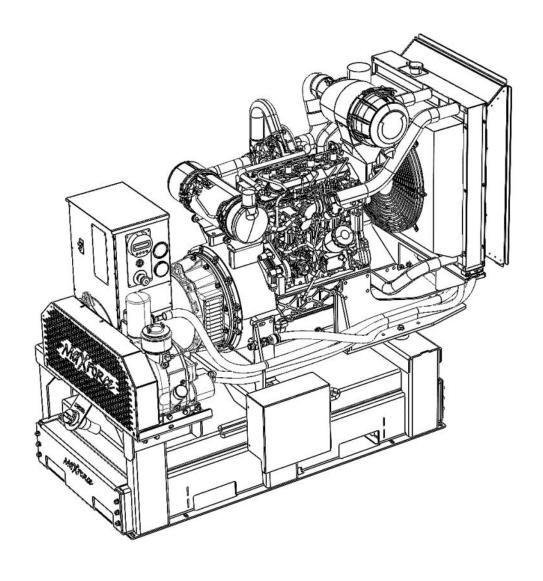
# MAXFORCE 40-40 GENERATOR



**Product Description** 

GENERATOR COMBO, MAXFORCE 40-40, DOOSAN

# Operation & Parts



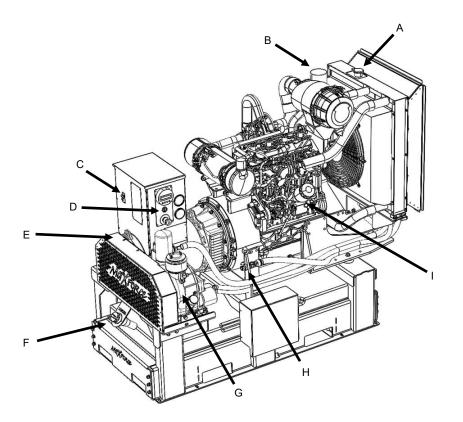
M90700-54-B

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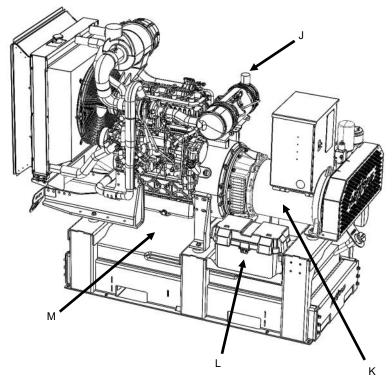
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For parts, service, and technical assistance, contact your equipment distributer:

# **Equipment Layout**



| (   | Generator Components  |  |  |
|-----|-----------------------|--|--|
| Α   | Radiator Fill Cap     |  |  |
| В   | Engine Air Intake     |  |  |
| С   | Main Disconnect       |  |  |
| D   | Control Panel         |  |  |
| Е   | Belt Guard            |  |  |
| F   | Fuel Fill             |  |  |
| G   | Air Compressor        |  |  |
| Н   | Compressed Air Outlet |  |  |
| - 1 | Engine Oil Filter     |  |  |
| J   | Engine Exhaust        |  |  |
| K   | Alternator            |  |  |
| L   | 12V Battery           |  |  |
| М   | Fuel Tank             |  |  |



# **Specifications**

### Generator

 Watts
 40,000

 Volts
 220 V

 Phase
 Three

 PF
 0.8

 Amps
 134 A

 Hertz
 60 Hz

### **Engine**

Model Doosan D34
Starting System 12 Volt
Fuel Diesel
Oil Type Refer to engine manual
Oil Capacity 15 QTs
Coolant Type Refer to engine manual

### **Alternator**

Prime kVA 49
Leads 12
Voltage Regulator Type AVR
Excitation System Brushless
Efficiency 88.6% @ 0.8 PF

### Air Compressor

Model Rotorcomp NK31

Max Operating Pressure 218 PSI (165 PSI Safety Valve)

Max Flow Rate 42 CFM

Pressure Control Type Pneumatic

Oil Capacity 3.4 QTs

## **Safety**

### **General Safety Information**

### **READ THE MANUAL**

- Ensure any operator of this equipment has read and understands the manual before operating.
- Do not attempt to repair or modify this equipment without consulting the manual.

### **EQUIPMENT MISUSE HAZARD**

- Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.
- This equipment is for professional use only.
- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are not sure, call your distributer.
- Do not alter or modify this equipment. Use only genuine OEM parts.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations

### **FUEL HAZARD**

- The fuel used in this unit is combustible and when spilled on a hot surface can ignite and cause a fire.
- Do not fill the fuel tank while the engine is running or hot.

### **EXHAUST HAZARD**

- The exhaust contains poisonous carbon dioxide which is colorless and odorless.
- Do not operate this equipment in a closed building.

### FIRE AND EXPLOSION HAZARD

- Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.
- Keep the generator area free of debris, including solvent, rags and uncontained fuel.

