 TO 7500307
48	0602021070	CAP	1	10FNTXS
49	0602021573	DRAIN HOSE	1	83610 S/N7500001 TO 7500307
	0269200406	DRAIN HOSE	1	83610 S/N7500508~
50	M9300000203	RESERVE TANK	1	
51	0802010900	CAP, RESERVE TANK	1	REPLACES 0602010900
52	M3316100104	BRACKET, RESERVE TANK	1	
53	011008020	HEX. HEAD BOLT	2	REPLACES 0016908020
54	0193601080	HOSE	1	
55	M2260600014	RELAY BRACKET	1	S/N7500001 TO 7500262
	M2260600024	RELAY BRACKET	1	S/N7500263~
56	0602202597	RELAY	1	JOHN DEERE AL64309 S/N7500001 TO 7500262
	0602202592	RELAY	1	JOHN DEERE AT141011 S/N7500263~
57	0017105015	HEX. HEAD BOLT	1	S/N7500001 TO 7500262
	011808015	MACHINE SCREW	2	REPLACES 0027106015 S/N7500263~
58	M3313100004	RADIATOR COVER	1	S/N7500001 TO 7500307
	M3313100204	RADIATOR COVER	1	S/N7500308~
59	011008020	HEX. HEAD BOLT	4	REPLACES 0016908020
60	0043006000	LOCK WASHER	8	S/N7500001 TO 7500307
61	011008020	HEX. HEAD BOLT	1	REPLACES 0016908020
62	0602122281	OIL SWITCH	1	1718939011
63	0602123282	WATER SWITCH	1	1518183041
64	M9200100404	ADAPTER	1	
65	M9200100704	ADAPTER	1	S/N7500004~
66	0605511395	VALVE	1	XV500P8 S/N7500508~
67	DYNC70025000012	ACTUATOR	1	REPLACES 0602150093 S/N7500508~
68	M3356200004	STOPPER BRACKET	1	S/N7500508~
69	012210020	HEX. HEAD BOLT	1	REPLACES 0017110020 S/N7500508~
70	0016906020	HEX. HEAD BOLT	1	S/N7500508~
71	0207006000	HEX. NUT	1	S/N7500508~
72	0603306590	CONNECTOR	1	10WFTXS S/N7500508~
73	0603300285	ROCK UNIT	1	10WLN S/N7500508~
74	0603306395	HOSE JOINT	1	30182810 S/N7500508~

DCA-125SSJU --- ENGINE OPERATING PANEL ASSY.

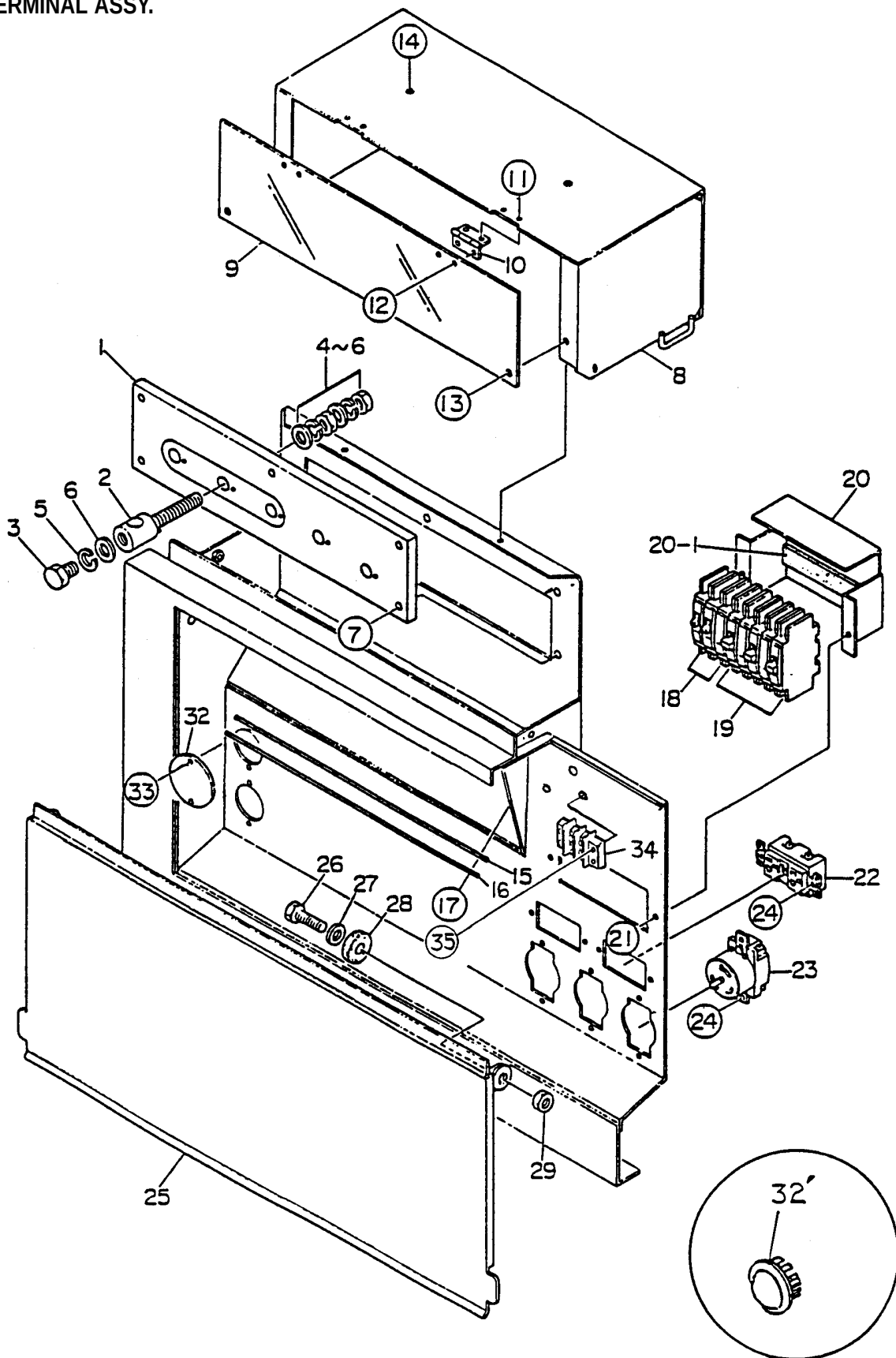
ENGINE OPERATING PANEL ASSY.



DCA-125SSJU --- ENGINE OPERATING PANEL ASSY.

ENGINE OPERATING PANEL ASSY.

