

WORLDWIDE

**Z200N
LZ200N**

USA, CANADA

**Z200Y
LZ200Y**

SERVICE MANUAL

290369

68F-28197-Z9-A1

PREFACE

This manual has been prepared by the Yamaha Motor Company, Ltd. primarily for use by Yamaha dealers and their trained mechanics when performing maintenance procedures and repairs to Yamaha equipment. It has been written to suit the needs of persons who have a basic understanding of the mechanical and electrical concepts and procedures inherent in the work, for without such knowledge attempted repairs or service to the equipment could render it unsafe or unfit for use.

Because the Yamaha Motor Company, Ltd. has a policy of continuously improving its products, models may differ in detail from the descriptions and illustrations given in this publication. Use only the latest edition of this manual. Authorized Yamaha dealers are notified periodically of modifications and significant changes in specifications and procedures, and these are incorporated in successive editions of this manual.

CAUTION

USE UNLEADED STRAIGHT GASOLINE ONLY

- Gasoline containing lead can cause performance loss and engine damage.
- Do not use gasoline mixed with oil (premix).
- Use YAMALUBE 2 stroke outboard oil or another 2-stroke engine oil with a BIA-certified TC-W3 rate.

Z200N, LZ200N SERVICE MANUAL

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HOW TO USE THIS MANUAL

MANUAL FORMAT

All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and check operations.

In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

- Bearings
Pitting/scratches → Replace.

To assist you in finding your way through this manual, the section title and major heading is given at the top of every page.

MODEL INDICATION

Multiple models are mentioned in this manual and their model indications are noted as follows.

Model name	Z200NETO	LZ200NETO
USA and Canada name	Z200TR	LZ200TR
Indication	Z200NETO	LZ200NETO

ILLUSTRATIONS

The illustrations within this service manual represent all of the designated models.

CROSS REFERENCES

The cross references have been kept to a minimum. Cross references will direct you to the appropriate section or chapter.

IMPORTANT INFORMATION

In this Service Manual particularly important information is distinguished in the following ways.

 The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

WARNING

Failure to follow WARNING instructions could result in severe injury or death to the machine operator, a bystander, or a person inspecting or repairing the outboard motor.

CAUTION:

A CAUTION indicates special precautions that must be taken to avoid damage to the outboard motor.

NOTE:

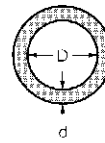
A NOTE provides key information to make procedures easier or clearer.

HOW TO USE THIS MANUAL

- ① The main points regarding removing/installing and disassembling/assembling procedures are shown in the exploded views.
- ② The numbers in the exploded views indicate the required sequence of the procedure and should be observed accordingly.
- ③ Symbols are used in the exploded views to indicate important aspects of the procedure. A list of meanings for these symbols is provided on the following page.
- ④ It is important to refer to the job instruction charts at the same time as the exploded views. These charts list the sequence that the procedures should be carried out in, as well as providing explanations on part names, quantities, dimensions and important points relating to each relevant task.

Example:

O-ring size 39.5 × 2.5 mm: inside diameter (D) × ring diameter (d)



- ⑤ In addition to tightening torques, the dimensions of the bolts or screws are also mentioned.

Example:

Bolt or screw size 10 × 25 mm : diameter (D) × length (L)



- ⑥ In addition to the exploded views and job instruction charts, this manual provides individual illustrations when further explanations are required to explain the relevant procedure.

LOWER UNIT (REGULAR ROTATION MODELS)

LOWER UNIT (REGULAR ROTATION MODELS)
REMOVING/INSTALLING THE LOWER UNIT

40 Nm (4.0 m • kgf, 28 ft • lbf)
10 × 40 mm, 12 mm

55 Nm (5.5 m • kgf, 40 ft • lbf)

40 Nm (4.0 m • kgf, 28 ft • lbf)
10 × 70 mm

40 Nm (4.0 m • kgf, 28 ft • lbf)
10 × 40 mm

Order	Job/Part	Q'ty	Remarks
1	Speedometer base	1	
2	Propeller nut	1	
3	Washer	1	
4	Propeller	1	
5	Spacer	1	
6	Bolt	1	
7	Trim tub	1	
8	Bolt	1	(with washer)
9	Bolt	1	(with washer)
10	Lower unit	1	
11	Dowel pin	2	

9-1

DRIVE SHAFT (REGULAR ROTATION MODELS)

REMOVING THE DRIVE SHAFT

Remove:

- Pinion nut
- Drive shaft holder
YB-06201 / 30890-06520
- Pinion nut holder
30890-06505
- Pinion nut holder for attachment
30890-06507

DISASSEMBLING THE DRIVE SHAFT HOUSING ASSEMBLY

Remove:

- Needle bearing
- Bearings/shaft seal attachment
YB-06196 / 30890-06810
- Driver rod
YB-06671 / 30890-06662

DISASSEMBLING THE FORWARD GEAR ASSEMBLY

Remove:








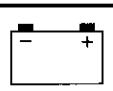




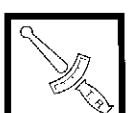











- Tapered roller bearing
- Bearing separator
YB-06210 / 30890-06534

CAUTION:
Do not reuse the bearing, always replace it with a new one.