### **NOISE HAZARD**

Wear hearing protection when operating this equipment.

### **ELECTRICAL SHOCK HAZARD**

- This equipment creates high voltage that can cause fatal electric shock.
- Do not attempt to service or repair the alternator while the engine is running.
- Be sure the equipment is properly grounded according to applicable national electrical code.

### **Equipment Hazards & Warnings**

### **DANGER**

- Hot oil under pressure will cause severe injury or death. Do not remove valves, caps, plugs or piping while compressor is running or pressurized.
- Hot exhaust system. Allow system to cool down before attempting to preform maintenance on engine.
- Discharge air used for breathing will cause severe injury or death. Consult your generator dealer for additional filtration to meet OSHA standards.

### **WARNING**

- Read the operators manual before starting this unit.
   Failure to adhere to instructions can result in severe personal injury.
- E-stop button should only be used in the case of an emergency.
- On shutdown, close compressed air vented ball valve
- Drive belts in rotation. Switch off engine and disconnect battery before attempting to work or perform maintenance on the compressor package.
- Hoses under pressure. Relieve system pressure before disconnecting or replacing air and oil hoses.

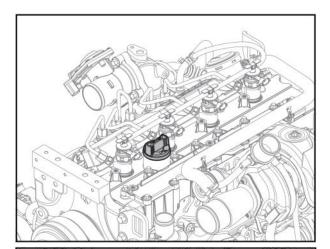
### **CAUTION**

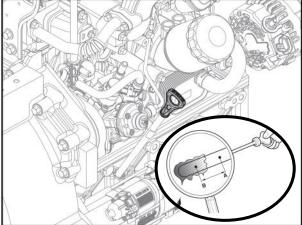
- To avoid electrical shock, disconnect battery prior to electrical system service
- High voltage present. Do not attempt to perform maintenance on alternator while engine is running.

## **Operation**

### **Pre-Start Up Inspection**

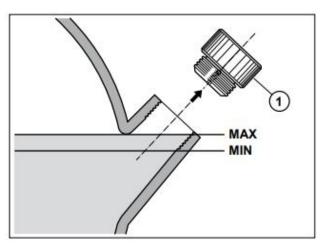
Before starting generator, check the oil level in the engine and air compressor. The oil level in the engine should be between the low and high marks on the engine oil dipstick (B-A). If the engine is low on oil, add oil to the engine at the oil cap. Check the oil on the oil dipstick again after filling to ensure it is at the proper level.





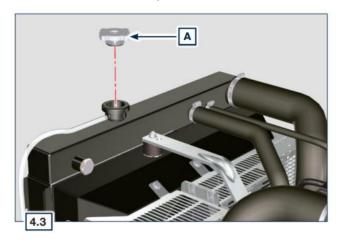
Engine oil fill level

The oil in the air compressor should come up to the bottom of the threads of the oil cap. If the air compressor oil is low, fill with screw compressor oil (S90700-38) until the oil reaches the bottom of the oil cap threads.



Air compressor oil fill level

Check the coolant level in the engine radiator. The coolant level should be visible once the radiator cap is removed.



Radiator cap location

Visually inspect all hoses and belts for cracks or damage. Remove any tools, rags, or other material resting on the engine or air compressor. Verify the air compressor vented ball valve is in the closed position. Verify the main disconnect breaker is in the OFF position.

### **Starting Procedure**

Start the engine using the key switch on the control panel. The digital display will indicate when the engine is OK to start after the glow plugs have warmed. The engine will automatically raise from idle speed to an operating speed of 1800 rpm. Allow engine to warm up 2-5 minutes before any load is applied. Open compressed air ball valve and switch the main disconnect breaker to the ON position.

### Shutdown procedure

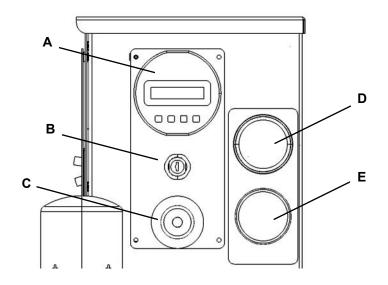
After shutting down electrical equipment, switch the main breaker to the OFF position. Close the compressed air vented ball valve to relieve downstream pressure. Allow the engine to idle for 1-2 minutes. Shut the engine down using the key switch.

### **NOTICE**

### On Shutdown

The red E-STOP pushbutton should only be used to shut down the generator in an emergency.