<u>NO.</u>	<u>PARTS NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
	M3357200002	WIRE HARNESS, ENGINE	1	S/N7500001 TO 7500262
	M3357200012	WIRE HARNESS, ENGINE	1	S/N7500263 TO 7500507
	M3359200302	WIRE HARNESS, ENGINE	1	S/N7500508~
1	M1354300304	SLIDE LEVER	1	S/N7500001 TO 7500507
2	M9320000004	KNOB	1	S/N7500001 TO 7500507
3	0036003000	HEX. NUT	1	S/N7500001 TO 7500507
4	0605804150	SPRING	1	5639 S/N7500001 TO 7500507
5	0041208000	PLAIN WASHER	2	S/N7500001 TO 7500507
6	M1354200004	BRACKET	1	S/N7500001 TO 7500507
7	0207008000	HEX. NUT	1	S/N7500001 TO 7500507
8	0030008000	HEX. NUT	1	S/N7500001 TO 7500507
9	0605010550	SNAP PIN	1	222NPH10Z S/N7500001 TO 7500507
10	M3354300104	GOVERNOR ROD	1	S/N7500001 TO 7500507
11	0602180106	BALL JOINT	1	LHSA8DE161 S/N7500001 TO 7500507
12	0030008000	HEX. NUT	1	S/N7500001 TO 7500507
13	0602180107	BALL JOINT	1	LHSA8DLE161 S/N7500001 TO 7500507
14	0036508000	HEX. NUT	1	
15	0207006000	HEX. NUT	2	S/N7500001 TO 7500507
	0041206000	PLAIN WASHER	2	S/N7500001 TO 7500507
16	0602100056	STARTER SWITCH	1	JOHN DEERE AR58126 S/N7500001 TO 7500507
	0602100028	SET NUT	1	JOHN DEERE R44342 S/N7500001 TO 7500507
	0602100029	SET WASHER	1	JOHN DEERE A4827R S/N7500001 TO 7500507
17	0601831594	COLD STARTING BUTTON	1	JOHN DEERE R39554 S/N 7500001 TO 7500342
	0601831585	COLD STARTING BUTTON	1	S/N7500343~
	0601831584	CAP	1	JOHN DEERE T55585 S/N7500001 TO 7500342
	0601831588	CAP	1	JOHN DEERE 44053 S/N7500343~
18	0602120096	TACHOMETER	1	103678
19	0602122093	OIL PRESSURE GAUGE	1	100174
20	0602122271	UNIT, OIL PRESSURE	1	105965 S/N7500001 TO 7500120
	0602122272	UNIT, OIL PRESSURE	1	108497 S/N7500121~
21	0602123092	WATER TEMPERATURE GAUGE ...	1	100182
22	062123261	UNIT WATER TEMPERATURE	1	0202500
23	0602121080	CHARGING AMMETER	1	100158
24	0602125090	FUEL GAUGE	1	100176
25	0602103092	ALARM LAMP	2	PL05 S/N7500001 TO 7500507
	0601810245	BULB	2	E10T10DC18V S/N7500001 TO 7500507
26	0601810141	PANEL LIGHT	1	9826800370
27	0601831330	SWITCH, PANEL LIGHT	1	900001
28	ECU9988N	ENGINE CONTROLLER	1	REPLACES 0602202546 S/N 7500508~
28-1	0601831340	SWITCH	1	7562K4 S/N7500508~
	0600500091	NAME PLATE	1	S/N7500508~
29	0601831395	SWITCH	1	7302K36 S/N 7500508~
30	0027104035	MACHINE SCREW	2	S/N7500508~
	0030004000	HEX. NUT	2	REPLACES 0207004000 S/N7500508~

DCA-125SSJU --- OUTPUT TERMINAL ASSY.**OUTPUT TERMINAL ASSY.**

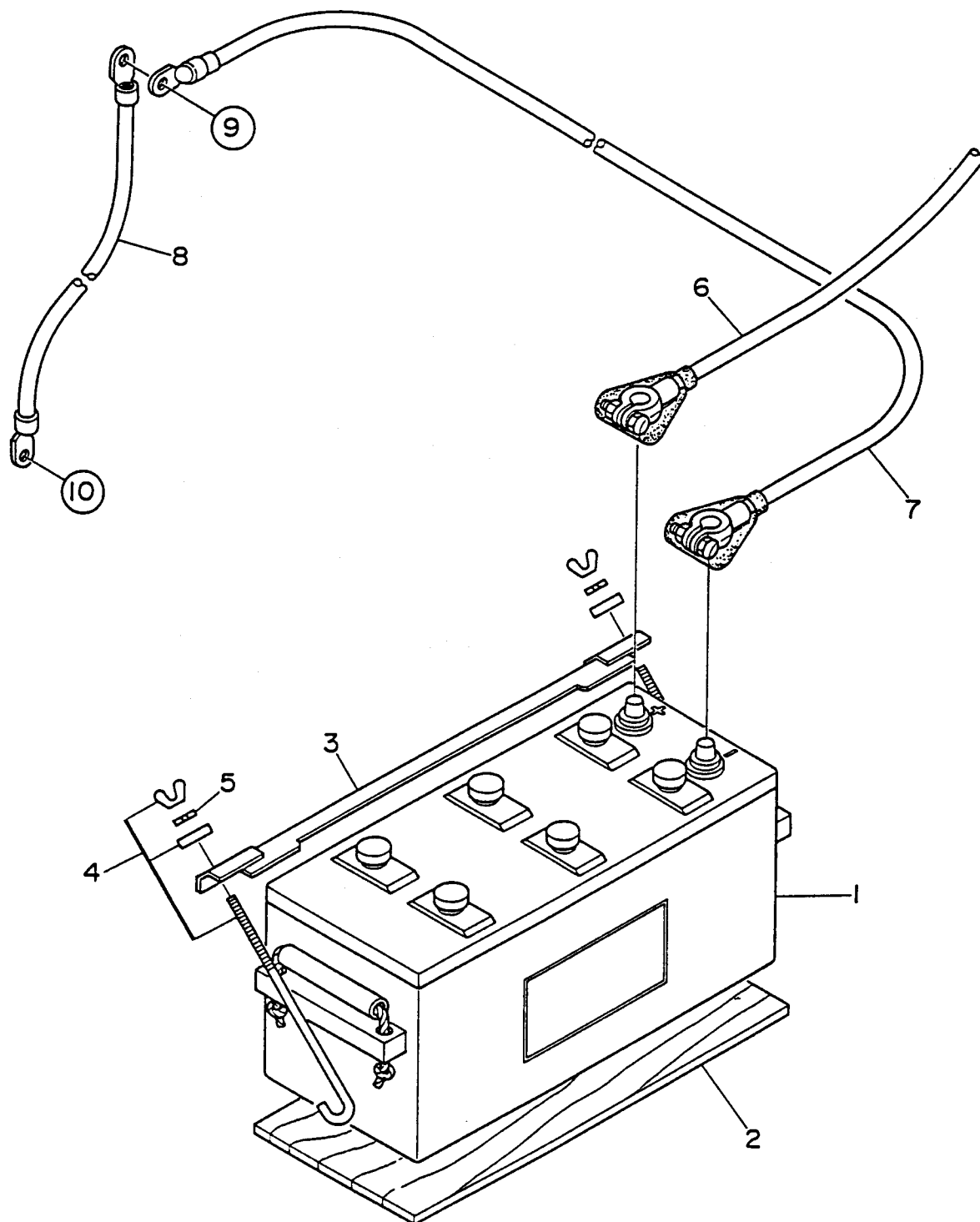
DCA-125SSJU --- OUTPUT TERMINAL ASSY.

