

# Valve body, replacing - MINI Cooper R56, R55, R57 (aisin 6 speed automatic transmission)

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Abstract: Replacing valve body, aisin 6-speed transmission

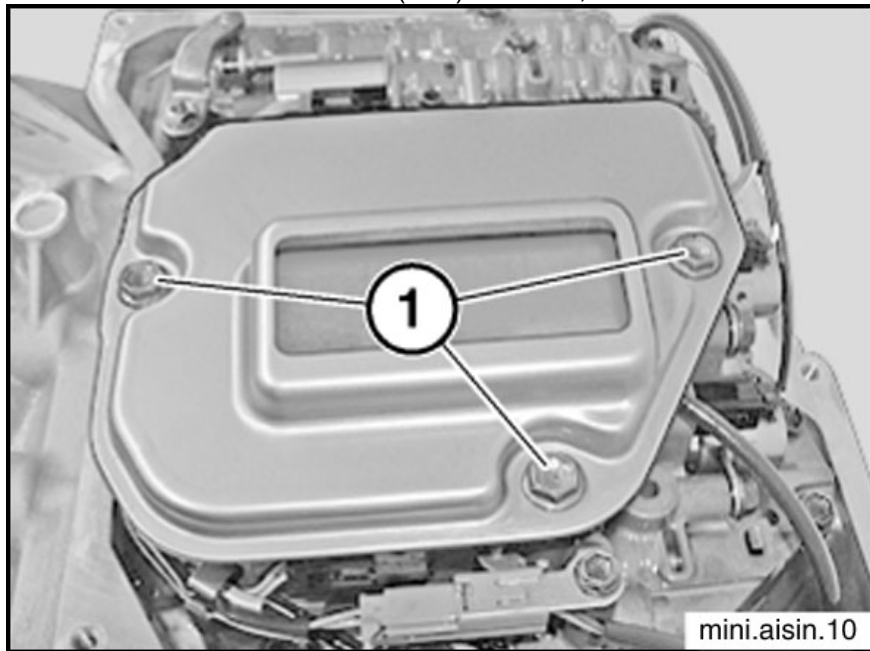
Applies to: MINI Cooper: 2007-2010 (R56, R55, R57)

- After completion of work, check transmission fluid level.
- Required fluid amount for refill after repair: 4.8 US quart (4.5 liters).

### Caution

Use MINI approved automatic transmission fluid.  
Do not drain transmission oil before transmission has cooled down.

- Drain transmission fluid into a suitable container.  
-To help with refilling, make a note of drained ATF quantity.
- Remove transmission fluid pan.
- Remove transmission oil strainer (filter) fasteners, then remove strainer.



- Bend open retaining lugs (1) of hand valve lever.  
Slacken nut (2).

**Before Performing any Work**  
Please read Warnings & Cautions before proceeding with any work on your vehicle

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**MINI Cooper Service Manual 2007-2013**

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Rough Idle, not HPFP related