### **Control Panel Layout**



| Control Panel Layout |                            |  |
|----------------------|----------------------------|--|
| Α                    | Controller                 |  |
| В                    | Key Switch                 |  |
| С                    | E-STOP                     |  |
| D                    | Air Pressure               |  |
| E                    | Air Compressor Temperature |  |

# **Controller Layout**

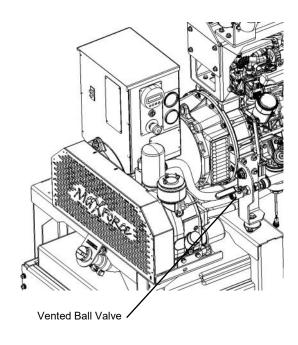


| Controller Indicators |                               |  |
|-----------------------|-------------------------------|--|
| Α                     | Engine Shutdown Fault (Red)   |  |
| В                     | Engine Warning Fault (Yellow) |  |
| С                     | Voltage On Displayed Phase    |  |
| D                     | Current Phase Displayed       |  |
| E                     | Amps On Displayed Phase       |  |
| F                     | Generator Frequency           |  |
| G                     | Engine Oil Pressure           |  |
| Н                     | Fuel Level                    |  |
| I                     | Engine Coolant Temperature    |  |
| J                     | Battery Voltage               |  |

# **Air Compressor**

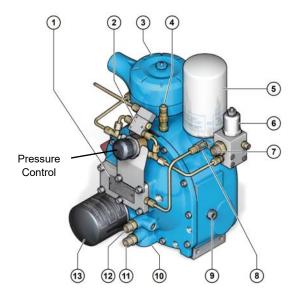
### Operation

This unit is equipped with a vented ball valve on the outlet of the air compressor package. This valve allows the flow of compressed air from the air compressor to be shut off while venting the downstream lines of air. Turn the ball valve to the open position to send compressed air downstream. Close the valve to unload the air compressor when compressed air is not in use.



### Adjusting air pressure

The air compressor has a pressure control knob located at the back of the unit. The pressure is set from the manufacturer at 125 psi and should not need to be adjusted. If it does need to be adjusted, turn clockwise to increase pressure and counterclockwise to reduce pressure. When adjusting pressure do not exceed 150 psi.



| Air Compressor Components |                                      |  |
|---------------------------|--------------------------------------|--|
| 1                         | Nameplate                            |  |
| 2                         | Control unit, pneumatic              |  |
| 3                         | Intake valve with intake filter unit |  |
| 4                         | Safety valve                         |  |
| 5                         | Separator cartridge                  |  |
| 6                         | Minimum pressure valve               |  |
| 7                         | Compressed air outlet                |  |
| 8                         | Oil sight glass                      |  |
| 9                         | Temperature probe connection         |  |
| 10                        | Oil-Thermostat                       |  |
| 11                        | Oil circuit / outlet                 |  |
| 12                        | Oil circuit / inlet                  |  |
| 13                        | Oil filter                           |  |

Please consult NK31 operators manual for additional information and maintenance instructions.

# **Maintenance**

### Engine Maintenance — Doosan D34

| Item                          | Check    | Replace  | Replacement Part Number |
|-------------------------------|----------|----------|-------------------------|
| Engine Oil                    | DAILY    | 500 Hrs. | SEE BELOW CHART         |
| Engine Oil Filter             | -        | 500 Hrs. | V90700-85               |
| Engine Fuel Filter            | 500 Hrs. | 500 Hrs. | V90700-86               |
| Engine Air Filter (Primary)   | 100 Hrs. | 500 Hrs. | V90700-87               |
| Engine Air Filter (Secondary) | 100 Hrs. | 500 Hrs. | V90700-88               |

### **Maintenance Kits**

| Item  | Kit Number |
|---|------------|
| Doosan D34 Engine Maintenance Kit (Bi-Annual) Includes: 10W-30 oil, oil filter, air filter (primary and secondary), fuel filter | S90700-18  |

| Recommended Oil |     |                          |
|-----------------|-----|--------------------------|
|                 |     | 15W-40 (-15° C ÷ +50° C) |
|                 |     | 10W-30 (-25° C ÷ +40° C) |
| Viscosity       | SAE | 10W-40 (-25° C ÷ +50° C) |
|                 |     | 5W-30 (-30° C ÷ +40° C)  |
|                 |     | 0W-40 (-40° C ÷ +50° C)  |

### Air Compressor Maintenance—NK31

| Item                                 | Check    | Replace   | Replacement Part Number |
|--------------------------------------|----------|-----------|-------------------------|
| Air Compressor Oil                   | DAILY    | 12 Months | 3.2 Quarts — S90700-38  |
| Air Compressor Air Intake Filter     | 6 Months | 12 Months | V90700-52               |
| Air Compressor Oil Separating Filter | -        | 12 Months | V90700-50               |
| Air Compressor Oil Filter            | -        | 12 Months | V90700-51               |
| Drive Belt                           | DAILY    | -         | V90700-24               |

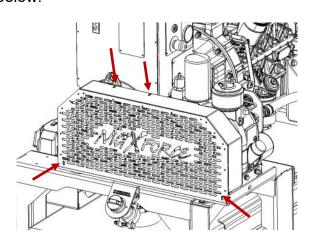
### **Maintenance Kits**

| Item   | Kit Number |
|--|------------|
| NK31 Air Compressor Maintenance Kit (Annual) Includes: Oil, oil filter, air intake filter, oil separating filter | S90700-16  |

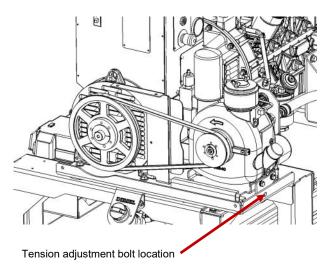
### **Belt Replacement/Maintenance**

Belt should be visually inspected for wear and lack of tension daily. Belt may need to be periodically tensioned as the belt stretch during normal operations.

