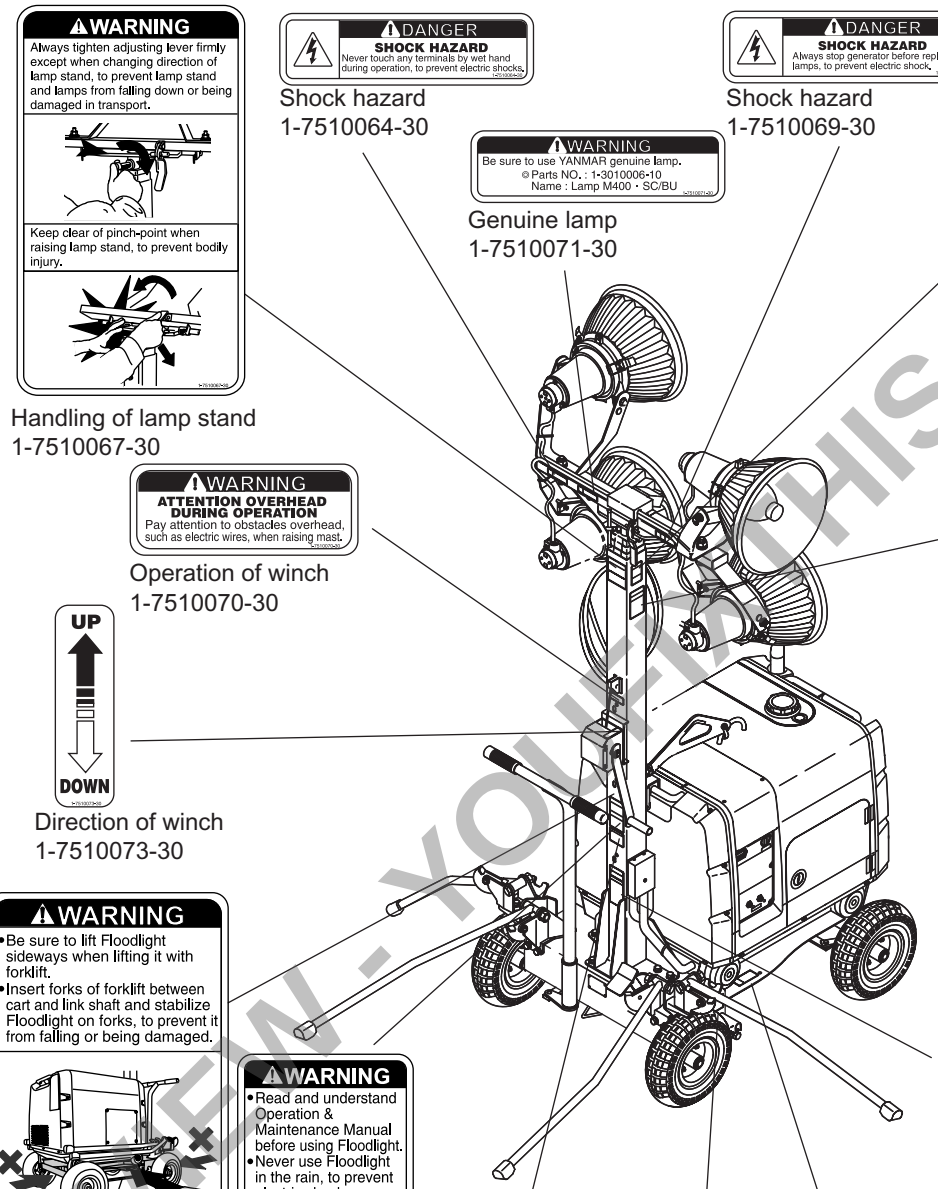


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14. Floodlight Projector

Consult your YANMAR dealer about the items marked "○"

