



# Technical Service Bulletin

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## 35 R-tronic: no gears can be selected, hydraulic pump runs constantly

35 17 26 2027842/2 June 8, 2017. Supersedes Technical Service Bulletin Group 35 number 11-04 dated November 22, 2011 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
R8	2008	All	R-tronic Transmission

## Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Required Parts and Tools</i> (Corrected part number)
1	11/22/2011	Initial publication

Customer may report on a R8 with R-tronic: Gears cannot be selected any more, basic settings are not possible, the hydraulic pump for the gearbox control unit runs permanently, and/or no pressure build-up in the system. Fault 06079 P17BF hydraulic pump free play protection stored in the TCM.

## Technical Background

### Three conditions may exist:

- External leak.
- Internal leak with hydraulic oil loss.
- Internal leak without hydraulic oil loss caused by damaged sealing elements. The damage is caused by poor deburring of the valve attachment ports in the hydraulic unit.

## Production Solution

Manual checking for burrs of valve ports from WUA\_\_\_42\_8N002760.

## Service

Check the hydraulic oil level through the right rear wheel.



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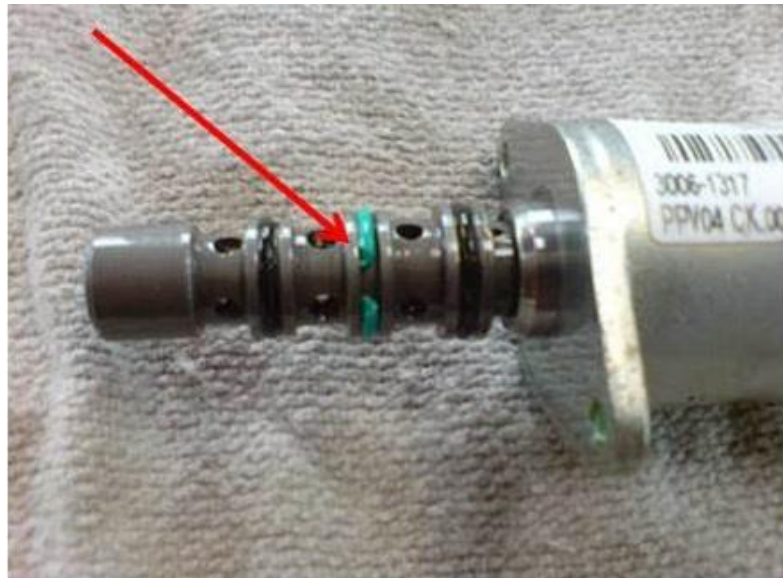
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1. If external hydraulic oil loss is visible, locate the cause by cleaning the affected parts and determining source of leak. If the leak can be assigned to the actuator, replace it according to the repair manual.
2. If no external leak is visible, but the hydraulic oil level is far below minimum, there is an internal leak. In this case, replace the actuator and change the oil of the main gearbox.
3. If no external leak is visible and the hydraulic oil level is correct, remove the air filter housing and take off the heat shield on the hydraulic unit. Take the pressure out of the hydraulic system with the guided functions. Remove the gear selection valves N286 and N285 (Figure 1).



*Figure 1. Gear selection valves N285 and N286.*

4. Check the O-rings of the solenoid unit. (Figure 2). If they are damaged, replace the complete hydraulic unit.



*Figure 2. Gear selection valve O-rings.*



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## Warranty

<b>Claim Type:</b>	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
<b>Service Number:</b>	3484		
<b>Damage Code:</b>	0050		
<b>Labor Operations:</b>	Check hydraulic oil level	3482 1999	50 TU
	<b>For vehicles with low fluid level and external fluid loss.</b>		
	Check and determine source of external leak if present.	3482 9999	A-time not to exceed 100 TU
	<b>For vehicles with low fluid level and no external fluid loss (internal).</b>		
	Replace internally leaking hydraulic actuator and change main gearbox fluid.	3484 5599	400 TU
	<b>Hydraulic fluid level correct and pump will not build pressure.</b>		
	Check solenoid O-rings for N286 and N285	3484 1999	50 TU
	Replace hydraulic actuator.	3484 1900	370 TU
<b>Diagnostic Time:</b>	GFF to relieve pressure from hydraulic system.	0150 0000	Time stated on diagnostic protocol (Max 50 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
<b>Claim Comment:</b>	As per TSB #2027842/2		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.



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## Required Parts and Tools

Part Number	Part Description	Quantity
086 398 163 B	Hydraulic Actuator	1
420 971 164	Wiring harness adapter for gear detection sensors.	2
G 004 000 M2	Oil for Hydraulic system	As needed

## Additional Information

All parts and service references provided in this TSB (2027842) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

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