To access the belt, make sure the generator is shut down and the positive battery cable is disconnected form the battery. Remove the 4 screws that attach the belt guard shown below.



With the belt guard removed, check the belt tension along the topline of the belt. The required tension is 6.8—7.2 lbf at 0.25" deflection. Tension can be added by tightening the tension adjustment bolt shown below. Be sure to re-tighten the tension adjustment locknut if any adjustments are made. Re-install the belt guard before running the generator.



# **Troubleshooting**

### **Engine**

| Problem                       | Cause                                | Solution                                    |  |
|-------------------------------|--------------------------------------|---|--|
|                               | Sulphated battery terminals corroded | Clean the battery terminals                 |  |
|                               | Battery voltage too low              | Recharge or replace battery                 |  |
|                               | Low fuel level                       | Refuel                                      |  |
|                               | Frozen fuel                          | Contact dealer                              |  |
| The engine does not start     | Clogged fuel filter                  | Replace with a new filter                   |  |
| The engine does not start     | Air suction in fuel system           | Contact dealer                              |  |
|                               | Clogged air filter                   | Replace with a new filter                   |  |
|                               | Clogged pipes                        | Contact dealer                              |  |
|                               | Open fuse                            | Relace with a new fuse                      |  |
|                               | Intake or exhaust system clogged     | Contact dealer                              |  |
| Engine doesn't rev up         | Safety protocol in starting          | Wait some seconds                           |  |
| RPM instability at idle speed | Clogged fuel pipes                   | Contact dealer                              |  |
| Low idle apped                | Clogged fuel pipes                   | Contact dealer                              |  |
| Low idle speed                | Poor quality fuel                    | Clean the tank and refuel with quality fuel |  |
| Blue smoke                    | High oil sump level                  | Replace the engine oil                      |  |
| Dide Silloke                  | Clogged air filter                   | Replace with a new filter                   |  |
| Expossive fuel consumption    | Clogged air filter                   | Replace with a new filter                   |  |
| Excessive fuel consumption    | High oil sump level                  | Replace the engine oil                      |  |
|                               | Clogged air filter                   | Replace with a new filter                   |  |
| Engine lost its initial       | Clogged fuel pipes                   | Contact dealer                              |  |
| performance                   | Cheap fuel                           | Clean the tank and refuel with quality fuel |  |
|                               | High oil sump level                  | Replace the engine oil                      |  |
| Slow acceleration             | Clogged fuel filter                  | Replace the fuel filter                     |  |
| Engine jerking                | Clogged fuel pipes                   | Contact dealer                              |  |
|                               | Insufficient coolant level           | Fill up to the level                        |  |
| Engine overheats              | High oil sump level                  | Replace the engine oil                      |  |
|                               | Clogged radiator                     | Clean the radiator                          |  |

### Air compressor

| Problem   | Problem Cause   |  |
|---|---|--|
|   | Motor output insufficient   | Check  |
| C   | Compressor is flooded with oil  | Check  |
| System difficult to start   | System has not been discharged yet  | Check  |
|   | Oil filling too viscous   | Check viscosity  |
| Differential pressure   | Pressure in separator cartridge too high with clogged or full separator cartridge                   | Replace separator cartridge  |
|   | Oil shortage  | Check oil level in oil reservoir and top up if necessary                               |
|   | Oil filter soiled   | Replace oil filter cartridge   |
|   | Thermostat defective  | Replace thermostat   |
| Combistat switches off due to excessively high  | Oil cooler soiled   | Clean oil cooler on air side, clean on oil side if necessary                           |
| temperature   | Incorrect installation<br>a) Room ventilation<br>b) Exhaust air blocked<br>c) Thermal short circuit | Observe recommendation on installing system  |
|   | Combistat faulty or incorrectly adjusted  | Adjust combistat or replace  |
|   | Fan has failed  | Check  |
|   | Safety valve defective  | Replace safety valve   |
|   | Fine separator cartridge soiled   | Replace cartridge  |
| Safety valve blows off  | System does not relieve Continuous operation  | Contact dealer   |
|   | System does not switch off automatically (drop-out mode)  | Contact dealer   |
|   | Oil extraction line with nozzle in oil sight glass soiled   | Clean oil extraction system  |
| Oil in compressed air   | Fine separator cartridge defective  | Check cartridge and replace if necessary   |
|   | Oil level in oil reservoir too high; possibly excessive condensate                                  | Observe oil level marking; drain and replace if necessary                              |
| System is not discharged during continuous operation, system does not switch off automatically in case of intermittent operation, i.e. safety valve blows off | Upper switching point of network pressure monitor set too high                                      | Readjust network pressure monitor  |
|   | Solenoid valve defective, relief valve defective  | Replace solenoid valve/relief valve  |
|   | Minimum pressure valve jammed   | Check minimum pressure valve for smooth move-ment; ensure smooth movement if necessary |

