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The illustration shown in this manual may vary depending on the model.

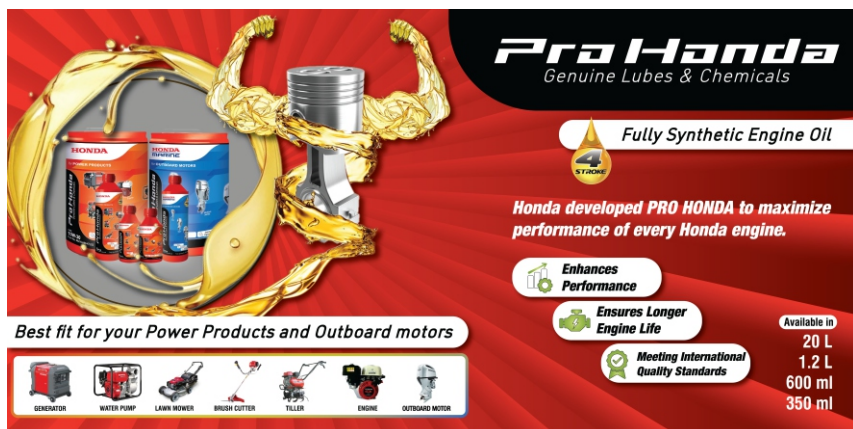


Long Tail Outboard Motor
(LTS80Q-LTS160L-LTS160Q-LTS200L-LTS200Q)

OWNER'S MANUAL

Keep this owner's manual handy so that you can refer to it at any time. This owner's manual is considered a permanent part of the product and should remain with the product if resold.

The information and specifications included in effect at time of this publication were approved for printing. The manufacturer reserves the right. However, to discontinue or change specifications or design at any time without notice and without incurring any obligation whatsoever.



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Genuine Lubes & Chemicals

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4 STROKE

Honda developed PRO HONDA to maximize performance of every Honda engine.

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Ensures Longer Engine Life

Meeting International Quality Standards

Available in
20 L
1.2 L
600 ml
350 ml

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GENERATOR WATER PUMP LAWN MOWER BRUSH CUTTER TILLER ENGINE OUTBOARD MOTOR

Disposal

To protect the environment, do not dispose of the used engine, engine oil etc. carelessly by leaving them in the waste. Observe the local laws or regulations or consult your authorized Honda dealer to dispose of these parts.

Please dispose of used engine oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station for reclamation. Do not throw it in the trash or pour it on the ground.

TABLE OF CONTENTS

INTRODUCTION	2
SAFETY PRECAUTIONS	3
WARRANTY POLICY	4
MAIN COMPONENTS.....	5
INSTALLATION GUIDE	6
PRE-OPERATION INSPECTION	9
OPERATING GUIDELINES	10
MAINTENANCE SCHEDULE	11
TROUBLESHOOTING	12
TECHNICAL SPECIFICATION	13

INTRODUCTION

This manual provides instructions for the installation, operation, inspection, and maintenance of the Long Tail Outboard Motor (LTOBM) frame assembly.

This manual does NOT cover the engine.

For engine operation, maintenance, troubleshooting, and specifications, refer to the engine Owner's Manual supplied with the product.

Product Overview

The LTOBM frame converts engine power into thrust through a long propeller shaft. It is intended for installation on small boats operating in shallow water, rivers, lakes, and coastal areas.

Major functions include:

- Supporting the engine
- Transmitting engine power to the propeller
- Steering
- Tilting the propeller
- Mounting to the boat transom

SAFETY PRECAUTIONS

 **Important warnings and pieces of advice are indicated for machine use.**

	Fuel (petrol) is extremely flammable, and its vapors can explode if ignited. Store petrol only in approved containers, in well-ventilated, unoccupied approved areas, and away from sparks or flames. Do not fill the fuel tank while the engine is hot or running. Do not start the engine near spilled fuel. Never use the fuel as a cleaning agent.
	Hot surface! Do not touch. Engine components can get extremely hot from operation. To prevent burns, do not touch the engine or related parts while the engine is running or immediately after it is turned off. Never operate the engine with any heat shields or guards removed.
	Keep all guards in place when operating any piece of equipment.
	Moving parts can crush and cut. Keep hands, feet, hair, and loose clothing away from all rotating parts.
	Lethal Exhaust Gas: use only in well ventilated areas. Engine exhaust gases contain poisonous carbon monoxide, which is odorless, colorless, and can cause death if inhaled. Avoid inhaling exhaust fumes and never run the engine in a closed building or confined area.
	Never tamper with the governor components of settings to increase the maximum speed. Severe personal injury and damage to the engine or equipment can result if operated at speed above maximum.
	Wear an approved life jacket Failure to wear an approved life jacket may result in serious injury or death in the event of a fall overboard, collision, or capsizing. Always wear a properly fitted life jacket and ensure all passengers do the same.

