



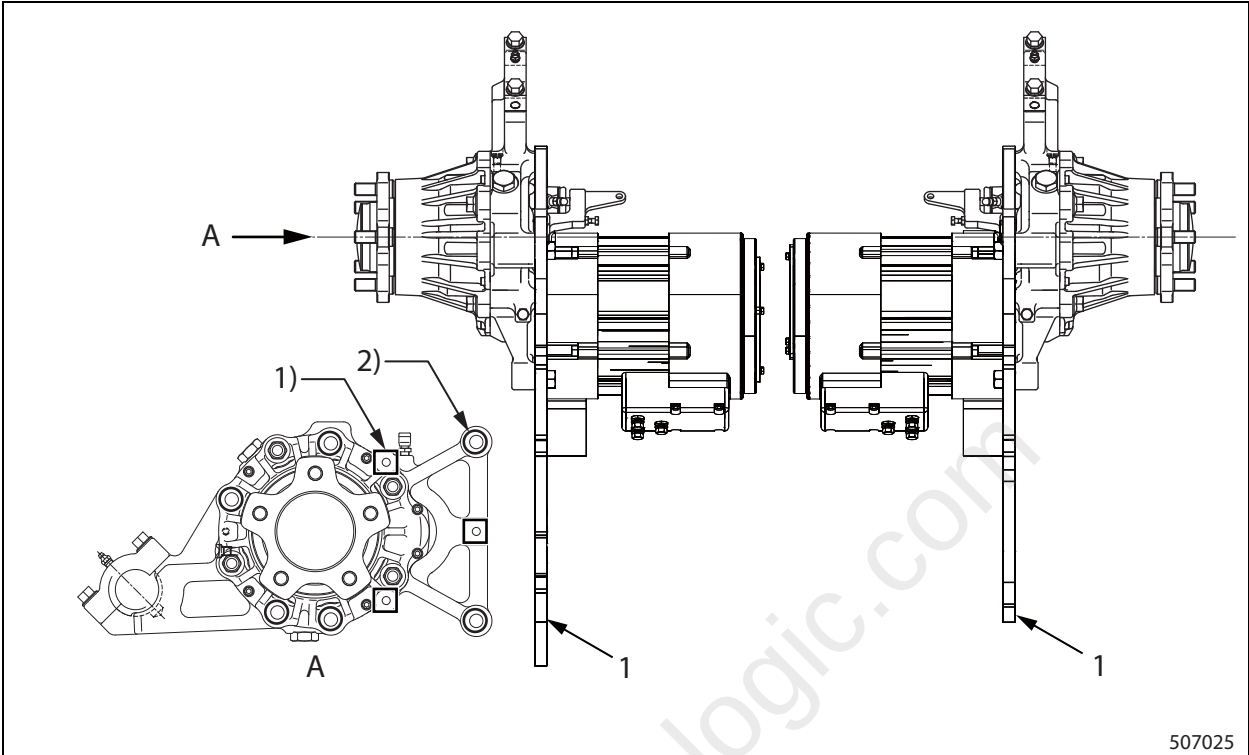
Service Manual

Chassis & Mast

FC/MC

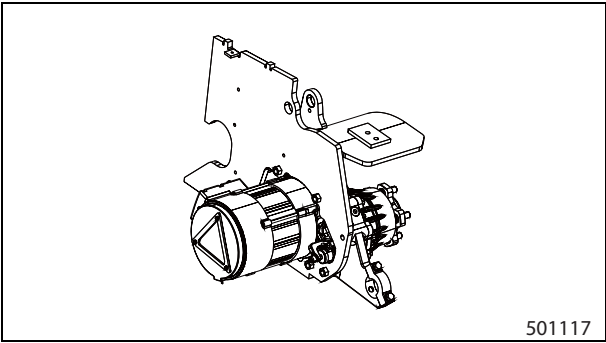
FB13PNT	EFB21-00011-01999 / EFB21-02001-49999
FB15PNT	EFB21-50011-51999 / EFB21-52001-99999
FB16CPNT	EFB22-00011-01999 / EFB22-02001-49999
FB18CPNT	EFB22-50011-51999 / EFB22-52001-99999
FB16PNT	EFB23-00011-01999 / EFB23-02001-49999
FB18PNT	EFB23-50011-51999 / EFB23-52001-99999
FB20PNT	EFB24-00011-01999 / EFB24-02001-99999