Remove:

- Needle bearing
- Slide hammer
YB-06098
- Guide plate
30890-06591
- Guide plate stand
30890-06538
- Rowing peller
30890-06545
- Small universal claws
30890-06536

9-10

① GEN INFO 	② SPEC 
③ INSP ADJ 	④ FUEL 
⑤ POWR 	⑥ LOWR 
⑦ BRKT 	⑧ ELEC 
⑨ TRBL ANLS 	⑩ 
⑪ 	⑫ 
⑬ 	⑭ 
⑮ 	⑯ 
⑰ 	⑱ 
⑲ 	⑳ 
㉑ 	㉒ 
㉓ 	㉔ 

SYMBOLS

Symbols ① to ⑨ are designed as thumb-tabs to indicate the content of a chapter.

- ① General information
- ② Specifications
- ③ Periodic inspections and adjustments
- ④ Fuel system
- ⑤ Power unit
- ⑥ Lower unit
- ⑦ Bracket unit
- ⑧ Electrical systems
- ⑨ Trouble analysis

Symbols ⑩ to ⑮ indicate specific data.

- ⑩ Special tool
- ⑪ Specified liquid
- ⑫ Specified engine speed
- ⑬ Specified torque
- ⑭ Specified measurement
- ⑮ Specified electrical value
[Resistance (Ω), Voltage (V), Electric current (A)]








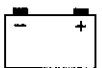

Symbol ⑯ to ⑱ in an exploded diagram indicate the grade of lubricant and the location of the lubrication point.

- ⑯ Apply Yamaha 2-stroke outboard motor oil (TC-W3)
- ⑰ Apply water resistant grease (Yamaha grease A, Yamaha marine grease)
- ⑱ Apply molybdenum disulfide oil

Symbols ⑲ to ㉔ in an exploded diagram indicate the grade of the sealing or locking agent and the location of the application point.

- ⑲ Apply Gasket Maker[®]
- ⑳ Apply Yamabond #4 (Yamaha bond number 4)
- ㉑ Apply LOCTITE[®] No. 271 (Red LOCTITE)
- ㉒ Apply LOCTITE[®] No. 242 (Blue LOCTITE)
- ㉓ Apply LOCTITE[®] No. 572
- ㉔ Apply silicon sealant

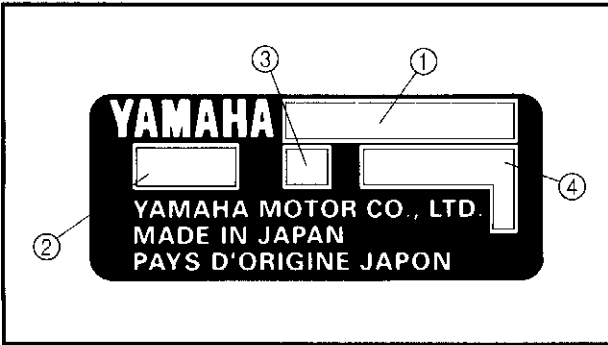
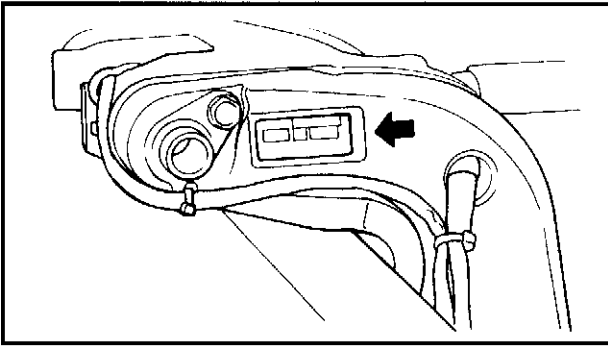
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CHAPTER 1 GENERAL INFORMATION

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**IDENTIFICATION
SERIAL NUMBER**

The outboard motor's serial number is stamped on a label which is attached to the port side of the clamp bracket.

NOTE: _____
If the serial number label is removed, "VOID" marks will be appear on the label.

- ① Model name
- ② Approved model code
- ③ Transom height
- ④ Serial number

STARTING SERIAL NUMBERS

The starting serial number blocks are as follows:

Model name			Approved model code	Starting serial number
Worldwide	USA	Canada		
Z200NETO	Z200TR	Z200TR	6G6	X: 100101 -
LZ200NETO	LZ200TR	—	6K1	X: 100101 -