OUTPUT TERMINAL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY</u>	<u>REMARKS</u>
1	M3230700003	TERMINAL PANEL	1	
2	M9220100304	OUTPUT TERMINAL BOLT	5	
3	M9220100404	TIE BOLT	5	
4	0039316000	HEX. NUT	10	
5	0040016000	LOCK WASHER	15	
6	0041416000	PLAIN WASHER	20	
7	0012108035	HEX. HEAD BOLT	5	REPLACES 0016908035
8	M3236100303	TERMINAL COVER	1	S/N7500001 TO 7500307
	M3236100313	TERMINAL COVER	1	S/N7500308 TO 7500507
	M3238100103	TERMINAL COVER	1	S/N7500508~
9	M3236100104	OUTPUT WINDOW	1	
10	0605010040	HINGE	2	THM122
11	0027103010	MACHINE SCREW	4	
	0207003000	HEX. NUT	4	REPLACES 0030003000
	0041203000	PLAIN WASHER	4	
12	0027103010	MACHINE SCREW	4	
	0207003000	HEX. NUT	4	REPLACES 0030003000
13	011206020	HEX. HEAD BOLT	2	REPLACES 0016906020
14	0016906015	HEX. HEAD BOLT	4	
15	M2236400004	CABLE OUTPUT COVER	1	S/N7500001 TO 7500034
	M3236400004	CABLE OUTPUT COVER	1	S/N7500035~
16	M2236300004	SUPPORTER, CABLE OUTPUT COVER	1	S/N7500001 TO 7500034
	M3236300004	SUPPORTER, CABLE OUTPUT COVER	1	S/N7500035~
17	011206020	HEX. HEAD BOLT	6	REPLACES 0016906020
18	0601808803	CIRCUIT BREAKER	2	QOU120B1P 20A
19	0601808804	CIRCUIT BREAKER	3	QOU250B2P 50A
20	M1260700304	BREAKER FITTING COVER	1	
20-1	0222100150	CUSHION RUBBER	1	
21	011206020	HEX.HEAD BOLT	2	REPLACES 0016906020
22	0601812597	RECEPTACLE	2	REPLACES 0601812598 GF530EM 125V 20AX2
23	0601811034	RECEPTACLE	3	REPLACES 0601812538 CS6369250V50A
24	0021304015	MACHINE SCREW	10	REPLACES 0027104015
	0207004000	HEX. NUT	10	
25	M3236100203	TERMINAL COVER	1	S/N7500001 TO 7500034
	M3236100213	TERMINAL COVER	1	S/N7500035~
26	012212045	HEX. HEAD BOLT	2	REPLACES 0010112045
27	0041212000	PLAIN WASHER	2	
28	M9310200004	STAY RUBBER	2	
29	0030012000	NUT	2	
30	M2354200004	SUPPORTER, GOVERNOR ROD	1	S/N7500001 TO 7500507
31	0016906015	HEX. HEAD BOLT	2	S/N7500001 TO 7500507
32	M3455600004	PLUG	2	S/N7500508~
	0603306775	PLUG	2	S/N7500508~
33	0021304015	MACHINE SCREW	4	REPLACES 0027104015S/N7500508~
34	0601815194	TERMINAL	1	601GP02 S/N7500508
35	0021304015	MACHINE SCREW	2	REPLACES 0027104015 S/N7500508~

DCA-125SSJU --- BATTERY ASSY.

BATTERY ASSY.



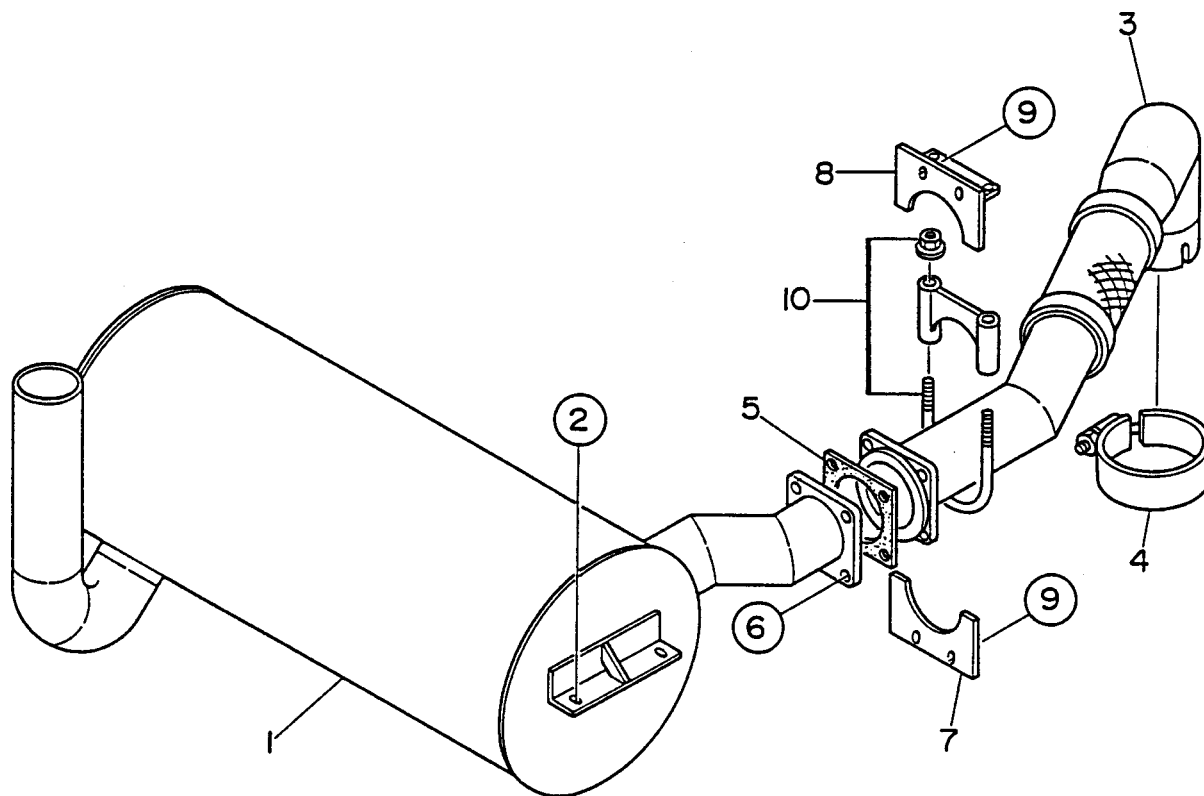
DCA-125SSJU --- BATTERY ASSY.

BATTERY ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
1	0602220196	BATTERY	1	4D2
2	M9310500404	BATTERY SHEET	1	
3	M9103000504	BATTERY BAND	1	
4	0602220921	BATTERY BOLT SET	2	
5	0040006000	LOCK WASHER	2	
6	M3346900004	BATTERY CABLE	1	
7	M3346900104	BATTERY CABLE	1	
8		CABLE	1	
9	0017112025	HEX. HEAD BOLT	1	
	0040512000	TOOTHED WASHER	1	
10	012210020	HEX. HEAD BOLT	1	
	0040510000	TOOTHED WASHER	1	REPLACES 0017110020

DCA-125SSJU --- MUFFLER ASSY.

MUFFLER ASSY.



