MQ POWER DCA-100SSJU **WHISPERWATT**TM GENERATOR (Standard)

PARTS LIST NO. M3870300174 S/N UP TO 7400295-100SSJU S/N FROM 7400296~100SSJU2

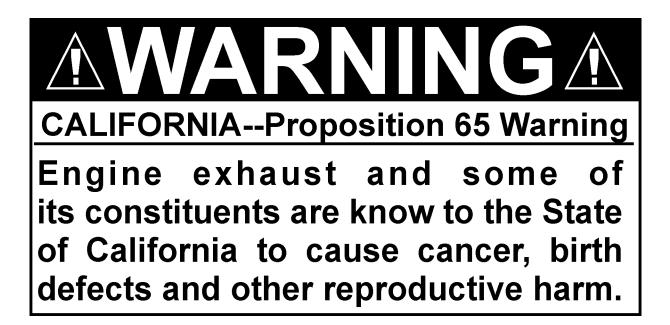
Revision #2 (05/03/01)



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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

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800/421-1244 or 310/537-3700 FAX: 310/537-3927

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MQ POWER DCA-100SSJU AC GENERATOR

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NOTE

Specification and part number are subject to change without notice.

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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:

Number of				
line items ordered				
1-9 items				
10+ items**				

Additional Discount 3% 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





Now! Direct TOLL-FREE access to our Parts Department! <u>Toll-free nationwide:</u> 800-421-1244 <u>Toll-free FAX:</u> 800/6-PARTS-7 • 800-672-7877

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.

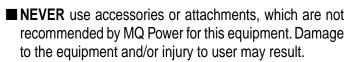
The following safety guidelines should always be used when operating the DCA-100SSJU portable generator:

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, steeltoed 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 or drugs or alcohol.

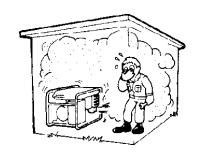


- Manufacturer does not assume responsibility for any accident due to equipment modifications.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Always check the machine for loosened threads or bolts before starting.

■ 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** <u>smoke</u> 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.

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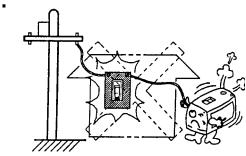
CAUTION:





■ 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.



- 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.

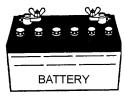
Battery

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.
- 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 precaution s 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.

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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.

Towing Safety Precautions

CAUTION:



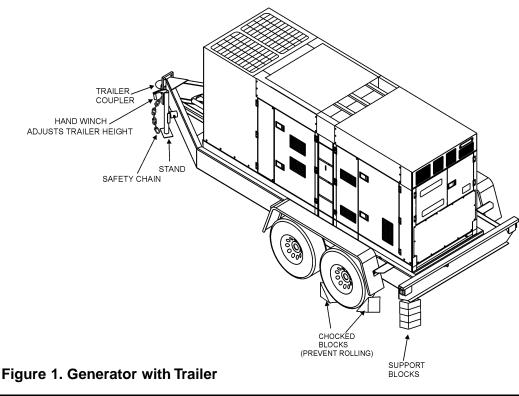
Check with your county or state safety towing regulations department before towing your generator.

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 milage.
- Avoid sharp turns to prevent rolling.
- Remove wheel stand when transporting.
- **DO NOT** transport generator with fuel in tank.



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DCA-100SSJU — 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 while 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.
- 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 are mounted on a tire rim. The tire rim must match the size of the tire.
- 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.
- Axle Indicates the maximum weight the axle can support in pounds, and the diameter of the axle expressed in inches (see Table 3 on page 17). Please not 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 shock 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-100SSJU — TRAILER-SPECIFICATIONS

			Table 1. Specifie	cations			
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

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DCA-100SSJU — 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-100SSJU — TRAILER BRAKING SYSTEM

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:

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

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DCA-100SSJU — TRAILER BRAKING SYSTEM

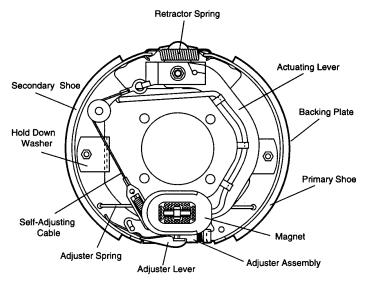


Figure 2. Electrical Brake Components

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. 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.

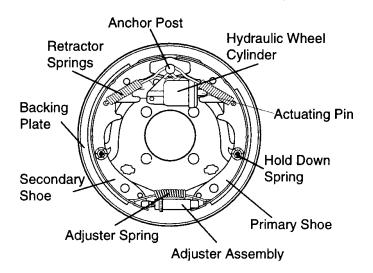


Figure 3. Hydraulic Brake Components

DCA-100SSJU — TRAILER TIRES & SUSPENSION

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.

TABLE 2. TIRE WEAR TROUBLESHOOTING			
WEAR P	ATTERN	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 whee s.
	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.

SHACKLE

LEAF SUSPENSION

BOLTS

Tire Wear/Inflation

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

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

SHACKLE SUPPORT BRACKET IS WELDED **CAUTION:** TO FRAME SHACKLE NUT AXLE U-BOI HANGER SUPPORT BRACKET IS WELDED TO FRAME FRONT HANGER NUT FRONT U-BÔI T NOTE HANGER BOLT LOCKING TIE PLATE NUT ALWAYS wear safety glasses when removing Figure 4. Suspension Components or installing force fitted parts. Failure to comply may result in serious injury.

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DCA-100SSJU — TRAILER TIRES & SUSPENSION

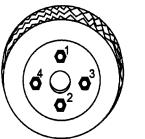
Table 3. Suspension Torque Requirements			
ltem	Torque (FtLbs.)		
3/8" U-BOLT	MIN-30 MAX-35		
7/16" U-BOLT	MIN-45 MAX-60		
1/2" U-BOLT	MIN-45 MAX-60		
SHACKLE BOLT SPRING EYE BOLT	SNUG FIT ONLY. PARTS MUST ROTATE FREELY. LOCKING NUTS OR COTTER PINS ARE PROMDED TO RETAIN NUT-BOLT ASSEMBLY.		
SHOULDER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

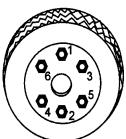
Lug Nut Torque Requirements

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 for continued safe operation.

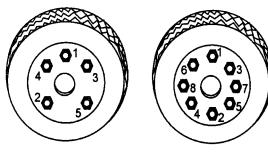
Table 4. Tire Torque Requirements					
Wheel Size	First Pass FT-LBS	Second Pass FT-LBS	Third Pass FT-LBS		
12"	20-25	35-40	50-65		
13"	20-25	35-40	50-65		
14"	20-25	50-60	90-120		
15'	20-25	50-60	90-120		
16"	20-25	50-60	90-120		





4-LUG NUTS

6-LUG NUTS



5-LUG NUTS

8-LUG NUTS

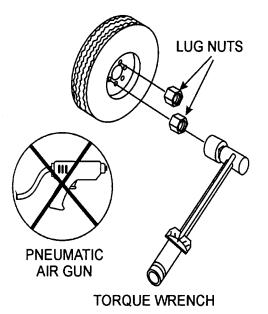
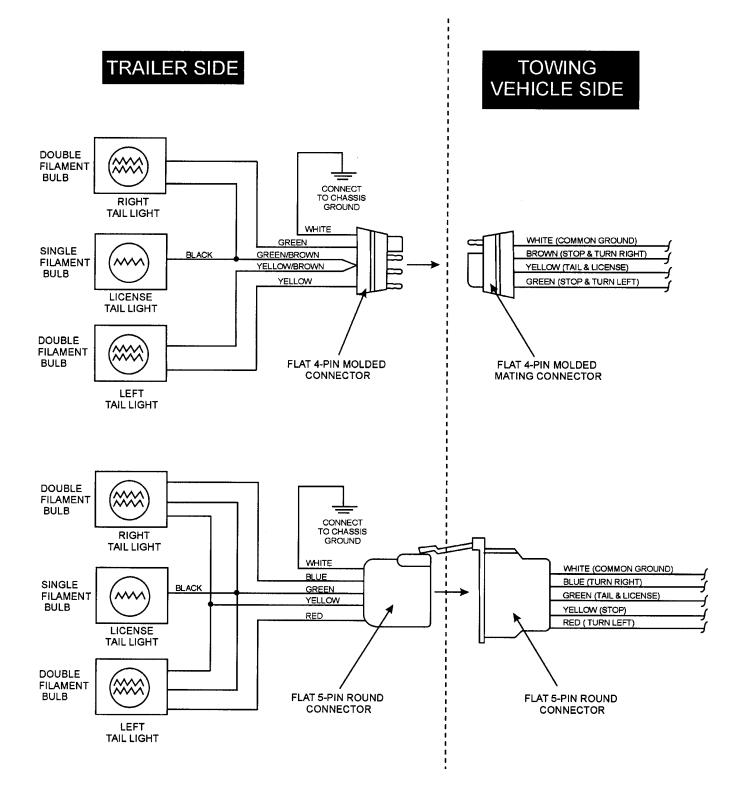


Figure 5. Lug Nut Tightening Sequence

NOTE

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

DCA-100SSJU — TRAILER WIRING DIAGRAMS



NOTE: LIGHTS ARE ORIENTED FROM THE DRIVER'S SEAT

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DCA-100SSJU — TRAILER-BRAKETROUBLESHOOTING

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.		
	IS THE GROUND WIRE SECURE?	FIND AND SECURE.		
WEAK BRAKES OR BRAKES PULL TO ONE SIDE	IS THERE GREASE OR OIL ON MAGNETS OR LININGS?	CLEAN OR REPLACE.		
	IS THE CONNECTIONS CORRODED?	CLEAN AND CORRECT CAUSE OF CORROSION.		
	IS THE BRAKE DRUMS SCORED OR GROOVED?	MACHINE OR REPLACE.		
	IS THE BRAKES SYNCHRONIZED?	CORRECT. (SEE PG 8 FOR SYNCHRONIZING)		
LOCKING BRAKES	IS THE BRAKE COMPONENTS LOOSE, BENT OR BROKEN?	REPLACE COMPONENTS.		
	IS THE BRAKE DRUMS OUT-OF-ROUND?	REPLACE.		
NOISY BRAKES	IS THE SYSTEM LUBRICATED?	LUBRICATE.		
	IS THE BRAKE COMPONENTS CORRECT?	REPLACE AND CORRECT.		
DRAGGING BRAKES	IS THE BEARINGS OF THE WHEEL ADJUSTED?	ADJUST.		

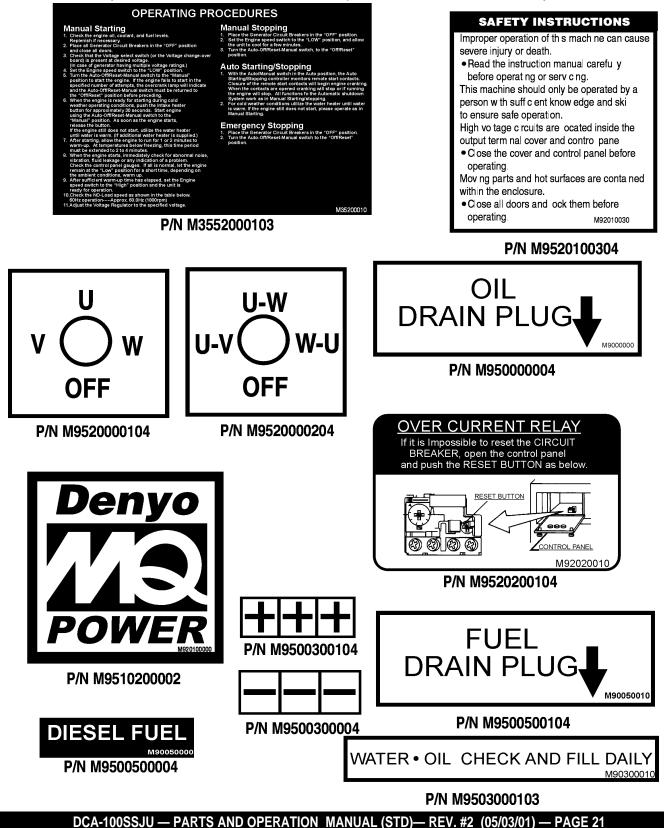
DCA-100SSJU — TRAILER-BRAKETROUBLESHOOTING

Table 6. Hydraulic Brake Troubleshooting				
Symptom	Symptom Possible Cause			
NO BRAKES	IS THE BRAKE LINE BROKEN OR KINKED?	REPAIR OR REPLACE.		
WEAK BRAKES OR BRAKES PULL TO ONE SIDE	IS THE BRAKE LINING GLAZED?	REBURNISH OR REPLACE		
	IS THE TRAILER OVERLOADED?	CORRECT WEIGHT.		
	IS THE BRAKE DRUMS SCORED OR GROOVED?	MACHINE OR REPLACE.		
	IS THE TIRE PRESSURE CORRECT?	INFLATE ALL TIRES EQUALLY		
	IS THE TIRES UNMATCHED ON THE SAME AXLE?	MATCH TIRES.		
LOCKING BRAKES	IS THE BRAKE COMPONENTS LOOSE, BENT OR BROKEN?	REPLACE COMPONENTS.		
	IS THE BRAKE DRUMS OUT-OF-ROUND?	REPLACE.		
NOISY BRAKES	IS THE SYSTEM LUBRICATED?	LUBRICATE.		
	IS THE BRAKE COMPONENTS CORRECT?	REPLACE AND CORRECT		
DRAGGING BRAKES	IS THE BRAKE LINING THICKNESS CORRECT OR IN RIGHT WRONG POSITION?	INSTALL NEW SHOES AND LININGS		
	IS THERE ENOUGH BRAKE FLUID OR CORRECT FLUID?	REPLACE RUBBER PARTS FILL WITH DOT4 FLUID		

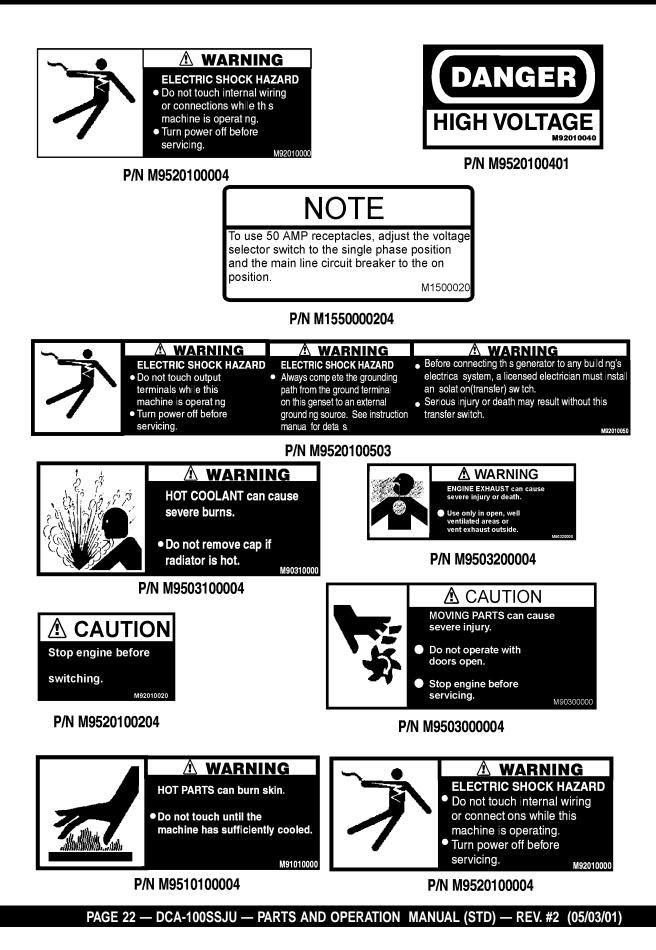
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DCA-100SSJU — GENERATOR DECALS

The DCA -100SSJU 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.



DCA-100SSJU — GENERATOR DECALS



DCA-100SSJU - SPECIFICATIONS

Table 7. Specifications				
Generator Specifications				
Model	DCA-100SSJU			
Туре	Revolving field, self vent	ilated, drip proof single bearing		
Armature Connection	Star with	Neutral/ Zig Zag		
Voltage-3 phase	208, 220, 240, 41	6, 440, 480V switchable		
Voltage-single phase	120, 127, 139, 24	10, 254, 277V switchable		
Standby Output	110 K	(VA (88 KW)		
Prime Output	100 k	(VA (80 KW)		
Frequency		60 Hz		
Speed	1:	800 rpm		
Power Factor		0.8		
Sound Level dB(A) Full Load at 23 feet	67			
Insulation	Class F			
	Engine Specifications	5		
Model	JOHN DE	ERE 6068TF150		
Туре	4 Cycle, water-cooled,	direct injection, turbo-charged		
No. of Cylinders	6	cylinders		
Bore x Stroke	(106 m	m x 127 mm)		
Rated Output	129 H	₽/1800 rpm		
Displacement	410 cu	. in. (6724 œ)		
Starting	Electric			
Coolant Capacity	10.3 gal. (39 liters)			
Lube Oil Capacity	4.5 gal. (17 liters)			
Fuel Consumption	6.6 gal(25.1L)/hr at full load	5.0 gal(19.0L)/hr at 3/4 load		
	3.5 gal(13.3L)/hr at 1/2 load	2.1gal(8.0L)/hr at 1/4 load		
Battery	12V- 150 AH x1			
Fuel	#2 Diesel Fuel			

DCA-100SSJU — GENERAL INFORMATION

DCA-100SSJU FAMILIARIZATION

Generator

The MQ Power Model DCA-100SSJU is a 80 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 250 amps
- Over-Current Relay

Open Delta Excitation System

The DCA-100SSJU 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-100SSJU** is powered by a 4 cycle, water cooled, turbocharged JOHN DEERE 6068 TF 150 *diesel* engine. This engine is designed to meet every performance requirement for the generator. Reference Table 1, page 13 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-100SSJU 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 $\pm 0.25\%$.