Lamp

Trouble	Check item	Content of work	
Lamp does not light	• Are couplers securely connected?	Connect power coupler correctly	-
	• Is lamp switch of generator turned on?	Turn on switch.	-
	• Isn't lamp loosened?	Screw lamp securely.	-
	• Are connectors correctly connected?	Connect disconnected connectors.	-
	• Is voltage of generator normal? (Non-load voltage is about 200 V.)	Check connection of power cable. Replace generator.	-
	• Is initial pulse for lamp being outputted by generator?	Replace starter unit.	○
	• Is lamp cold enough to light again? (Interval of 20 to 30 min. is required to light again.)	Wait until lamp gets cold enough.	-
Light goes out or blinks	• Isn't air cleaner element of generator clogged?	Clean element.	-
	• Isn't water collected in fuel tank of generator?	Drain water from fuel tank.	-
	• Is voltage of generator normal? (Non-load voltage is about 200 V.)	Check connection of power cable. Replace generator.	-
	• Is initial pulse for lamp being outputted by generator?	Replace starter unit.	○
	• Is lamp cold enough to light again? (Interval of 20 to 30 min. is required to light again.)	Wait until lamp gets cold enough.	-
Lamp only lights for a short time	• Is voltage 115 to 135 V, and current 3.0 to 3.6 A while operating generator?	Repair or replace generator.	-
	• Isn't ambient temperature too high (More than 40°C)?	Move to proper place or provide good ventilation.	-

Mast

Trouble	Check item	Content of work	
Mast cannot be raised	• Isn't cable caught in mast?	Set caught cable free.	-
	• Isn't end of wire rope disconnected from winch?	Connect wire rope to winch.	-
	• Does surface of mast slides smoothly?	Apply grease on sliding surface of mast.	-
Mast keeps on coming down	• Is latch of winch effective?	Replace part if malfunction.	-
	• Isn't dram shaft on winch loosened?	Tighten dram shaft and check its operation.	-
The mast cannot be lowered	• Does surface of mast slides smoothly?	Apply grease on sliding surface of mast.	-
	• Isn't brake disk part of winch held tight?	Holding winch handle securely, remove the latch and lower mast slowly. (Repair.)	-
	• Does safety stopper working correctly?	Winch up mast a little and lower mast by giving a load on it. (Repair.)	-

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8. Floodlight Projector

Type				High-frequency floodlight projector
Model				LB446H
Floodlight projector	Rated voltage		V	130
	Lamp	Type×Number of lamp		Metal Halide Lamp Type S M400 SC/BU×4
		Total luminous flux	lm	160000
		Projection angle		Variable
	Mast	Type of mast		Telescopic 4 stage mast
		Mast operation		Manual winch
		Min. & max. height	mm	2180 to 5630
	Wheel			4 tired wheels (Ø300 mm)
	Dimension	In operation (L×W×H)	mm	1690×2110×2180~5630
		In storage (L×W×H)	mm	1040×920×1780
	Mass		kg	246
Generator	Model			YDG25HSS-EX
	Rated output		kVA	1.7
	Starting system			Electric starting
	Fuel oil/Tank capacity		L	Diesel fuel/15
	Continuous operation without re-supplying fuel oil		hrs	18*
	Emergency stop system			Engine stop device by low level oil sensor
Generator dry mass			kg	130
Cart dry mass			kg	116

Note :

The operating time of a generator is measured continuously using a floodlight projector in the condition of the generator fitted after breaking in.

- The total luminous flux is the value when lamps irradiate the 45 degrees direction downward from the level.
- The specifications could be changed without notice because of the improvements.
- An actual article could differ from the figure in this manual.

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13-2. List of periodic inspections

Daily and periodic inspections are important to keep the generator in its best condition. The following is a summary of inspection and servicing items by inspection interval. Periodic inspection intervals vary depending on the use, loads, fuels and lube oils used and handling conditions, and are hard to establish definitively. The following should be treated only as a general standard.

IMPORTANT

Plan for periodic checks according to service conditions and be sure to perform all the inspections. If they are failed to perform, the generator could be broken or lose the durability. Also, electric shocks could occur. Maintenance, inspections and servicing every 500 hours or later especially require expertise and skills. Consult your nearest Yanmar dealer.

○:Check ◆:Replace ●:Contact your Yanmar dealer

Section	Check & service items	Start-up	Periodic inspection interval			
			At first 20 hrs.	Every 100 hrs.	Every 500 hrs.	Every 1,000 hrs.
Fuel oil	Check & supply of fuel oil to the tank	○				
	Check for fuel oil leak	○				
	Clean or replace of fuel oil filter				○ Clean	◆
Lube oil	Check & supply of lube oil to the tank	○				
	Check for lube oil leak	○				
	Replace lube oil		◆ 1st time	◆ 2nd time & after		
	Clean or replace lube oil filter		○ Clean	○ Clean		◆
Intake and exhaust systems	Check gas color.	○				
	Replace air cleaner element				◆	
Cylinder head	Adjust intake/exhaust valve clearance				●	
	Lapping intake/exhaust valve seats					●
Piston	Replace piston ring					●
Injection valve and fuel injection pump	Check fuel injection valve pressure and adjust				●	
	Check fuel injection timing and adjust				●	
	Check for abnormality of fuel injection pump				●	
Generator	Measure insulation resistance				●	
	Check connecting part of electric circuit				●	
	Check grounding of enclosure	○				
Electrical equipment	Check battery fluid level	○				
	Measure specific gravity of electrolyte				●	
Check for loose bolts and nuts		○				
Check for abnormality of rubber hose						●
Check for abnormality of vibroisolating rubber and sound absorption material						●