### Troubleshooting — Cont.

### Air compressor

| Problem   | Cause  | Solution  |
|---|--|---|
| System continually  | Solenoid valve defective, relief valve defective                                       | Replace solenoid valve/ relief valve                                  |
| discharges, low feed quantity   | Break in electric supply line to solenoid valve  | Eliminate break   |
|   | Intake filter soiled   | Replace filter insert   |
| No or insufficient feed   | Oil shortage   | Check oil level and top up if necessary                               |
| quantity  | Intake control valve does not open   | Check control valve   |
|   | Leaks in system  | Check, seal off   |
| Control valve does not close  | Pressure switch, or control valve  | Check setting   |
| Oil exits through intake control valve during stop                    | Sealing surface on intake control valve damaged, spring in intake control valve broken | Check parts and replace if necessary                                  |
|   | Solenoid valve/electrical system   | Check   |
| System does not relieve   | Impulse-pressure relief valve  | Check and replace parts if necessary                                  |
| Control valve constantly discharges                                   | Solenoid valve/electrical system   | Check   |
|   | Oil type incorrect   | Oil change  |
| Oil escapes during discharging (oil foam in fine separator cartridge) | Oil foam forms during stop   | Install discharge delay valve, replace with different nozzle diameter |
| . , ,   | Oil level too high   | Drain off oil   |

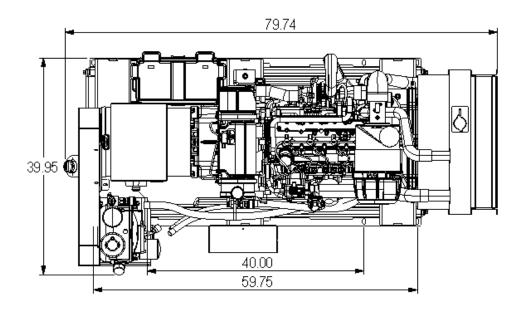
### Alternator

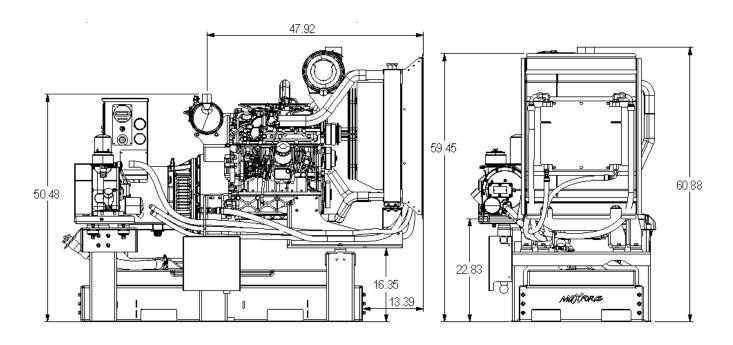
| Problem    | Cause   | Solution  |
|------------|---|---|
|            | Faulty AVR                                      | Check the fuse<br>Replace the AVR                 |
|            | Faulty rectifier bridge and/or surge suppressor | Check rectifier bridge                            |
|            | Faulty stator exciter                           | Contact dealer                                    |
| NO VOLTAGE | Main winding fault                              | Contact dealer                                    |
|            | Demagnetized machine                            | Contact dealer                                    |
|            | Broken connections                              | Check all connections                             |
|            | Reference voltage is not set at desired value   | Adjust voltage with potentiometer «V» on the AVR; |

| Problem          | Cause  | Solution  |  |
|------------------|--|---|--|
| NO VOLTAGE       | Under-frequency protection not properly adjusted | Check / adjust, the value of under-<br>frequency protection for 50Hz (60Hz)<br>nominal frequency. |  |
|                  | Engine speed low                                 | Check the engine speed (voltage frequency)  |  |
| LOW VOLTAGE      | Faulty AVR                                       | Replace the AVR   |  |
| LOW VOLTAGE      | Reference voltage is not set at desired value    | Adjust voltage with potentiometer «V» on the AVR  |  |
|                  | Sensing connection open circuit                  | Check the sensing connections   |  |
| HIGH VOLTAGE     | Faulty AVR                                       | Replace the AVR   |  |
|                  | AVR stability incorrectly set                    | Check the correct Dip switches position, adjust stability with ST trimmer                         |  |
| UNSTABLE VOLTAGE | Engine speed unstable                            | Check with the frequency meter if there are oscillations in engine speed                          |  |
|                  | Faulty AVR                                       | Replace the AVR   |  |