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DCA-100SSJU — MAJOR COMPONENTS

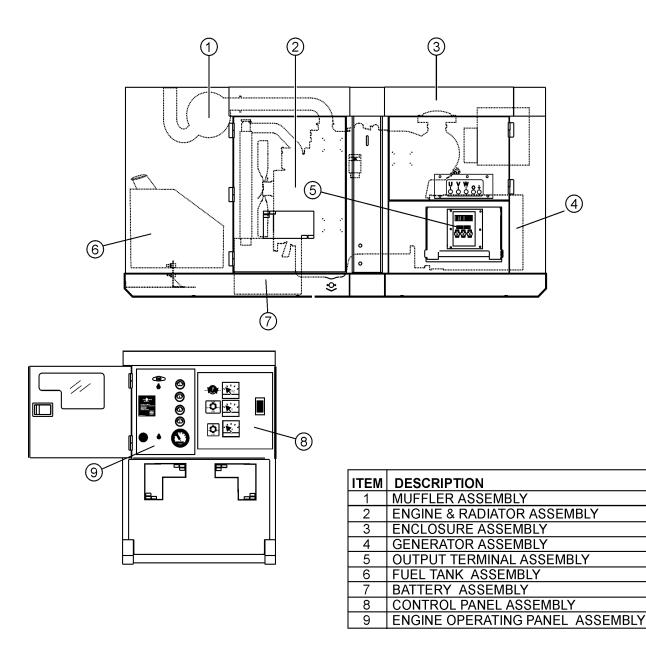
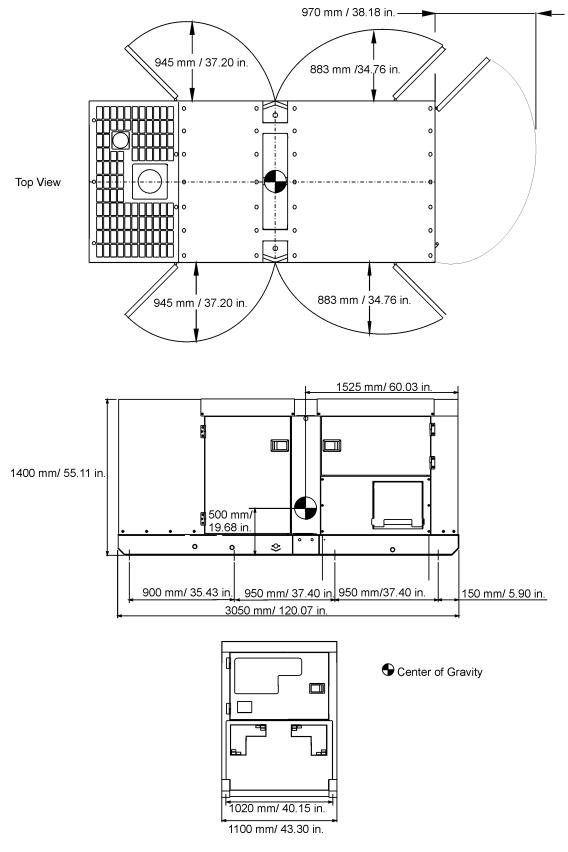


Figure 6. Major Components

DCA-100SSJU — DIMENSIONS (TOP, SIDE AND FRONT)

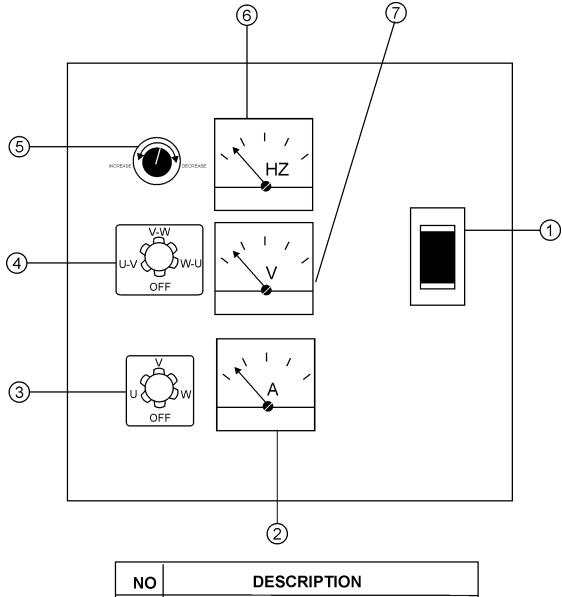




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NOTE PAGE

DCA-100SSJU — 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

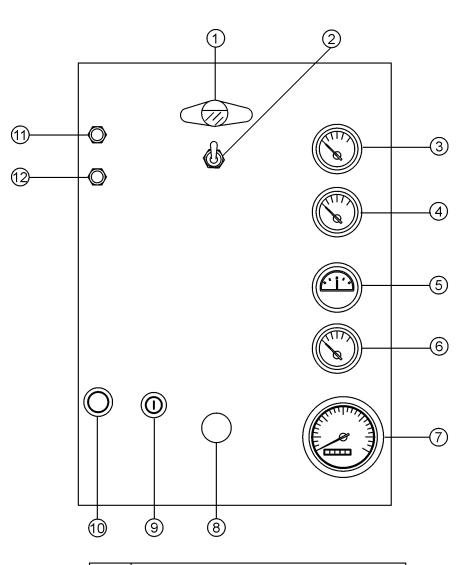
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DCA-100SSJU — CONTROL PANEL

The definitions below describe the controls and functions of the DCA-100SSJU " *Control Panel* " (Figure 8).

- 1. Main Circuit Breaker This three-pole, 250 amp main breaker is provided to protect the UNV voltage output terminals from overload.
- 2. AC Ammeter Indicates the amount of current the load is drawing from the generator.
- 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.
- 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 UNV terminals.

DCA-100SSJU — 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

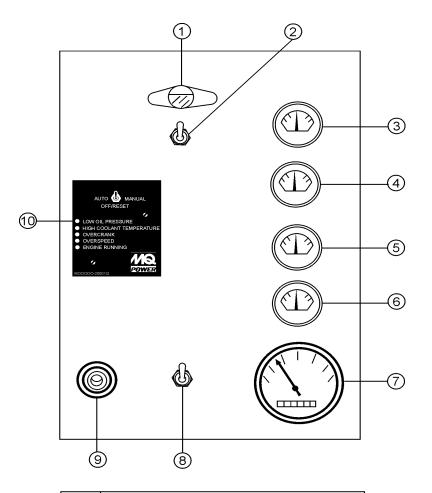
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DCA-100SSJU — ENGINE OPERATING PANEL (WITH KEY)

The definitions below describe the controls and functions of the DCA-100SSJU " *Engine Operating Panel* " (Figure 9).

- 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 be should read between 165°F to 215°F.
- 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.
- 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-100SSJU — ENGINE OPERATING PANEL (WITH MPEC)



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

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DCA-100SSJU — ENGINE OPERATING PANEL (WITH MPEC)

The definitions below describe the controls and functions of the DCA-100SSJU " *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 be 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 (Figure 11) until the preheat lamp is lit (ON).



Figure 11. Preheat Button

 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 12. 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-100SSJU - OUTPUTTERMINAL PANEL OVERVIEW

OUTPUTTERMINAL 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 250 amps
- Over-Current Relay

Output Terminal Panel

The Output Control Panel (See Figure 16) is located on the right hand side (left from control panel) of the generator. The UNV lugs are protected by a face plate cover that can be secured in the close position by a pad lock. (See Figure 13).

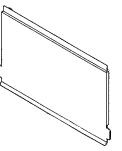


FIGURE 13. Output Terminal Cover

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 14) in the center of this receptacle will check the GFCI function. The receptacle should be tested at least once a month.

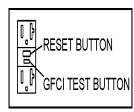


FIGURE 14. GFCI Test Button

Connecting Load

Loads can be connected to the generator by the UNV Lugs or the convenience receptacles. (See figure 15). Make sure to read the operation manual before attempting to connect a load to the generator.

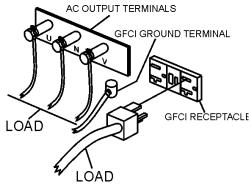


FIGURE 15. Connecting Load

Circuit Breakers

To protect the generator from an overload, a 3-pole, 250 amp, *main* circuit breaker is provided to protect the UNV 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.

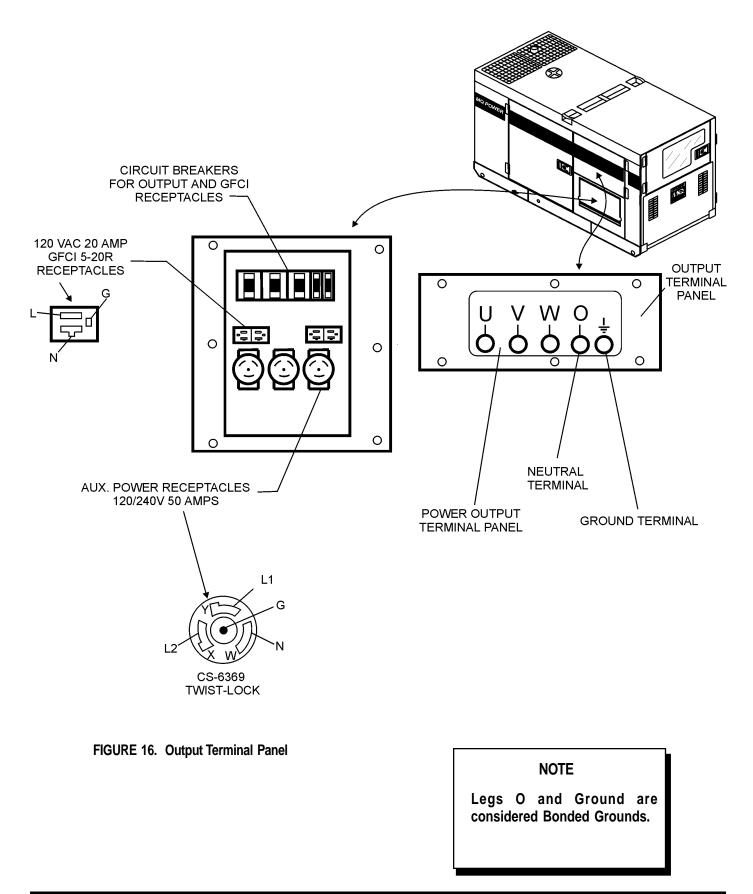
Maximum Output

The entire load connected to the UNV Lugs, all four slots in the duplex receptacles, and the must not exceed 88 kW in standby or 80 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. 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.

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DCA-100SSJU — OUTPUTTERMINAL PANEL OVERVIEW



DCA-100SSJU - OUTPUTTERMINAL 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. Available Voltages						
MODEL	DCA100SSJU					
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. (See figure 17, page 37)

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 below.)

Table 9. Maximum Amps			
Model:	DCA100SSJU		
Rated Voltage	Maximum Amps		
Single Phase 120 Volt	222.2 amps (4 wire)		
Single Phase 240 Volt	111.1 amps (4 wire)		
Three Phase 240 Volt	241 amps		
Three Phase 480 Volt	120 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		
240/120V 240/480V 3-Phase Lock CS6369		Duplex NEMA 5-20R 120V		
KVA	KW	KW		
100	57.7	0		
95.8	56.5	1.2		
91.7	55.3	2.4		
87.5	54.1	3.6		
83.4	52.9	4.8		

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DCA-100SSJU - OUTPUTTERMINAL 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 supplied produced at the UVWO legs.

When the Voltage selector switch is in the 240/120V position (see figure 17), place the AC Voltmeter Changeover 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.

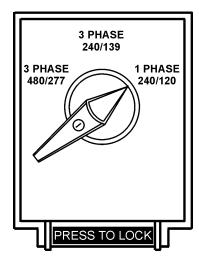


FIGURE 17. Voltage Selector Switch 240/120V Single Phase Position

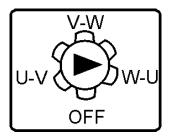


FIGURE 18. AC Voltmeter Change-over switch (Reading the W-U leg on the output terminal panel)

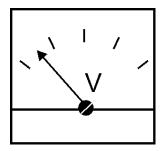
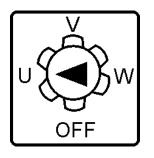


FIGURE 19. AC Voltmeter Guage (Volt reading on W-U Lug)



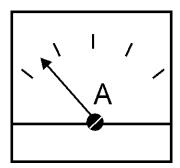


FIGURE 20. AC Ammeter Change-over Switch (Reading the U leg on the output terminal panel)

FIGURE 21. 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.

DCA-100SSJU - OUTPUTTERMINAL PANEL OVERVIEW

240/120V Hard Wire Hookup

The output terminal panel, when suppling single phase 120 volts, will provide three legs available with 222.2 amps each on three different circuits. (See Figure 23 below.) The voltage selector switch must be set at the single phase 240/120V position. (See figure 22 below.)

The output terminal panel, when suppling single phase 240 volts, will provide one leg only with 111.1 amps available. (See Figure 23 below.) The voltage selector switch must be set at the single phase 240/120V position. (See figure 22 below.)

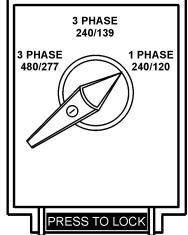


FIGURE 22. Voltage Selector Switch 240/120V Single Phase Position

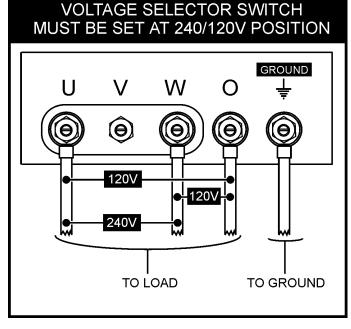


FIGURE 23. Hard Wire Hookup at 240/120V Position

480/240V Hard Wire Hookup

The output terminal panel, when suppling three phase 240 volts, will provide one circuit available at 241 amps with any two wires plus the ground. (See Figure 25 below.) The voltage selector switch must be set at the three phase 480/277V position. (See Figure 24 below.)

The output terminal panel, when suppling 3 phase 480 volts, will provide one circuit available at 120 amps available with all three wires plus ground. (See Figure 25 below.) The voltage selector switch must be set at the three phase 480/277V position. (See figure 24 below.)

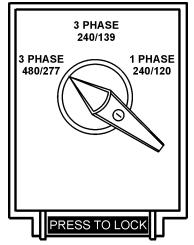


FIGURE 24. Voltage Selector Switch 480/277V Three Phase Position

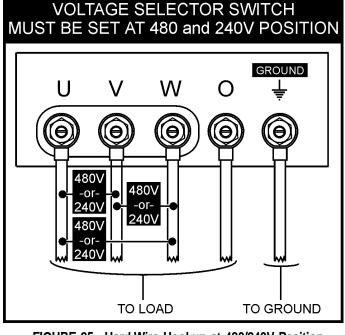


FIGURE 25. Hard Wire Hookup at 480/240V Position

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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 26 below.)

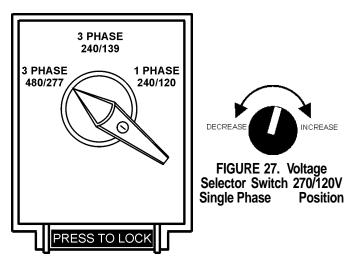


FIGURE 26. Voltage Selector Switch 480/277V Single Phase Position

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 26), can offer **SINGLE PHASE** power at 480V, 440V, or 416V. After hooking up the hard wires to the lugs as shown in figure 29 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 27).

OUTPUT TERMINALS 1-PHASE, 480V, 440V, 416V

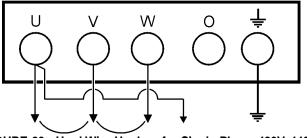


FIGURE 29. Hard Wire Hookup for Single Phase 480V, 440V, or 416V

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 26), can offer **THREE PHASE** power at 480V, 440V, or 416V. After hooking up the hard wires to the lugs as shown in figure 28 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 27).

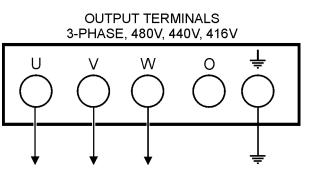
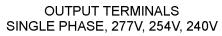
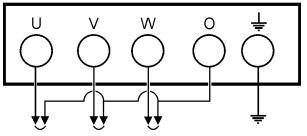


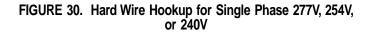
FIGURE 28. Hard Wire Hook-up for Three Phase 480V, 440V, or 416V

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

The following connection, with the voltage selector switch locked into the 3 phase 480/277V position (See Figure 26), can offer **SINGLE PHASE** power at 277V, 254V, or 240V. After hooking up the hard wires to the lugs as shown in figure 30 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 27).







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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 31 below.)

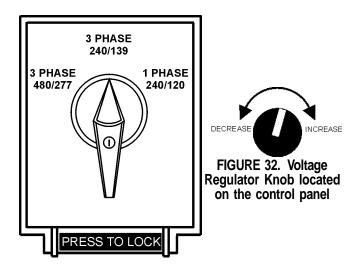


FIGURE 31. Voltage Selector Switch 240/139V Three Phase Position

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

The following connection, with the voltage selector switch locked into the 3 phase 240/139V position (See Figure 31), can offer **THREE PHASE** power at 270V, 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 32).