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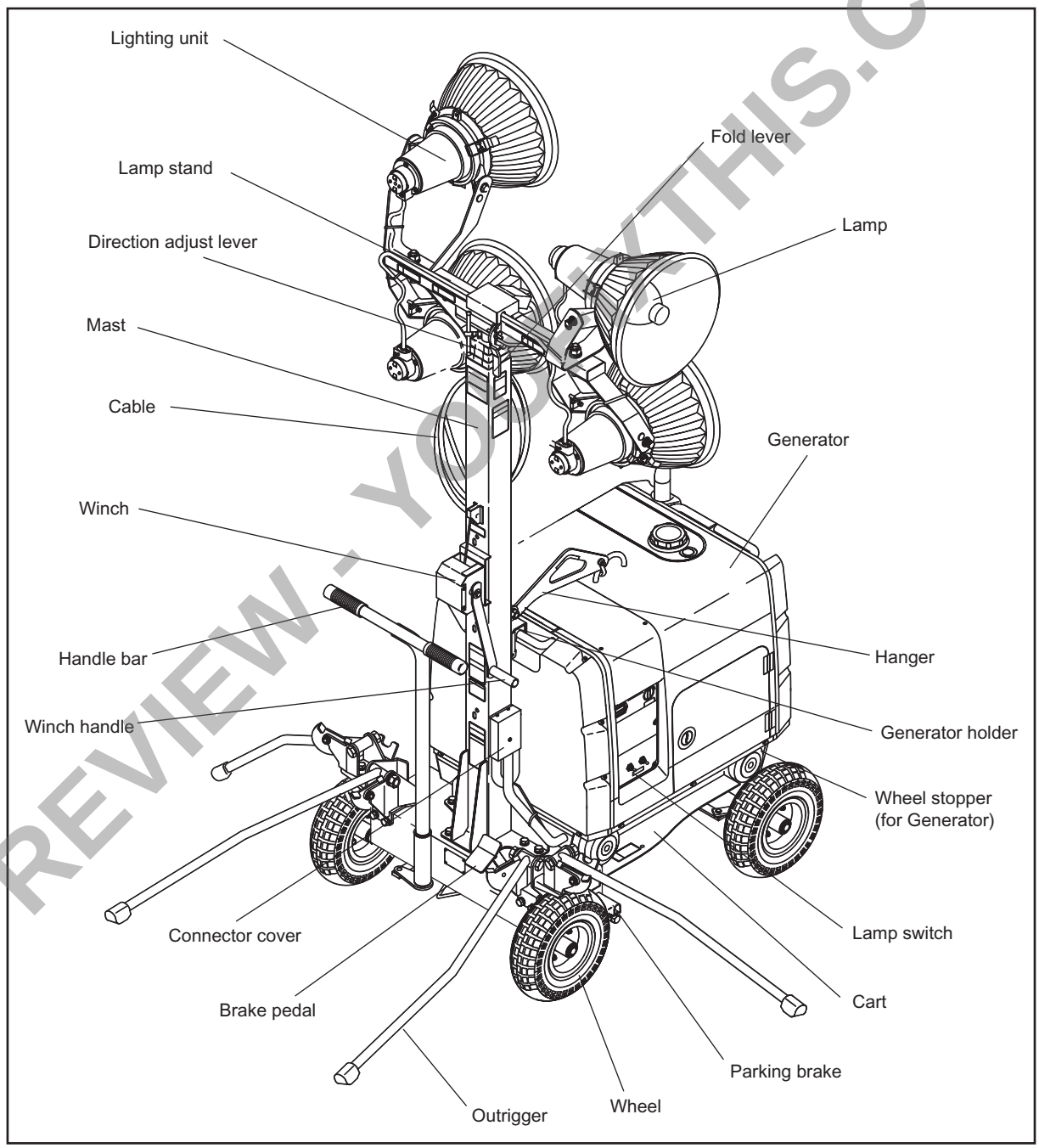
10. Floodlight Projector

10-1. Product overview

10-1-1. Running condition

Ambient temperature -5 to 40 °C

10-1-2. Parts name



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SAFETY

⚠ WARNING

Never attempt to operate or service this Floodlight projector until you have first read and understood all of the applicable Safety Instructions that are set forth in this Manual.