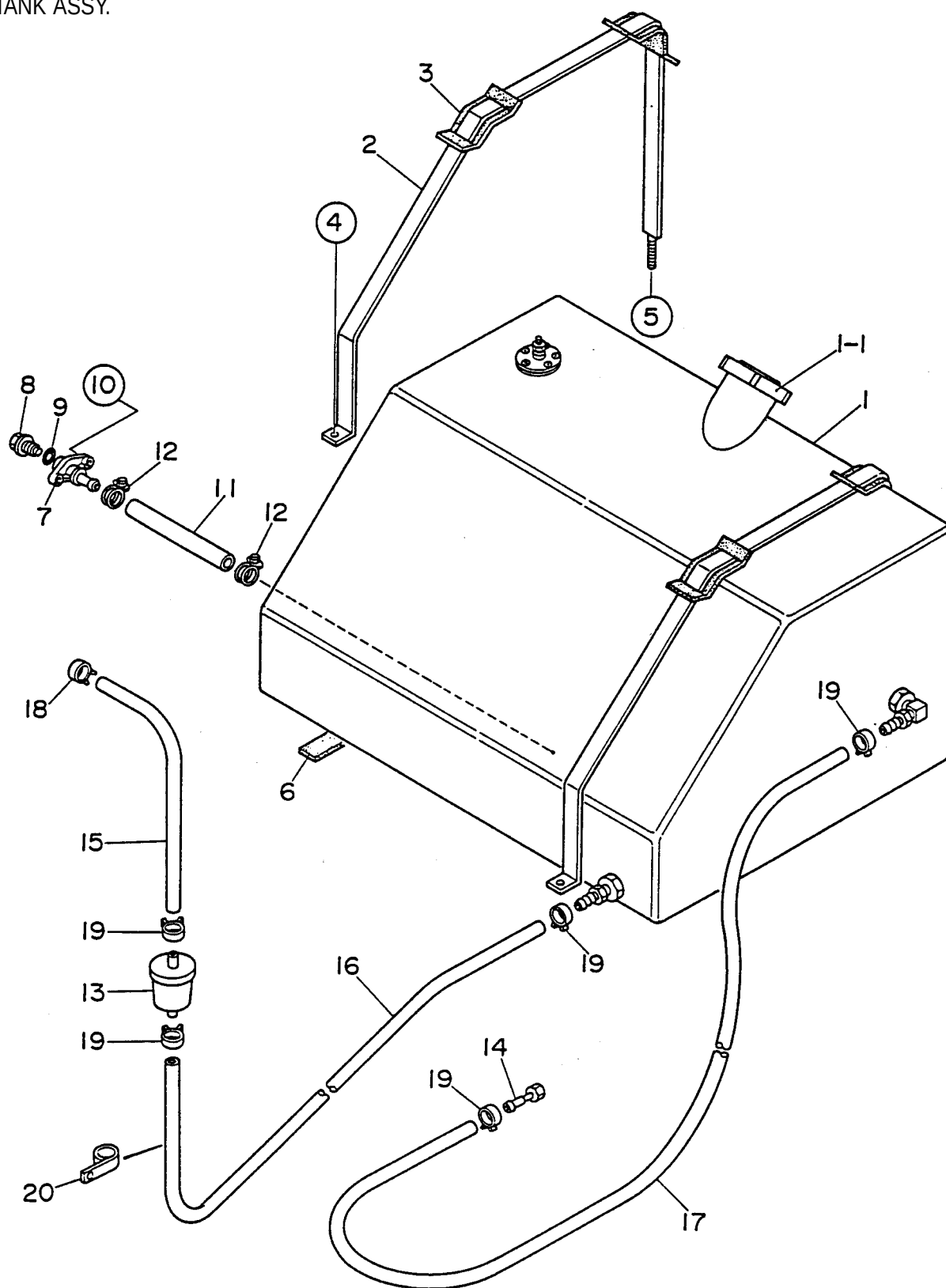
DCA-125SSJU --- MUFFLER ASSY.

MUFFLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
1	M3330100002	MUFFLER	1	S/N7500001 TO 7500072
	0602300167	MUFFLER	1	S/N7500073~
2	012210025	HEX. HEAD BOLT	4	REPLACES 0016910025
3	M3333000303	EXHAUST PIPE	1	
4	0602325066	CLAMP	1	M001432
5	M3333200004	GASKET	1	
6	014210040	HEX.HEAD BOLT	4	REPLACES 0017110040
7	M3330400304	COVER	1	
8	M3330400403	BRACKET	1	
9	011008020	HEX. HEAD BOLT	4	REPLACES 0016908020
10	0602326061	U BOLT SET	1	89547K

DCA-125SSJU --- FUEL TANK ASSY.

FUEL TANK ASSY.



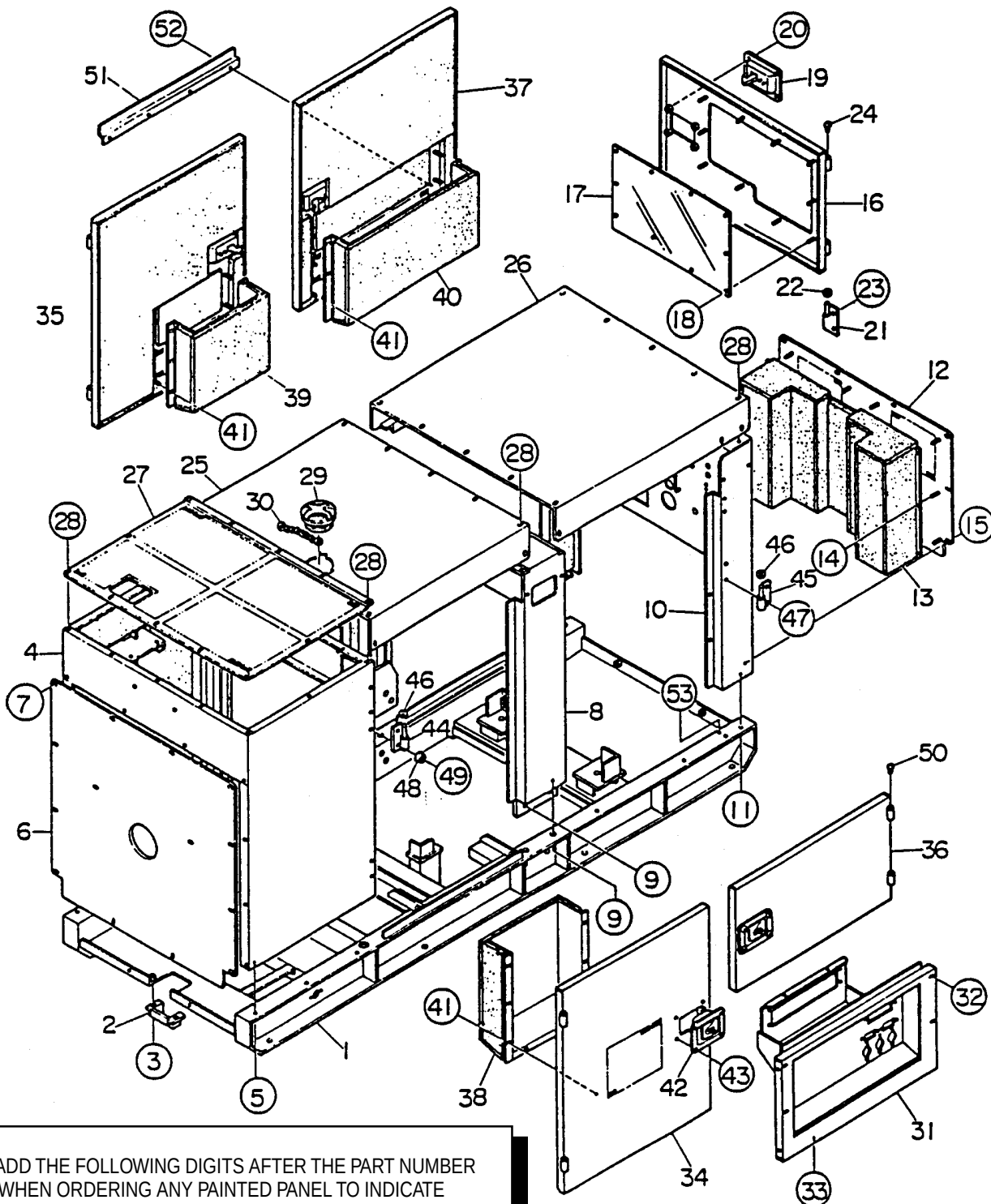
DCA-125SSJU --- FUEL TANK ASSY.