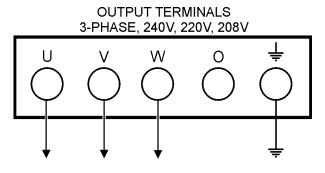


FIGURE 33. Hard Wire Hookup for Three Phase 240V, 220V, or 208V

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

The following connection, with the voltage selector switch locked into the 3 phase 240/139V position (See Figure 31), can offer **SINGLE PHASE** power at 240V, 220V, or 208V. After hooking up the hard wires to the lugs as shown in figure 34 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 32).

> OUTPUT TERMINALS 1-PHASE, 240V, 220V, 208V

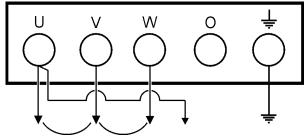
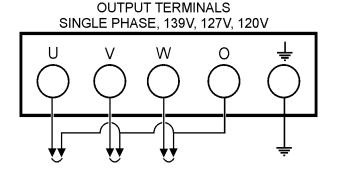
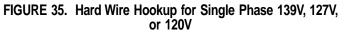


FIGURE 34. Hard Wire Hookup for Single Phase 240V, 220V, or 208V

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

The following connection, with the voltage selector switch locked into the 3 phase 240/139V position (See Figure 31), can offer **SINGLE PHASE** power at 139V, 127V, or 120V. After hooking up the hard wires to the lugs as shown in figure 35 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 32).





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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 36 below)

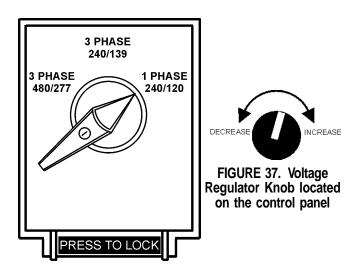


FIGURE 36. Voltage Selector Switch 240/120V Single Phase Position

Single Phase, 240 Volt

The following connection, with the voltage selector switch locked into the single phase 240/120V position (See Figure 36), will offer **SINGLE PHASE** power at 240V. After hooking up the hard wires to the lugs as shown in figure 38 below, use the Voltage Regulator Knob to fine tune to 240V. (See Figure 37)

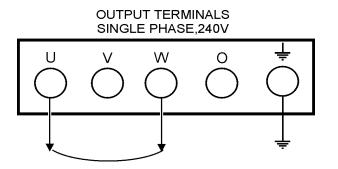


FIGURE 38. Hard Wire Hookup for Single Phase 240 volt

Single Phase: 120 Volt

The following connection, with the voltage selector switch locked into the single phase 240/120V position (See Figure 36), will offer **SINGLE PHASE** power at 120V. After hooking up the hard wires to the lugs as shown in figure 39 below, use the Voltage Regulator Knob to fine tune to 120V. (See Figure 37).

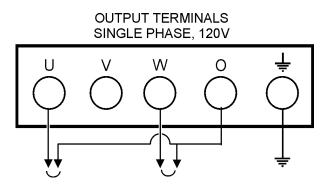


FIGURE 39. Hard Wire Hookup for Single Phase, 120 volt

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.

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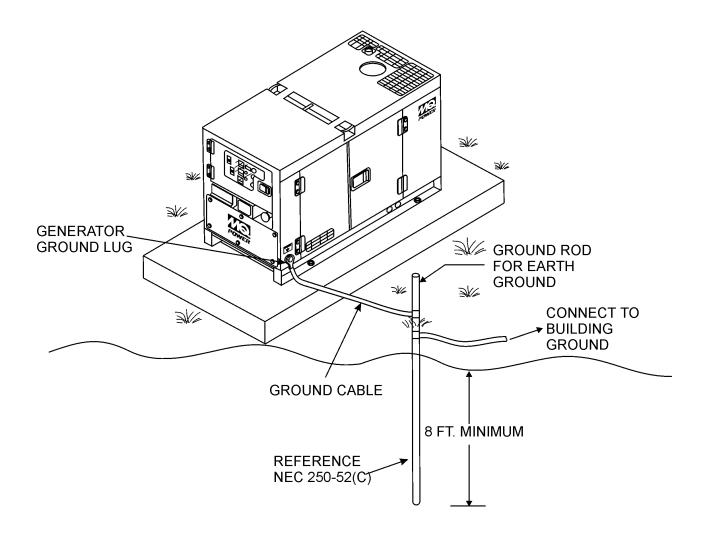


Figure 40. Typical Generator Grounding Application

General Inspection Prior to Operation

The DCA-100SSJU 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, 250 amp, *main* circuit breaker is provided to protect the UNV 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	Load In Watts		Maximum Allowable Cable Length			
Amperes	At 120 Volts	At 240 Volts	#10 Wire	#10 Wire #12 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: E	CAUTION: Equipment damage can result from low voltage.					

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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 41) on the dipstick. See Table 10 for proper selection of engine oil.

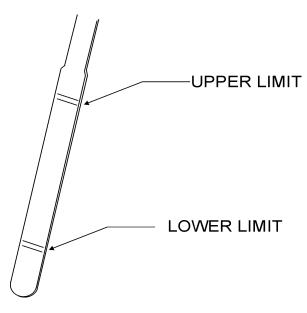


Figure 41. Engine Oil Dipstick

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-100SSJU - 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 14) has been added.

Table 14. Anti-Freeze Operating Temperatures				
Vol %	Freezing Point		Boiling Point	
Anti-Freeze	°C	۴	°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 42) when depressed with the thumb as shown below.

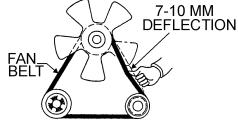


Figure 42. Fan Belt Tension

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.

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DCA-100SSJU - PRE-SETUP

Battery Cable Installation

ALWAYS be sure the battery cables (Figure 43) 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.

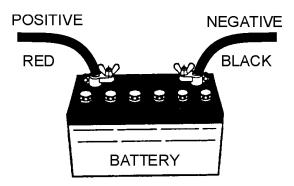


Figure 43. Battery Connections

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:

- 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.

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.

DCA-100SSJU - 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.

WATTS = VOLTAGE x 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	
Flourescent lamps, Mercury lamps	0.4 - 0.9	
Electric devices, Communication equipment	1.0	

Three Phase Load

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

VOLTAGE X AMPERAGE X 3 KVA =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: WATTS = $1.732 \times VOLTAGE \times AMPERAGE$

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 $\sqrt{3}$

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DCA-100SSJU — 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.
- 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 3 on page 27).
- 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.
- 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 44) to the "OFF" position prior to starting the engine.

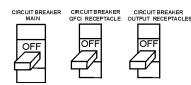


Figure 44. Main, GFCI and Load Circuit Breakers

 Connect the load to the UNV terminals as shown in Figure 45. These terminals can be found on the output terminal panel, (see page 35 Figure 16). To gain access to the output terminals lift the UNV cover. Tighten terminal nuts securely to prevent load wires from slipping out.

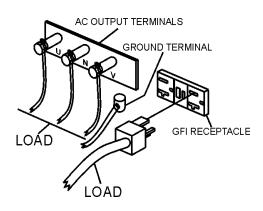


Figure 45. UNV Terminal Lugs (Load)

3. Connect the negative battery cable (BLACK) to the negative post on the battery (Figure 46).

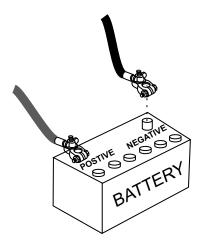
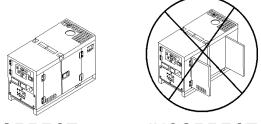


Figure 46. Battery Connections

DCA-100SSJU — GENERATOR START-UP PROCEDURE (MANUAL)

4. Close all engine enclosure doors (Figure 47).



CORRECT

INCORRECT

Figure 47. Engine Enclosure Doors

5. When starting the generator in **COLD** weather conditions, press and hold the engine preheat button (Figure 48).



Figure 48. Engine Pre-Heat Button

6. Check the voltage selection switch is at the desired voltage (Figure 49).

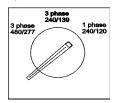


Figure 49. Voltage Selection Switch

 If the generator is equipped with a engine throttle lever, make sure the lever is pushed in and set to 'IDLE' (Figure 50).



Figure 50. Engine Throttle Lever (IDLE)

PULL TO RUN

8. If the generator has a starter switch, turn the key to 'START' (Figure 51) until the engine starts. Then release the key to set it at 'OPERATION' function.

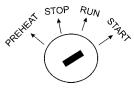


Figure 51. Engine Speed Switch (low)

9. Once the engine is warm and the engine is running properly, pull and turn the lever to 'RUN (Figure 52)'.

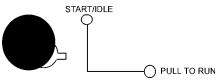


Figure 52. Engine Speed Switch (low)

 If the generator is equipped with a Microprocessor Engine Control unit (MPEC), set engine speed switch to 'Low' (Figure 53).



Figure 53. Engine Speed Switch (low)

 Turn the Auto-Off/Reset-Manual switch to 'Manual' to start the engine (Figure 54). Once the engine starts, let the engine run for 1-2 minutes. Listen for any abnormal noises.



Figure 54. Auto-Off/Reset-Manual Switch

 Once the engine is warm and the engine is running properly, set the engine speed switch to 'High' (Figure 55).

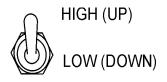


Figure 55. Engine Speed Switch (high)

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DCA-100SSJU — GENERATOR START-UP PROCEDURE (MANUAL)

13. The generator's frequency meter (Figure 56) displays the 60 cycle output frequency in **HERTZ**.



Figure 56. Frequency Meter (Hz)

14. The generator's voltage meter (Figure 57) displays the 120 VAC in **VOLTS**. If the voltage is not within the specified frequency tolerance, use the voltage adjustment control knob (Figure 58) to increase or decrease the desired voltage.

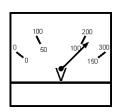


Figure 57. Engine Speed Switch (low)

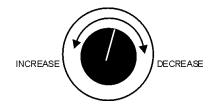


Figure 58. Voltage Adjust Control Knob

15. The ammeter (Figure 59) 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.

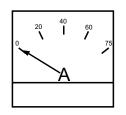


Figure 59. Ammeter (No Load)

 The engine oil pressure gauge (Figure 60) will indicate the oil pressure (kg/ cm²) of the engine. Under normal operating conditions the oil pressure is approximately 25 psi.



Figure 60. Oil Pressure Gauge

17. The coolant temperature gauge (Figure 61) will indicate the coolant temperature. Under normal operating conditions the coolant temperature is between 165 and 215 degrees Fahrenheit.

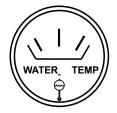


Figure 61. Coolant Temperature Gauge

 The tachometer (Figure 62) will indicate the speed of the engine when the generator is operating. Under normal operating conditions this speed is approximately 1800 RPM's.



Figure 62. Engine Tachometer

19. Turn the MAIN, GFCI and LOAD circuit breakers to their ON position (Figure 63).

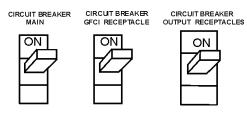


Figure 63. Main and GFCI Circuit Breakers

DCA-100SSJU — GENERATOR START-UP PROCEDURE (AUTO)

20. Observe the generator's ammeter (Figure 64) 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.

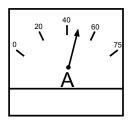


Figure 64. Ammeter (Load)

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 Startup" 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 65) in the **AUTO** position (up).

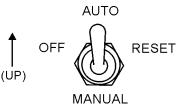


Figure 65. Off/Manual Auto Switch (AUTO)

3. Continue to follow the steps outline in the manual startup procedure (start at step 13, page 51).

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DCA-100SSJU — GENERATOR SHUTDOWN PROCEDURE

ENGINE SHUTDOWN

To shutdown the generator, use the following procedure:

1. Switch both the MAIN, GFCI and LOAD circuit breakers (Figure 66) to the "OFF" position.

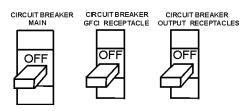


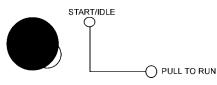
Figure 66. Main, GFCI and Load circuit breakers

2. Set the engine speed switch (Figure 67) to the idle (low) position.



Figure 67. Engine Speed Switch

3. If the engine is equipped with the engine throttle lever, turn and push to 'IDLE' position (Figure 68).





- 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 69).

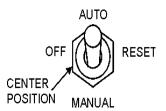


Figure 69. Off/Manual Auto Switch

6. If the engine is equipped with the engine throttle lever, turn the key to "STOP" position (Figure 70).

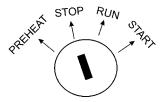


Figure 70. Engine Starter Switch (STOP)

7. Remove the load from the UNV terminal strip.

DCA-100SSJU — 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.

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DCA-100SSJU — MAINTENANCE

TABLE 16					
INSP	PECTION / MAINTENANCE	10 Hrs DAILY	250 Hrs	500 Hrs	1000 Hrs
	Check Engine Fluid Levels	Х			
	Check Air Cleaner	Х			
	Check Battery Acid Level	Х			
	Check Fan Belt Condition	Х			
	Check for Leaks	Х			
	Check for Loosening of Parts	Х			
	Replace Engine Oil and Filter *1		Х		
	Clean Air Filter		Х		
ENGINE	Drain Bottom of Fuel Tank		Х		
	Clean Unit, Inside and Outside		Х		
	Change Fuel Filter *2			Х	
	Clean Radiator and Check Coolant Protection Level			Х	
	Replace Air Filter Element				Х
	Change Corrosion Resistor				Х
	Check all Hoses and Clamps				Х
	Clean Inside of Fuel Tank				Х
GENERATOR	Measure Insulation Resistance Over 3M ohms		Х		

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

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

DCA-100SSJU — 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		
	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.		
Engine does not start.	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.		
	Battery discharged?	Charge battery.		
Starter does not run.	Starter malfunctioning?	Repair or replace.		
	Key switch malfunctioning?	Repair or replace.		
	Wiring disconnected?	Connect wiring.		

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DCA-100SSJU — TROUBLESHOOTING (ENGINE)

TABLE 18. ENGINE TROUBLESHOOTING (CONTINUED)			
SYMPTOM	POSSIBLE PROBLEM	SOLUTION	
	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.	
Engine revolution is not smooth.	Incorrect nozzle opening pressure?	Adjust.	
	Injection nozzle stuck or clogged?	Repair or replace.	
	Fuel over flow pipe clogged?	Clean.	
	Governor malfunctioning?	Repair.	
	Excessive engine oil?	Reduce to the specified level.	
Either white or blue exhaust gas is observed.	Piston ring and liner worn or stuck?	Repair or replace.	
is observed.	Incorrect injection timing?	Adjust.	
	Deficient compression?	Adjust top clearance.	
	Overload?	Lessen the load.	
	Low grade fuel used?	Use the specified fuel.	
Either black or dark gray exhaust gas is observed.	Fuel filter clogged?	Clean or change.	
	Air cleaner clogged?	Clean or change.	
	Deficient nozzle injection?	Repair or replace the nozzle.	
	Incorrect injection timing?	Adjust.	
	Engine's moving parts seem to be seizing?	Repair or replace.	
Deficient output.	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-100SSJU — 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 19) and the MPEC trouble shooting table (Table 20). If the problem cannot be remedied, consult our company's business office or service plant.

TABLE 19. ENGINE & GENERATOR TROUBLESHOOTING			
SYMPTOM	POSSIBLE PROBLEM	SOLUTION	
	Dead battery?	Replace battery.	
Engine fails to start and starter does not rotated.	Defective starter switch?	Replace switch.	
	Fuse F5 burned out?	Replace fuse.	
	Broken pre-heat circuit?	Check pre-heat circuit.	
Engine fails to start and starter rotates.	No fuel?	Add fuel.	
	Defective wiring?	Check wiring.	
	Clogged fuel strainer?	Clean or replace.	
Engine starts and remains at low speed.	Clogged air cleaner?	Clean or replace.	
opoodi	Disconnected wiring?	Check and repair wiring.	
	No voltage present in AC power source?	Replace rectifier (RE1).	
	Defective rotor?	Replace rotor.	
Engine speed rises and no voltage is present in AC power source.	Defective voltmeter?	Replace voltmeter.	
	Disconnected wiring?	Check and repair wiring.	
	Layer short-circuit in armature winding?	Replace armature.	
Engine speed rises and AC power	Defective circuit breaker (protector)?	Replace circuit breaker (protector).	
voltage is too low or cannot be used.	Layer short-circuit, broken wires in armature winding?	Repair or replace armature.	
Engine speed rises and battery	Defective engine regulator?	Replace regulator.	
discharges too soon.	Defective wiring?	Repair or replace wiring.	
Engine speed rises and engine	Defective alternator?	Repair or replace alternator.	
seems overloaded.	Damaged alternator bearing?	Replace alternator bearings.	