The failure to comply with all relevant Safety Instructions could result in bodily injury.

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SPECIFICATIONS

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11. Generator

11-1. Product overview

11-1-1. Intended uses and conditions

This generator has been developed as a dedicated generator for a floodlight projector to meet its quality requirements and is featured as follows.

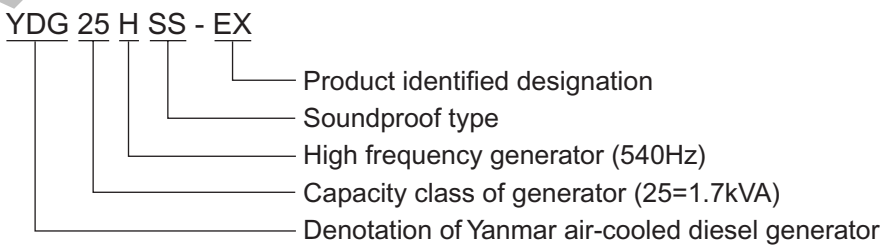
(1) Features of generator

- A higher quality of lighting provided owing to the developed high frequency generator (540 Hz, 18 poles), which solved the flickering and alternate lighting (like the glow of a firefly) of lamps.
- Economical generator with smaller fuel consumption owing to the dedicated generator developed for a floodlight projector, which adopts a smaller engine than a conventional one.)
- Environment friendly generator with a hood and frames developed to realize lower noises and vibrations.
- User-friendly generator with a side panel on which a startup operation, a switching operation of fuel cock, and the daily checks and maintenance of the oil and battery can be performed.
- No choice of frequency between 50 Hz and 60 Hz currently available. This generator deals with any frequency level and provides universal functions and performance.

(2) Running conditions

- Fuel: Diesel fuel oil [ISO 8217 DMA, BS 2869 A1 or A2 (Cetane No.45 minimum)]
- Engine lube oil : API service classification, class CC
  SAE viscosity 10W30
- Ambient temperature : -5 to 40°C
- Altitude : 300 m or lower
- Relative humidity : 40 to 85%
- For safety reasons, the operation and servicing of this generator is restricted to the persons who have good expertise and skills.

(3) Description of model name.



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Note :

If any abnormality is found in the generator, immediately stop using, check and repair the generator to remove the abnormality. To prevent accidents, never use it before removing the abnormality.

Check the generator for abnormality about the following items during operation irregularly.

1) Check the engine oil pressure alarm lamp. (OIL ALERT LAMP)
   Check the oil alert lamp is off.
2) Check the exhaust gas color for abnormality.
   Colorless or pale blue : normal
   Black : malfunction (imperfect combustion or overload)
   White : malfunction (oil burning)
3) Check for abnormal noise and abnormal vibration.
4) Check for fuel leak and oil leak.
5) Check the sufficient fuel is left in the fuel tank.
   Refuel in early stage to prevent the fuel from running out during operation.

■ **How to stop generator**

Stop the generator following the procedure below.

1) Turn the lamp switches to the "OFF" position.
2) Cool down the engine by idling for about 5 minutes.

IMPORTANT

Do not stop the engine suddenly after loaded operation because this may rapidly heat up each part of the engine and cause the engine failure such as seizure.

3) Turn the key of the starter switch to the "OFF" position, and the engine stops.

IMPORTANT

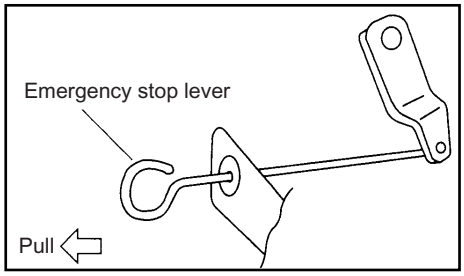
If the engine keeps on running even after the starter switch is turned off, stop the engine as follows.

• Open the inspection window "A". Pull the stop lever and hold it until the engine stops.

Note :

Take this measure only when the starter switch does not work to stop the engine.

• Some problems in the electrical system (e.g. damaged stop solenoid, defective electric wiring, or low battery voltage) may exist. Ask the nearest dealer for check and service.



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