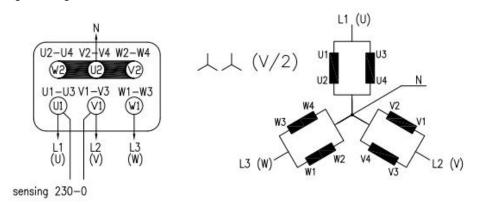
# **Technical Data**

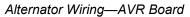
### Generator Dimensions

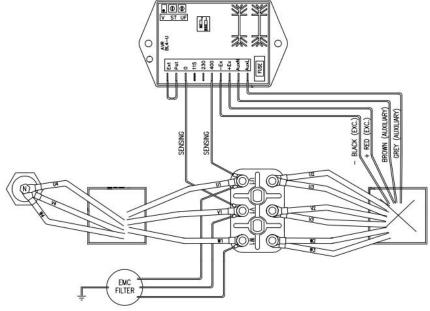


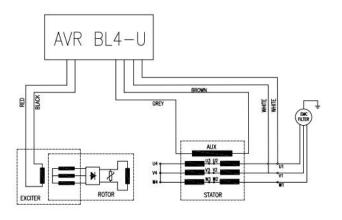


### Alternator Wiring—High Voltage



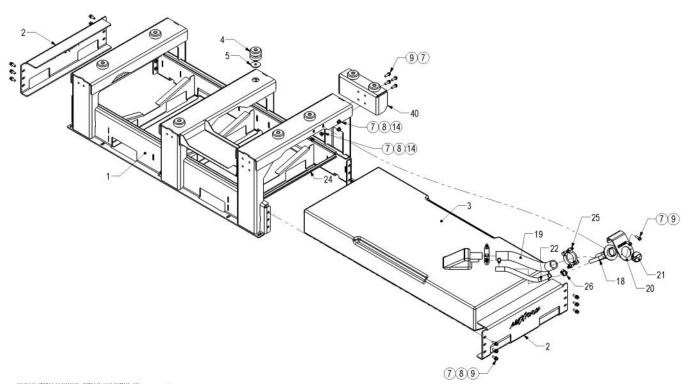




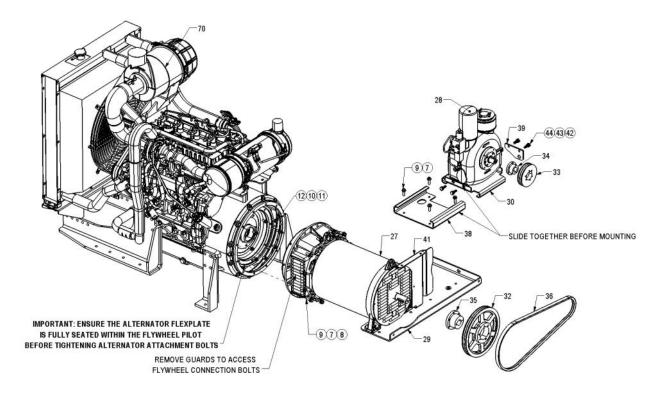


# **Parts**

### Frame and Fuel Tank



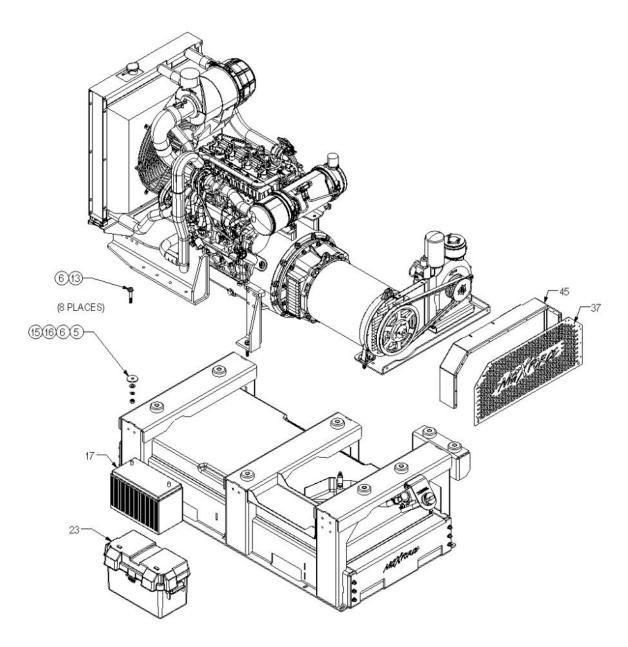
| Ref. | Part No.    | Description                             | Qty |
|------|-------------|---|-----|
| 1    | C90700-70   | D34 GENSET FRAME WELDMENT, 40 GAL TANK  | 1   |
| 2    | C90700-59   | FRAME, END RAIL, MAXFORCE               | 2   |
| 3    | V90700-04   | DIESEL FUEL TANK, 40 GAL, NATURAL COLOR | 1   |
| 4    | V90700-68   | VIBRATION ISOLATOR, SINGLE PT M         | 8   |
| 5    | V90700-03   | SNUBBING WASHER, VIBRATION ISOLATOR     | 8   |
| 7    | V90799-03   | FLAT WASHER                             | 44  |
| 8    | V90799-02   | SPLIT LOCK WASHER                       | 34  |
| 9    | V90799-01   | HEX BOLT                                | 34  |
| 14   | V90799-04   | HEX NUT                                 | 10  |
| 18   | V90700-12   | FUEL FILLER NECK, DEISEL                | 1   |
| 19   | V90726-03_1 | FILLER NECK FUEL LINE                   | 1   |
| 20   | W90700-62   | FILLER NECK MOUNT                       | 1   |
| 21   | V90726-02   | FUEL FILLER CAP, DIESEL, GREEN          | 1   |
| 22   | V90726-04_1 | FILLER NECK VENT LINE                   | 1   |
| 24   | V90700-08   | RUBBER PUSH ON SEAL                     | 1   |
| 25   | 700150      | DOUBLE BOLT CLAMP                       | 2   |
| 26   | WDC#10      | #10 HOSE CLAMP                          | 2   |