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TABLE 20. MPEC TROUBLESHOOTING			
Sympton	Possible Cause	Solution	
	Low oil level?	Fill oil level.	
Low oil pressure light is	Oil pressure sending unit failure?	Replace oil pressure sending unit.	
on.	Time delay malfuntion in MPEC?	Refer to dealer.	
	Wire shorted?	Inspect/repair wire.	
	Low coolant level?	Fill coolant level.	
Low coolant level light is on.	Sending unit failure?	Replace sending unit.	
	Low battery voltage?	Replace/charge battery.	
	Fan belt tension incorrect?	Tighten/replace fan belt.	
	Air flow is not circulation through radiator?	Clean/repair radiator grill.	
	Doors open?	Close doors.	
High coolant temperture	Exhaust leaking?	Replace/repair gaskets or faulty part.	
light is on.	Generator being overloaded?	Check/reduce load.	
	Thermostat failure?	Replace thermostat.	
	Air intake blocked?	Clear all air intakes.	
	Temperature switch failure?	Replace temperature switch.	
O university light in an	No or low Fuel?	Fill fuel level.	
Overcrank light is on.	MPEC needs to be calibrated?	Refer to dealer.	
	RPM engine speed too high?	Adjust RPM.	
O university of light in an	Governor actuator needs to be adjusted?	Adjust governor actuator.	
Overspeed light is on.	Governor controller needs to be adjusted?	Adjust governor controller.	
	MPEC needs to be calibrated?	Refer to dealer.	
Loss of MPU light(s) or	Magnetic pick up out of adjustment?	Adjust magnetic pick up.	
on.	Magnetic pick up dirty?	Clean magnetic pick up.	

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.

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DCA-100SSJU — SUGGESTED SPARE PARTS

DCA-100SSJUW/JOHN DEERE 6068TF150 DIESEL ENGINE 1 TO 3 UNITS

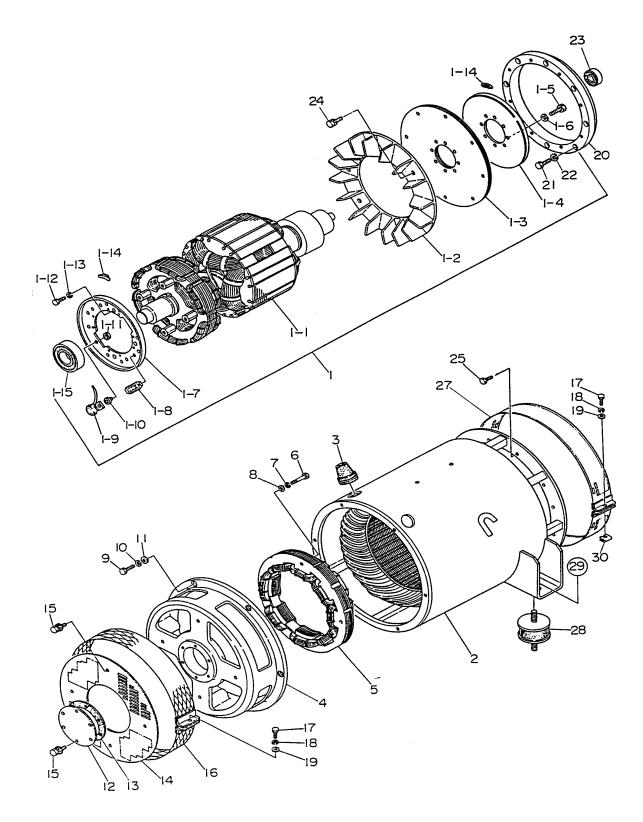
Qty.	<u>P/N</u>	Description	
1	0601808814	CIRCUIT BREAKER	
1	0601820671	AUTOMATIC VOLTAGE REG	ULATOR
1	0601840073	RHEOSTAT VOLTAGE REGU	JLATOR
1	0601840121	KNOB RHEOSTAT	
1	M3310500003	RADIATOR HOSE	
1	M3310500103	RADIATOR HOSE	
1	0193601080	RADIATOR HOSE	
5	0602041290	OIL FILTER	
5	0602042590	FUEL FILTER	
5	0602046377	AIR ELEMENT	
1	0602122093	UNIT OIL PRESSURE	
1	0602123261	UNIT WATER PRESSURE	
1	0601810245	BULB	
3	AR51481	KEY, STARTER SWITCH	S/N7400001 TO 7400295
1	ECU8899N	ENGINE CONTROLLER	S/N7400296~

NOTE

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

DCA-100SSJU --- GENERATOR ASSY.

GENERATOR ASSY.



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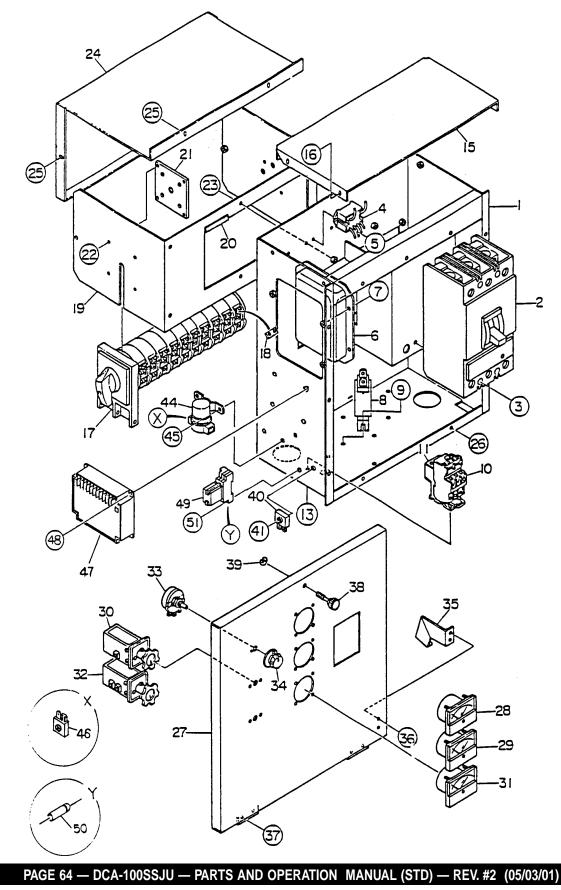
DCA-100SSJU ---- GENERATOR ASSY.

GENERATOR ASSY.

			OTV	
<u>NO.</u>	PART NO.	ITEM	<u>QTY.</u>	<u>REMARKS</u>
1	C0110000220		1	
1-1		FIELD ASSY	1	
1-2	8101070033	FAN	1	
1-3	8101611014	COUPLING DISK	5	
1-4	8101015003	BALANCING PLATE	1	
1-5	0012110030		8	
1-6	0042510000	LOCK WASHER	8	
1-7	8101026013	SET PLATE RECTIFIER	1	
1-8	0601821349		2	PT 3610
1-9		SURGE ABSORBER	<u>-</u> 1	ER7-M14 IK21A
1-10	8001020004			
1-11	8001020504		1	
1-12	0010110020	HEX. HEAD BOLT	4	
		LOCK WASHER	4	
1-13	0040010000	BALANCING WEIGHT KIT	4	
1-14	0601000209	BALANCING WEIGHT KIT	1	
1-15	0071906311	BEARING		6311DDU C3
2	C0130000103	STRATOR ASSY	1	S/N7400001 TO 7400356
	C0130200003	STRATOR ASSY.	1	S/N7400357~
3	0845041804	GROMMET	2	
4	8101315202	END BRACKET	1	
5	8101350013	STRATOR ASSY STRATOR ASSY. GROMMET END BRACKET FIELD ASSY EXCITER	1	
6	0012110070	HEX. HEAD BOLT	4	S=26
7	0042610000	LOCK WASHER	4	
8	0041210000	PLAIN WASHER	4	
9	0010110035	HEX. HEAD BOLT	6	
10	0040010000	LOCK WASHER	6	
11	0041210000	HEX. HEAD BOLT LOCK WASHER PLAIN WASHER HEX. HEAD BOLT LOCK WASHER PLAIN WASHER COVER, BEARING	6	
12	8101310014	COVER BEARING	1	
13	8131312014	GASKET, BEARING	1	
14	8131331003	COVER, END BRACKET	-	
15	0017106012	HEX. HEAD BOLT	10	
16	8101333003			
		COVER, END BRACKET		
17	0010106030	HEX. HEAD BOLT	2	
18	0040006000		2 2	
19	0041206000	PLAIN WASHER		
20	8101614003A			REPLACES M2163400003
21	0013904044	HEX. HEAD BOLT	8	S/N7400001 TO 74001060
	034320415	HEX. HEAD BOLT	8	SN 7400161~
22	0043604000	LOCK WASHER	8	
23	0070506306	LOCK WASHER BEARING	1	6303ZZ
24	0012810030	HEX. HEAD BOLT	8	
25	0010310035	HEX. HEAD BOLT		S/N7400001 TO 7400160
	0012810030	HEX. HEAD BOLT		7400161~
26	0042510000	LOCK WASHER		
27	8111332014	COVER. FAN	1	
28	0605000063	RUBBER SUSPENSION	2	KA-120SS
29	0030016000	HEX. NUT	2	
20	0040016000	LOCK WASHER	2	
30	0600815000	NUT	1	
00	000010000		I	

DCA-100SSJU ---- CONTROL BOX ASSY.

CONTROL BOX ASSY.

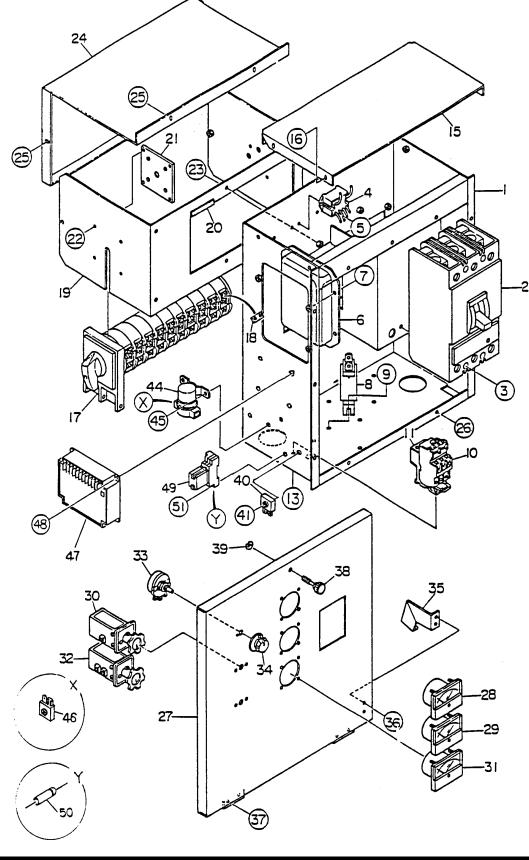


DCA-100SSJU --- CONTROL BOX ASSY.

CONTROL BOX ASSY.				
<u>NO.</u>	PART NO.	ITEM	<u>QTY.</u>	<u>REMARKS</u>
	M3246700404	WIRE HARNESS, GENERATOR	1	
1	M3213000202	CONTROL BOX		
	M3213000212	CONTROL BOX	1	. S/N7400034 TO 7400150
	M3213000222	CONTROL BOX	1	. S/N7400151 TO 7400295
	M3213000232	CONTROL BOX		
2	0601808814	CIRCUIT BREAKER	1	. KAF362501021 3P 250A
3	0021005080	MACHINE SCREW	4	
4	0601823863	RELAY UNIT	2	. MSA9013A
5	0027104015	MACHINE SCREW	4	
6	0601820671	AUTOMATIC VOLTAGE REGULATOR		
7	0027105010	MACHINE SCREW		
	0027105015	MACHINE SCREW		
8	0601806118	CURRENT TRANSFORMER		. 814-943 200/5A
9	0027106015	MACHINE SCREW OVER CURRENT RELAY OVER CURRENT RELAY FITTING BRACKET	6	
10	0601820845	OVER CURRENT RELAY	1	LR2D1308
11	0601820846	OVER CURRENT RELAY	1	LA7D1064
12	M1260600004	FITTING BRACKET	•	S/N7400001 TO 7400150
13	0027104015	MACHINE SCREW	2	
14	0027104010	MACHINE SCREW	2	. S/N 7400001 TO 7400150
15	M3213500003	CONTROL BOX COVER	1	. S/N7400001 TO 7400133
	M3213500013	CONTROL BOX COVER	1	. S/N7400034~
16	0016906015	HEX. HEAD BOLT	4	
17	M3923100004	SELECTOR SWITCH	1	. VY-125
18	M3276600004	SPACER	8	
19	M3213600003	SWITCH BRACKET	1	
20	0330000295	EDGING	2	
21	M3260500004	SWITCH BOARD	1	
22	0021104010	MACHINE SCREW	4	
23	0016006015	HEX. HEAD BOLT	6	
24	M3213600114	SWITCH COVER	1	. REPLACES M3213600104
25	0016906015	HEX. HEAD BOLT	4	
26	0016906015	HEX. HEAD BOLT	10	
	0040506000	TOOTHED WASHER	1	

DCA-100SSJU --- CONTROL BOX ASSY.

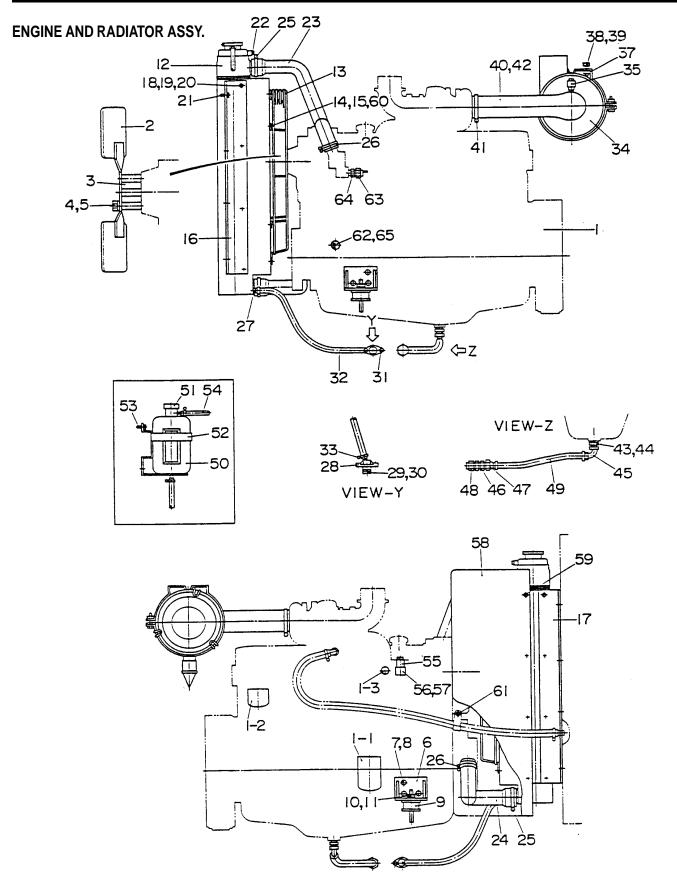
CONTROL BOX ASSY.



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DCA-100SSJU --- CONTROL BOX ASSY.

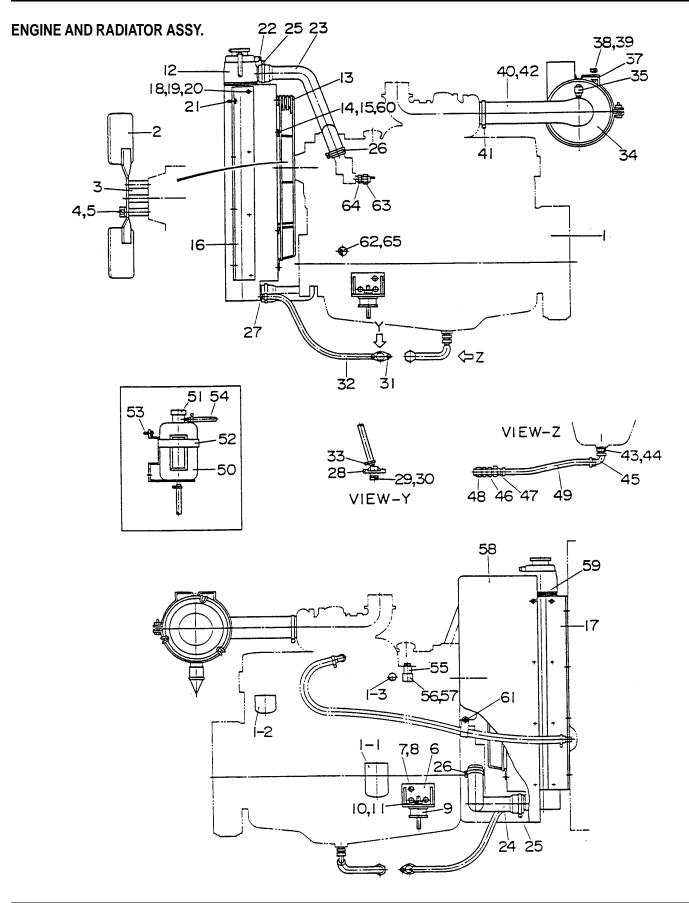
	ROL BOX ASSY.			
<u>NO.</u>	<u>PART NO.</u>	ITEM	<u>QTY.</u>	<u>REMARKS</u>
27	M3223000203	CONTROL PANEL	1	
28	0601807630	FREQUENCY METER		
29	0601808953	AC AMMETER	1	260240LSLS1JCA
30	0601801040	CHANGE-OVER SWITCH, AMMETER	1	SL-2AS
31	0601806813	AC VOLTMETER	1	260244SJSJ1
32	0601801041	CHANGE-OVER SWITCH, VOLTMETER	1	SL-2VS
33	0601840073	RHEOSTAT (VOLTAGE REGULATOR)	1	RA20A2SE102BJ 2W 1K OHM
34	0601840121	KNOB		
35	M1223100004	STOPPER	1	
36	0027105015	MACHINE SCREW	2	
37	0027105015	MACHINE SCREW	4	
38	M9220100004	SET SCREW	1	
39	0080200007	SNAP RING	1	
40	0601821370	RECTIFIER		
41	0027104020	MACHINE SCREW	1	S/N7400001 TO 7400205
				AND 7400296~
	0027105020	MACHINE SCREW	1	S/N7400206 TO 7400295
42	0602200478	EMERGENCY RELAY	1	10701-60602,3
				S/N7400001 TO 7400295
43	0027105040	MACHINE SCREW		
44	0602202592	STARTER RELAY		
45	011808015	MACHINE SCREW		
46	0601821370	RECTIFIER	1	DE 4503 REPLACES
				0601823240 S/N7400296~
47	DYN10794000012			REPLACES 0602202599 S/N7400296~
	MPS6724			REPLACES 0602120485 S/N7400296~
48	0027105015	MACHINE SCREW		
49	LY2US12VDC	RELAY	1	REPLACES 0601823768
				S/N7400296 TO 7400310
	0601827656	RELAY	1	LY2-D 12VD S/N7400311~
	0601823109	BASE	1	PTS 08A-E S/N 7400296~
	PYCA1	CLIP		
50	0601823223	RECTIFIER		
51	0027104020	MACHINE SCREW	2	S/N7400296~



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ENGINE AND RADIATOR ASSY.