FUEL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
1	M3363000202	FUEL TANK	1	
1-1	0605505070	CAP, FUEL TANK	1	
2	M3363200204	TANK BAND	2	
3	M9310500104	SUPPORTER SHEET	4	
4	0016908020	HEX. HEAD BOLT	2	
5	037908000	HEX. NUT	2	S/N7500001 TO 7500034
	0207308000	HEX. NUT	2	S/N7500035~
	0041208000	PLAIN WASHER	2	S/N7500001 TO 7500034
6	0222100660	RUBBER SHEET	2	
7	M9200000003	DRAIN JOINT	1	
8	M9200200004	DRAIN BOLT	1	
9	0150000018	O RING	1	AP18
10	0016906020	HEX. HEAD BOLT	2	
11	M1363400104	DRAIN HOSE	1	
12	0605515198	HOSE BAND	2	5008
13	0602042420	FUEL FILTER	1	PTG15P
14	0602042601	LEAK-OFF LINE	1	JOHN DEERE RE67050
15	0191300450	SUCTION HOSE	1	
16	0191301800	SUCTION HOSE	1	
17	0191302200	RETURN HOSE	1	
18	0605515189	HOSE BAND	1	91004
19	0605515109	HOSE BAND	5	RS8010
20	0602220911	CLAMP	1	RCT2010

DCA-125SSJU --- ENCLOSURE ASSY.

ENCLOSURE ASSY.



ADD THE FOLLOWING DIGITS AFTER THE PART NUMBER
WHEN ORDERING ANY PAINTED PANEL TO INDICATE
COLOR OF UNIT:

- | | |
|-----------------|----------------------|
| 1-ORANGE | 5-BLACK |
| 2-WHITE | 6-CATERPILLAR YELLOW |
| 3-SPECTRUM GRAY | 7-CATO GOLD |
| 4-SUNBELT GREEN | 8-RED |

THE SERIAL NUMBER MAY BE REQUIRED.

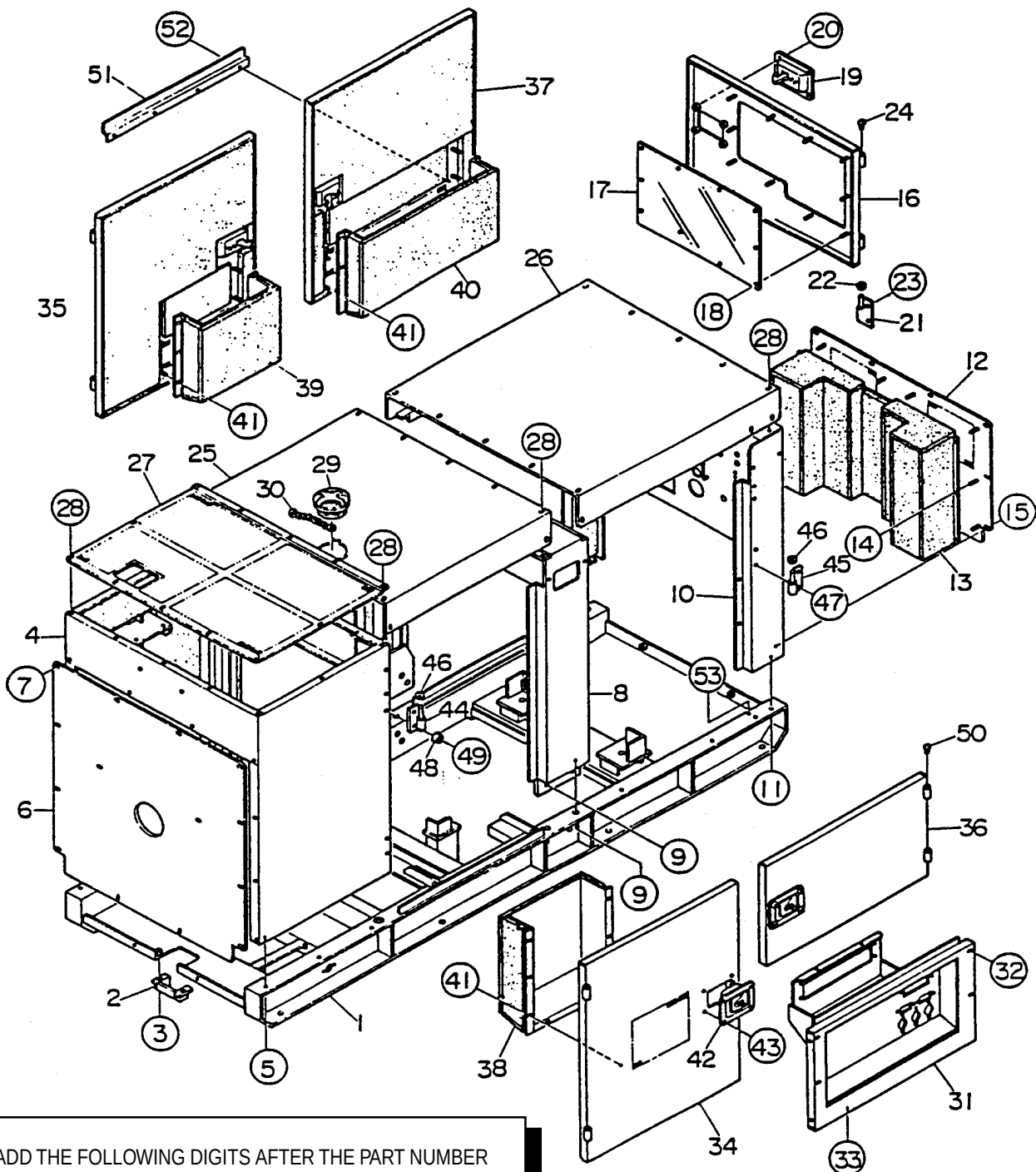
DCA-125SSJU --- ENCLOSURE ASSY.

ENCLOSURE ASSY.

