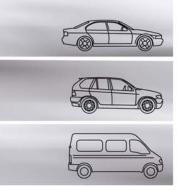




REAR BRAKES FORD C-MAX



HYDRAULIC CIRCUIT

BLEEDING

▶ Warning:

During bleeding, always pour new and clean brake fluid inside reservoir.

- Connect the bleed pipe to the bleed screw.
- Ensure the other end of the pipe is positioned in a catch reservoir containing a small amount of brake fluid.
- Position bowl bottom at least 300 mm above bleeding screw
- Loosen bleeding screw by half a turn.
- The best place to start brake bleed is furthest away from master cylinder. A pressure bleeder is recommended.

- Fill reservoir with brake fluid to the Max. mark.
- Continue pressing brake pedal until clean and air-free brake fluid is pumped into the catch reservoir.
- Once the pressure bleeding is complete and the air is out the system, tighten the bleed screw.
- Apply brake pressure using the foot brake and check for leaks.

► Warning:

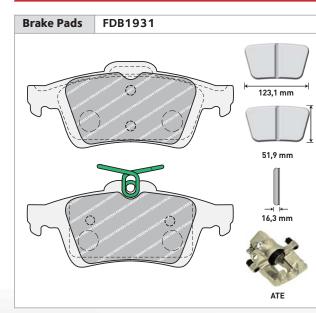
Ensure the bleed screw is tightened and the dust cap is replaced to prevent corrosion.

- Repeat the same procedure for the other brake lines.

BRAKE FLUID	
Product	DOT4
	Change and bleed every 2 years
Maintenance intervals	Level check every 20,000 Km/1 year
Inter vais	Visual check for leaks or rust every 20,000 Km/1 year

BRAKE FLU	JID DOT4	
FBX050	500 ml	FERODO
FBX100	1 lt	
FBX500	5 lt	
FBX2000	20 lt	

FERODO PART NOS.



Brake Discs	15" and 16" rims	17" rims
Series Part No.	DDF1226	DDF1227
Diameter (mm)	265.0	280.0
Thickness (mm)	11.0	11.0
Min. thickness (mm)	9.0	9.0

Note:

Besides on Ford C-Max, this type of ATE caliper is assembled also on some versions of:

- Ford Focus II/Tourneo Connect/Transit Connect
- Mazda 3/5
- Volvo C30/S40/V50

In co-operation with: Semantica automotive Srl



BRAKE PADS

REMOVAL

- Position vehicle onto lift. - Switch the vehicle off and remove the ke ignition.
- Remove rear wheels.
- Release park brake.
- Remove park brake cable (1) and caliper - Using the correct size spanner remove mounting bolts (4), and free the caliper f section .
- Remove outer (5) and inner (6) brake pad

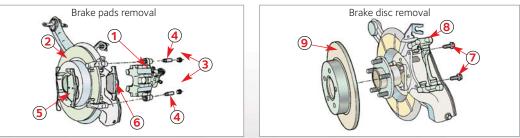
BRAKE DISC

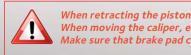
REMOVAL

- Position vehicle onto lift.
- Switch the vehicle off and remove the key from
- Remove rear wheels.
- Release park brake.
- Remove park brake cable and caliper retainer. - Using the correct size spanner remove the cali
- bolts, and free the caliper from the hub section
- Remove brake outer and inner pads.
- Remove brake caliper hose coupling.
- Loosen the caliper mounting bolts (7) a
- the caliper mounting bracket (8). - Remove brake disc (9) from hub.

REPLACEMENT

-Ensure the wheel hub is clean and corros that the disc surface is clean and smooth







FORD C-MAX REAR BRAKES

K RE	AR BRAKES	
key from the	 REPLACEMENT Retract the piston back into the caliper housing using the brake piston retraction tool. Fit outer brake pad on wheel side (without retaining clip). 	INSTALLA GUIDE
retainer (2). e the caliper from the hub ids.	 Fit inner brake pad on piston side (with retaining clip). Tighten brake caliper to mount retaining screws to a torque of 35 Nm. Adjust parking brake travel. Bleed hydraulic system (as indicated in the "Hydraulic Circuit" section). 	
m the ignition.	 Position brake disc onto hub by sliding it onto stud bolts. Using the correct specialist tool, push the caliper piston fully home into the caliper. Fit brake caliper mounting. Tighten brake caliper mount retaining screws to a torque of 70 Nm. 	
liper mounting on.	 Position the caliper in place and refit the Caliper mounting bolts. Fit the new outer brake pad on the wheel side of the hub. Fit the new inner brake pad on the piston side of the 	
and remove	 caliper. Tighten the brake caliper mounting bolts to a torque of 35 Nm. Tighten hose coupling to caliper to a torque of 15 Nm. Adjust park brake travel. 	
sion free and h	- Bleed hydraulic system (as indicated in the "Hydraulic Circuit" section).	