NO. PART NO. ITEM QTY. REMARKS 1 M3923200014 ENGINE 1 JOHN DEERE 6068TF S/N7400001 TO 7400356 1 M3925200004 ENGINE 1 JOHN DEERE 6068TF S/N7400001 TO 7400357~ 0602011491 FAN BELT 1 JOHN DEERE RE59754A 1-2 0602014290 ELEMENT, FUEL FILTER 1 JOHN DEERE RE92418 1-3 0602014297 ELECTRIC HEATER 1 JOHN DEERE RE29658 S/N 7400001 TO 7400175					
NO.	PART NO.	ITEM	QTY.	REMARKS	
1	M3923200014	ENGINE	1	IOHN DEERE 6068TE S/N7400001 TO 7400356	
1	M2025200014		1		
	1013923200004			JUHN DEERE 00001F130 3/10/40033/~	
	0602011491	FAN BELI	1		
1-1	0602041290	ELEMENT, OIL FILTER	1	JOHN DEERE RE59754A	
1-2	0602042590	ELEMENT, FUEL FILTER	1	JOHN DEERE RE92418	
1-3	0602014297	ELECTRIC HEATER	1	IOHN DEERE RE29658 S/N 7400001 TO 7400175	
1-0	0002014237		4		
		ELECTRIC HEATER ASSY	!	JUHN DEERE RESU2008 S/N 7400176~	
2	0602060010	BLOWER FAN	1	422198	
3	0602061000	FAN SPACER	1	JOHN DEERE RE502668 S/N 7400176~ 422198 JOHN DEERE R81911	
4	0012110095	HEX. HEAD BOLT	4	S=31	
5	030210250	LOCK WASHER	л. т		
6	M020200200		···· + ······		
	M2303200303		Z		
7	0131151240	ENGINE FOOT HEX. HEAD BOLT LOCK WASHER RUBBER SUSPENSION	6	REPLACES 0010312030	
8	0040012000	LOCK WASHER	6		
9	0605000060	RUBBER SUSPENSION	2	KA-80SS	
10	0030012000				
	0030012000	HEX. NUT LOCK WASHER RADIATOR	2		
11	0040012000	LOCK WASHER	Z		
12	0602011988	RADIATOR	1	JOHN DEERE RE52824	
	0602012723	RADIATOR	1	C2810060000 S/N 7400206~	
12-1	0602011067	CAP	1	S/N7400001~7400205	
12 1	0602011066	RADIATOR RADIATOR CAP CAP HOSE	1	C/N7400006	
40.0			···· I ······		
12-2	0199101200	HUSE	1	5/N/400206~	
13	0602010795		4		
14	0013006008	HEX. HEAD BOLT PLAIN WASHER RADIATOR BRACKET RADIATOR BRACKET HEX. HEAD BOLT	8	S/N7400001 TO 7400205	
15	0043106000	PLAIN WASHER	8	S/N7400001 TO 7400205	
16	M3310200204		1	S/N7400001 TO 7400205	
			!		
17	M3310200404	RADIATOR BRACKET	1	S/N/400001 TO /400205	
18	0013006008	HEX. HEAD BOLT	8	S/N7400001 TO 7400205	
19	030206150				
20	0043106000	PLAIN WASHER	8	S/N7400001 TO 7400205	
20			0		
	011008020		0	REFLACES 0010900020	
22	0138102000	PLAIN WASHER HEX. HEAD BOLT PLUG RADIATOR HOSE RADIATOR HOSE	1	S/N/400001 TO /400205	
23	M3310500003	RADIATOR HOSE	1	S/N7400001 TO7400205	
	M3310500403	RADIATOR HOSE	1	S/N7400206~	
24	M3310500103	RADIATOR HOSE RADIATOR HOSE HOSE BAND	1	S/N 7400001 TO 7400205	
27	M3310500503		1	C/N7400206	
05	1013310500503		1		
25	0605515148	HOSE BAND HOSE BAND HOSE JOINT	2	5040	
26	0605515147	HOSE BAND	2	5032	
27	0605512190	HOSE JOINT	1	S/N7400001 TO 7400205	
28	7812014003B	DRAIN JOINT	1	REPLACES M2320300103	
20	1012014000B		/	S/N7400001 TO 7400205	
00	10000000000	DRAIN JOINT		S/N7400001 TO 7400205	
29	M9200200004	DRAIN JOINT]		
30	0150000018	O RING	1	A P18 S/N7400001 TO 7400205 REPLACES 0016906020 S/N7400001 TO 7400205	
31	011206020	HEX. HEAD BOLT	2	REPLACES 0016906020 S/N7400001 TO 7400205	
32	0191300580		1	S/N7400001 TO 7400205	
33			າ ົ້າ	S/N7400001 TO 7400205 91004 S/N7400001 TO 7400205	
	0605515189		···· Z ······		
34	0602046258	AIR CLEANER]	FRG100297	
	0602046377	ELEMENT, AIR CLEANER	1	P778214	
35	0602040650	ELEMENT, AIR CLEANER INDICATOR, AIR CLEANER NIPPLE BAND, AIR CLEANER	1	RBX00-2252	
36	0603306385	NIPPI F	1	S/N 7400001 TO 7400004	
			ເ ດ		
37	0602040596	DAIND, AIR GLEAINER	∠		
38	011008020	HEX. HEAD BOLT	4	KEPLACES 0016908020	



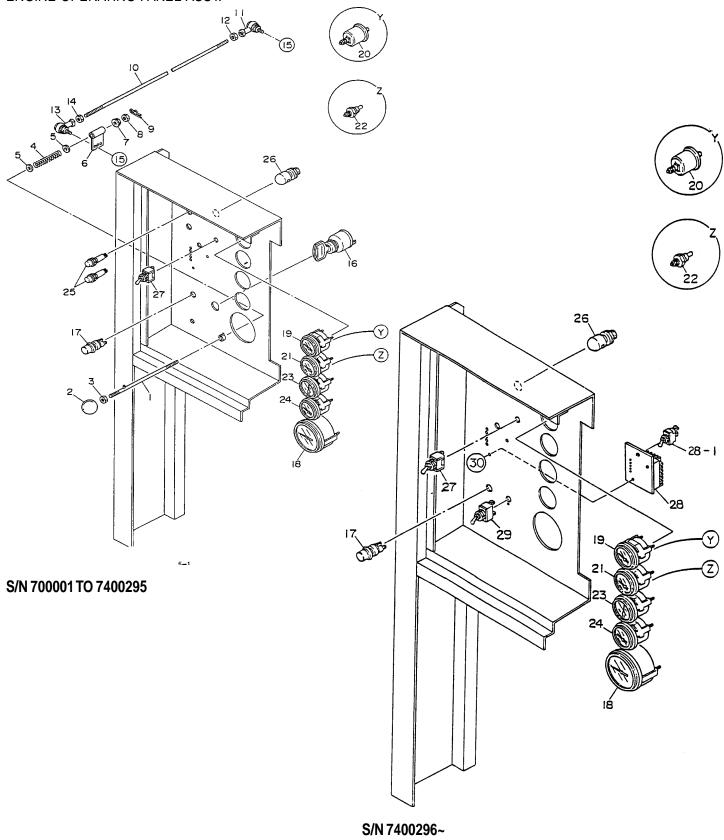
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ENGINE AND RADIATOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>ITEM</u> HEX. NUT	<u>QTY.</u>	<u>REMARKS</u>	
39	020108060	HEX. NUT	4	.REPLACES 0207008000	
40	M3373100003	HOSE AIR CLEANER	1		
41	0605515146	HOSE BAND	1	.5035	
42	0605515200	HOSE BAND ADAPTER	1	.5072	
43	0602022563	ADAPTER	1	10-M18X1.5 F80X-S	
44	0602021165		1	411 S/N7400001 TO 7400205	
45	0602022561	90° ELBOW	1	.33982-10-10+ 10WTX-WLN-S S/N7400001 TO 7400295 30682-10-10 S/N7400001 TO 7400295	
46	0602022562	UNION	1	10WTX-WLN-S S/N7400001 TO 7400295	
47	0602022792	SWIVEL	1	30682-10-10 S/N7400001 TO 7400295	
48	0602021070	CAP	1	.10FNTX-S .836-10 S/N 7400001 TO 7400295 .836-10 S/N 7400296~	
49	0602021573	DRAIN HOSE	1	.836-10 S/N 7400001 TO 7400295	
	0269200406	DRAIN HOSE	1	.836-10 S/N 7400296~	
50	M9300000203	RESERVE TANK	1		
51	0802010900	CAP, RESERVE TANK	1	REPLACES 0602010900	
52	M3316100104	BRACKET, RESERVE TANK	1		
53	011008020	RESERVE TANK CAP, RESERVE TANK BRACKET, RESERVE TANK HEX. HEAD BOLT HOSE	2	.REPLACES 0016908020	
54	0193601080	HOSE	1		
55	M2260600014	RELAY BRACKET	1	S/N(7400001 + 10) = 7400175	
	M2260600024	RELAY BRACKET	1	S/N7400176~	
56	0602202597	RELAY	1	S/N7400176~ AL64309 S/N7400001 TO 7400175 .AT141011 S/N7400176~	
	0602202592	RELAY	1	.AT141011 S/N7400176~	
57	0017105015	HEX. HEAD BOLT	1	.S/N7400001 TO 7400175	
	011808015	MACHINE SCREW	2	REPLACES 0027106015 S/N7400176~	
58	M3313100004	RADIATOR COVER	1	.S/N7400001 TO 7400175 REPLACES 0027106015 S/N7400176~ S/N7400001 TO 7400205	
	M3313100204	RADIATOR COVER	1	S/N7400001 TO 7400205 .S/N7400206~ .REPLACES 0016908020 REPLACES 0043006000 S/N7400001 TO 7400205 .REPLACES 0016908020 .1718939011	
59	011008020	HEX. HEAD BOLT	4	.REPLACES 0016908020	
60	030206150	LOCK WASHER	8	REPLACES 0043006000 S/N7400001 TO 7400205	
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/N7400004~	
66	0605511395	WATER SWITCH ADAPTER ADAPTER ADAPTER VALVE	1	XV500P-8 S/N7400296~	
67	DYNC70025000012	ACTUATOR	1	REPLACES 0602150093 S/N7400296~ .S/N7400296~ REPLACES 0017110020 S/N7400296~	
68	M3356200004	STOPPER BRACKET	1	.S/N7400296~	
69	012210020	HEX. HEAD BOLT	1	REPLACES 0017110020 S/N7400296~	
70	011206020	HEX. HEAD BOLT	1	REPLACES 0017110020 S/N7400296~ REPLACES 0016906020 S/N7400296~ .S/N7400296~ .10WFTX-S S/N7400296~ .10WLN S/N7400296~	
71	0207006000	HEX. NUT	1	.S/N7400296~	
72	0603306590	CONNECTOR	1	.10WFTX-S S/N7400296~	
73	0603300285	ROCK NUT	1	.10WLN S/N7400296~	
74	0603306395	HOSE JOINT	1	.30182810 S/N7400296~	

DCA-100SSJU --- ENGINE OPERATING PANEL ASSY.

ENGINE OPERATING PANEL ASSY.



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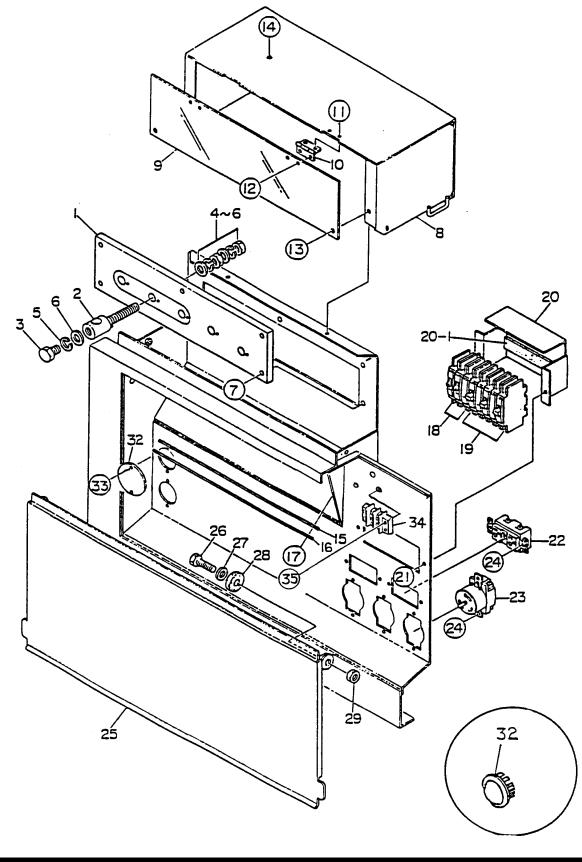
DCA-100SSJU --- ENGINE OPERATING PANEL ASSY.

