Paper book Part no.66ZV300

BF35A · 45A

PREFACE

This manual covers the construction, function and servicing procedure of the Honda BF35A•45A outboard motors. Careful observance of these instructions will result in better, safer service work.

Illustrations in this manual are based primarily on the $BF45A\ LRT.$

ALL INFORMATION, ILLUSTRATIONS, DIRECTIONS AND SPECIFICATIONS INCLUDED IN THIS PUBLICATION ARE BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF APPROVAL FOR PRINTING. HONDA MOTOR CO., LTD. RESERVES THE RIGHT TO MAKE CHANGES WITHOUT INCURRING ANY OBLIGATION WHATEVER. NO PART OF THIS PUBLICATION MAY BE REPRODUCED WITHOUT WRITTEN PERMISSION.

HONDA MOTOR CO., LTD. SERVICE PUBLICATIONS OFFICE

CONTENTS

SPECIFICATIONS	
SERVICE INFORMATION	
MAINTENANCE	
ENGINE COVER/THROTTLE/CHOKE	
FUEL SYSTEM	
FLYWHEEL/TIMING BELT	
ENGINE REMOVAL/INSTALLATION	
WATER JACKET COVER/THERMOSTAT/ THERMO SWITCH	
CYLINDER HEAD/VALVE/OIL PUMP	
CRANKCASE/CYLINDER BLOCK/ CRANKSHAFT/PISTON	f
PROPELLER/GEAR CASE/ EXTENSION CASE	
OIL PAN/PRIMARY GEAR CASE/ SWIVEL CASE	
GAS ASSIST/POWER TILT	•
STEERING ROD/REMOTE CONTROL BOX (REMOTE CONTROL TYPE ONLY)	
THROTTLE BRACKET/SHIFT LEVER/ HANDLEBAR (TILLER HANDLE TYPE ONLY)	ŕ
ELECTRICAL EQUIPMENT	ľ
OPERATION	ľ
BF35 - BF45 SUPPLEMENT	
BF40 - BF50 SUPPLEMENT	

6

SPECIFICATIONS

DIMENSIONS AND WEIGHTS

Unit: mm (in)

Model			BF35A BF45A					
Description code			.G (Short ty G (Long ty	•	BSAF (Short type), BLAF (Long type)			
Type	SH	LH	LR	LRT	SR	SR	LR	LRT
Overall length	*1: 725 *2: 1,05	(28.5) 9 (41.7)	685 (27.0)					
Overall width		370 (14.6)						
Overall height	1,255 (49.4)	1 360 (53 5)			1,255 (49.4) 1,360 (53.5			(53.5)
Dry weight	89 kg (196.2 lb)	91 kg (200.7 lb)	90 kg (198.5 lb)	92 kg (202.9 lb)	88 kg (194.0 lb)	90 kg (198.5 lb)	92 kg (202.9 lb)
Operating weight (incld. oil)	91.5 kg (201.8 lb)	93.5 kg (206.1 lb)	92.5 kg (204.0 lb)	94.5 kg (208.4 lb)	90.5 kg (200.0 lb)	92.5 kg (204.0 lb)	94.5 kg (208.4 lb)

^{*1:} With handlebar raised

FRAME

	Model		BF35A				BF45A		
	Туре	SH	LH	LR	LRT	SR	SR	LR	LRT
Transom height		416 mm (16.4 in)	52	l mm (20.	5 in)	416 mm	(16.4 in)	521 mm	(20.5 in)
Transom angle			5 stage adjustment (11.5°, 15.5°, 19.5°, 23.5°, 27.5°)						
Tilting angle		73°							
Swivel angle		37.5° right and left							
Trim angle					0-20°				0-20°

Model	BF35A				BF45A			
Туре	SH	LH	ĹR	LRT	SR	SR	LR	LRT
Shaft Length	S	L	L	L	S	S	L	L
Tiller Handle	Н	Н						
Remote Control			R	R	R	R	R	R
Gas Assisted Tilt	GAT	GAT	GAT		GAT	GAT	GAT	
Power Tilt/Trim				т				Т
Tachometer				•				*
Trim meter				*				*

- *: Standard Equipment
- · According to Shaft Length
 - S: Short Shaft
 - L: Long Shaft
- According to Control System
 - H: Tiller Handle Control
 - R: Remote Control
- According to tilt system
 - GAT: Gas-assisted Tilt (with gas damper assist function)
 - T: Power trim & tilt (with hydraulic assist function)

^{*2:} With handlebar extended

ENGINE

Model	BF35A	BF45A							
Туре	4-stroke, O.H	4-stroke, O.H.C, 3-cylinder							
Displacement	808 cm³ (-	49.4 cu in)							
Bore x stroke	70 x 70 mm	(2.8 x 2.8 in)							
Rated power *1	HP (26.1 kw)/4,600-5,600 min ⁻¹ (r.p.m.) 45 HP (33.6 kw)/5,000-6,000 min ⁻¹								
Maximum torque	6.0 kg-m (43.4 ft-lb) 3,500 min ⁻¹ (r.p.m.)	6.05 kg-m (43.8 ft-lb) 4,500 min ⁻¹ (r.p.m.)							
Compression ratio	9.2 : 1								
Fuel consumption ratio [g/PS•hr]	2	210							
Cooling system	Forced water circulation by impeller pump with thermostat								
Ignition system	CDI								
Ignition timing	5-32° B.T.D.C.								
Spark plug	DR7EA (NGK), X22ESR-U (NIPPONDENSO)								
Carburetor	Horizontal type, butterfly valve (3 carburetor)								
Lubrication system	Pressure lubrication by trochoid pump								
Lubrication capacity	2.4 ℓ (2.54 US qt, 2.11 Imp qt)								
Starter system	Electric	starter							
Stopping system	Grounding of	primary circuit							
Fuel	Regular automotive gasoline (86	pump octane; unleaded preferred)							
Fuel tank capacity	25 ℓ (6.6 US gal, 5.5 lmp gal)								
Fuel pump	Mechanical plunger type								
Exhaust system	Underwater type								
Recommended oil	SAE 10 V	N-30/40							

^{*1:} Full throttle r.p.m. range.

LOWER UNIT

Clutch	Dog clutch (Forward – Neutral – Reverse)				
Gear ratio	0.48 (26/33 x 14/23)				
Reduction	Spiral bevel				
Gear case oil capacity	0.52 ℓ (0.550 US qt, 0.458 Imp qt)				
Propeller No. of blades-Dia. x Pitch	3-286 x 330 mm (11-1/4 x 13.0 in)				
Propeller rotating direction	Clockwise (viewed from rear)				
Propeller driving system	Spline				