When retracting the piston back into the caliper housing, brake fluid is pushed into the reservoir. When moving the caliper, ensure the caliper is supported. Make sure that brake pad contact points are clean and free from any contamination.



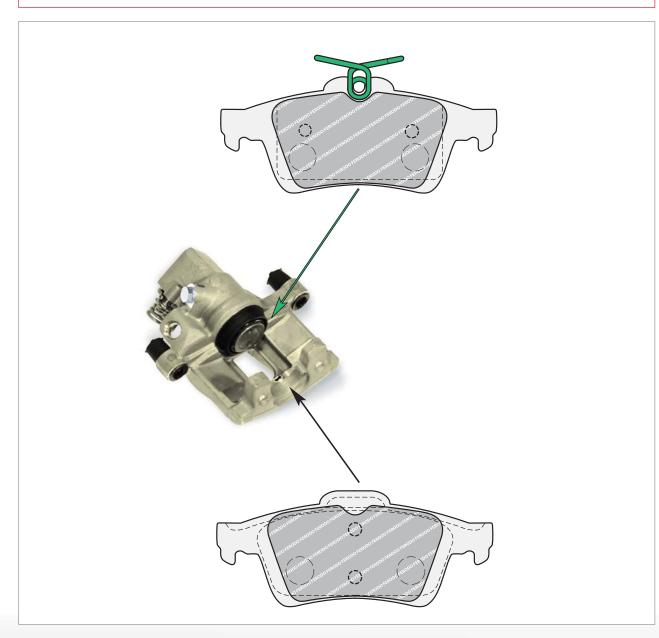
BRAKE PADS ASSEMBLY PRECAUTIONS



To ensure correct rear brake operation, it is critical to fit the brake pads correctly as per the diagram below. The rear pads if fitted wrong will give uneven wear, noise and poor performance.

The reason is that the caliper construction does not allow for the anti-rattle spring to fit in the outer edge of the caliper bridge and as such does not allow the pad to sit flat to the disc.

The inner pad will rattle when the brake is not being applied.



OPERATIONAL PRECAUTIONS

<u>/!</u>

Brake fluid is hygroscopic, and it should be changed at regular intervals. Do not use fluid which does not comply with the specifications indicated in the table. Take care not to let fluid accidentally drop onto painted, rubber, plastic and mechanical parts. Do not use brake fluid from a container that has been open for an extended period of time.

PARKING BRAKE ELECTRONIC PARK BRAKE OPERATION

Certain models may have been fitted with the optional Electric Park Brake system. This system includes a special key, a clutch p switch, a brake pedal switch, an emergency brake release mecha and an actuator positioned under the spare wheel compartmen The only user interface is the Electronic Park Brake Switch toggle which actuate the Park Brake.

The electronic park brake lock can be one of two types, namely static braking or dynamic braking:

during static braking, at a speed below 4 km/h or with the vehicle stopped, the key is pulled up shortly to lock brake;

during dynamic braking, at speeds above 4 km/h, the key is pulled up to achieve a gradual braking effect.

ADJUSTMENT

Procedure applying only to the mechanical parking brake. A diagnosis tool must be used for the Electronic Park Brake.

▶ Note:

Before adjusting a new or re-routed cable, make sure that the brake lever is completely released, and allow system settling in the four following steps:

▶ Step 1:

Tighten adjuster nut to a torque of 2 Nm.

Step 2:

Lift parking brake lever by twelve notches.

Step 3:

Release parking brake lever all the way down.

▶ Step 4

Loosen nut and slacken off until the end of the thread is reached.

1. Parking brake cable 2. Direct current motor 3. Parking brake module

4. Emergency wiring cable 5. Hollow shaft





lever.

Note:

- Disable the parking brake.

Insert a 0.7 feeler gauge between the parking brake lever and the cam assembly pin on both sides.

Step 1:

threading damage.

Step 2:

With the help of another operator, tighten the adjuster nut until a movement on one of the parking brake caliper levers can be visible.

- Remove the dust seal cover from the parking brake control

Failure to comply with these recommendations can lead to cable

- Make sure that the parking brake lever is fully released, and

- Make sure that parking brake cable is correctly routed.

Do not exceed the recommended torque of 2 Nm.

Do not turn the adjuster nut by more than 23 turns.

adjust the brake cable in the four following steps:

Remove feeler gauge.

Step 3:

Step 4: Spin the rear wheels and check if there is any brake hard point. Should this be the case, loosen the parking brake adjuster nut until threading end, clean the parking brake cables, and repeat the adjustment procedure.

- Fit the parking brake control lever dust seal cover.