NO. PARTS.NO. ITEM QTV. REMARKS M335720002 WIRE HARNESS, ENGINE 1 SN74000176 TO 7400295 M3357200022 WIRE HARNESS, ENGINE 1 SN74000176 TO 7400295 M3353200302 WIRE HARNESS, ENGINE 1 SN7400001 TO 7400295 2 0601840190 KNOB REPLACES M322000004 3 0036003000 HEX.NUT 1 SN7400001 TO 7400295 4 0605604150 SPRING 1 S639 SN/7400001 TO 7400295 5 04120000 PLAIN WASHER 2 SN7400001 TO 7400295 6 M1354200004 BRACKET 1 SN7400001 TO 7400295 7 20706000 HEX.NUT 1 SN7400001 TO 7400295 9 0605010550 SNAP PIN	ENGIN	IE OPERATING	PANEL ASSY.		
M3357200002 WIRE HARNESS, ENGINE 1 SN7400001 TO 7400175 M3357200002 WIRE HARNESS, ENGINE 1 SN7400176 TO 7400295 M3352200302 WIRE HARNESS, ENGINE 1 SN7400176 TO 7400295 1 M135430304 SLIDE LEVER 1 SN740001 TO 7400295 2 0601840190 KN0B SN740001 TO 7400295 3 0036003000 HEX.NUT SN740001 TO 7400295 4 0605804150 SPRING S699 SN7400001 TO 7400295 5 0041208000 PLAIN WASHER 2 SN7400001 TO 7400295 6 003008000 HEX.NUT SN7400001 TO 7400295 SN7400001 TO 7400295 1 0207008000 HEX.NUT SN7400001 TO 7400295 SN740001 TO 7400295 1 060510550 SNAP PIN SN740001 TO 7400295 SN740001 TO 7400295 1 060210107 SALL JOINT LI-SN7400001 TO 7400295 SN7400001 TO 7400295 1 003608000 HEX.NUT SN7400001 TO 7400295 SN7400001 TO 7400295 1 004102000 FOLNIN WASHER	NO.	PARTS NO.	ITEM	QTY.	REMARKS
M335720012 WIRE HARNESS, ENGINE 1 SN/7400176 TO 7400295 1 M1354300304 SLIDE LEVER SN/740001 TO 7400295 2 0601840190 KNOB REPLACES M32000004 3 0036003000 HEX.NUT SN/740001 TO 7400235 4 0605804150 SPRING SN/740001 TO 7400235 5 0041208000 PLAIN WASHER SN/740001 TO 7400235 6 M1354200004 BRACKET SN/740001 TO 7400235 7 020708000 HEX.NUT SN/740001 TO 7400235 8 003008000 HEX.NUT SN/740001 TO 7400235 9 0605010550 SNAP PIN SN/740001 TO 7400235 10 SN/740001 TO 7400235 SN/7400001 TO 7400235 11 D602180106 BALL JOINT LHSAB DE161 SN/7400001 TO 7400295 10 0036508000 HEX.NUT SN/740001 TO 7400235 10 0036508000 HEX.NUT SN/740001 TO 7400235 10 0041206000 PLAIN WASHER SN/740001 TO 7400235 10 0041206000 PLAIN WASH		M3357200002	WIRE HARNESS, ENGINE	1	<u>S/N740000</u> 1 TO 7400175
M335220302 WIRE HARNESS, ENGINE 1 SN7400296- 1 M335400304 SLIDE LEVER 1 SN7400001 TO 7400295 2 0601840190 KNOB REPLACES M932000004 3 0036003000 HEX.NUT 1 SN7400001 TO 7400295 4 0605804150 SPRING 1 SN7400001 TO 7400295 5 004120000 PLAIN WASHER 2 SN7400001 TO 7400295 6 M135420004 BRACKET 1 SN7400001 TO 7400295 7 0207008000 HEX.NUT 1 SN7400001 TO 7400295 8 0605010550 SNAP PIN 1 S22NPHI02 SN7400001 TO 7400295 10 0602180106 BALL JOINT 1 LHSSE DLE161 SN7400001 TO 7400295 11 0602180106 BALL JOINT 1 LHSSE DLE161 SN7400001 TO 7400295 12 0030008000 HEX.NUT 1 SN7400001 TO 7400295 13 0602180107 BALL JOINT 1 LHSSE DLE161 SN7400001 TO 7400295 14 0036508000 HEX.NUT		M3357200012	WIRE HARNESS. ENGINE	1	S/N7400176 TO 7400295
2 0601840190 KNOB 1 REPLACES M32000044 3 0036003000 HEX. NUT 1 SN7400001 TO 7400295 4 0605804150 SPRING 1 5639 SN7400001 TO 7400295 5 0041208000 PLAIN WASHER 2 SN7400001 TO 7400295 6 M1354200004 BRACKET 1 SN7400001 TO 7400295 7 0207008000 HEX. NUT 1 SN7400001 TO 7400295 8 00300800 HEX. NUT 1 SN7400001 TO 7400295 10 00308000 HEX. NUT 1 SN7400001 TO 7400295 11 00401010 HAL JOINT 1 LHSAB DE161 SIN7400001 TO 7400295 12 003008000 HEX. NUT 1 SIN7400001 TO 7400295 13 0602100010 HEX. NUT 1 SIN7400001 TO 7400295 14 0036508000 HEX. NUT 1 SIN7400001 TO 7400295 15 0207006000 HEX. NUT 1 SIN7400001 TO 7400295 16 0602100026 STARTER SWITCH			WIRE HARNESS, ENGINE	1	S/N7400296~
2 0601840190 KNOB 1 REPLACES M32000044 3 0036003000 HEX. NUT 1 SN7400001 TO 7400295 4 0605804150 SPRING 1 5639 SN7400001 TO 7400295 5 0041208000 PLAIN WASHER 2 SN7400001 TO 7400295 6 M1354200004 BRACKET 1 SN7400001 TO 7400295 7 0207008000 HEX. NUT 1 SN7400001 TO 7400295 8 00300800 HEX. NUT 1 SN7400001 TO 7400295 10 00308000 HEX. NUT 1 SN7400001 TO 7400295 11 00401010 HAL JOINT 1 LHSAB DE161 SIN7400001 TO 7400295 12 003008000 HEX. NUT 1 SIN7400001 TO 7400295 13 0602100010 HEX. NUT 1 SIN7400001 TO 7400295 14 0036508000 HEX. NUT 1 SIN7400001 TO 7400295 15 0207006000 HEX. NUT 1 SIN7400001 TO 7400295 16 0602100026 STARTER SWITCH	1		SLIDE LEVER	1	S/N7400001 TO 7400295
SN7400001 TO 7400295 3 0036003000 HEX.NUT 1 S/N7400001 TO 7400295 4 0605804150 SPRING 1 S/S07400001 TO 7400295 5 0041208000 PLAIN WASHER 2 S/N7400001 TO 7400295 7 0207008000 HEX.NUT 1 S/N7400001 TO 7400295 8 0030008000 HEX.NUT 1 S/N7400001 TO 7400295 9 0605010550 S/NAP PIN 1 S/N7400001 TO 7400295 10 M354300104 GOVERNOR ROD 1 S/N7400001 TO 7400295 11 0602180107 BALL_JOINT 1 LHSAB EIGEI S/N7400001 TO 7400295 12 003008000 HEX.NUT 1 S/N7400001 TO 7400295 14 003560800 HEX.NUT 1 S/N7400001 TO 7400295 14 0036508000 HEX.NUT 1 S/N7400001 TO 7400295 16 0602100058 SET NUT 1 S/N7400001 TO 7400295 16 0602100058 SET NUT 1 JOHN DEERE R4325 S/N7400001 TO 7400295		0601840190	KNOB	1	REPLACES M932000004
4 0605804150 SPRING 1 5539 SN7400001 TO 7400295 5 0041208000 PLAIN WASHER 2 SN7400001 TO 7400295 7 0207008000 HEX. NUT 1 SN7400001 TO 7400295 8 0030008000 HEX. NUT 1 SN7400001 TO 7400295 9 0605010550 SNAP PIN 1 222NPH10Z SN7400001 TO 7400295 10 M3354300104 GOVERNOR ROD 1 SN7400001 TO 7400295 11 0602180106 BALL JOINT 1 LHSAS DE161 SN7400001 TO 7400295 12 003008000 HEX. NUT 1 SN7400001 TO 7400295 13 0602180107 BALL JOINT 1 LHSSE DE161 SN7400001 TO 7400295 14 003608000 HEX. NUT 1 SN7400001 TO 7400295 15 0207006000 HEX. NUT 1 SN7400001 TO 7400295 16 0602100028 STARTER SWITCH 1 SN7400001 TO 7400295 16 0602100028 SET NUT 1 JOHN DEERE RA9545 S/N7400001 TO 7400295					0/N 7 400004 TO 7 400005
4 0605804150 SPRING 1 5539 SN7400001 TO 7400295 5 0041208000 PLAIN WASHER 2 SN7400001 TO 7400295 7 0207008000 HEX. NUT 1 SN7400001 TO 7400295 8 0030008000 HEX. NUT 1 SN7400001 TO 7400295 9 0605010550 SNAP PIN 1 222NPH10Z SN7400001 TO 7400295 10 M3354300104 GOVERNOR ROD 1 SN7400001 TO 7400295 11 0602180106 BALL JOINT 1 LHSAS DE161 SN7400001 TO 7400295 12 003008000 HEX. NUT 1 SN7400001 TO 7400295 13 0602180107 BALL JOINT 1 LHSSE DE161 SN7400001 TO 7400295 14 003608000 HEX. NUT 1 SN7400001 TO 7400295 15 0207006000 HEX. NUT 1 SN7400001 TO 7400295 16 0602100028 STARTER SWITCH 1 SN7400001 TO 7400295 16 0602100028 SET NUT 1 JOHN DEERE RA9545 S/N7400001 TO 7400295	3	0036003000	HEX. NUT	1	S/N7400001 TO 7400295
5 0041208000 PLAIN WASHER 2 S/N7400001 TO 7400295 6 M1354200004 BRACKET 1 S/N7400001 TO 7400295 7 0207008000 HEX. NUT 1 S/N7400001 TO 7400295 9 0605010550 SNAP PIN 1 222NPH102 S/N7400001 TO 7400295 10 M3354300104 GOVERNOR ROD 1 S/N7400001 TO 7400295 10 0602180106 BALL JOINT 1 LHSA8 DE161 S/N7400001 TO 7400295 11 0602180106 BALL JOINT 1 LHSA8 DE161 S/N7400001 TO 7400295 13 0602180107 BALL JOINT 1 LHSA8 DE161 S/N7400001 TO 7400295 15 020706000 HEX. NUT 1 S/N7400001 TO 7400295 15 020706000 PLAIN WASHER 2 S/N7400001 TO 7400295 16 0602100028 STARTER SWITCH 1 JOHN DEERE A48428 S/N7400001 TO 7400295 16 0602100028 SET NUT 1 JOHN DEERE R43428 S/N7400001 TO 7400295 17 0601831585 COLD STARTING BUTTON 1 JOHN D	4	0605804150			
7 0207008000 HEX. NUT 1 S/N7400001 TO 7400295 8 003008000 HEX. NUT 1 S/N7400001 TO 7400295 9 0605010550 S/NAP PIN 1 22/NPH102 S/N7400001 TO 7400295 10 M3354300104 GOVERNOR ROD 1 S/N7400001 TO 7400295 11 0602180106 BALL JOINT 1 LHSAB DE161 S/N7400001 TO 7400295 12 003008000 HEX. NUT 1 S/N7400001 TO 7400295 13 0602180107 BALL JOINT 1 S/N7400001 TO 7400295 14 0036508000 HEX. NUT 1 S/N7400001 TO 7400295 15 0207006000 PLAIN WASHER 2 S/N7400001 TO 7400295 16 0602100028 STATER SWITCH 1 S/N7400001 TO 7400295 16 060210028 SET NUT 1 JOHN DEERE A4322 S/N740001 TO 7400295 17 060183154 COLD STATTING BUTTON 1 JOHN DEERE A4322 S/N740001 TO 7400295 17 0601831584 CAP 1 JOHN DEERE A4322 S/N7400001 TO 7400220	5	0041208000			
8 0030008000 HEX.NUT 1 SIN7400001 TO 7400295 9 0605010550 SNAP PIN 1 Z22NPH10Z S/N740001 TO 7400295 11 0602180106 BALL JOINT 1 LHSA8 DE161 S/N7400001 TO 7400295 12 003008000 HEX.NUT 1 S/N7400001 TO 7400295 13 0602180107 BALL JOINT 1 LHSA8 DE161 S/N7400001 TO 7400295 14 0036508000 HEX.NUT 1 S/N740001 TO 7400295 14 0036508000 HEX.NUT 1 S/N740001 TO 7400295 15 0207006000 HEX.NUT 1 S/N740001 TO 7400295 16 0602100026 STARTER SWITCH 1 JOHN DEERE AR83126 17 0601831584 COLD STARTING BUTTON 1 JOHN DEERE R44342 S/N7400001 TO 7400295 18 0602100029 SET NUT 1 JOHN DEERE R44342 S/N7400001 TO 7400220 0601831585 COLD STARTING BUTTON 1 JOHN DEERE S5585 S/N7400001 TO 7400220 0601831585 COLD STARTING BUTTON 1 JOHN DEERE 155585 S/N7400001 TO 7400220 </td <td>6</td> <td>M1354200004</td> <td>BRACKET</td> <td> 1</td> <td>S/N7400001 TO 7400295</td>	6	M1354200004	BRACKET	1	S/N7400001 TO 7400295
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9 0605010550 SNAP PIN 1	8	0030008000	HEX. NUT	1	S/N7400001 TO 7400295
11 0602180106 BALL JOINT 1 LHSAB DE161 S/N7400001 TO 7400295 12 003008000 HEX. NUT 1 S/N7400001 TO 7400295 13 0602180107 BALL JOINT 1 LHSSEB DLE161 S/N7400001 TO 7400295 14 0036508000 HEX. NUT 1 S/N7400001 TO 7400295 15 0207006000 HEX. NUT 1 S/N7400001 TO 7400295 16 060210006 STARTER SWITCH 1 JOHN DEERE AR58126 S/N7400001 TO 7400295 SET NUT 1 JOHN DEERE A43218 S/N7400001 TO 7400295 0602100028 SET NUT 1 JOHN DEERE A43278 S/N7400001 TO 7400295 0602100029 SET WASHER 1 JOHN DEERE A43278 S/N7400001 TO 7400295 17 060183158 COLD STARTING BUTTON 1 JOHN DEERE A39274 S/N7400001 TO 7400220 060183158 COLD STARTING BUTTON 1 JOHN DEERE A39274 S/N7400001 TO 7400220 060183158 CAP 1 JOHN DEERE CES 060212271 060183158 CAP 1 MO407 S/N 7400221~ 18 0602120096	9	0605010550	SNAP PIN	1	222NPH10Z S/N7400001 TO 7400295
12 0030008000 HEX.NUT 1 S/N7400001 TO 7400295 13 0602180107 BALL JOINT 1 LHSSE8 DLE161 S/N7400001 TO 7400295 14 0036508000 HEX.NUT 1 S/N7400001 TO 7400295 15 0207006000 PLAIN WASHER 2 S/N7400001 TO 7400295 16 0602100056 STARTER SWITCH 1 JOHN DEERE AR58126 5 S/N7400001 TO 7400295 SET NUT 1 JOHN DEERE AR4342 S/N7400001 TO 7400295 16 0602100028 SET NUT 1 JOHN DEERE R4827R S/N7400001 TO 7400295 17 0601831585 COLD STARTING BUTTON 1 JOHN DEERE R4827R S/N7400001 TO 7400220 0601831586 CAP 1 JOHN DEERE R4827R S/N7400001 TO 7400220 0601831586 CAP 1 JOHN DEERE R4827R S/N7400001 TO 7400220 0601831586 CAP 1 JOHN DEERE S5585 S/N7400001 TO 7400220 0601831586 CAP 1 JOHN DEERE S5585 S/N7400001 TO 7400220 0602122030 OL PRESSURE 1 100174 20 0602122	10	M3354300104	GOVERNOR ROD	1	S/N7400001 TO 7400295
13 0602180107 BALL JOINT 1 LHSSE8 DLE161 S/N7400001 TO 7400295 14 0036508000 HEX. NUT 1 S/N7400001 TO 7400295 15 0207006000 HEX. NUT 1 S/N7400001 TO 7400295 0041206000 PLAIN WASHER 2 S/N7400001 TO 7400295 16 0602100056 STARTER SWITCH 1 JOHN DEERE AR58126 S/N7400001 TO 7400295 SET NUT 1 JOHN DEERE A4827R S/N7400001 TO 7400295 0602100028 SET NUT 1 JOHN DEERE A4827R S/N740001 TO 7400295 0602100029 SET WASHER 1 JOHN DEERE A4827R S/N740001 TO 7400295 0601831585 COLD STARTING BUTTON 1 JOHN DEERE A4827R S/N740001 TO 7400220 0601831586 CAP 1 JOHN DEERE A39554 S/N740001 TO 7400220 0601831586 CAP 1 JOHN DEERE A4927R S/N740001 TO 7400220 061831586 CAP 1 JOHN DEERE A4927S S/N740001 TO 7400220 061831586 CAP 1 JOHN DEERE A4927S S/N740001 TO 7400220 061831586 CAP 1 JOHN DEERE A4927S S/N740001 TO 7400220 06012122091 UINT, OIL PRESSURE <td>11</td> <td>0602180106</td> <td>BALL JOINT</td> <td> 1</td> <td>LHSA8 DE161 S/N7400001 TO 7400295</td>	11	0602180106	BALL JOINT	1	LHSA8 DE161 S/N7400001 TO 7400295
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15 0207006000 HEX. NUT 1 S/N740001 TO 7400295 16 0602100056 STARTER SWITCH 2 S/N740001 TO 7400295 16 0602100056 STARTER SWITCH 1 JOHN DEERE AR58126 S/N740001 TO 7400295 SET NUT 1 JOHN DEERE R4342 S/N740001 TO 7400295 0602100028 SET NUT 1 JOHN DEERE R4342 S/N740001 TO 7400295 0602100029 SET WASHER 1 JOHN DEERE R4342 S/N7400001 TO 7400295 0601831596 COLD STARTING BUTTON 1 JOHN DEERE R39554 S/N7400001 TO 7400220 0601831586 CAP 1 JOHN DEERE R39555 S/N7400001 TO 7400220 0601831586 CAP 1 JOHN DEERE T55585 S/N7400001 TO 7400220 0601831586 CAP 1 103678 19 0602120905 TACHOMETER 1 103678 19 0602122092 OIL PRESSURE GAUGE 1 100174 20 0602122271 UNIT, OIL PRESSURE 1 100178 21 0602122092 WATER TEMPERATURE 1 200580 <td>13</td> <td>0602180107</td> <td>BALL JOINT</td> <td> 1</td> <td>LHSSE8 DLE161 S/N7400001 TO 7400295</td>	13	0602180107	BALL JOINT	1	LHSSE8 DLE161 S/N7400001 TO 7400295
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16 0602100056 STARTER SWITCH 1 JOHN DEERE AR58126 AR51481 KEY, STARTER SWITCH 1 S/N7400001 TO 7400295 0602100028 SET NUT 1 JOHN DEERE R4342 S/N7400001 TO 7400295 0602100029 SET WASHER 1 JOHN DEERE R4342 S/N7400001 TO 7400295 17 0601831594 COLD STARTING BUTTON 1 JOHN DEERE R4352 S/N7400001 TO 7400220 0601831585 COLD STARTING BUTTON 1 JOHN DEERE T55585 S/N7400001 TO 7400220 0601831584 CAP 1 JOHN DEERE T55585 S/N7400001 TO 7400220 0601831584 CAP 1 4067 S/N 7400221~ 18 060212096 TACHOMETER 1 103678 19 0602122271 UNIT, OIL PRESSURE 1 100174 20 0602122271 UNIT, OIL PRESSURE 1 100178 21 0602122271 UNIT, OIL PRESSURE 1 100182 22 0602122271 UNIT, WATER TEMPERATURE GAUGE 1 100182 22 0602123090 FUEL GAUGE 1 <td< td=""><td>15</td><td>0207006000</td><td>HEX. NUT</td><td> 1</td><td>S/N7400001 TO 7400295</td></td<>	15	0207006000	HEX. NUT	1	S/N7400001 TO 7400295
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17 0601831594 COLD STARTING BUTTON 1 JOHN DEERE R39554 S/N7400001 TO 7400220 0601831585 COLD STARTING BUTTON 1		0602100028	SET NUT	1	JOHN DEERE R44342 S/N7400001 TO 7400295
0601831585 COLD STARTING BUTTON 1 44047 S/N 7400221~ 0601831584 CAP 1 JOHN DEERE T55585 S/N7400001 TO 7400220 0601831588 CAP 1 44053 S/N 7400221~ 18 0602120096 TACHOMETER 1 103678 19 0602122093 OIL PRESSURE GAUGE 1 100174 20 0602122271 UNIT, OIL PRESSURE 1 8/N740001 TO 7400077 0602122272 UNIT, OIL PRESSURE 1 108497 S/N7400078~ 21 0602123092 WATER TEMPERATURE GAUGE 1 100182 22 060212361 UNIT, WATER TEMPERATURE 1 0202500 23 0602125090 FUEL GAUGE 1 100176 24 0602125090 FUEL GAUGE 1 100176 25 0602103092 ALARM LAMP 1 PL-05 S/N7400001 TO 7400295 26 060181041 PANEL LIGHT 1 9826800370 27 060183130 SWITCH, PANEL LIGHT 1 900001 28		0602100029	SET WASHER	1	JOHN DEERE A4827R S/N7400001 TO 7400295
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0601831584 CAP 1 JOHN DEERE T55585 S/N7400001 TO 7400220 0601831588 CAP 1 44053 S/N 740021~ 18 0602120096 TACHOMETER 1 103678 19 0602122093 OIL PRESSURE GAUGE 1 100174 20 0602122271 UNIT, OIL PRESSURE 1 100174 20 0602122272 UNIT, OIL PRESSURE 1 100174 20 0602122272 UNIT, OIL PRESSURE 1 100174 21 0602122272 UNIT, WATER TEMPERATURE GAUGE 1 10182 22 0602123092 WATER TEMPERATURE GAUGE 1 0202500 23 0602125090 FUEL GAUGE 1 100158 24 0602125090 FUEL GAUGE 1 100176 25 0602103092 ALARM LAMP 1 PL-05 S/N7400001 TO 7400295 26 0601810141 PANEL LIGHT 1 9826800370 27 0601831330 SWITCH, PANEL LIGHT 1 900001 28		0601831585	COLD STARTING BUTTON	1	44047 S/N 7400221~
18 0602120096 TACHOMETER 1		0601831584	CAP	1	JOHN DEERE T55585 S/N7400001 TO 7400220
19 0602122093 OIL PRESSURE GAUGE 1		0601831588			
20 0602122271 UNIT, OIL PRESSURE 1	18	0602120096	TACHOMETER	1	103678
S/N7400001 TO 7400077 0602122272 UNIT, OIL PRESSURE 1 108497 S/N7400078~ 21 0602123092 WATER TEMPERATURE GAUGE 1 100182 22 0602123261 UNIT, WATER TEMPERATURE 1 0202500 23 0602125090 FUEL GAUGE 1 100158 24 0602125090 FUEL GAUGE 1 100176 25 0602103092 ALARM LAMP 1 PL-05 S/N7400001 TO 7400295 0601810245 BULB 2 E-10 T-10 DC18V S/N7400001 TO 7400295 0601810141 PANEL LIGHT 1 9826800370 27 0601831330 SWITCH, PANEL LIGHT 1 900001 28 ECU9988N ENGINE CONTROLLER 1 REPLACES 0602202546 S/N7400296~ 28-11 0601831340 SWITCH 1 S/N7400296~ 29 0601831395 SWITCH 1 7302K36 S/N7400296~ 29 0601831395 SWITCH 1 7302K36 S/N7400296~ 30 0027104035 MACHINE SCREW	19	0602122093			
S/N7400001 TO 7400077 0602122272 UNIT, OIL PRESSURE 1 108497 S/N7400078~ 21 0602123092 WATER TEMPERATURE GAUGE 1 100182 22 0602123261 UNIT, WATER TEMPERATURE 1 0202500 23 0602125090 FUEL GAUGE 1 100158 24 0602125090 FUEL GAUGE 1 100176 25 0602103092 ALARM LAMP 1 PL-05 S/N7400001 TO 7400295 0601810245 BULB 2 E-10 T-10 DC18V S/N7400001 TO 7400295 0601810141 PANEL LIGHT 1 9826800370 27 0601831330 SWITCH, PANEL LIGHT 1 900001 28 ECU9988N ENGINE CONTROLLER 1 REPLACES 0602202546 S/N7400296~ 28-11 0601831340 SWITCH 1 S/N7400296~ 29 0601831395 SWITCH 1 7302K36 S/N7400296~ 29 0601831395 SWITCH 1 7302K36 S/N7400296~ 30 0027104035 MACHINE SCREW	20	0602122271	UNIT, OIL PRESSURE	1	REPLACES 0602122271
21 0602123092 WATER TEMPERATURE GAUGE 1 100182 22 0602123261 UNIT, WATER TEMPERATURE 1 0202500 23 0602121080 CHARGING AMMETER 1 100158 24 0602125090 FUEL GAUGE 1 100176 25 0602103092 ALARM LAMP 1 PL-05 S/N7400001 TO 7400295 0601810245 BULB 2 E-10 T-10 DC18V S/N7400001 TO 7400295 26 0601810141 PANEL LIGHT 1 9826800370 27 0601831330 SWITCH, PANEL LIGHT 1 900001 28 ECU9988N ENGINE CONTROLLER 1 REPLACES 0602202546 S/N7400296~ 28-1 0601831340 SWITCH 1					S/N7400001 TO 7400077
22 0602123261 UNIT, WATER TEMPERATURE 1 0202500 23 0602121080 CHARGING AMMETER 1 100158 24 0602125090 FUEL GAUGE 1 100176 25 0602103092 ALARM LAMP 1 PL-05 S/N7400001 TO 7400295 0601810245 BULB 2 E-10 T-10 DC18V S/N7400001 TO 7400295 26 0601810141 PANEL LIGHT 1 9826800370 27 0601831330 SWITCH, PANEL LIGHT 1 900001 28 ECU9988N ENGINE CONTROLLER 1 REPLACES 0602202546 S/N7400296~ 28-1 0601831340 SWITCH 1 7562K4 S/N7400296~ 29 0601831395 SWITCH 1 7302K36 S/N7400296~ 29 0601831395 SWITCH 1 7302K36 S/N7400296~ 30 0027104035 MACHINE SCREW 2 S/N 7400296~		0602122272	UNIT, OIL PRESSURE	1	108497 S/N7400078~
23 0602121080 CHARGING AMMETER 1 100158 24 0602125090 FUEL GAUGE 1 100176 25 0602103092 ALARM LAMP 1 PL-05 S/N7400001 TO 7400295 0601810245 BULB 2 E-10 T-10 DC18V S/N7400001 TO 7400295 26 0601810141 PANEL LIGHT 1 9826800370 27 0601831330 SWITCH, PANEL LIGHT 1 900001 28 ECU9988N ENGINE CONTROLLER 1 REPLACES 0602202546 S/N7400296~ 28-1 0601831340 SWITCH 1	21	0602123092	WATER TEMPERATURE GAUGE	1	100182
24 0602125090 FUEL GAUGE 1 .100176 25 0602103092 ALARM LAMP 1	22	0602123261			
25 0602103092 ALARM LAMP 1 PL-05 S/N7400001 TO 7400295 26 0601810245 BULB 2 E-10 T-10 DC18V S/N7400001 TO 7400295 26 0601810141 PANEL LIGHT 1	23	0602121080	CHARGING AMMETER	1	100158
0601810245 BULB 2 E-10 T-10 DC18V S/N7400001 TO 7400295 26 0601810141 PANEL LIGHT 1	24	0602125090			
26 0601810141 PANEL LIGHT 1	25	0602103092			
27 0601831330 SWITCH, PANEL LIGHT 1 900001 28 ECU9988N ENGINE CONTROLLER 1 REPLACES 0602202546 S/N7400296~ 28.1 0601831340 SWITCH 1 7562K4 S/N7400296~ 0600500091 NAME PLATE 1 S/N7400296~ 29 0601831395 SWITCH 1 7302K36 S/N7400296~ 30 0027104035 MACHINE SCREW 2 S/N 7400296~		0601810245			
28 ECU9988N ENGINE CONTROLLER 1 REPLACES 0602202546 S/N7400296~ 28-1 0601831340 SWITCH 1	26	0601810141			
28 ECU9988N ENGINE CONTROLLER 1 REPLACES 0602202546 S/N7400296~ 28-1 0601831340 SWITCH 1	27	0601831330	SWITCH, PANEL LIGHT	1	900001
0600500091 NAME PLATE	28	ECU9988N			
29 0601831395 SWITCH 1	28-1	0601831340	SWITCH	1	7562K4 S/N7400296~
30 0027104035 MACHINE SCREW 2		0600500091	NAME PLATE	1	S/N7400296~
	29	0601831395			
0207004000 HEX. NUT 2	30	0027104035			
		0207004000	HEX. NUT	2	S/N7400296~

