2. Outline of Floodlight Projector

2-1. Specifications

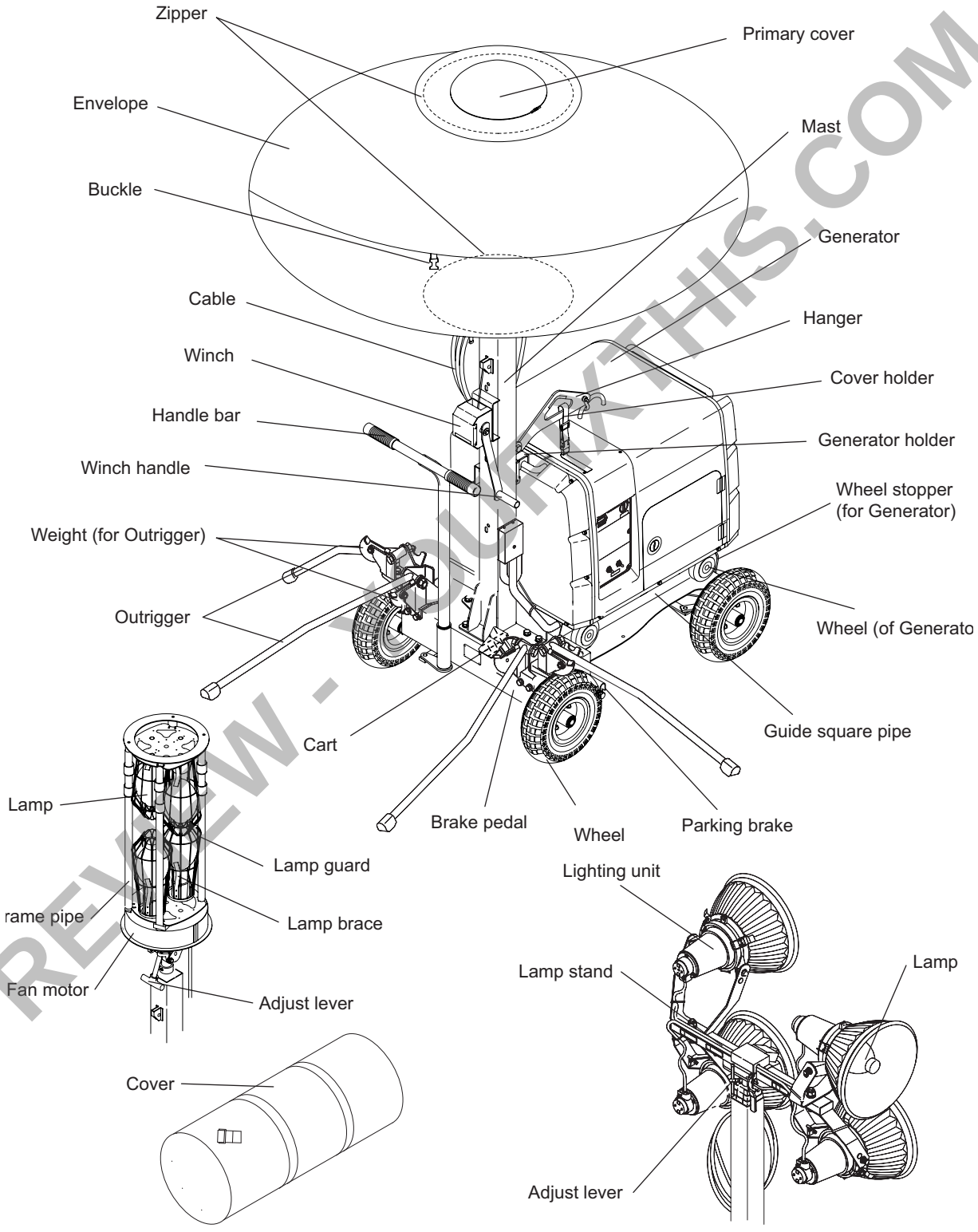
Type		High-frequency floodlight projector	
Model	Unit	**Balloon type (LB446HB)**	**Spotlight type (LB446H)**

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2-2. External View and Components of Floodlight Projector



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4. Disassembly and Assembly

4-1. Before Starting Operation

Sufficient knowledge related safety is needed for servicing and for ensuring safe quality of the generator. Be sure to carefully read Section 1, Safety, and the following notes before beginning the work.

4-1-1. Grasp of Service History

Understand the history of the services on the floodlight projector prior to the work by the records, in order to ensure efficient and correct work.