| Ref. | Part No.  | Description                          | Qty |
|------|-----------|--------------------------------------|-----|
| 7    | V90799-03 | FLAT WASHER                          | 44  |
| 8    | V90799-02 | SPLIT LOCK WASHER                    | 34  |
| 9    | V90799-01 | HEX BOLT                             | 34  |
| 10   | V90799-07 | FLAT WASHER                          | 8   |
| 11   | V90799-06 | SPLIT LOCK WASHER                    | 8   |
| 12   | V90799-05 | HEX BOLT                             | 8   |
| 27   | V90700-06 | ALTERNATOR                           | 1   |
| 28   | V90700-20 | SCREW AIR COMPRESSOR                 | 1   |
| 29   | C90700-21 | COMPRESSOR MOUNT BASEPLATE           | 1   |
| 30   | C90700-25 | COMPRESSOR TENSION PLATE SLIDER      | 1   |
| 32   | V90700-25 | SHEAVE, V-BELT                       | 1   |
| 33   | V90700-26 | SHEAVE, V-BELT                       | 1   |
| 34   | V90700-28 | BUSHING                              | 1   |
| 35   | V90700-27 | BUSHING                              | 1   |
| 36   | V90700-24 | POWERBAND V-BELT                     | 1   |
| 38   | C90700-24 | COMPRESSOR TENSION PLATE BASE        | 1   |
| 39   | C90700-29 | COMPRESSOR TENSIONER                 | 1   |
| 41   | C90700-28 | BELT GUARD REAR MOUNT                | 1   |
| 42   | V90799-17 | FLAT WASHER                          | 4   |
| 43   | V90799-18 | SPLIT LOCK WASHER                    | 4   |
| 44   | V90799-16 | HEX BOLT                             | 4   |
| 70   | V90700-80 | ENGINE, DOOSAN D34 DIESEL, TIER IV F | 1   |

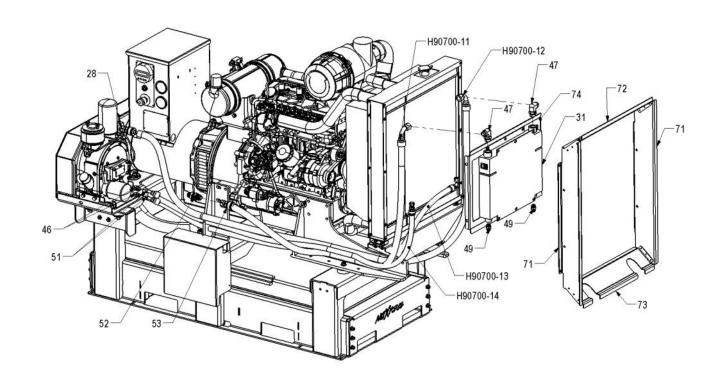
### Parts — Cont.

### Battery & Belt Guard



| Ref. | Part No.  | Description                         | Qty |
|------|-----------|-------------------------------------|-----|
| 5    | V90700-03 | SNUBBING WASHER, VIBRATION ISOLATOR | 8   |
| 6    | V90799-12 | FLAT WASHER                         | 16  |
| 13   | V90799-09 | HEX BOLT                            | 8   |
| 15   | V90799-11 | SPLIT LOCK WASHER                   | 8   |
| 16   | V90799-13 | HEX NUT                             | 8   |
| 17   | V90700-10 | BATTERY                             | 1   |
| 23   | V90700-11 | BATTERY BOX                         | 1   |
| 37   | C90700-27 | BELT GUARD FACEPLATE                | 1   |
| 45   | C90700-26 | BELT GUARD CENTER                   | 1   |