ENCINE ODEDATING DANEL ASSV

DCA-100SSJU --- OUTPUTTERMINAL ASSY.

OUTPUT TERMINAL ASSY.



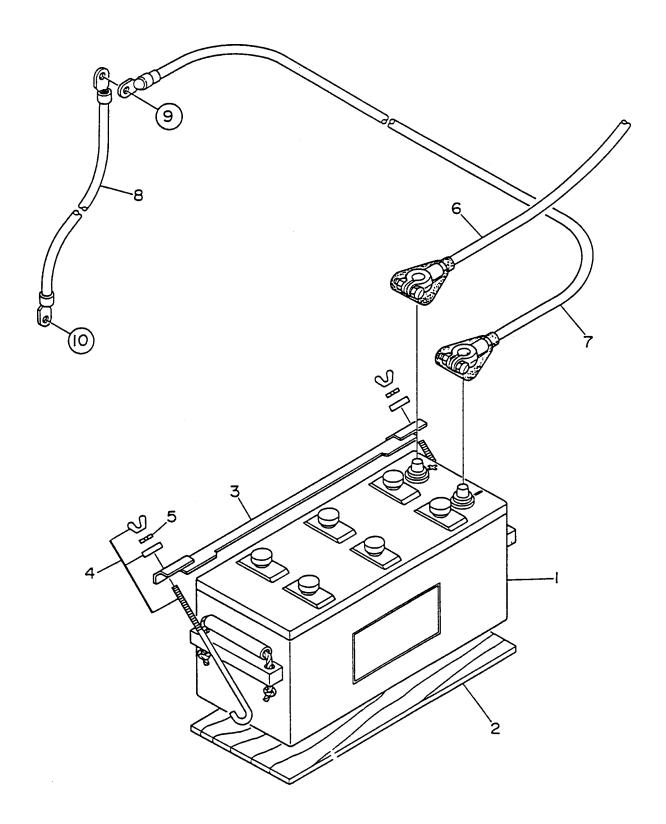
PAGE 74 - DCA-100SSJU - PARTS AND OPERATION MANUAL (STD) - REV. #2 (05/03/01)

DCA-100SSJU --- OUTPUTTERMINAL ASSY.

OUTPUT TERMINAL ASSY.

<u>NO.</u>	<u>PART NO.</u>	ITEM	<u>QTY</u>	<u>REMARKS</u>
1	M3230700003	TERMINAL PANEL	1	
2	M9220100304	<u>ITEM</u> TERMINAL PANEL OUTPUT TERMINAL BOLT TIE BOLT	5	
3	0801830804	TIE BOLT	5	REPLACES M9220100404
4	~~~~~		40	
5	0040016000	LOCK WASHER PLAIN WASHER	15	
6	0041416000	PLAIN WASHER	20	
7	0012108035	HEX. HEAD BOLT	5	REPLACES 0016908035
8	M3236100303	TERMINAL COVER	1	S/N7400001 TO 7400205
	M3236100313	TERMINAL COVER	1	S/N7400206 TO 740295
	M3238100103	TERMINAL COVER		
9	M3236100104	OUTPUT WINDOW	1	
10	0605010040	OUTPUT WINDOW HINGE		TH-TM122
11		MACHINE SCREW	4	
	0207003000	MACHINE SCREW HEX. NUT		REPLACES 0030003000
	58413	PLAIN WASHER	4	REPLACES 0041203000
12	0007400040		4	
	0207003000	MACHINE SCREW HEX. NUT	4	REPLACES 0030003000
13	011206020			
14				
15	M3236400004	HEX. HEAD BOLT CABLE OUTPUT COVER	1	REPLACES M2236400004S
16	M3236300004	SUPPORTER, CABLE OUTLET COVER	1	REPLACES M2236400004
17	0016906020	HEX. HEAD BOLT	1 6	
18	0601808803	CIRCUIT BREAKER	2	
19	0601808804	CIRCUIT BREAKER		
20		BREAKER FITTING COVER		
20-1	0222100150		1	
21	0016906020	CUSHION RUBBER HEX. HEAD BOLT RECEPTACLE	2	
22	0601812597	RECEPTACI E	2	REDI ACES 0601812508.
22	0001012337		∠	CE530EM 1251/ 20A X2
23	0601811034	RECEPTACI E	3	GF530EM 125V 20A X2 REPLACES 0601812538 CS6369 250V 50A
23	0027104015		0 10	
27	0030004000	MACHINE SCREW HEX. NUT	10	
25	M3236100213	TERMINAL COVER	10 1	
26	012212045			
20	031112230	PLAIN WASHER		
28	M9310200004	STAY RUBBER	∠ ົາ	
20 29	0030012000	NUT	2	
29 30	M2354200004	SUPPORTER, GOVERNOR ROD	۲ ۲	S/NI7400001 TO 7400205
30 31	011106015	HEX. HEAD BOLT	ເ າ	DEDLACES 0016006015
31	011100015		Z	S/N7400001~7400295
32	M2455600004	PLUG	C	
32 33	M3455600004 0021304015	MACHINE SCREW		
33 34	0601815194	TERMINAL		
34 35	0021304015	MACHINE SCREW		
30	0021304015		∠	NEFLAGES UUZI 104013 3/11/400290~

BATTERY ASSY.



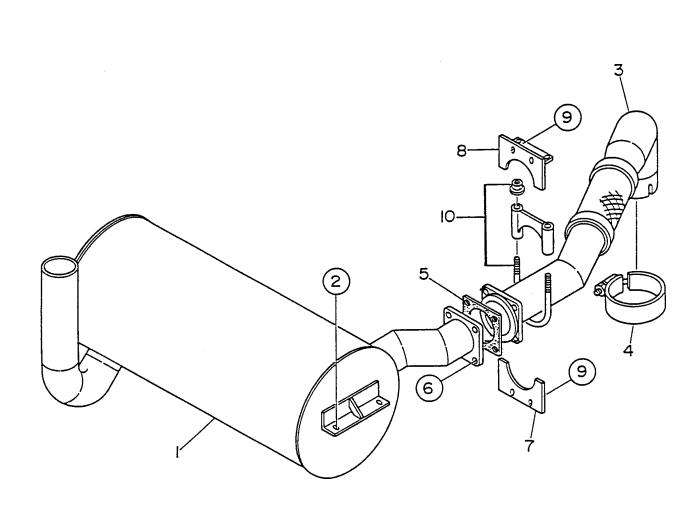
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DCA-100SSJU --- BATTERY ASSY.

BATT	ERY ASSY.			
<u>NO.</u>	PART NO.	ITEM	<u>QTY.</u>	<u>REMARKS</u>
1	0602220196	BATTERY		. 4D-2
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		. REPLACES 0017110020
	0040510000	TOOTHED WASHER	1	

DCA-100SSJU --- MUFFLER ASSY.

BATTERY ASSY.



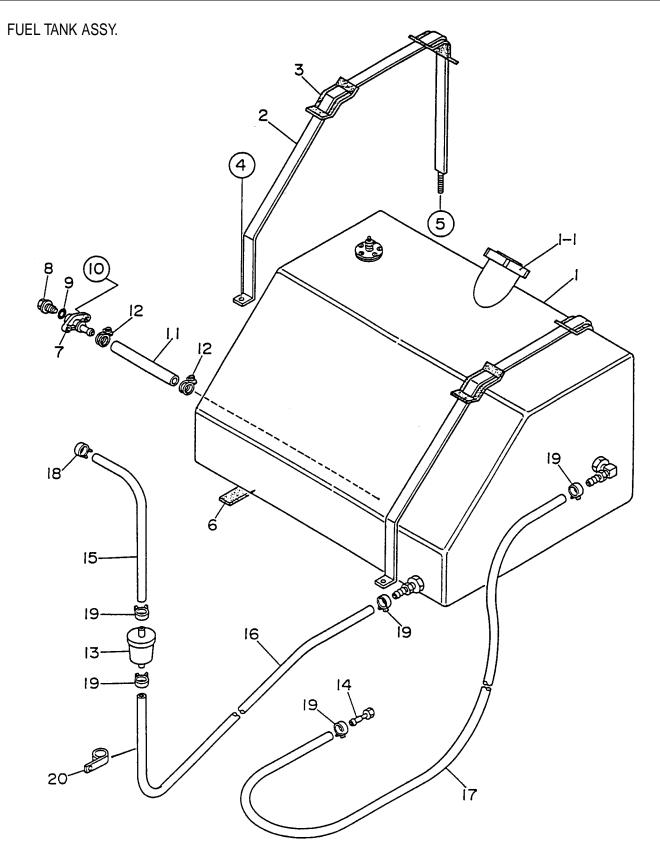
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DCA-100SSJU --- MUFFLER ASSY.

BATTERY ASSY.

<u>NO.</u>	PART NO.	<u>ITEM</u>	<u>QTY.</u>	REMARKS
1	M3330100002	MUFFLER	1	S/N85000002 TO 74000053
	0602300167	MUFFLER	1	27299N S/N74000054~
2	012210025	HEX. HEAD BOLT	4	REPLACES 0016910025
3	M3333000303	EXHAUST PIPE	1	
4	0602325066	CLAMP	1	M001432
5	M3333200004	GASKET	1	
6	00017110040	HEX. HEAD BOLT	4	
7	M33330400304	COVER	1	
8	M33330400403	-	1	
9		HEX. HEAD BOLT		
10	0602326061	U BOLT SET	1	. 89547K

DCA-100SSJU --- FUEL TANK ASSY.