- ●Reasons for and contents of previous services.
- ●Date of previous services.
- ●Period and operating hours from previous services.
- ●Parts which would require replacement during the work.

4-1-2. Preparing the Necessary Tools, Parts and Materials

- ●Prepare the necessary general tools, special tools and measuring instruments.
- ●Prepare a case for storing disassembled parts. Locate it at appropriate place.
- ●Prepare the materials necessary at inspection and reassembly such as the grease.
- ●Make sure that all parts prepared are genuine ones.

4-2. Disassembly and Assembly Procedures

This manual mainly gives the disassembly procedures. Reassembly of each unit is fundamentally in reverse order of the disassembly procedure.

4-2-1. General Instructions

1) Disassembly

- ●Begin disassembly after the lamps are cool down sufficiently. If a floodlight projector is disassembled immediately after operation, a burning accident may occur.
- ●Be sure to stop the engne and generator before disassembly. Failure to stop them could result in electric shocks.

2) Reassembly

- ●Thoroughly clean parts before beginning reassembly.
- ●Make sure to tighten nuts and bolts to the specified torque, wherever the tightening torque is instructed. Refer to Section "9-2. Major Bolts and Nuts".
- ●Make sure to connect the terminals of the electrical circuits securely. Incomplete reassembly will result in a larger electrical resistance, resulting in poor electrical connection or possible melting of terminals.

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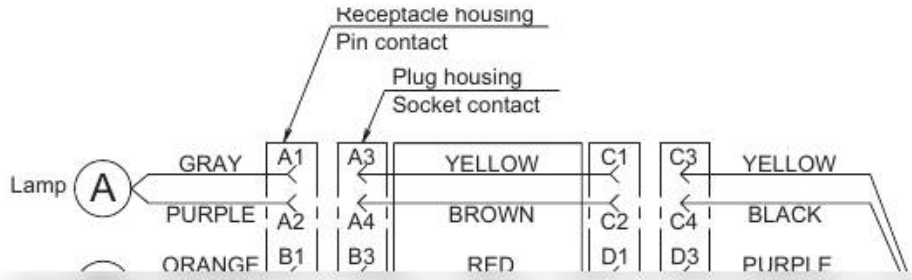
6. Periodic Inspection Items

This section gives the minimum inspection items that should be checked in order to maintain the flood-light projector at excellent operating quality.
Contents of inspection vary greatly according to the operating conditions including the total operating hours, load conditions and place of operation. Here, inspection items and intervals are described on the assumption that the floodlight projector is operated at the normal condition.

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9-2. Major Bolts and Nuts

Table 9.2 Standard tightening torque list

For major bolts and nuts of floodlight projector

Part	Name	Thread diameter	Head surface width	Tighteningtorque N-m (kgf-m)

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10. Troubleshooting

When a malfunction occurs to the floodlight projector, it is necessary to isolate the part (position) causing the failure. Further, the true cause must be identified from the symptom of the part for correct recovery action under consideration of recurrence prevention.
This section gives a method for efficient troubleshooting work.

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1-2-2. Working Wear 1-3
1-2. Loading generator 1-3

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1. Safety

1-1. Warning Symbols

●Most accidents are caused by negligence of basic safety rules and precautions.
Avoiding possible cause is important for accident prevention. Be sure to read this manual carefully

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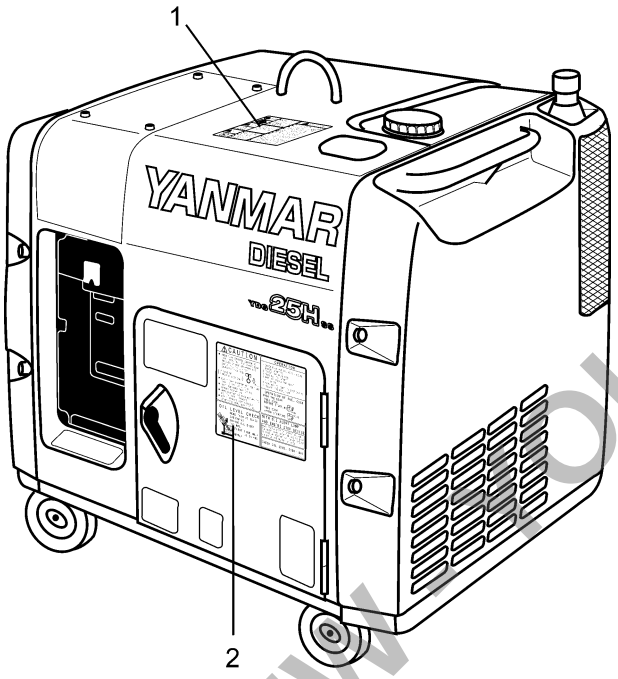
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1.3. Location of Warning Labels

