FORKLIFT

SERVICE MANUAL

HBF15, HBF18-3

HYUNDAI

MidWestTech | Hyundai HBF15, HBF18-3 Forklift Service Manual | Publication HBF15, HB...

Order the manual at mid-west-tech.com >

CONTENTS

SECTION 1 GENERAL

Group 1 Safety hints 1-1
Group 2 Specifications 1-5
Group 3 Periodic replacement 1-13

SECTION 2 REMOVAL & INSTALLATION

Group 1 Structure 2-1
Group 2 Removal and Installation of Unit 2-2

SECTION 3 POWER TRAIN SYSTEM

Group 1 Structure and operation 3-1
Group 2 Troubleshooting 3-4
Group 3 Disassembly and assembly 3-5

SECTION 4 BRAKE SYSTEM

Group 1 Structure and function 4-1
Group 2 Operational checks and troubleshooting 4-7
Group 3 Test and adjustment 4-10

SECTION 5 STEERING SYSTEM

Group 1 Structure and function 5-1
Group 2 Operational checks and troubleshooting 5-11
Group 3 Disassembly and assembly 5-13

SECTION 6 HYDRAULIC SYSTEM

Group 1 Structure and function 6-1
Group 2 Operational checks and troubleshooting 6-15
Group 3 Disassembly and assembly 6-19

SECTION 7 ELECTRICAL SYSTEM

Group 1 Component location 7-1
Group 2 Electrical circuit 7-2
Group 3 Electric components 7-4

MidWestTech | Hyundai HBF15, HBF18-3 Forklift Service Manual | Publication HBF15... Order the manual at mid-west-tech.com >

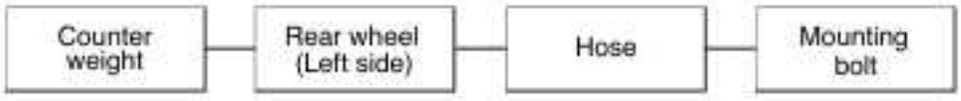
SECTION 8 MAST

Group 1 Structure 8-1
Group 2 Operational checks and troubleshooting 8-4
Group 3 Adjustment 8-7
Group 4 Removal and installation 8-10

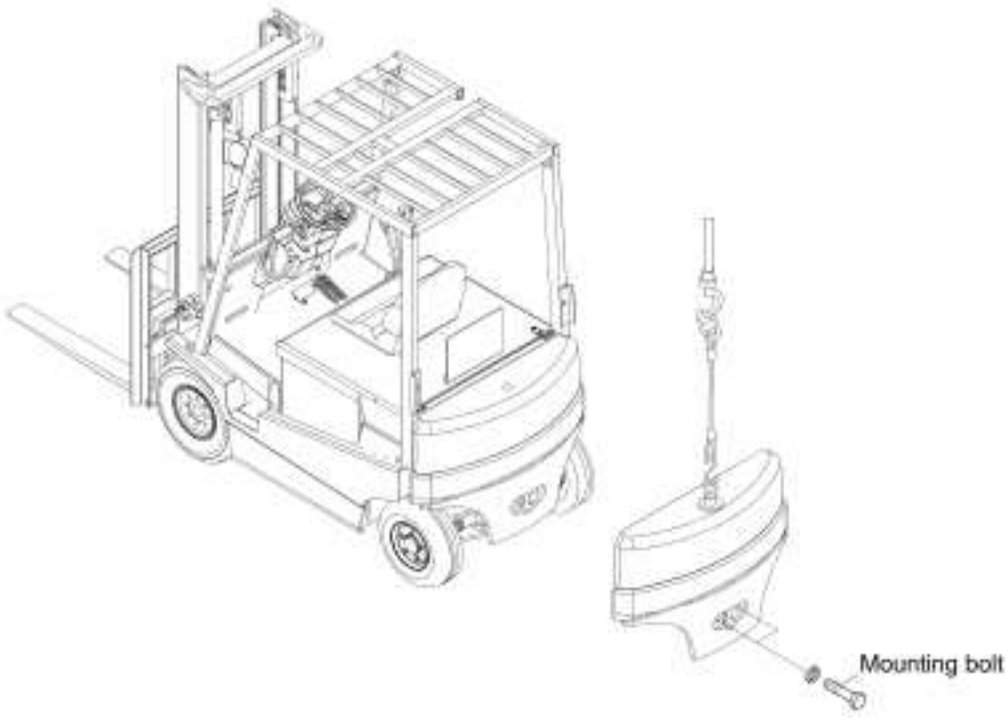
MidWestTech | Hyundai HBF15, HBF18-3 Forklift Service Manual | Publication HBF15... Order the manual at mid-west-tech.com >