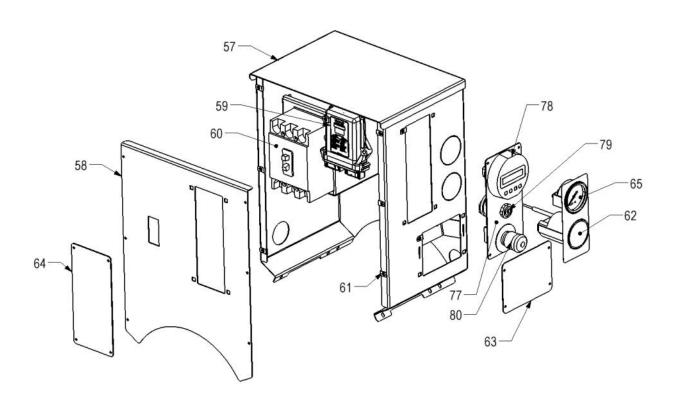
### Air Compressor Cooler



| Ref. | Part No.      | Description                              | Qty |
|------|---------------|--|-----|
| 31   | V90700-21     | OIL/AIR COMBINATION COOLER               | 1   |
| 46   | HN-08J-06BSPP | HEX NIPPLE                               | 2   |
| 47   | ME-12J-12BSPP | MALE ELBOW                               | 2   |
| 49   | HN-08J-08BSPP | HEX NIPPLE                               | 2   |
| 52   | V90700-29     | BULKHEAD                                 | 1   |
| 71   | C90700-66     | LOUVER SIDE, D34                         | 2   |
| 72   | C90700-67     | LOUVER TOP, D34                          | 1   |
| 73   | C90700-68     | LOUVER BOTTOM, D34                       | 1   |
| 74   | C90700-69     | LOUVER COOLER MNT, D34                   | 1   |
|      | H90700-11     | HYD. HOSE ASSM, AIR COOLER TO BULKHEAD   | 1   |
|      | H90700-12     | HYD. HOSE ASSM, COMPRESSOR TO AIR COOLER | 1   |
|      | H90700-13     | HYD. HOSE ASSM, COMPRESSOR TO OIL COOLER | 1   |
|      | H90700-14     | HYD. HOSE ASSM, OIL COOLER TO COMPRESSOR | 1   |

### Parts — Cont.

### Control Box Assembly



| Ref. | Part No.  | Description                           | Qty |
|------|-----------|---------------------------------------|-----|
| 57   | C90700-34 | GENERATOR DISCONNECT PANEL WELDMENT   | 1   |
| 58   | C90700-33 | GENERATOR DISCONNECT PANEL, FRONT PNL | 1   |
| 59   | XCAN-AC   | XCAN MODULE                           | 1   |
| 60   | CC3125    | CIRCUIT BREAKER                       | 1   |
| 61   | V90700-36 | CLIP ON NUT                           | 9   |
| 62   | V90700-23 | TEMPERATURE SHUTDOWN COMBISTAT        | 1   |
| 63   | C90700-37 | AVR COVER PLATE                       | 1   |
| 64   | C90700-38 | CONTROLS FACEPLATE, BLANK             | 1   |
| 65   | PG200252  | PRESSURE GAUGE                        | 1   |
| 77   | C90700-36 | CONTROLLER FACEPLATE                  | 1   |
| 78   |           | GENERATOR CONTROLLER                  | 1   |
| 79   |           | KEY SWITCH                            | 1   |
| 80   | M22-PVT   | EMERGENCY STOP                        | 1   |

# **Notes**

# **Notes**

# Warranty

MaxForce warrants all equipment listed in this manual which is manufactured by MaxForce and bearing its name to be free from defects in material and workmanship on the date of sale by MaxForce or authorized distributor to the original purchaser for use. With the exception of any special extended or limited warranty published by MaxForce, MaxForce will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by MaxForce to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with MaxForce's written recommendations.

This warranty does not cover, and MaxForce shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, accident, tampering, or substitution of non-MaxForce component parts. Nor shall MaxForce be liable for malfunction, damage or wear caused by the incompatibility of equipment with structures, accessories, equipment or materials not supplied by MaxForce, or the improper design, manufacture, installation, operation or maintenance or structures, accessories, equipment or materials not supplied by MaxForce.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized MaxForce distributor for verification of the claimed defect. If the claimed defect is verified, MaxForce will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor and transportation.

MaxForce's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but no limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

MaxForce makes no warranty, and disclaims all implied warranties of merchantability and fitness for a particular purpose in connection with accessories, equipment, materials or components sold but not manufactured by MaxForce. These items sold, but not manufactured by MaxForce (such as electric motors, gas engines, switches, hose, hydraulic components, etc.) are subject to the warranty, if any, of their manufacturer. MaxForce will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will MaxForce be liable for indirect, incidental, special or consequential damages resulting from MaxForce supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of MaxForce, or otherwise.

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