To insure safe operation, the warning labels have been affixed. Their locations are shown below. Periodically confirm whether the warning labels are still affixed on their locations and can be easily read.

if a warning label is missing, damaged or cannot be read, it must be promptly replaced, ordering it in the same way as for the service parts. Also, if a warning label was affixed on a part, which is replaced, a new warning label must be affixed on the replaced part.

Generator

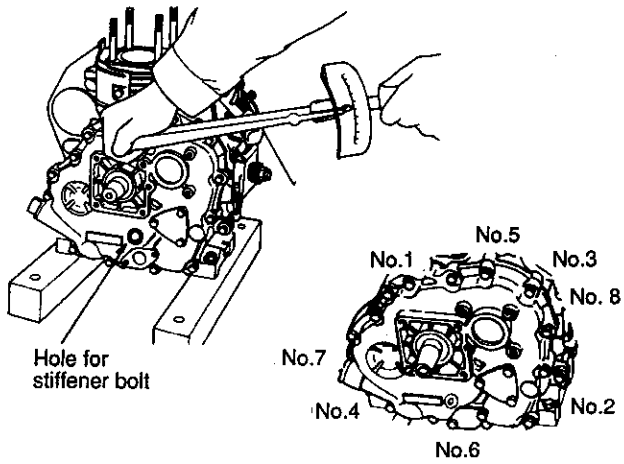


No	Part code No.	Message
1	183797-07721	Caution : Exhaust gas, burns and flammables
2	183797-07220	Emergency stop

Refer to the warning labels shown on next page

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Attaching the crankcase cover and tightening three orders

Case Cover Tightening Torque kg-cm (lb-ft)

L40AE, L48AE	100–120 (7.2–8.7)
L60AE–L100AE	200–230 (14.5–16.6)

3) Stiffener bolts have been added on the crankcase cover to reduce vibration and noise. For an engine with stiffener bolts, tighten them after the bolts on the periphery of the crankcase cover are tightened.

Stiffener Bolts Tightening Torque kg-cm (lb-ft)

L40AE~L100AE	200–230 (14.5–16.6)

8. Fuel injection pump reassembly (final)

Tighten the fuel injection pump

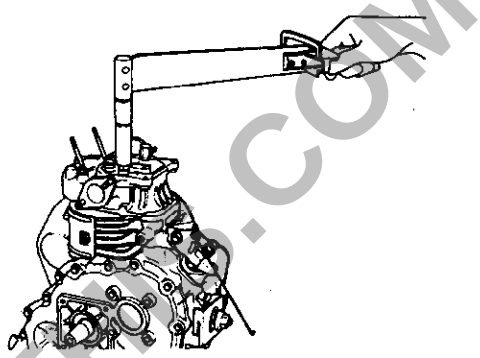
- See page 58, "Fuel Injection Volume limitation."

Fuel Injection Pump Tightening Torque kg-cm (lb-ft)

L40AE–L100AE	100–120 (7.2–8.7)

9. Cylinder head

1) Place a gasket packing on the cylinder block.
2) Attach an O-ring.
3) Reassemble the cylinder head.
   - Make sure that the nozzle insulation packing and spacer are in position.
   - Before reassembling the valve spring, place its identification mark (white paint) toward the cylinder head. (L75AE–L100AE)



Tightening the bolts of the cylinder head

Tighten separatery with two times.

Cylinder Head Tightening Torque kg-cm (lb-ft)

Model	Final	First
L40AE, L48AE	150 (10.8)	280–320 (20.2–23.1)
L60AE, L70AE	220 (15.9)	420–460 (30.4 –33.3)
L75AE–L100AE	300 (21.7)	540–580 (39.0–41.9)

10. Push rods

Insert the push rods.

- Ascertain that the tappets are properly inserted.

11. Valve rocker arm assembly

1) Reassemble the valve rocker arm assembly.
2) Adjust the valve clearance.

   In./Ex.-valve head clearance: 0.15 mm (0.006 in./cold state)

   - Be careful not to lose or damage the knock pin.

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