6. REAR AXLE

1) REMOVAL



D35AFE37



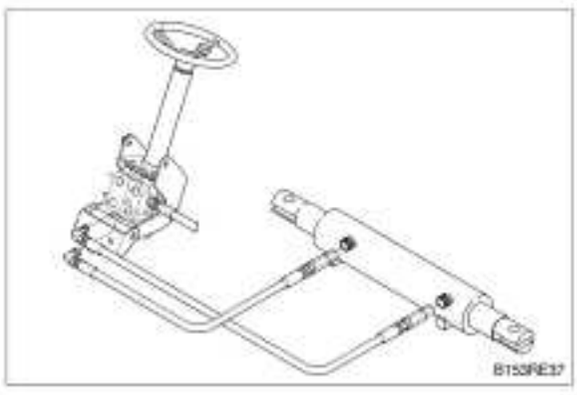
B153FE36

(1) Counterweight

Install a lifting tool in the counterweight, and raise with a crane.
Remove the mounting bolts, raise slightly and move to the rear.

- Weight of counterweight(standard)
  HBF15III : 680kg(1500lb)
  HBF18III : 870kg(1918lb)

(2) Hose



B153FE37

MidWestTech | Hyundai HBF15, HBF18-3 Forklift Service Manual | Publication HBF15... Order the manual at mid-west-tech.com >

2. TROUBLESHOOTING

1) MAST

Problem	cause	Remedy
Forks fail to lower.	· Deformed mast or carriage.	- Disassemble, repair or replace.
Fork fails to elevate	· Faulty hydraulic equipment.	- See troubleshooting hydraulic pump and cylinders in section 6, hydraulic system.
	· Deformed mast assembly.	- Disassemble mast and replace damag-ed parts or replace complete mast assembly.
Slow lifting speed and insufficient handling capacity.	· Faulty hydraulic equipment.	- See troubleshooting hydraulic pump and cylinders in section 6, hydraulic system.
	· Deformed mast assembly.	- Disassemble mast and replace damag-ed parts or replace complete mast assembly.
Mast fails to lift smoothly.	· Deformed masts or carriage.	- Disassembly, repair or replace.
	· Faulty hydraulic equipment.	- See Troubleshooting Hydraulic cylinders pump and control valve in section 6, hydraulic system.
	· Damaged load and side rollers.	- Replace.
	· Unequal chain tension between LH & RH sides.	- Adjust chains.
	· LH & RH mast inclination angles are unequal. (Mast assembly is twisted when tilted)	- Adjust tilt cylinder rods.
Abnormal noise is produced when mast is lifted and lower-ed.	· Broken load roller bearings.	- Replace.
	· Broken side roller bearings.	- Replace.
	· Deformed masts.	- Disassemble, repair or replace.
	· Bent lift cylinder rod.	- Replace.
	· Deformed carriage.	- Replace.
	· Broken sheave bearing.	- Replace.
Abnormal noise is produced during tilting operation.	· Insufficient lubrication of anchor pin, or worn bushing and pin.	- Lubricate or replace.
	· Bent tilt cylinder rod.	- Replace.

MidWestTech | Hyundai HBF15, HBF18-3 Forklift Service Manual | Publication HBF15... Order the manual at mid-west-tech.com >

(6) Remove 4 bolts on the drive side endbell, using L wrench.



(7) Remove armature and drive-side endbell by lifting up straightly.



Armature assembly, drive side endbell and field & frame assembly after disassembling from motor.



(8) Remove 4 bolts on the commutator side endbell.

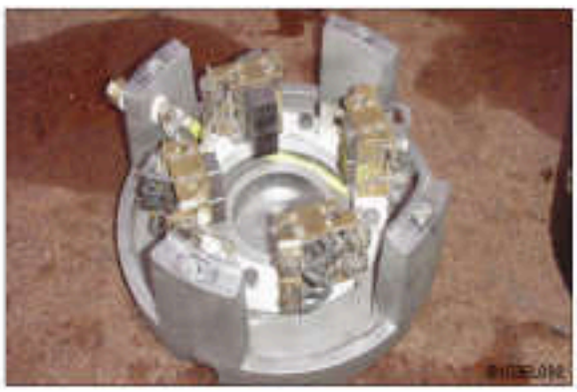


MidWestTech | Hyundai HBF15, HBF18-3 Forklift Service Manual | Publication HBF15... Order the manual at mid-west-tech.com >

(8) Remove 4 bolts on the commutator side endbell. (below)



① Brush holder assembly



② Frame and field assembly.



MidWestTech | Hyundai HBF15, HBF18-3 Forklift Service Manual | Publication HBF15... Order the manual at mid-west-tech.com >