



SPECIFICATION
DGW400DM/EURA

Chapter1. General

1. Standards

The designs and the productions are in conformity with:

- (1) Japan Industrial Standards : JIS C 9300-1
- (2) Ministry of Construction (Low Noise Type Construction Machinery Standard)
- (3) Ministry of Construction (Construction Machinery Gas Emission Regulation Standard)

2. Design Conditions

- (1) Installation Place: Inside
- (2) Ambient Temperature: $-15^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- (3) Humidity: Less than 80%
- (4) Altitude: Less than 300meter (Sea Level)

3. Test and Check

The test shall be done for the complete workable unit of Diesel Engine Unit.

- (1) Checking Items
 - a) Insulation and Dielectric Tests
 - b) Starting
 - c) Protection Devices Working Test
 - d) Voltage Deviation and Speed Variation: 0-4/4 Load
 - e) Load Test: Welding and generating 4/4 Load

4. Painting

- (1) Painting specifications and color are the manufacturer's standard structure.

5. Structure

- (1) Beds (bottom columns) and Vibration Proof Device
Alternator is coupled directly with engine and they are installed on the bed through vibration proof device (Rubber Pad and Angle).
- (2) Low Noise Sound-Proof Enclosure (Bonnet)
The structure is that the inside of the bonnet is sound-proof treated and you can lift up the alternator and the engine together with the beds by using a lifting lug.
Sound Level: 62/65dB (A)/7m (No Load 1500/1800 min^{-1})
- (3) Fuel Tank
The fuel tank is made of steel and incorporated with the electrical level gauge.

SPECIFICATION

Model				DGW400DM / EURA	
Generating Method				Rotating Field	
Welding Generator	Rated Current (A)			370 / 390	
	Rated Voltage (V)			34.8 / 35.6	
	Duty Cycle (%)			60	
	Rated Speed (min ⁻¹)			3000 / 3600	
	No Load Voltage (A)			MAX 85	
	Output Change	Single	Current Adj. Range (A)	90 – 380 / 110 - 400	
			Welding Rod (Φ mm)	2.6 - 8.0	
		Dual	Current Adj. Range (A)	50 – 190 / 55 - 210	
			Welding Rod (Φ mm)	2.0 - 4.0	
Eco		Current Adj. Range (A)	40 - 240		
		Welding Rod (Φ mm)	2.0 - 5.0		
AC Generator	Rated Frequency (Hz)			50 / 60	
	Rated Speed (min ⁻¹)			3000 / 3600	
	Phase			1-Phase(50/60Hz)	3-Phase(50/60Hz)
	Rated Voltage (V)			240	415
	Power Factor			1.0	0.8
	Rated Output (kVA)			10.8	15
	Rating			Continuous	
Engine	Model			Kubota D1005	
	Type			Vertical, Water-Cooled 4-Cycle Diesel Engine	
	Displacement (L)			1.001	
	Rated Output (kW/min ⁻¹)			16.5 / 3000 or 19.1 / 3600	
	Fuel			ASTM No.2 Diesel Fuel or Equivalent	
	Lubricant Oil grade			API Class CC or Higher	
	Lubrication Oil Capacity (L)			5.1 (Effective 1.4)	
	Cooling Water Capacity (L)			4.3 (Sub Tank Capacity 0.6 L included)	
	Starting Method			Starter Motor	
Battery				55B24L	
Fuel Tank Capacity (L)				37	
Dimension	Length (mm)			1519	
	Width (mm)			700	
	Height (mm)			760	
Dry Weight (kg)				455	

Chapter2. Equipment and Features

1. Equipment

(1) Generator

Digital AC voltage meter	1 piece
Earth Leakage Circuit Breaker	1 piece
1-Phase 240V Receptacle	3 sets
3-Phase 415V Receptacle	1 set
Voltage Adj. Dial	1 piece
The Current leakage grounding terminal	1 piece

(2) Welder

Digital DC amperage meter	1 piece
A Side Current Adj. Dial	1 piece
B Side Current Adj. Dial	1 piece
CC/CV selector switch	1 piece
Eco/Single/Dual selector switch	1 piece
A Side welding current output terminal	1 set
B Side welding current output terminal	1 set