HPFP cooper s compatibility

LOW Fuel Rail Pressure Key On Engine Off

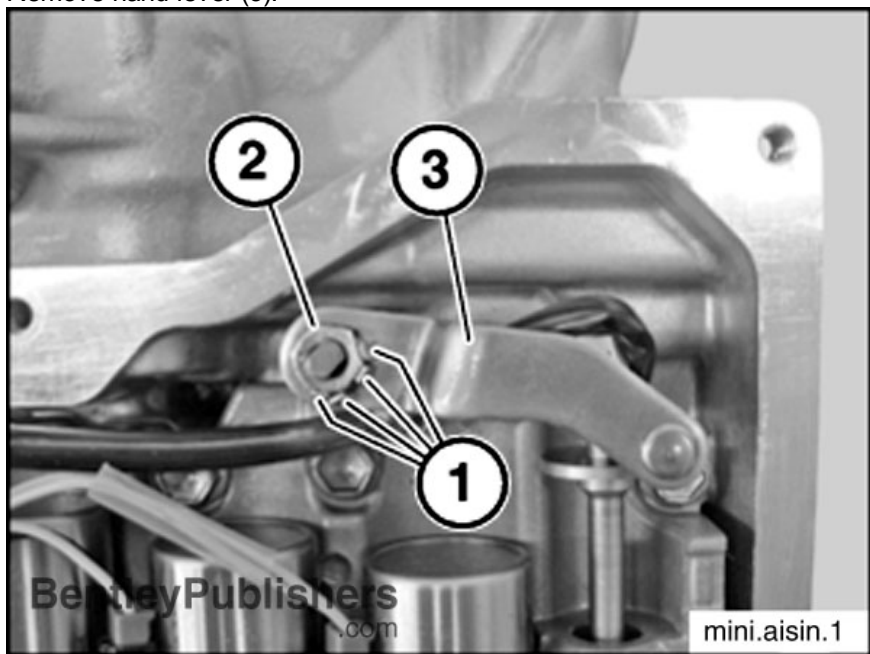
2014+ F56 / 2015+ F55

3 error codes and a possible HPFP issue!

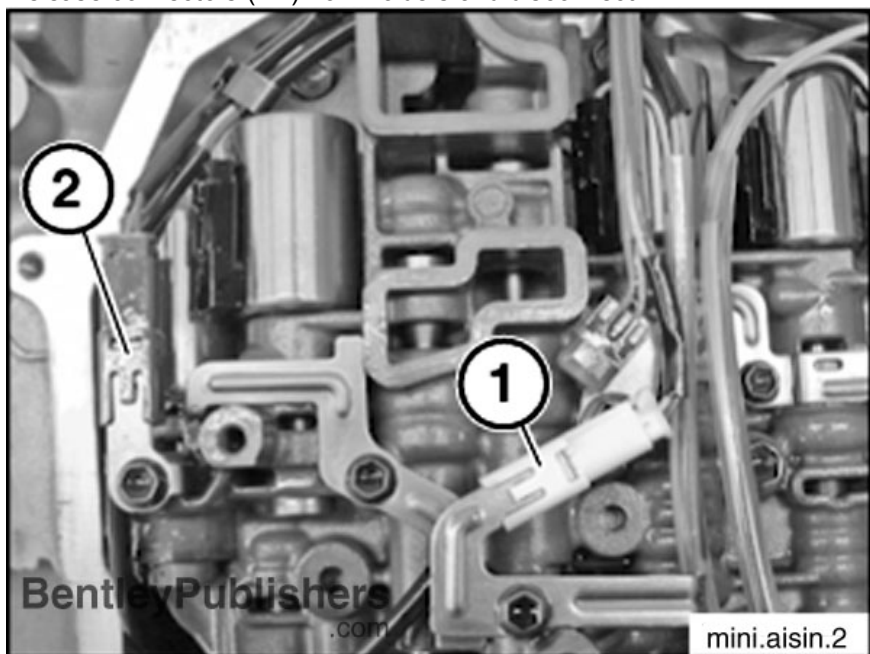
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- Remove hand lever (3).

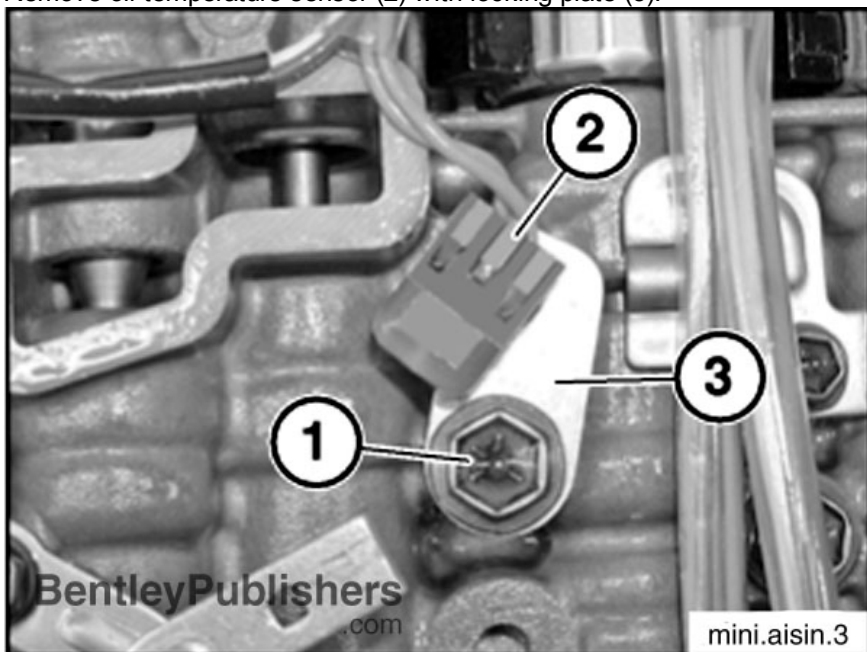


- Release connectors (1/2) from holders and disconnect.