WARRANTY POLICY

Warranty is an assurance to the customer of a quality product. This warranty covers only manufacturing defects or defective parts within the specified warranty time line.

Engine: Two(2) years from the date of purchase.

Frame Parts: Three(3) months from the date of purchase.

Warranty Coverage:

- Repair or replacement of defective parts (free of charge) through authorized Honda dealers.
- Parts must be inspected at Honda-designated service points.
- Customer bears transportation costs to service location.

Exclusions:

- Consequential or incidental damages
- All other expressed or implied warranties

Honda's decision on warranty claims is final and binding.

Important: Before placing the equipment into operation, record the required machine and engine details for future reference.

MACHINE MODEL # :

MACHINE SERIAL # :

PURCHASE FROM :

STAMP

ENGINE MODEL # :

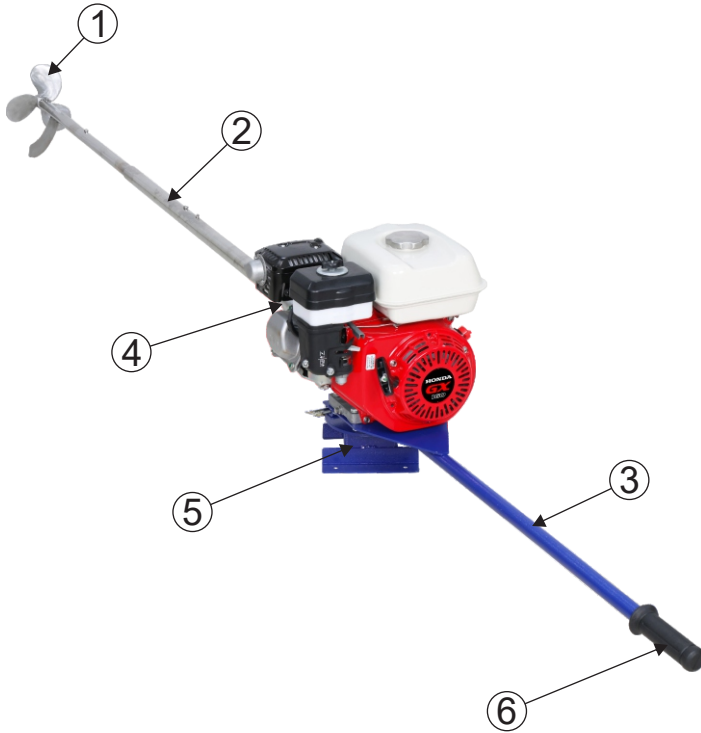
ENGINE SERIAL # :

PURCHASE DATE :

STAMP

Before using this equipment, make sure that the person using it has read and understands the instructions in this Owner's Manual.

MAIN COMPONENTS



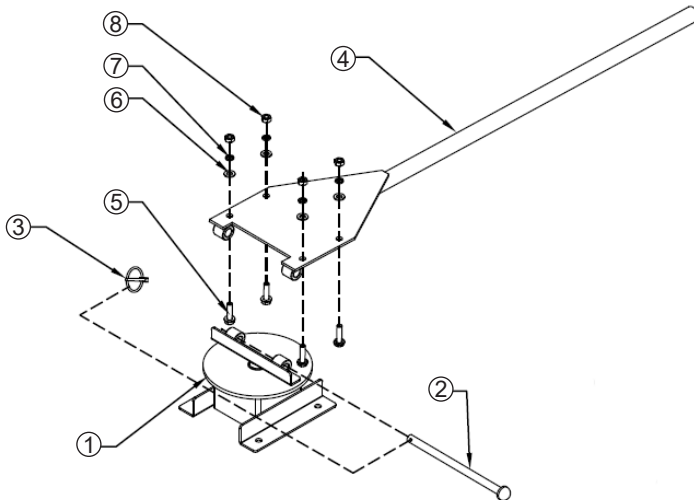
S.No.	Component	Function
1	Propeller	Generates thrust
2	Propeller Shaft	Transfers power
3	Handle	Steering control
4	Flange	Engine coupling
5	Engine Base	Engine support
6	Handle Grip	Operator control

INSTALLATION GUIDE

Note:

The illustrations, figures, and assembly drawings in this manual are adapted from the LTS80Q model and are provided for reference purposes only. While the general configuration and operating principles are similar, certain components, dimensions, and configurations may differ depending on the specific LTOBM model.