(3) The others

Emergency stop switch	1 piece
Slow down switch	1 piece
VRD switch	1 piece
Starter switch	1 piece
Battery Isolator	1 set
Fuel meter	1 piece
Hour meter: 99999.9Hr	1 piece
Bonnet grounding terminal	1 piece
Remote control receptacle	1 piece
Display monitor Lamps	1 set
• High Water Temperature. • Low Oil Pressure • Insufficient Charging	

2. Features

(1) Sound level

No load Rated speed, Distance: 7meter

Height: 1.5 meter A scale, 4 direction energy average value

Noise	Eco (Slow-down, 2200 min ⁻¹).....	57dB
	50Hz	62dB
	60Hz	65dB

(2) Protection Device

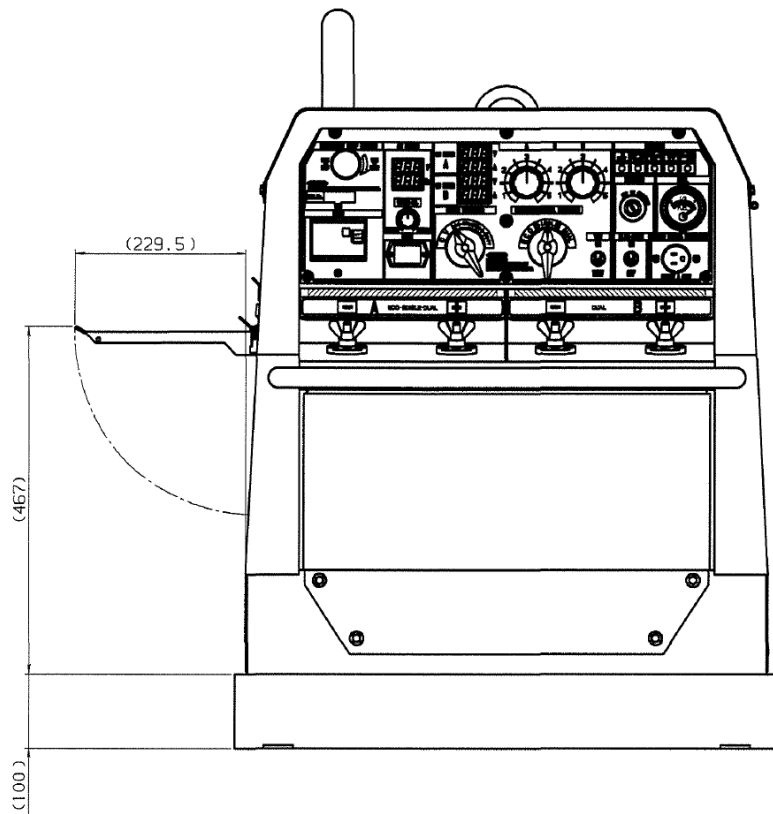
Item	Set Value	Display	Trip	Engine Shut-Down
Low Oil Pres.	98.1kPa	○	-	○
High Water Temp.	110°C	○	-	○
Insufficient Charging	-	○	-	○
Over Current	15A	○	○	-
Current Leakage	30mA 0.1sec.	○	○	-