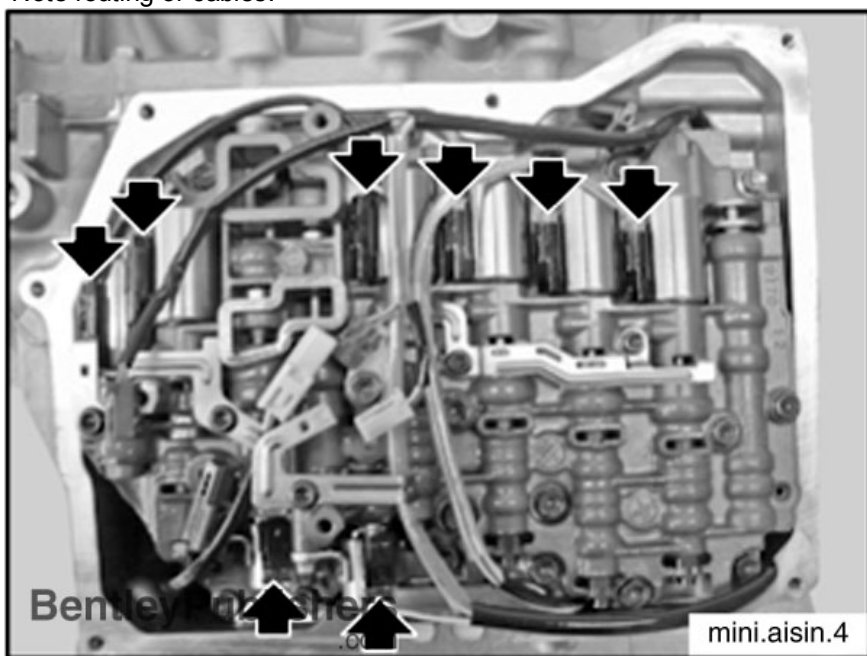


- Release screw (1).

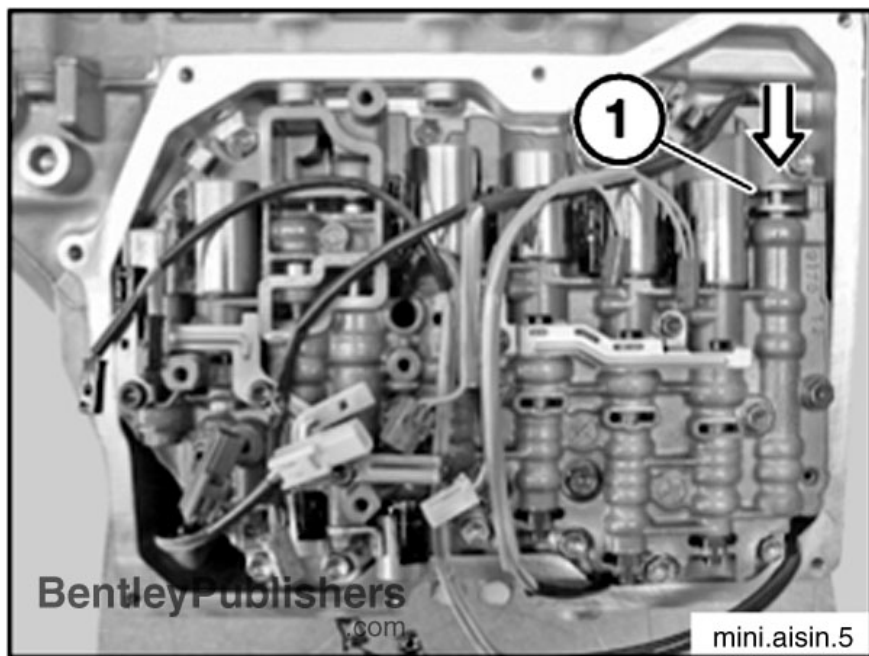
- Remove oil temperature sensor (2) with locking plate (3).