NO.	PART NO.	ITEM	QTY.	REMARKS
1	M3413000102	BASE	1	S/N7500001 TO 7500307
	M3413000112	BASE	1	S/N7500308 TO 7500507
	M3413000122	BASE	1	S/N7500508~
2	M1413400004	UNDER COVER	1	
3	011008020	HEX HEAD BOLT	2	REPLACES 0016908020
4	M3423000302	FRONT FRAME	1	S/N7500001 TO 7500307
	M3423000602	FRONT FRAME	1	S/N7500308~
	M3493100203	ACOUSTIC SHEET	1	S/N7500001 TO 7500307
	M3493100503	ACOUSTIC SHEET	1	S/N7500308~
5	012210025	HEX. HEAD BOLT	6	REPLACES 0016910025
6	M3423200104	COVER, FRONT FRAME	1	
	M3493100304	ACOUSTIC SHEET	1	
7	011008020	HEX. HEAD BOLT	14	REPLACES 0016908020
8	M3433000102	CENTER FRAME	1	
	M3493200004	ACOUSTIC SHEET	1	
9	0010114040	HEX. HEAD BOLT	12	
	0030014000	HEX. NUT	12	
	0040014000	LOCK WASHER	24	
	031114260	PLAIN WASHER	24	REPLACES 0041214000
10	M3443000202	REAR FRAME	1	S/N7500001 TO 7500507
	M3443000212	REAR FRAME	1	S/N7500508~
	M3493300204	ACOUSTIC SHEET	1	
11	012210025	HEX. HEAD BOLT	4	REPLACES 0016910025
12	M3443300203	REAR COVER	1	
13	M3443300303	DUCT, REAR COVER	1	
	M3493300303	ACOUSTIC SHEET	1	
14	0207006000	HEX. NUT	12	
15	011008020	HEX HEAD BOLT	10	REPLACES 0016908020
16	M3443200103	REAR DOOR	1	S/N7500001 TO 7500148
	M3443200113	REAR DOOR	1	S/N7500149~
17	M3443600104	WINDOW PLATE	1	
18	0037906000	HEX. NUT	10	S/N7500001 TO 7500034
	020106050	HEX. NUT	10	REPLACES 0207306000 S/N7500035~
	0041206000	PLAIN WASHER	10	S/N7500035~
19	B9114000002	DOOR HANDLE ASSY.	1	
20	0027106016	MACHINE SCREW	4	REPLACES 0021806015
	020106050	HEX. NUT	4	REPLACES 0030006000
21	M9110100204	HINGE	2	
22	M9116100004	WASHER	2	

DCA-125SSJU --- ENCLOSURE ASSY.

ENCLOSURE ASSY.



ADD THE FOLLOWING DIGITS AFTER THE PART NUMBER
WHEN ORDERING ANY PAINTED PANEL TO INDICATE
COLOR OF UNIT:

1-ORANGE	5-BLACK
2-WHITE	6-CATERPILLAR YELLOW
3-SPECTRUM GRAY	7-CATO GOLD
4-SUNBELT GREEN	8-RED

THE SERIAL NUMBER MAY BE REQUIRED.

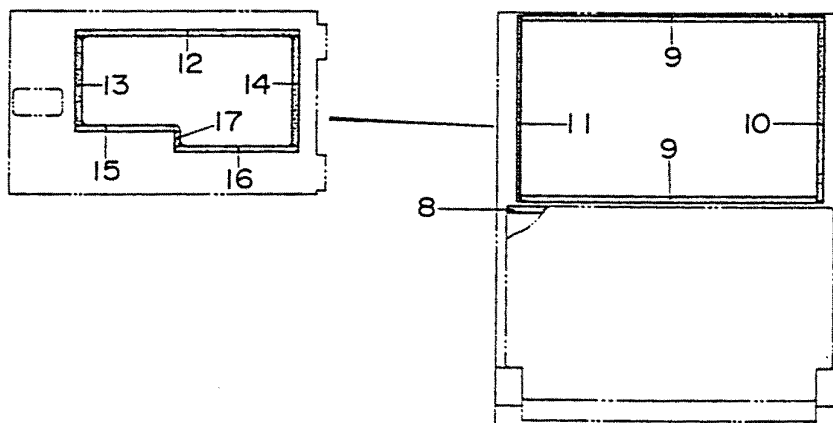
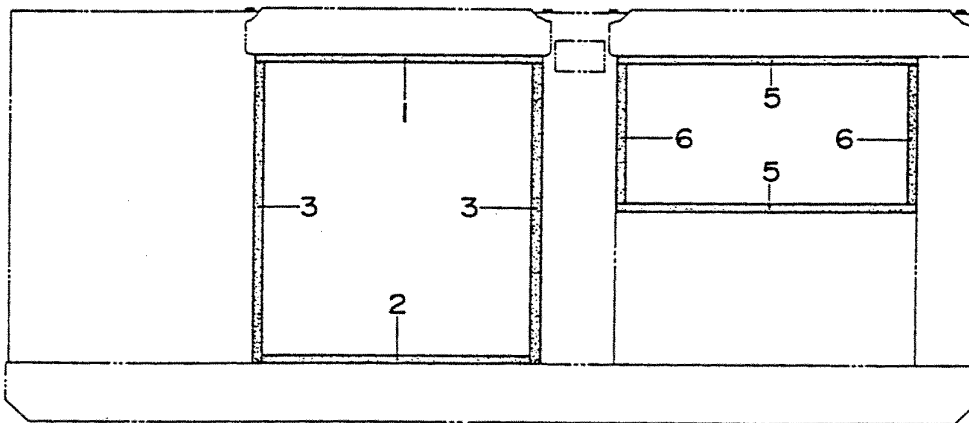
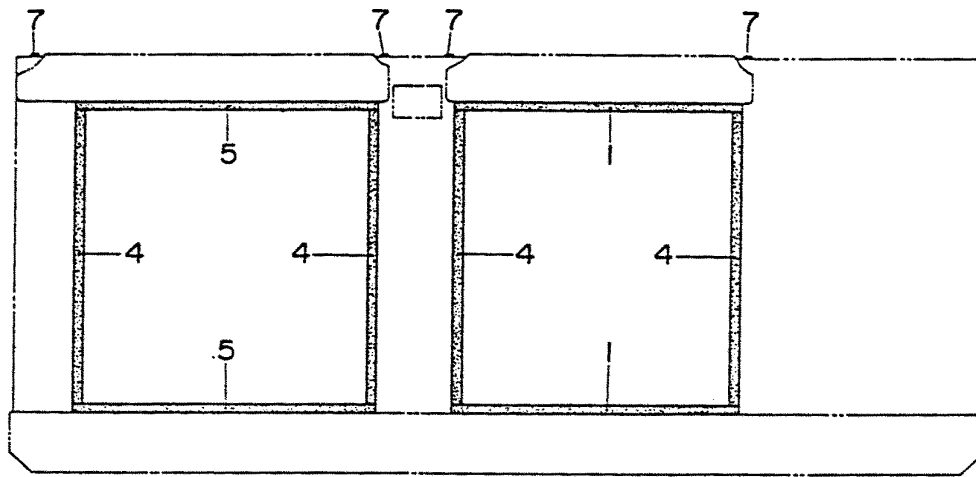
DCA-125SSJU --- ENCLOSURE ASSY.

ENCLOSURE ASSY.