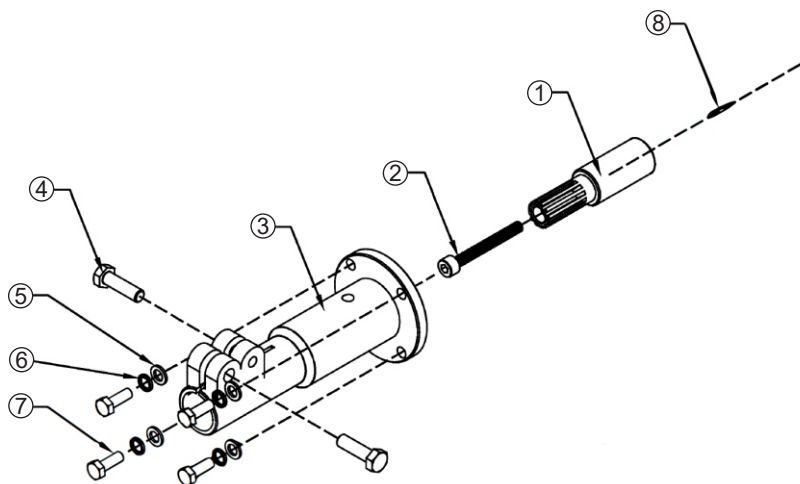
Boat Mount Along with Engine Base Assembly



S.No.	Part Name	Part No.	Qty.
1	Boat Mount	10003-LTS80-Q000-13	1
2	T-Rod	10003-LTS80-Q000-12	1
3	Linch Pin	BE1-BM-708	1
4	Engine Base with Handle	10002-LTS80-0000	1
5	M8 x 20 mm Hex Bolt	10003-LTS80-Q000-15	4
6	M8 Washer x 3 mm Thickness	10003-LTS80-Q000-16	4
7	M8 Spring Washer	10003-LTS80-Q000-18	4
8	M8 Nut	10003-LTS80-Q000-17	4

INSTALLATION GUIDE

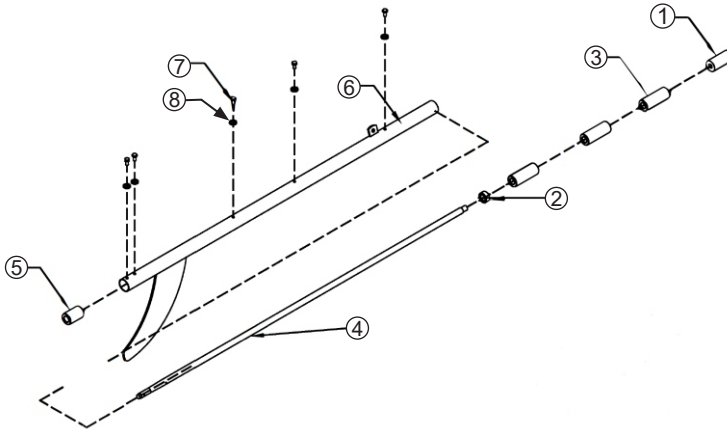
Flange Assembly



S.No.	Part Name	Part No.	Qty.
1	Spline GX80 (ID 15.80mm)	10003-LTS80-0000-14	1
2	1/4" UNF x 1" Allen Bolt	10003-LTS80-0000-28	1
3	Flange	10003-LTS80-0000-10	1
4	M10 x 35 mm Hex Bolt	10003-LTS80-0000-25	2
5	M8 Washer 16 x 3 mm Thickness	10003-LTS80-0000-23	4
6	M8 Spring Washer	10003-LTS80-0000-22	4
7	M8 x 25 mm Hex Bolt	10003-LTS80-0000-21	4
8	Key 4.76 x 30 mm	10003-LTS80-0000-29	1

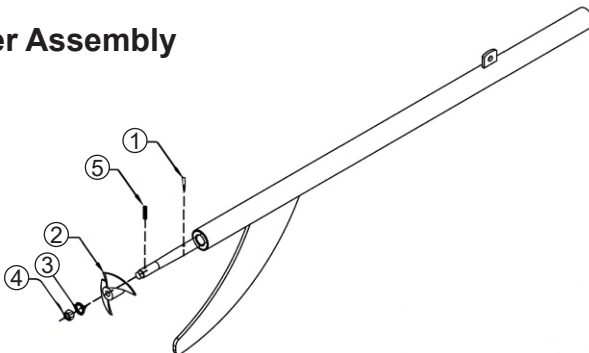
INSTALLATION GUIDE

Propeller Shaft Assembly



S.No.	Part Name	Part No.	Qty.
1	Spline Inner (Dia 28 x 60 mm)	BE-PS-507	1
2	Weld Bush (Dia 25 x 12 mm)	BE-PS-505	1
3	Wood Bush (Dia 28.5 x 75 mm)	BE-PS-504	3
4	Propeller Shaft	10003-LTS80-0000-00	1
5	Gun Metal Bush (Dia 28.5 x 45 mm)	BE-PS-503	1
6	SS Pipe	BE-PS-521	1
7	M6 x 10 mm Hex Bolt	BE-000-FS-001	5
8	M6 Spring Washer	BE-000-FS-002	5