(3) Accessories

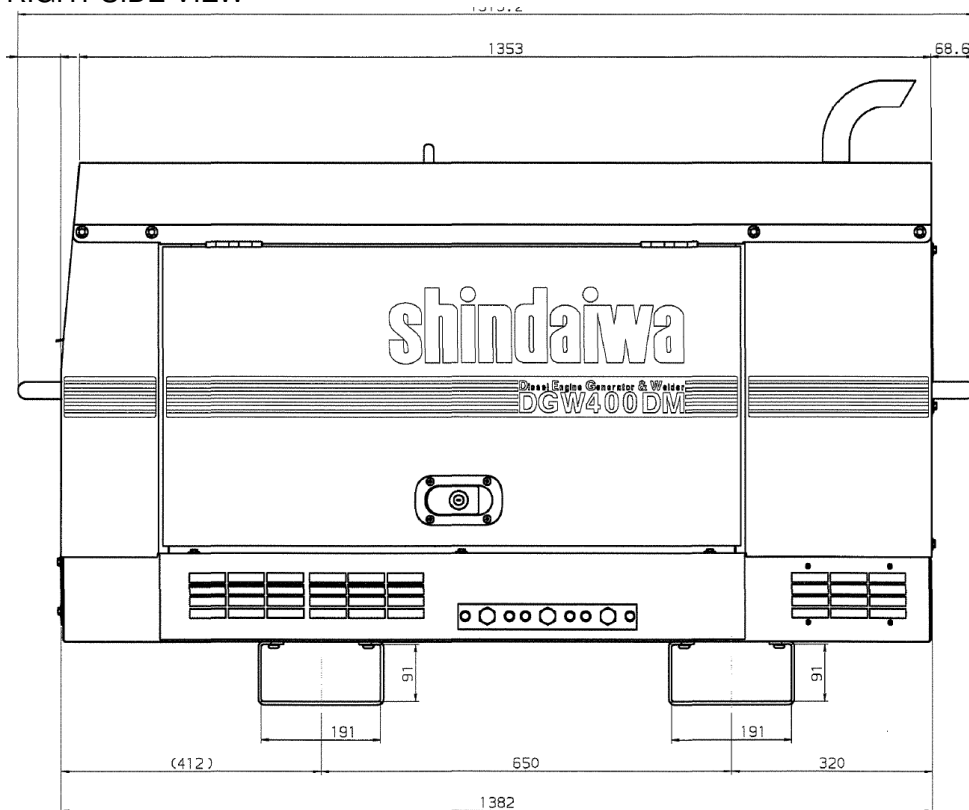
Grounding Rod: 1 piece
Instruction manual
Engine manual

