Blue Print Top Tip

Hyundai i40 Rear Brake Pad and Disc Replacement Procedure
Applicable References: ADG042127, ADG043179, ADG043181
Applications: Hyundai, i40 1.7CRDi
Date Issued: 08/2013

The i40 uses an electromechanical parking brake system similar to other popular manufacturers.

The following procedure is for changing rear brake pads and discs:

1. Carry out a braking system health check with regards to fluid level and condition, leaks, and check the operation of the parking and foot brakes.

   Note: It is advisable to connect a battery support unit as the parking brake motors draw a lot of current (approximately 14-20 amps) when in use.

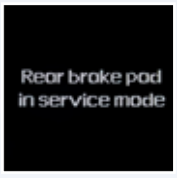
   With the ignition on, plug a Blue Print G-Scan or any other suitable diagnostic tool into the 16 pin diagnostic socket (figure 1) and check for fault codes in the EPB and ABS systems.

Figure 1.

2. With the vehicle raised, remove the rear wheels and check the condition of the brake hoses, parking brake motor cable and connections, and the rear brake pads and discs. The minimum disc thickness is 8.4 mm and the minimum rear brake pad thickness is 2.0 mm.

3. Perform the EPB motor wind-back procedure using the G-Scan; this function is found under Vehicle S/W Management and Actuation test (figure 2).

Figure 2.



Note: If you are performing an actuation test, you can view the 'Actuation Test' and 'Data Analysis' simultaneously, which is very useful for seeing the motor's current, just in case you have a sticking caliper slide. Once in service mode a dash message appears; leave the ignition on.

4. Remove the two 12mm headed bolts on the brake caliper and remove the caliper, carefully putting it to one side without putting excessive stress on the brake hose and motor wiring.

Figure 3.

5. There is no need to wind back the piston; it can just be pushed back (figure 3.)

6. Remove the old rear brake pads and retaining plates.

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7. In order to remove the caliper carrier (A), first remove a suspension link bolt (B). This will enable you to remove the two caliper carrier bolts (C) (figure 4.)

8. Remove the rear brake disc retaining screws and then the old brake disc. Clean the mating surfaces and degrease the new brake disc (where necessary) before fitting (figures 5 & 6).

Figure 4.


Figure 5.


Figure 6.

9. Refit the caliper carrier bolts, the suspension link bolt, and then fit the new brake pads and retaining plates – once this is done refit the brake caliper (figure 7.)

10. Finally, rewind the EPB motors and check the operation of the parking and foot brakes, which includes checking for fluid leaks. Then recheck for fault codes in the EPB and ABS systems, refit the wheels and torque wheel nuts to 88-108 Nm and road test.


Figure 7.

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