NO.	PART NO.	ITEM	QTY.	REMARKS
23	011008020	HEX. HEAD BOLT	3	REPLACES 0016908020
24	M9310000004	BLIND PLUG	2	
25	M3463100203	ROOF PANEL	1	
	M3493500203	ACOUSTIC SHEET	1	
26	M3463200102	ROOF PANEL	1	
	M3493500303	ACOUSTIC SHEET	1	
27	M3463500104	OVER COVER. FRONT FRAME	1	
28	011008020	HEX. HEAD BOLT	37	REPLACES 0016908020
29	1625165103	BONNET CAP	1	REPLACES M9310000103
30	1625165204	CHAIN ASSY.	1	REPLACES M1483600204
31	M3453200102	SPLASHER PANEL	1	S/N7500001 TO 7500034
	M3453200112	SPLASHER PANEL	1	S/N750035 TO S/N7500307
	M3453200122	SPLASHER PANEL	1	S/N7500308 TO 7500507
	M3453200132	SPLASHER PANEL	1	S/N7500508~
	M3493401304	ACOUSTIC SHEET	1	S/N7500001 TO 7500034
	M3493401314	ACOUSTIC SHEET	1	S/N7500035~
32	011208060	HEX. HEAD BOLT	4	REPLACES 0016908055
33	012210025	HEX. HEAD BOLT	2	REPLACES 0016910025
34	M3453000703	SIDE DOOR	1	
	M3493400704	ACOUSTIC KIT A.S. FRONT DOOR(L)	1	
35	M3453000603	SIDE DOOR	1	
	M3453400804	ACOUSTIC SHEET	1	
36	M3453000503	SIDE DOOR	1	
	M3493401004	ACOUSTIC SHEET (L)	1	
37	M3453000403	SIDE DOOR(R)	1	
	M3493401104	ACOUSTIC KIT A.S. RR DOOR (R)	1	
38	M3453300303	DUCT(L)	1	
	M3493400904	ACOUSTIC KIT A.S. FRONT DUCT(L)	1	
39	M3453300503	DUCT(R) FRONT	1	
	M3493401404	ACOUSTIC KIT A.S. FRONT DOOR DUCT	1	
40	M3453300203	DUCT(R)	1	
	M3493401204	ACOUSTIC KIT A.S. REAR DOOR DUCT	1	
41	0207006000	HEX. NUT	25	
42	B9114000002	DOOR HANDLE ASSY.	4	REPLACES M9113000002
43	0027106016	MACHINE SCREW	16	REPLACES 0021806015
	020106050	HEX. NUT	16	REPLACES 0030006000
44	M9110100204	HINGE(L)	4	
45	M9110100304	HINGE(R)	4	
46	M9116100004	WASHER	8	
47	011008020	HEX. HEAD BOLT	9	REPLACES 0016908020
48	0601850097	DOOR STOPPER	8	
49	0027208025	MACHINE SCREW	8	
50	0845031504	BLIND PLUG	8	REPLACES M9310000004
51	M3453700004	DOOR BRACKET	1	
52	0016906015	HEX. HEAD BOLT	4	
53	016908020	HEX. HEAD BOLT	1	
	0040508000	TOOTHED WASHER	1	

DCA-125SSJU --- RUBBER SEAL ASSY.

RUBBER SEAL ASSY.



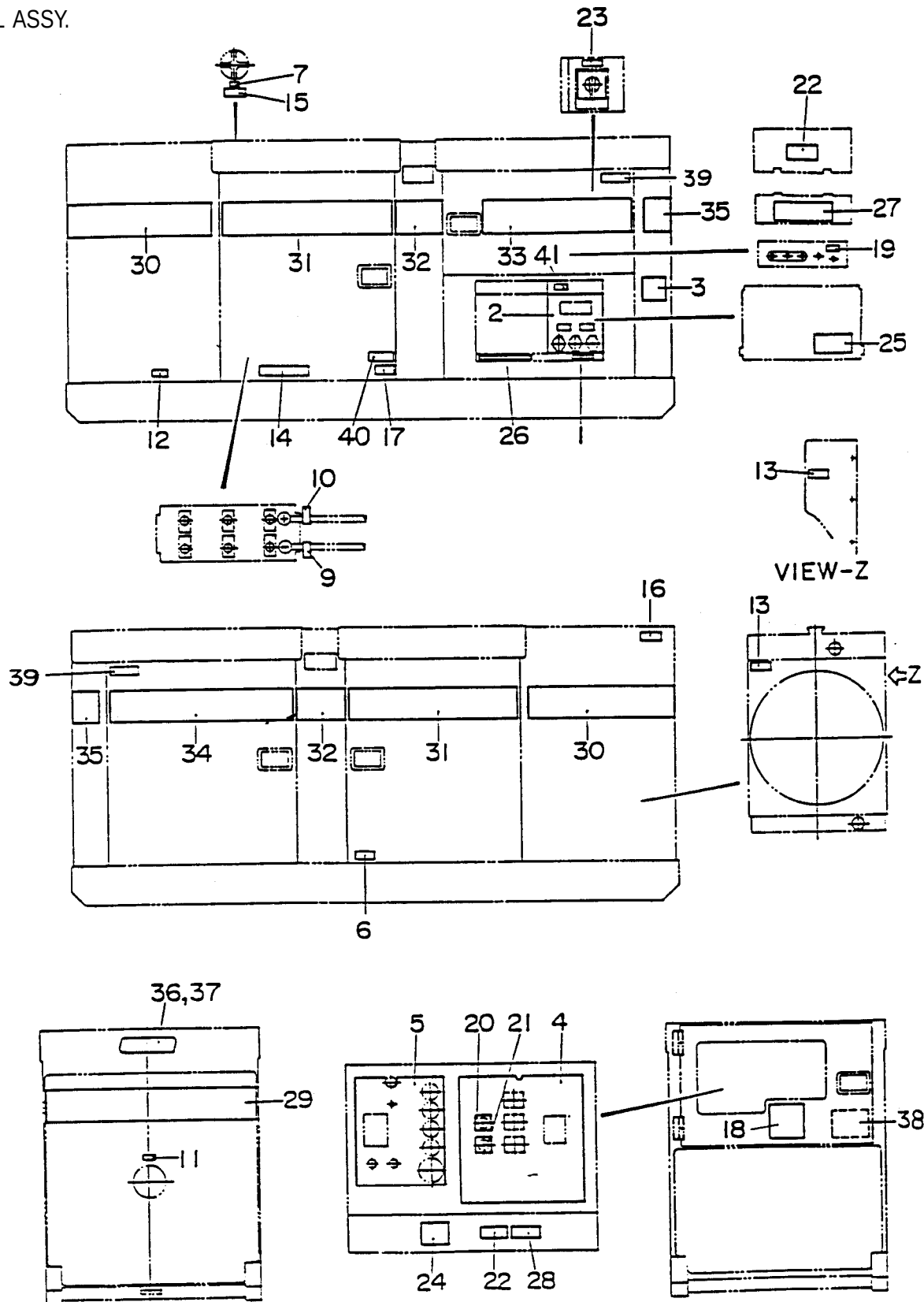
DCA-125SSJU --- RUBBER SEAL ASSY.

RUBBER SEAL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u>	<u>QTY.</u>	<u>REMARKS</u>
1	0228900890	RUBBER SEAL	3	
2	0229200810	RUBBER SEAL	1	
3	0228901020	RUBBER SEAL	2	
4	0228900990	RUBBER SEAL	4	
5	0228900955	RUBBER SEAL	4	
6	0228900470	RUBBER SEAL	2	
7	0228900470	RUBBER SEAL	4	
8	0229201040	RUBBER SEAL	1	
9	0228800970	RUBBER SEAL	2	
10	0228800590	RUBBER SEAL	1	
11	0228800630	RUBBER SEAL	1	
12	0228100665	RUBBER SEAL	1	
13	0228100300	RUBBER SEAL	1	
14	0228100370	RUBBER SEAL	1	
15	0228100280	RUBBER SEAL	1	
16	0228100365	RUBBER SEAL	1	
17	0228100070	RUBBER SEAL	1	

DCA-125SSJU --- DECALS

DECAL ASSY.



DCA-125SSJU --- DECALS

DECAL ASSY.