• APPEARANCE

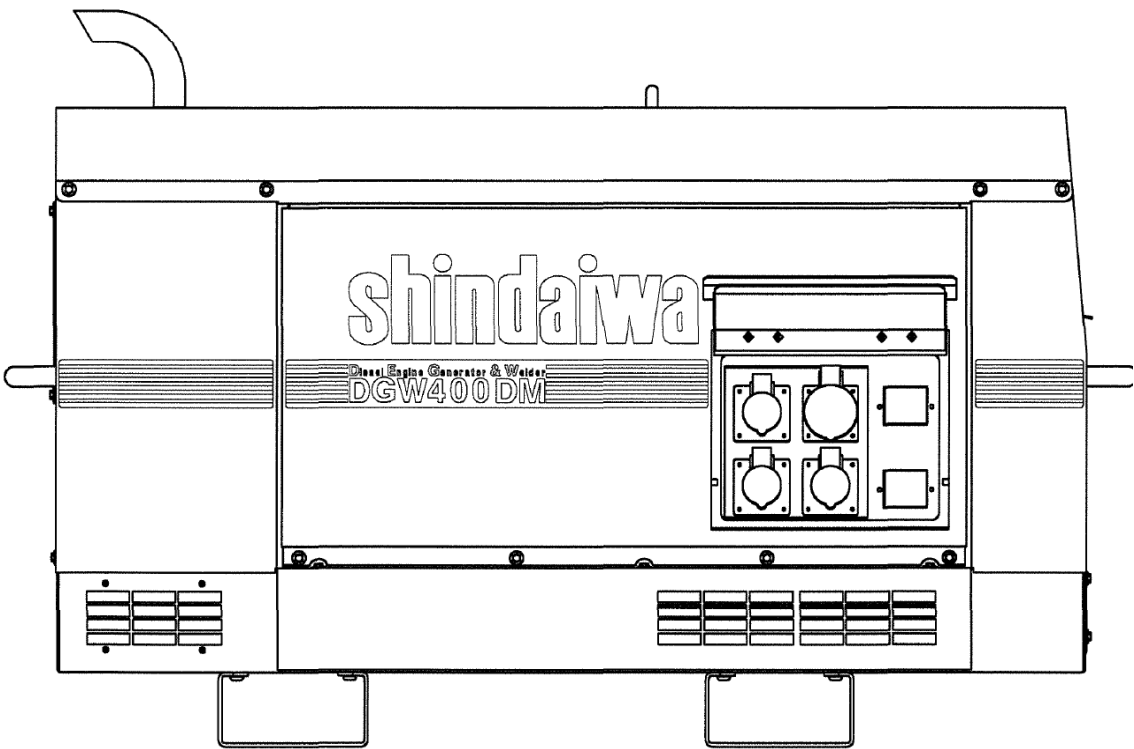
FRONT VIEW



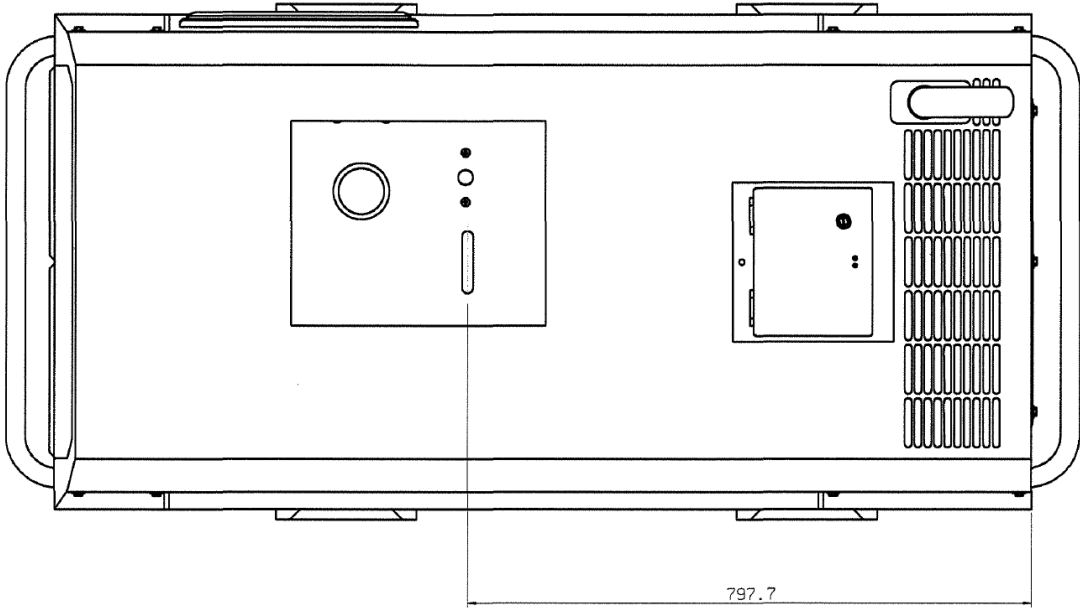
RIGHT SIDE VIEW



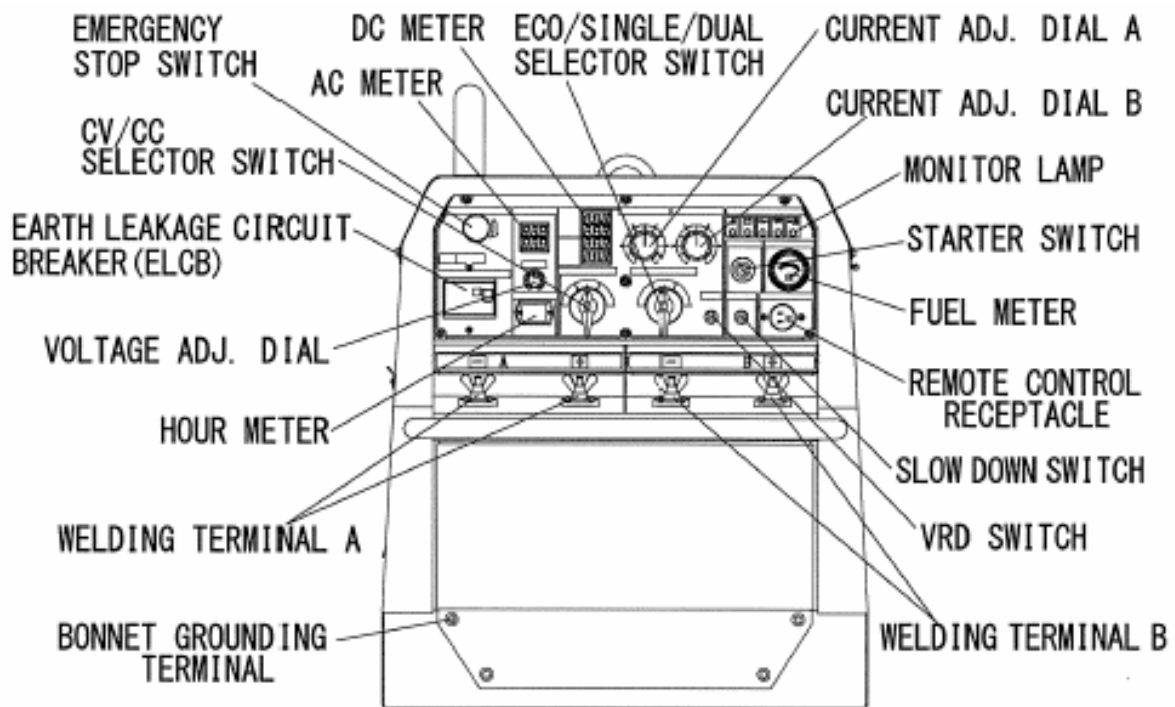