Propeller Assembly



S.No.	Part Name	Part No.	Qty.
1	Dowel Pin 5 x 25 mm	10003-LTS80-0000-24	1
2	Propeller 6"	10003-LTS80-0000-11	1
3	SS M12 Spring Washer	10003-LTS80-0000-27	1
4	SS M12 Nut	10003-LTS80-0000-26	1
5	Cotter Pin	10003-LTS80-0000-29	1

PRE-OPERATION INSPECTION

Before every operation inspect. Do not operate the equipment until all inspection points are satisfactory.

- Clamp bracket secure
- Shaft rotates freely
- Propeller secure
- Propeller free from damage
- Bearings rotate smoothly
- Grease present
- No excessive shaft play
- Steering handle secure
- Fasteners tight

OPERATING GUIDELINES

- Ensure the propeller is fully submerged before starting the engine.
- Do not operate the propeller out of water for prolonged periods.
- Prevent contact with rocks or submerged obstacles during operation.
- Maintain engine speed within the recommended limits.
- Raise the tail assembly when navigating in shallow water.
- Monitor for abnormal vibrations or noise during operation.
- Ensure adequate lubrication before and during use.
- Do not overload the system beyond its rated capacity.
- Maintain a firm grip on the steering handle at all times.
- Stop the engine immediately in case of unusual performance or faults.

Starting Procedure

1. Inspect assembly.
2. Ensure boat is stable.
3. Submerge propeller.
4. Start engine according to engine manual.
5. Gradually apply throttle.

Shutdown Procedure

1. Reduce throttle.
2. Stop engine.
3. Raise tail assembly.
4. Inspect propeller.

MAINTENANCE SCHEDULE

S.No.	Interval	Maintenance
1	Before each use	Inspect propeller, clamps, shaft, fasteners
2	Every 25 hours	Lubricate* pivot points
3	Every 50 hours	Inspect bearings and shaft alignment
4	Every 100 hours	Replace grease, inspect seals
5	Every 300 hours	Replace worn bearings and seals if necessary

*Always use only the recommended genuine lubricants. Refer to the “TECHNICAL SPECIFICATION” page for the correct lubricant type and specifications.

TROUBLESHOOTING

Symptom	Possible Cause	Corrective Action
Excessive vibration	Bent propeller	Replace propeller
	Loose shaft	Tighten fasteners
Steering difficult	Dry pivot	Lubricate pivot
Noise from shaft	Bearing worn	Replace bearing
Shaft difficult to	Bent shaft	Replace shaft
Water leaking into bearing rotate	Damaged seal	Replace seal

TECHNICAL SPECIFICATION

Specifications

Description	GX80	GX160	GX200
Model	LTS80Q	LTS160Q LTS160L	LTS200Q LTS200L
Engine Type	4-Stroke Single Cylinder, OHV Petrol		
Displacement (cm ³)	79.7	163	196
Net Power (kW (hp) @ RPM)	1.5 (2.0) @ 3600	3.6 (4.8) @3600	4.3 (5.8) @ 3600
Fuel Tank Capacity (Ltr)	1.5	3.1	3.1
Oil Chamber Capacity (Ltr)	0.36	0.58	0.6
Recommended genuine lubricates	AP3 NLGI GREASE		

Dimensions

Parameter	LTS80Q	LTS160Q/160L	LTS200Q/200L
Length (mm)	2566	2870	2870
Width (mm)	342	362	362
Height (mm)	444	461	461
Dry Weight (kg)	23.5	28.5	28.5
Propeller Diameter (Inch)	5.5	6/8.5	6/8.5
Shaft Length (feet)	6	7	7

MEMO

HI+ PRODUCT RANGE



Power Weeder

Available Range: 4.3 kW (5.8hp)



Reaper

Available Range: 3.6 kW (4.8hp)



HTP Sprayer

Available Range: 1.5 kW(2hp)~3.6kW(4.8hp)



LTOBM

Available Range: 1.5 kW(2hp)~3.6kW(4.8hp)



Concrete Cutter

Available Range: 8.7 kW (11.7hp)



Concrete Vibrator

Available Range: 1.5 kW(2hp)~3.6kW(4.8hp)





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