NO.	PART NO.	ITEM	QTY.	REMARKS
1	M1550000204	DECAL; NOTE	1	M15000020
2	M1550000703	DECAL; AUXILIARY OUTPUT	1	M15000070
3	M3550000004	DECAL; NOTE	1	M35000000
4	M3550000102	DECAL; GENERATOR CONTROL	1	M35000010
5	M3550000205	DECAL; ENGINE OPERATING	1	M35000020 S/N7500001 TO 7500507
	M3550000212	DECAL; ENGINE OPERATING	1	M35000021 S/N7500508~
6	M9500000004	DECAL; OIL DRAIN PLUG	1	M9000000
7	M9500100004	DECAL; WATER	1	M90010000
8	M9500100104	DECAL; WATER DRAIN PLUG	1	M90010010
9	M9500300004	DECAL; -	1	M90030000
10	M9500300104	DECAL; +	1	M900500000
11	M9500500004	DECAL; DIESEL FUEL	1	M90050000
12	M9500500104	DECAL; FUEL DRAIN PLUG	1	M90050010
13	M9503000004	DECAL; WARNING	2	M9030000
14	M9503000103	DECAL; WATER, OIL CHECK	1	M90300010
15	M9503100004	DECAL; WARNING	1	M90310000
16	M9503200004	DECAL; WARNING	1	M90320000
17	M9510100004	DECAL; CAUTION	1	M91010000
18	M9510200002	DECAL; MQ	1	M91020000
19	M9520000004	DECAL; GROUND	1	M92000000
20	M9520000104	DECAL; AMMETER CHANGE OVER SWITCH ...	1	M92000010
21	M9520000204	DECAL; VOLTMETER CHANGE OVER SWITCH	1	M92000020
22	M9520100004	DECAL; WARNING	2	M92010000
23	M9520100204	DECAL; CAUTION	1	M92010020A
24	M9520100304	DECAL; SAFETY INSTRUCTIONS	1	M92010030
25	M9520100404	DECAL; DANGER	1	M92010040
26	M9520100503	DECAL; WARNING	1	M92010020
27	M9520200003	DECAL; CONNECTION OF OUTPUT CABLE	1	M92020000
28	M9520200104	DECAL; OVER CURRENT RELAY	1	M92020010
29	M9560100003	STRIPE; WHISPERWATT	1	
30	M3560100103	STRIPE; MQ POWER	2	
31	M3560100203	STRIPE	2	
32	M3560100404	STRIPE	2	
33	M3560100303	STRIPE; 125	1	
34	M3560100503	STRIPE; 125	1	
35	M3560100604	STRIPE	3	
36	M0600500090	EMBLEM	1	
37	0021106015	MACHINE SCREW	2	
38	M3552000103	DECAL; OPERATING PROCEDURES	1	M35200010 SN 7500508~
39	B1552000103	DECAL; CAUTION	1	B15200010 S/N7500508~
40	C9505300004	DECAL; CAUTION	1	C90530000 S/N7500508~
41	9039209064	DECAL; START CONTACT	1	S4468 S/N7500508~E

Effective: July 1, 2000

TERMS AND CONDITIONS OF SALE — PARTS**PAYMENT TERMS**

Terms of payment for parts are net 10 days.

FREIGHT POLICY

All parts orders will be shipped collect or prepaid with the charges added to the invoice. All shipments are F.O.B. point of origin. Multiquip's responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

MINIMUM ORDER

The minimum charge for orders from Multiquip is \$15.00 net. Customers will be asked for instructions regarding handling of orders not meeting this requirement.

RETURNED GOODS POLICY

Return shipments will be accepted and credit will be allowed, subject to the following provisions:

1. A Returned Material Authorization must be approved by Multiquip prior to shipment.
2. To obtain a Return Material Authorization, a list must be provided to Multiquip Parts Sales that defines item numbers, quantities, and descriptions of the items to be returned.
 - a. The parts numbers and descriptions must match the current parts price list.
 - b. The list must be typed or computer generated.
 - c. The list must state the reason(s) for the return.
 - d. The list must reference the sales order(s) or invoice(s) under which the items were originally purchased.
 - e. The list must include the name and phone number of the person requesting the RMA.
3. A copy of the Return Material Authorization must accompany the return shipment.

4. Freight is at the sender's expense. All parts must be returned freight prepaid to Multiquip's designated receiving point.
5. Parts must be in new and resalable condition, in the original Multiquip package (if any), and with Multiquip part numbers clearly marked.
6. The following items are not returnable:
 - a. Obsolete parts. (If an item is listed in the parts price book as being replaced by another item, it is obsolete.)
 - b. Any parts with a limited shelf life (such as gaskets, seals, "O" rings, and other rubber parts) that were purchased more than six months prior to the return date.
 - c. Anyline item with an extended dealer net price of less than \$5.00.
 - d. Special order items.
 - e. Electrical components.
 - f. Paint, chemicals, and lubricants.
 - g. Decals and paper products.
 - h. Items purchased in kits.
7. The sender will be notified of any material received that is not acceptable.
8. Such material will be held for 5 working days from notification, pending instructions. If a reply is not received within 5 days, the material will be returned to the sender at his expense.
9. Credit on returned parts will be issued at dealer net price at time of the original purchase, less a 15% restocking charge.
10. In cases where an item is accepted for which the original purchase document can not be determined, the price will be based on the list price that was effective twelve months prior to the RMA date.
11. Credit issued will be applied to future purchases only.

PRICING AND REBATES

Prices are subject to change without prior notice. Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price. Rebates for price declines and added charges for price increases will not be made for stock on hand at the time of any price change.

Multiquip reserves the right to quote and sell direct to Government agencies, and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

SPECIAL EXPEDITING SERVICE

A \$20.00 to \$50.00 surcharge will be added to the invoice for special handling including bus shipments, insured parcel post or in cases where Multiquip must personally deliver the parts to the carrier.

LIMITATIONS OF SELLER'S LIABILITY

Multiquip shall not be liable here under for damages in excess of the purchase price of the item with respect to which damages are claimed, and in no event shall Multiquip be liable for loss of profit or good will or for any other special, consequential or incidental damages.

LIMITATION OF WARRANTIES

No warranties, express or implied, are made in connection with the sale of parts or trade accessories nor as to any engine not manufactured by Multiquip. Such warranties made in connection with the sale of new, complete units are made exclusively by a statement of warranty packaged with such units, and Multiquip neither assumes nor authorizes any person to assume for it any other obligation or liability whatever in connection with the sale of its products. A part from such written statement of warranty, there are no warranties, express, implied or statutory, which extend beyond the description of the products on the face hereof.

[illegible]

PARTS AND OPERATION MANUAL

HERE'S HOW TO GET HELP

*PLEASE HAVE THE MODEL AND SERIAL NUMBER
ON-HAND WHEN CALLING*

PARTS DEPARTMENT

800/427-1244 or 310/537-3700

FAX: 800/672-7877 or 310/637-3284

SERVICE DEPARTMENT

800/835-2551 or 310/537-3700

FAX: 310/638-8046

WARRANTY DEPARTMENT

800/835-2551 or 310/537-3700

FAX: 310/638-8046

MAIN

800/421-1244 or 310/537-3700

FAX: 310/537-3927

© COPYRIGHT 2001, MULTIQIP INC.



MULTIQIP INC.

18910 WILMINGTON AVE.
CARSON, CALIFORNIA 90746

310-537-3700

800-421-1244

FAX: 310-537-3927

E-mail: mq@multiquip.com • www.multiquip.com

PARTS DEPARTMENT:

800-427-1244

FAX: 800-672-7877

SERVICE DEPARTMENT:

800-835-2551

FAX: 310-638-8046