LEFT SIDE VIEW



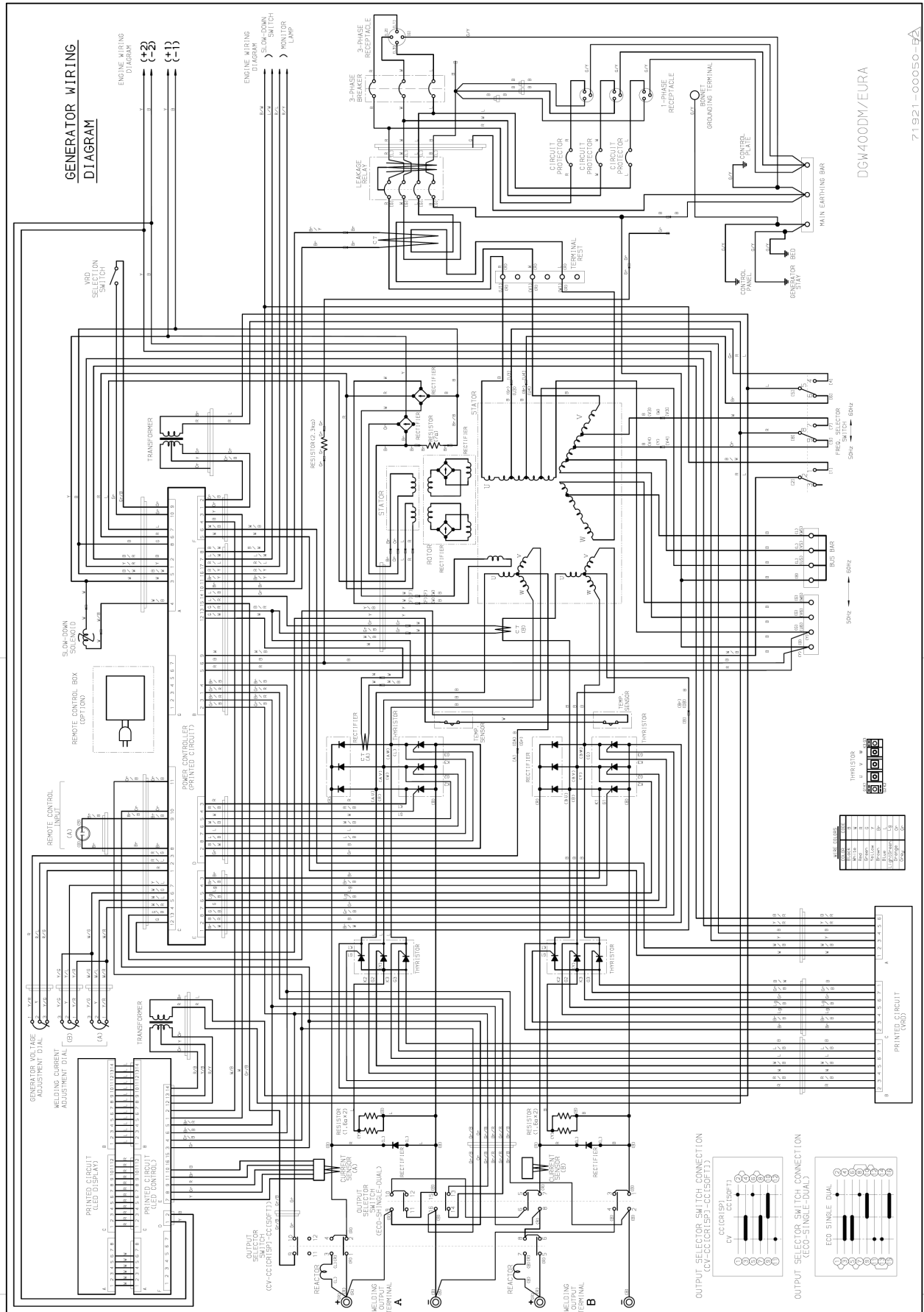
TOP VIEW



CONTROL PANEL



- WELDER and GENERATOR WIRING