3. Removing Transfer Assemblies, Traction Motors



1. Frame
- 1) Motor mounting bolts, 3 places
2) Mounting bolt to the body, 6 places

- (1) Remove the mast assembly. See "MAST AND FORKS".
- (2) Remove all the electric wirings, solenoid brake cable, and hydraulic lines connected to the motor and transfer.
- (3) Hitch a sling to lift the motor. Wind the sling to prevent it from falling.
- (4) Place a jack under the transfer, and support the transfer with the jack.
- (5) Loosen the bolts that secure the transfer to the frame, and slightly pull the transfer with the jack away from the frame.
After making sure that the transfer can be pulled out horizontally, remove the bolts that secure the transfer to the frame, and remove the transfer with the jack from the frame.



Item	Value
Total weight of transfer, Traction motor	115 kg (253.5 lb)

Bleeder valve

- Replace the bleeder valve once a year.

Other parts

- Check the push rod assembly and boot for damage.

Air bleeding

Be sure to bleed the master cylinder of air in the following cases.

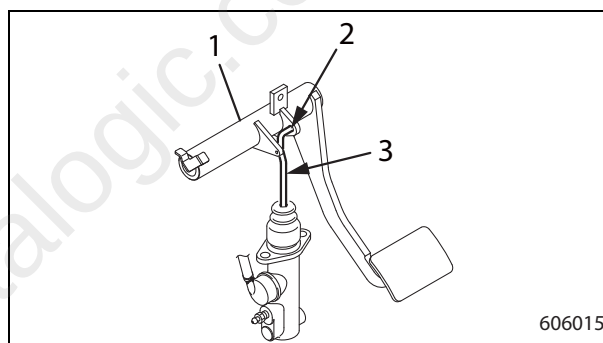
- After the master cylinder is disassembled for maintenance.
- When brake pedal movement is spongy.

⚠ CAUTION

- Use the specified brake oil [DOT-3] or [DOT-4]. Do not mix any mineral oil.
- Do not use any mineral oil as brake fluid.
- During the air bleeding, keep the brake oil level in the reserve tank by refilling.

- (1) Remove the original push rod from the master cylinder.
- (2) Loosen the bolt for pedal height adjustment.
- (3) Remove the brake microswitch.
- (4) Insert the special rod into the master cylinder, and fit the end into the link hole.

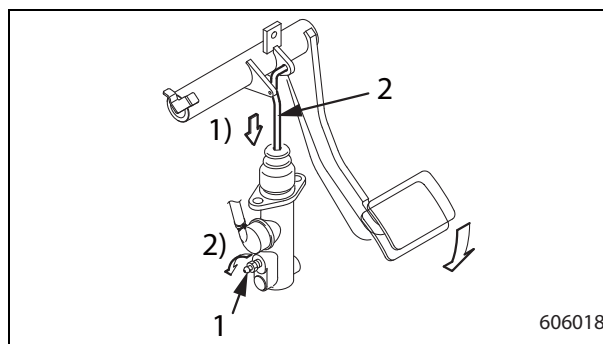
Note: To bleed air completely, the piston of the master cylinder must be pressed down to the bottom several times. The standard push rod is not long enough for this purpose. Therefore, use a special rod (longer one) instead.



1. Brake pedal
2. Link hole
3. Special rod

Tool name	Part number
Special rod	97967-00400

- (5) Tighten bleeder valve.
- (6) Fill the tank with brake fluid. Don't feed with pressure.
- (7) Loosen bleeder valve of master cylinder while pushing brake pedal.

