

GENERAL

The rear axle is composed of two axles, a differential, a hitch and a differential protector.
Each axle contains an axle, a housing and two bearings.
At installation, use torque values and Loctite products from the exploded view. Clean threads before using Loctite products when installing screws.

REAR DIFFERENTIAL OIL LEVEL

Lift back of vehicle. Place swing arm horizontally. Clean filler plug prior to check oil level. Check oil level by removing filler plug. Oil level must reach lower edge.



1. Filling
Add oil if necessary.

MODEL	CAPACITY	RECOMMENDED OIL
All models	200 mL (8.76 U.S. qt)	REOLINE pump oil T5000 (API GL-5)

REAR DIFFERENTIAL OIL REPLACEMENT

Ensure vehicle is on a level surface.
Clean drain plug area.
Place a drain pan under rear differential drain plug area.

Unscrew filler plug.
Remove drain plug.



1. Drain
2. Filling
Clean drain plug area then reinstall drain plug.
Use a funnel and fill rear differential at the proper level with recommended oil.

MODEL	CAPACITY	RECOMMENDED OIL
All models	200 mL (8.76 U.S. qt)	REOLINE pump oil T5000 (API GL-5)

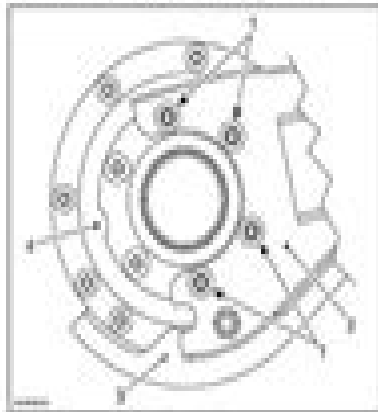
Reinstall filler plug.

REAR AXLE

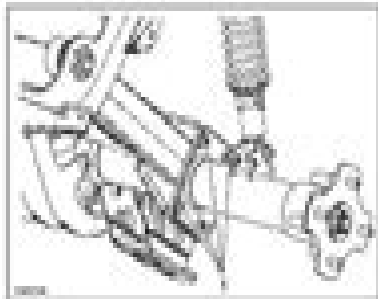
Removal

Lift rear of the vehicle until rear shock absorbers are fully extended. Install jack stands under frame to support vehicle.
Remove rear wheels.
Remove lower shock absorber bolts.
Remove rear brake-caliper and detach brake hose from bracket on rear axle.
CAUTION: Do not let caliper hang by the hose and don't stretch or twist brake hose.

Unscrew bolts no. 8 and no. 9 retaining rear axle to swing arm. See the following illustrations.



1. Axle
2. Housing
3. Swing arm
4. Differential protector
5. Rear differential



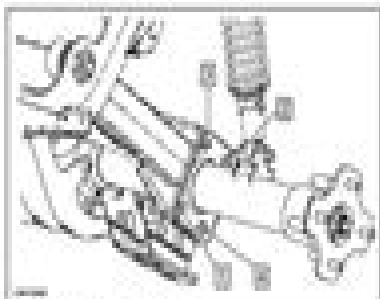
1. Axle
2. Housing
3. Swing arm
4. Differential protector
5. Rear differential

Detach rear axle from swing arm.

Installation

Installation is essentially the reverse of removal procedure. Paying attention to the following details.
Apply grease (RPV 200 STD 011) on the end of propeller shaft.
Install all bolts before torquing.
Install bolt no. 8 with Loctite 600.

On the LH side, torque the hexagonal bolts no. 8 in a cross-cross sequence. See the following illustrations.



1. Axle
2. Housing
3. Swing arm
4. Differential protector
5. Rear differential

RH AXLE

RH Axle Housing

Removal

Lift rear of the vehicle. Install jack stands under swing arm.
Remove:
- wheel and wheel nut
- cotter pin no. 10
NOTE: Discard the cotter pin. At the time of the installation, use a new cotter pin only.
- camshaft nut no. 11
- flat washer no. 12
- caliper

CAUTION: Do not let caliper hang by the hose and don't stretch or twist brake hose.
- rear differential protector no. 1
- lower bolt retaining RH shock from axle housing.
Unscrew 100% head screws no. 6 and no. 7 retaining RH axle housing no. 2 from rear differential.
Remove axle housing then pull out axle no. 3.

Inspection

Check axle housing for wear or other damage, replace if necessary.
Check axle for wear, cracks, bend, spots of rust, or other damage. Change the axle if any problem is detected.
Check of axle/housing ball bearings no. 10 for excess wear and smooth operation. Replace if necessary.

Manual Bombardier 580

**John Henry Comstock, Anna Botsford
Comstock**



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