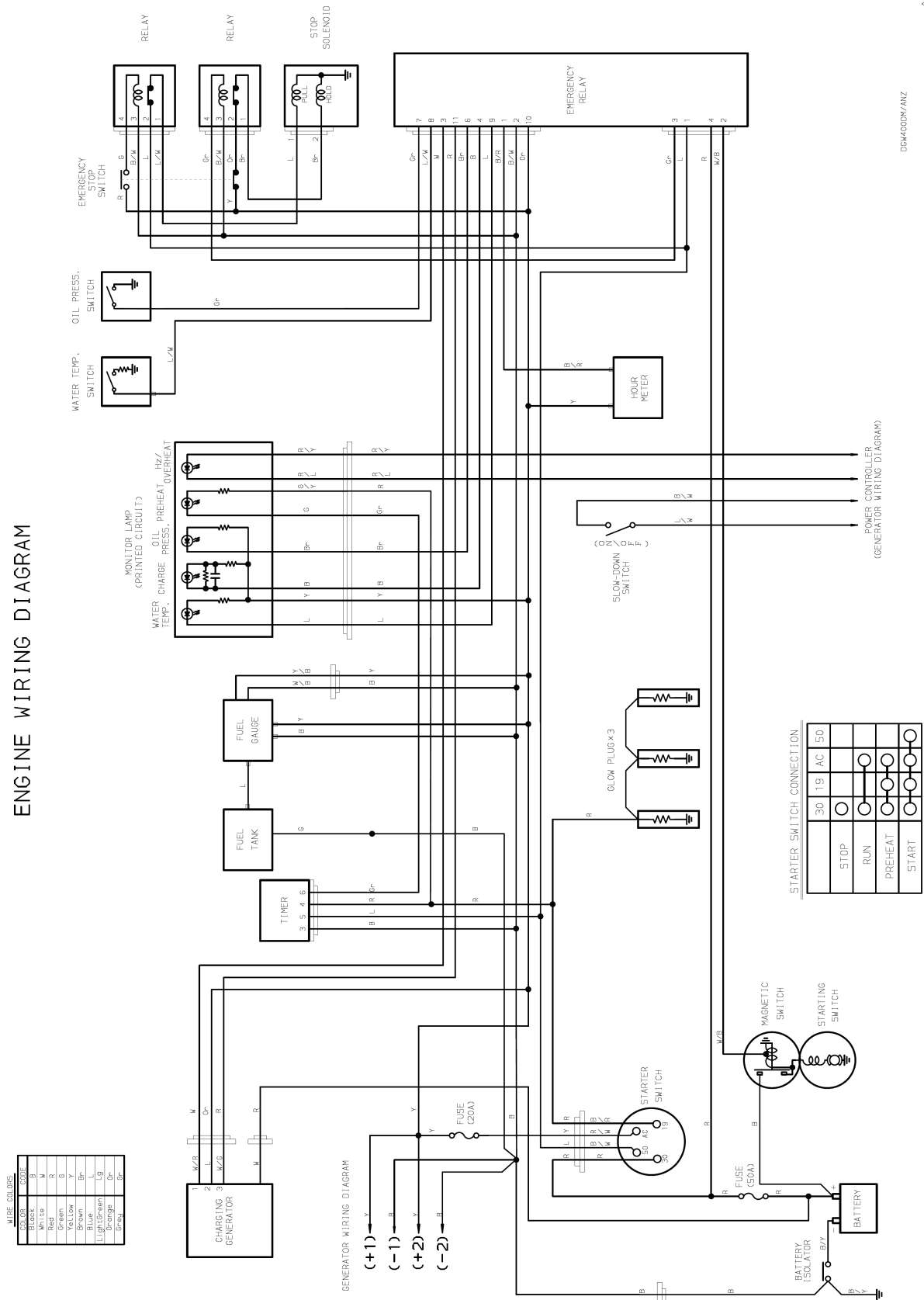


DGW400DM/EURA

71921-00050-BA

- ENGINE WIRING

ENGINE WIRING DIAGRAM



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