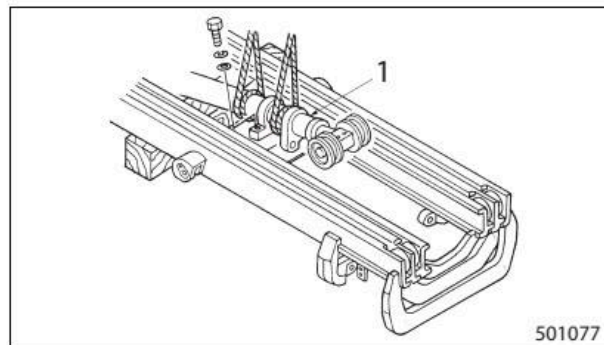


1. Bleeder valve
2. Special rod
- 1) Push
- 2) Loosen

9.2 Suggestions for Disassembly

Removing first lift cylinder

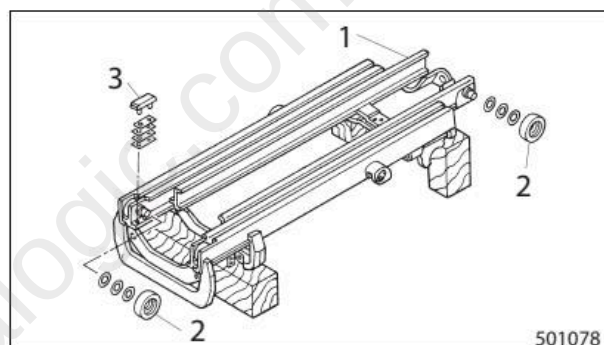
- (1) Remove retaining bolts from the first lift cylinder.
- (2) Hitch slings on lift cylinder, and slowly remove the cylinder.
Use two slings. Wind or tie slings securely to prevent from slipping.



1. First lift cylinder

Removing inner mast and main rollers

Lower the inner mast so that the main rollers can be removed. Remove main rollers and mast strips.

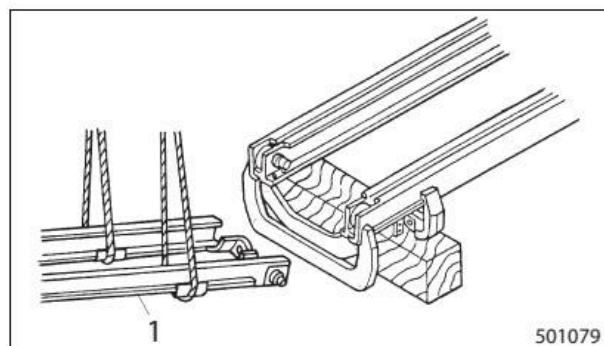


1. Inner mast
2. Main roller

3. Mast strip

Removing inner mast

Using slings, lift and remove the inner mast, steering it to pass over the roller shaft sections of the middle mast.



1. Inner mast

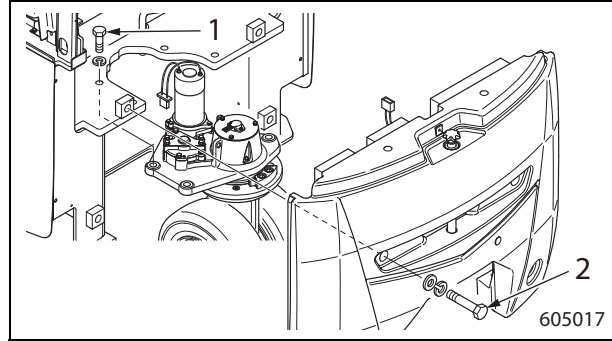
5. Installing Rear Axle

Installation

Follow the removal sequence in reverse.

During installation, conduct the following.

- Tighten the rear axle assembly mounting bolts to the specified torque.
- Tighten the counterweight mounting bolts to the specified torque.



Item		Bolt tightening torque
1	Rear axle assembly mounting bolts	162 to 198 N·m (17 to 21 kgf·m) [119.5 to 146 lbf·ft]
2	Counterweight mounting bolts	320 N·m (32.63 kgf·m) [236 lbf·ft]

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