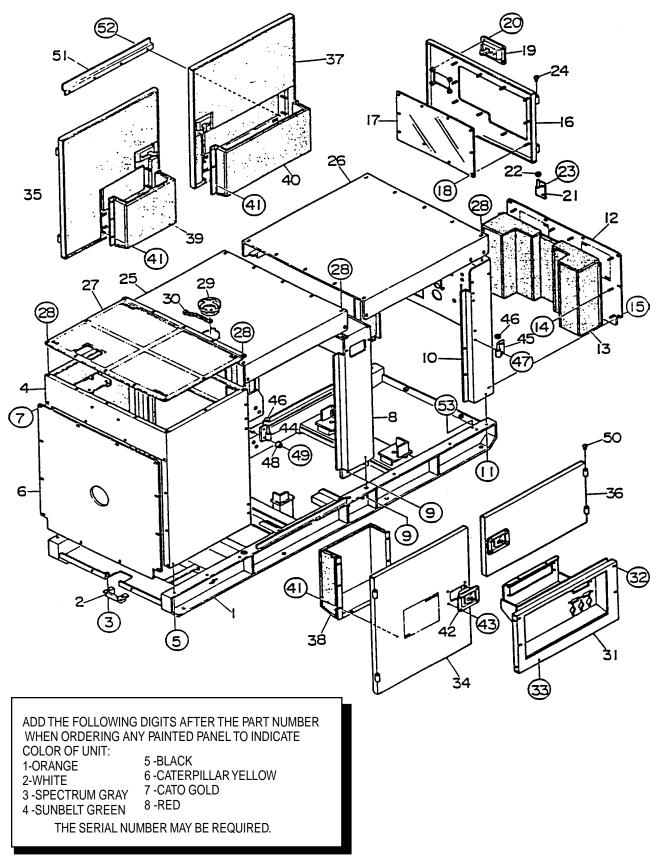
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DCA-100SSJU --- FUEL TANK ASSY.

FUEL TANK ASSY.						
<u>NO.</u>	<u>PART NO.</u>	ITEM	<u>QTY.</u>	<u>REMARKS</u>		
1	M3363000202	FUEL TANK				
1-1	0605505070	CAP, FUEL TANK	1			
2	M3363200204	TANK BAND	2			
3	M9310500104	SUPPORTER SHEET	4			
4	011008020	HEX. HEAD BOLT				
5	020108060	HEX. NUT	2			
				S/N7400001 TO 74000026		
	0273080000	HEX.NUT				
	031108160	PLAIN WASHER	2			
				S/N7400001 TO 7400026		
6	0222100660	RUBBER SHEET	2			
7	1502025103C	DRAIN JOINT	1	REPLACES M920000003		
8	M9200200004	DRAIN BOLT	1			
9	0150000018	O RING				
10	011206020	HEX. HEAD BOLT	2	REPLACES 0016906020		
11	0M1363400104		1			
12	0605515198	HOSE BAND				
13	0602042420	FUEL FILTER				
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				
19	0605515109	HOSE BAND				
20	0602220911	CLAMP	1	. RCT-2010		

DCA-100SSJU --- ENCLOSURE ASSY.

ENCLOSURE ASSY.



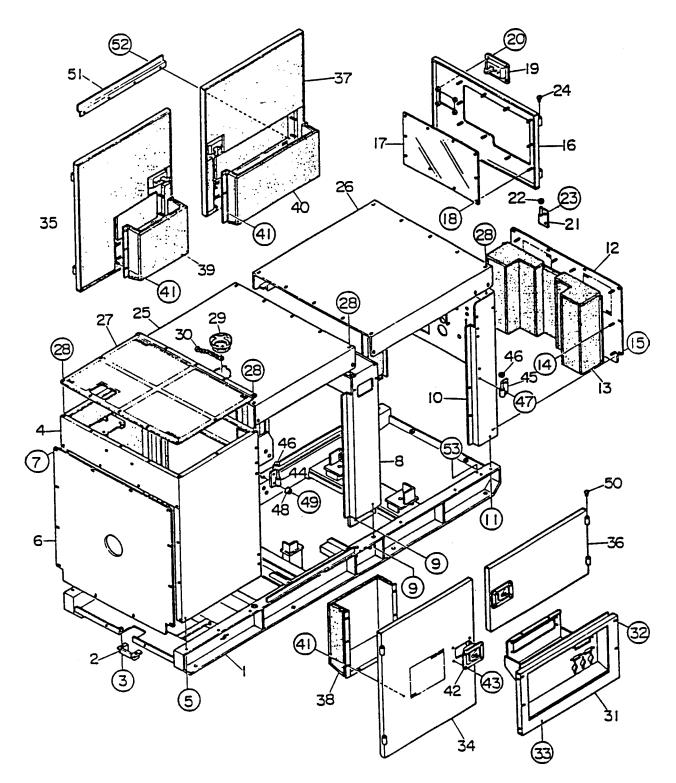
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DCA-100SSJU ---- ENCLOSURE ASSY.

ENCLO	OSURE ASSY.				
NO.	PART NO.	ITEM	01	·γ	REMARKS
<u>1</u>	M3413000202	<u>ITEM</u> BASE	<u> « 1</u>	<u> </u>	<u>S/7400001 TO 7400205</u>
I	M3413000202		····· /		S/N7400001107400203
	M3413000212				
2	M1413400004				
2	011008020	UNDER COVER HEX. HEAD BOLT	~)	
3 4	M3423000302				
4					
	M3423000602	FRONT FRAME			
	M3493100203				
-	M3493100503	ACOUTSTIC SHEET	····· ´	l	S/IN/400206~
5	012210025	HEX. HEAD BOLT)	REPLACES 0016910025
6	M3493100304	ACOUSTIC SHEET			
7	011008020	HEX. HEAD BOLT	14	ł	REPLACES 0016908020
8	M3433000102				
	M3493200004	ACOUSTIC SHEET			
9	0010114040	HEX. HEAD BOLT	12		
	020114110	-			
	030214350				
	031114260	PLAIN WASHER			
10	M3443000202	REAR FRAME			
	M3443000212	REAR FRAME	<i>^</i>	۱	S/N7400296~
11	012210025	HEX. HEAD BOLT	2	l	REPLACES 0016910025
12	M3443300203	REAR COVER		1	
13	M3443300303	DUCT, REAR COVER ACOUSTIC SHEET		1	
	M3493300303	ACOUSTIC SHEET		1	
14	0207006000	HEX. NUT	12	2	
15	011008020	HEX. HEAD BOLT	10)	REPLACES 0016908020
16		REAR DOOR			
	M3443200113				
17	M3443600104		····· ,		
18	020106050		10)	REPLACES 0037906000 AND 0207306000
10	952404470				REPLACES 0041206000 AND 0041206000
19	89114000002	DOOR HANDLE ASSY.			
20	0027106016	MACHINE SCREW			
20	020106050	HEX. NUT			
21	M9110100204	HINGE	7	r)	
22	M9116100204	WASHER	4	<u>^</u>	
		HEX. HEAD BOLT	4	<u>^</u>	
23	011008020				
24	0845031504	BLIND PLUG	Z	<u>.</u>	REPLACES M931000004
25	M3463100203	ROOF PANEL		1	
	M3493500203				
26	M3463200102	ROOF PANEL			
	M3493500303	ACOUSTIC SHEET			
27	M3463500104	OVER COVER, FRONT FRAME		l	
28	011008020	HEX. HEAD BOLT			
29	1625165103	BONNET CAP			
30	1625165204	CHAIN ASSY	1		REPLACES M1483600204

DCA-100SSJU --- ENCLOSURE ASSY.

ENCLOSURE ASSY.



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DCA-100SSJU --- ENCLOSURE ASSY.

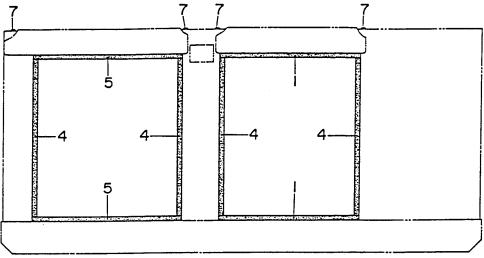
ENCLC	SURE ASSY.			
<u>NO.</u>	<u>PART NO.</u>	ITEM	<u>QTY.</u>	<u>REMARKS</u>
31	M3453200112	SPLASHER PANEL	1	. REPLACES M3453200102
				S/N7400001 TO 7400026
	M3453200112	SPLASHER PANEL	1	. S/N7400027 TO 7400205
	M3453200122	SPLASHER PANEL	1	. S/N7400206 TO 7400295
	M3453200132	SPLASHER PANEL		
32	011208060	HEX. HEAD BOLT	4	REPLACES 0016908055
33	012210025	HEX. HEAD BOLT	2	REPLACES 0016910025
34	M3453000703	SIDE DOOR	1	
	M3493400704	ACOUSTIC SHEET	1	
35	M3453000603	SIDE DOOR	1	
	M3493400804	ACOUSTIC SHEET	1	
36	M3453000503	SIDE DOOR	1	
	M3493401004	ACOUSTIC SHEET	1	
37	M3453000403	SIDE DOOR	1	
	M3493401104	ACOUSTIC SHEET	1	
38	M3453300303	DUCT	1	
	M3493400904	ACOUSTIC SHEET	1	
39	M3453300503	DUCT	1	
	M3493401404	ACOUSTIC SHEET	1	
40	M3453300203	DUCT	1	
	M3493401204	ACOUSTIC SHEET	1	
41	0207006000	HEX. NUT	25	
42	89114000002	DOOR HANDLE ASSY		
43	0027106016	MACHINE SCREW		
	020106050	HEX. NUT		REPLACES 0030006000
44	M9110100204	HINGE	4	
45	M9110100304	HINGE	4	
46	M9116100004	WASHER	8	
47	011008020	HEX. HEAD BOLT		REPLACES 0016908020
48	0601850097	DOOR STOPPER	8	
49	0027208025	MACHINE SCREW BLIND PLUG	8	
50	0845031504	BLIND PLUG	8	. REPLACES M9310000004
51	M3453700004	DOOR BRACKET HEX. HEAD BOLT	1	
52	011106015	HEX. HEAD BOLT	4	REPLACES 0016906015
53	011008020	HEX. HEAD BOLT		REPLACES 0016908020
	0040508000	TOOTHED WASHER	1	

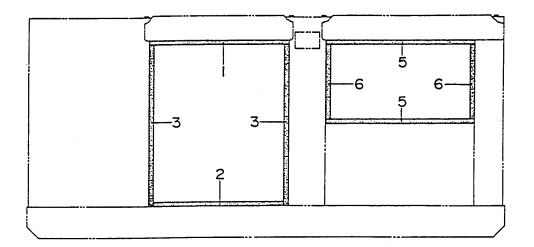
ADD THE FOLLOWING DIGITS AFTER THE PART NUMBER WHEN ORDERING ANY PAINTED PANEL TO INDICATE COLOR OF UNIT: 1-ORANGE 5-BLACK 2-WHITE 6-CATERPILLAR YELLOW 3-SPECTRUM GRAY 7-CATO GOLD 4-SUNBELT GREEN 8-RED

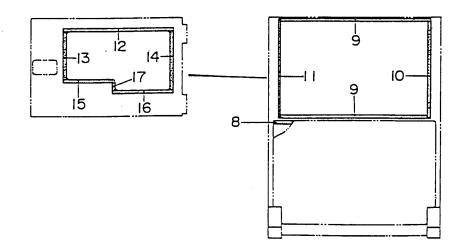
THE SERIAL NUMBER MAY BE REQUIRED.

DCA-100SSJU ---- RUBBER SEAL ASSY.

RUBBER SEAL ASSY.







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DCA-100SSJU --- RUBBER SEAL ASSY.

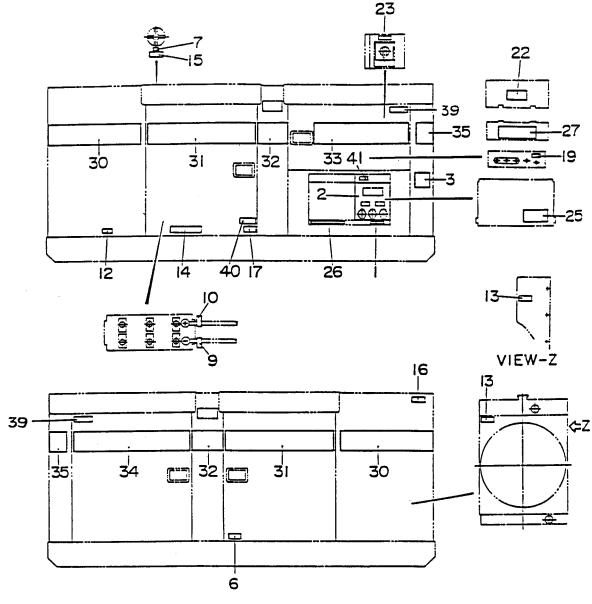
RUBBER	SEAL	ASSY
RUDDER	SEAL	ASSI.

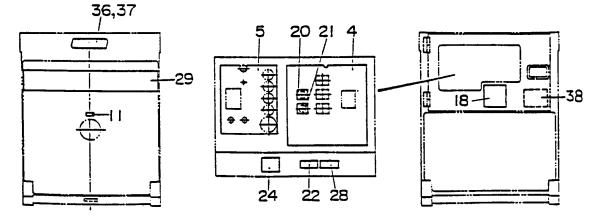
NO.	PART NO.	ITEM
1	0228900890	RUBBER SEAL
2	0229200810	RUBBER SEAL
3	0228901020	RUBBER SEAL
4	0228900990	RUBBER SEAL
5	0228900955	RUBBER SEAL
6	0228900470	RUBBER SEAL
7	0229201100	RUBBER SEAL
8	0229201040	RUBBER SEAL
9	0228800970	RUBBER SEAL
10	0228800590	RUBBER SEAL
11	0228800630	RUBBER SEAL
12	0228100665	RUBBER SEAL
13	0228100300	RUBBER SEAL
14	0228100370	RUBBER SEAL
15	0228100280	RUBBER SEAL
16	0228100365	RUBBER SEAL
17	0228100070	RUBBER SEAL

QTY. REMARKS

DCA-100SSJU --- DECALS

DECAL ASSY.





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DCA-100SSJU ---- DECALS

DECAL ASSY.

DECAL	- ASST.			
<u>NO.</u>	<u>PART NO.</u>	ITEM	<u>QTY.</u>	<u>REMARKS</u>
1	M1550000204		1	M15000020
2	M1550000703	DECAL; AUXILIARY OUTPUT	1	M15000070
3	M3550000304	DECAL; NOTE	1	M35000030
4	M3550000402	DECAL; GENERATOR CONTROL	1	M35000040
5	M3550000202	DECAL; ENGINE OPERATING	1	M35000020 S/N7400001 TO 7400295
	M3550000212	DECAL; ENGINE OPERATING	1	M35000021 S/N 7400296~
6	M9500000004	DECAL; OIL DRAIN PLUG	1	M9000000
7	M9500100004	DECAL; WATER	1	M90010000
8	M8400100104	DECAL, WATER DRAIN PLUG	1	M90010010 S/N7400001 TO 7400205
9	M9500300004	DECAL;	1	M90030000
10	M9500300104	DECAL; +	1	M90030010
11	M9500500004	DECAL; DIESEL FUEL		
12	M9500500104	DECAL; FUEL DRAIN PLUG	1	M90050010
13	M9503000004	DECAL; WARNING	2	M90300000
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	M9200000
20	M9520000104	DECAL; AMMETER CHANGE OVER SWITCI		
21	M9520000204	DECAL; VOLTMETER CHANGE OVER SWIT	CH 1	M92000020
22	M9520100004	DECAL; WARNING	2	M92010000
23	M9520100204	DECAL; CAUTION		
24	M9520100304	DECAL; SAFETY INSTRUCTIONS	1	M92010030
25	M9520100404	DECAL; DANGER DECAL; WARNING	1	M92010040
26	M9520100503	DECAL; WARNING	1	M92010050
27	M9520200003	DECAL; CONNECTION OF OUTPUT CABLE	1	M92020000
28	M9520200104	DECAL; OVER CURRENT RELAY	1	M92020010
29	M3560100003	STRIPE; WHISPERWATT	1	
30	M3560100103	STRIPE; MP POWER	2	
31	M3560100203	STRIPE	2	
32	M3560100404	STRIPE	2	
33	M3560100703	STRIPE; 100	1	
34	M3560100803	STRIPE; 100	1	
35	M3560100604	STRIPE	2	
36	0600500090	EMBLEM	1	
37	0021106015	MACHINE SCREW	2	
38	M3552000103	DECAL; OPERATING PROCEDURES	1	M35200010 S/N7400296~
39		DECAL; CAUTION	2	B1520010 S/N7400296~
40	C9505300004	DECAL; CAUTION	1	C90530000 S/N7400296~
41	9039209064	DECAL; START CONTACT	1	S-4468 S/N7400296~
		,		

Effective: July 1, 2000

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.

TERMS AND CONDITIONS OF SALE — PARTS

- 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 Muiltiquip 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. Any line 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.
- 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 not 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.

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NOTE PAGE

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



MULTIQUIP INC. 18910 WILMINGTON AVE. CARSON, CALIFORNIA 90746 FAX: 800-672-7877 310-537-3700 800-421-1244 FAX:310-537-3927 E-mail:mq@multiquip.com • www:multiquip.com

PARTS DEPARTMENT: 800-427-1244 SERVICE DEPARTMENT: 800-835-2551 FAX:310-638-8046

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http://auto.somanuals.com TV manuals search

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