

## PREFACE

This manual covers the construction, function and servicing procedures of the Honda BF20A/BF25A outboard motors.

Careful observance of these instructions will result in better, safer service work.

Illustrations in this manual are based primarily on the BF25A LRS.

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# SHOP MANUAL NEWS

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**HONDA  
OUTBOARD MOTOR  
BF20A · BF25A**

**Power Equipment**

News No.  
P/P-035

Issue Date  
September '94

## SOME PARTS OF CHANGES

Applicable information	Publication No.
BF20A · BF25A	66ZV700

## CHANGE LOCATIONS

P.12-21

### 8. BACKLASH ADJUSTMENT

#### • FORWARD GEAR

##### BEFORE MODIFICATION

- 3) Turn the vertical shaft right and left while pressing it down with approximately 5 kg (11.0 lb) of force and measure the backlash.

Standard	0.10–0.29 mm (0.004–0.011 in)
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- 4) If the backlash is too large, increase the forward gear shim thickness and recheck the backlash.  
If the backlash is too small, decrease the forward gear shim thickness and recheck the backlash.

P.12-22

#### • REVERSE GEAR

- 3) Turn the vertical shaft right and left while pressing it down with approximately 5 kg (11.0 lb) of force and measure the backlash.

Standard	0.10–0.39 mm (0.004–0.015 in)
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- 4) If the backlash is too large, increase the reverse gear shim thickness and recheck the backlash.  
If the backlash is too small, decrease the reverse gear shim thickness and recheck the backlash.

##### AFTER MODIFICATION

- 3) Turn the vertical shaft right and left while pressing it down with approximately 5 kg (11.0 lb) of force and measure the backlash.

$$\text{Backlash} = \text{Dial Gauges measures} \times \frac{17.43^{*1}}{23^{*2}}$$

\*1 The pinion gear radius of pitch circle

\*2 The special tools (07MGJ-0010100) lever-length

Standard	0.10–0.29 mm (0.004–0.011 in)
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- 4) If the backlash is too large, increase the forward gear shim thickness and recheck the backlash.  
If the backlash is too small, decrease the forward gear shim thickness and recheck the backlash.

Service limit	0.30 mm (0.012 in)
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- 3) Turn the vertical shaft right and left while pressing it down with approximately 5 kg (11.0 lb) of force and measure the backlash.

$$\text{Backlash} = \text{Dial Gauges measures} \times \frac{17.43}{23}$$

Standard	0.10–0.39 mm (0.004–0.015 in)
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- 4) If the backlash is too large, increase the reverse gear shim thickness and recheck the backlash.  
If the backlash is too small, decrease the reverse gear shim thickness and recheck the backlash.

Service limit	0.40 mm (0.016 in)
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# HONDA OUTBOARD MOTOR BF20A • BF25A

# SHOP MANUAL NEWS

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P/P-032

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August '94

## SOME PARTS OF CHANGES

Applicable information	Publication No.
BF20A • BF25A	66ZV700

## CHANGE LOCATIONS

The part numbers of the pin driver, 4mm and the special tool illustrations have been corrected as follows.

- Pin driver , 4mm

### BEFORE MODIFICATION

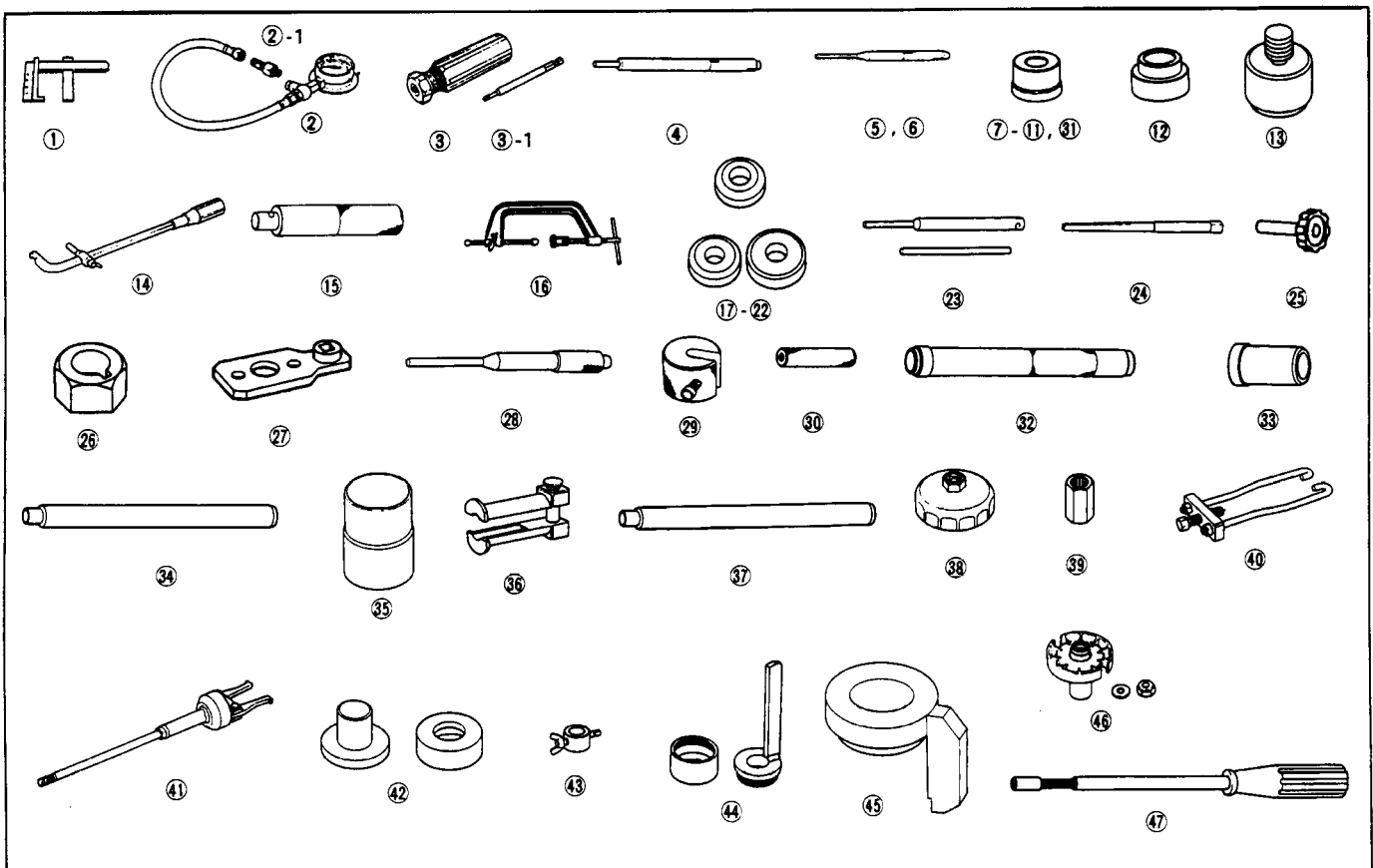
07944-9350200



### AFTER MODIFICATION

07744-0010300  
or 07944-SA00000

- Special tool illustrations



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