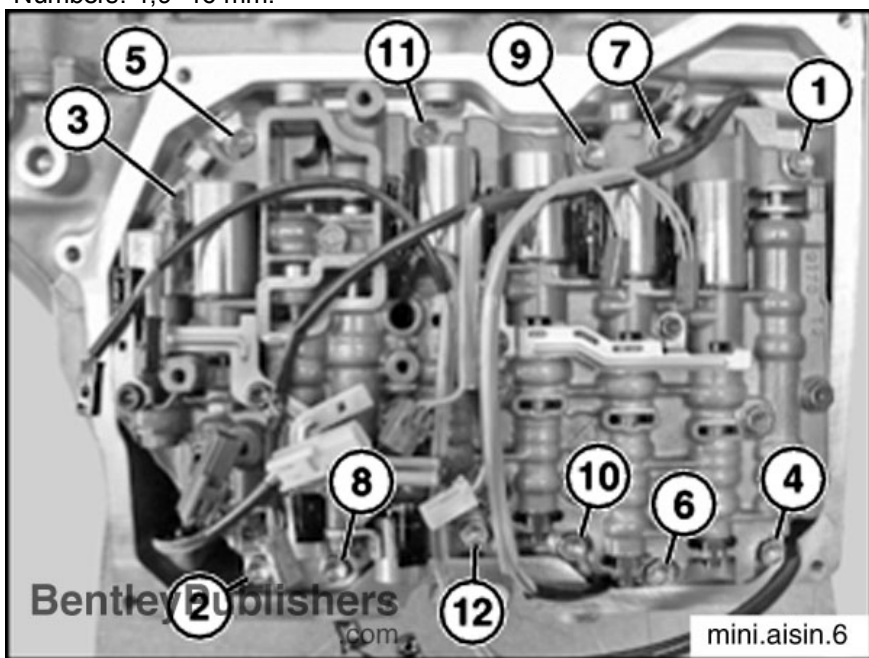
- Disconnect plugs of magnet and pressure valves.  
-Note routing of cables.



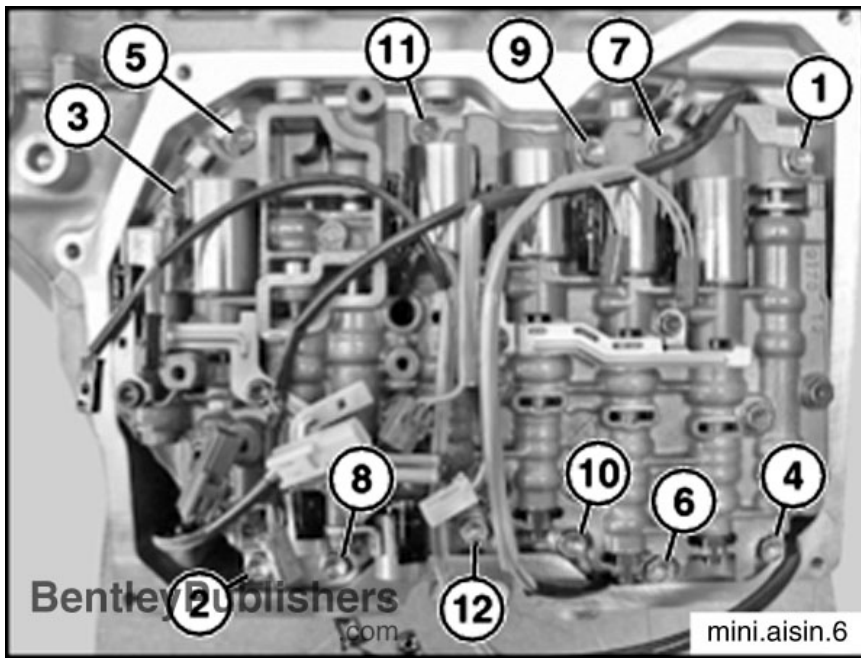
- When removing selector unit, slide in gear selector valve (1) and hold down.



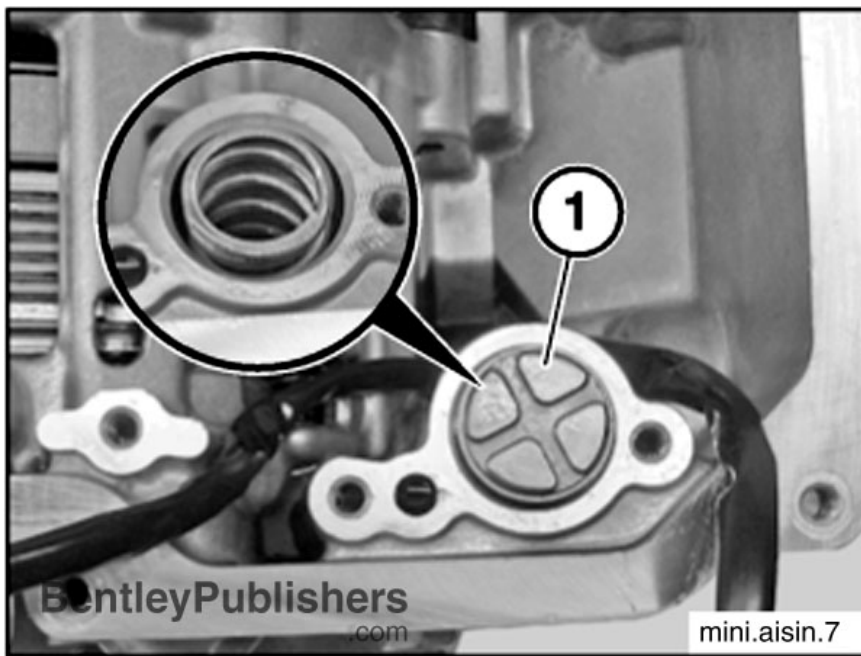
- Note screws have different lengths.
  - Numbers: 4,6,10,12=28 mm.
  - Numbers: 2,3,5,7,8,11=21 mm.
  - Numbers: 1,9=16 mm.



- First release screws uniformly in specified order and then remove.
- Remove selector unit.  
Note location of cable clip and cables.



- Under the selector unit at the end of the gear selector lever is the accumulator plunger (1) with spring.
- Hold accumulator plunger (1) and spring firmly when removing selector unit.

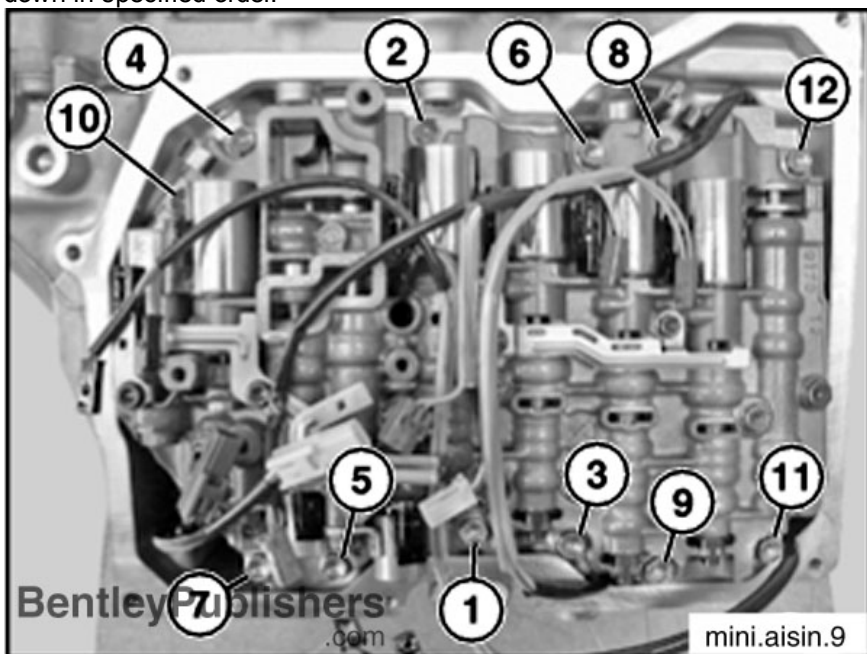


## Installing

- Moisten accumulator plunger and spring with ATF.
- Install selector unit, accumulator plunger and spring simultaneously.
- Before installing selector unit, secure cable with adhesive tape in installation location on housing.



- Insert screws slightly during installation, align selector unit and tighten down in specified order.



- Tightening torque and angle of rotation must be observed.

Tightening Torque	
Drain plug to transmission oil pan	27 Nm (20 ft-lb)
Oil filler plug to transmission housing	25 Nm (18.4 ft-lb)
Oil pan to transmission	8 Nm (6 ft-lb)
AISIN gear selector valve and oil temperature sensor	10 Nm (7.3 ft-lb)
Valve body to transmission	8 Nm (6 ft-lb) + 90 degrees

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