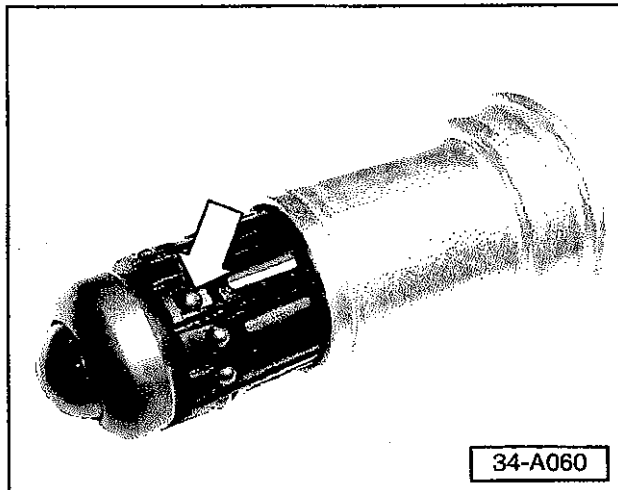



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Subject: Reverse Gear, Will Not Engage or is Hard to Engage
Group: 34
Number: 03-01
**Model(s): S4 with 0A3 Transmission
(Trans. code FVD)**
**2004 >
(see VIN Below)**
Date: Nov. 20, 2003


Condition

Reverse gear will not engage or is hard to engage.

- ◀ May be caused by a faulty selector cylinder locking bushing for reverse gear (cage for balls -arrow- jam in bushing or ball bearings have fallen out of the cage)

Production

Optimized selector cylinder locking bushings beginning transmission number 13799 and transmission production date 07.10.03. (From VIN: 8E_4A112878).

Service

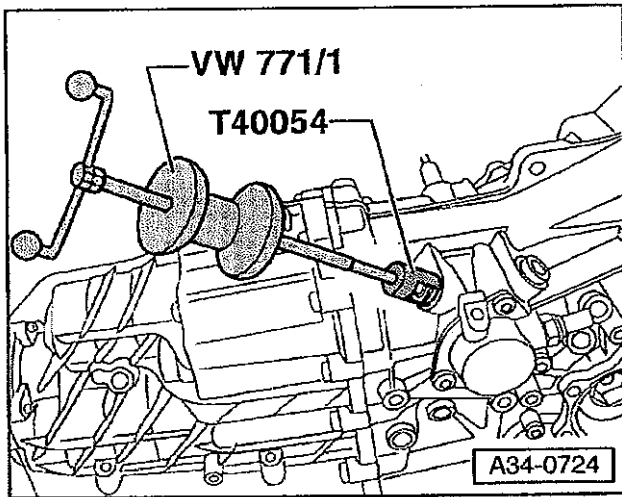
The selector cylinder locking bushing for reverse gear has the longest stroke, therefore the condition may occur more frequently on the reverse gear than any other gear.

- Check reverse gear selector cylinder locking bushing as follows:


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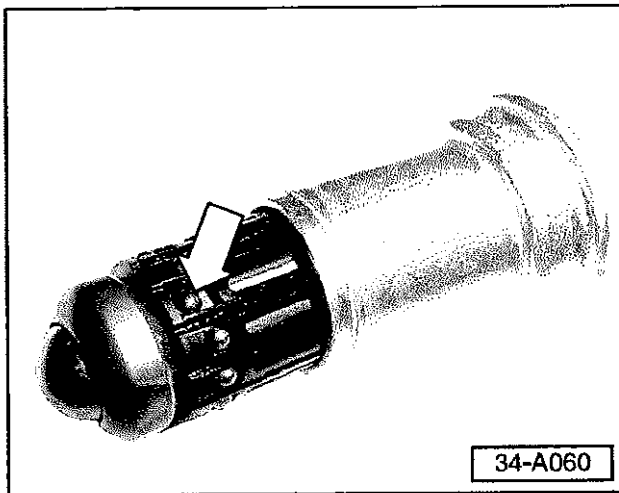
Selector cylinder locking bushing for reverse gear, removing

- Remove transmission (see Repair Manual Repair Group 34)
- ◀ - Carefully remove reverse gear selector cylinder locking bushing using special tool T40054 (for selector cylinder locking bushing above the selector shaft, T40050 can also be used) along with VW 771/1 (also see note).

See Repair Manual, Group 34 "Remove and install selector shaft with shift cylinder".

Note:

So the locking bushing does not come apart, special care should be taken (light taps with the slide hammer weight) when the end of the locking bushing nears the end of the housing.



Selector cylinder locking bushing, checking

- ◀ - Check whether any of the ball bearings (arrow) have fallen out of a damaged selector cylinder locking bushing and into the transmission.

If this is the case:

- Replace the transmission.

If all ball bearings are intact:

- Check whether reverse gear can be selected.

If reverse gear will not engage or is hard to engage.

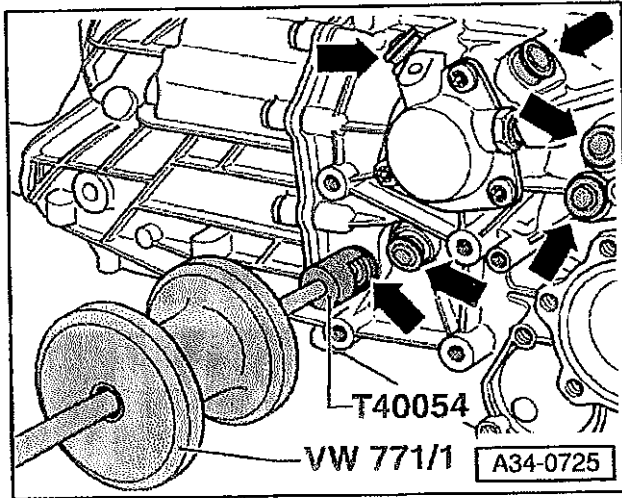
- ◆ Condition is not due to selector cylinder locking bushing(s).

- Continue to diagnose condition.


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If reverse gear is easy to engage.

- ◆ The reverse gear selector cylinder locking bushing is most likely the cause.

To prevent this condition from occurring on reverse gear or another gear at a later date:

- ◆ All 6 selector cylinder locking bushings (arrows) must be replaced.

See Repair Manual, Group 34 "Remove and install selector shaft with shift cylinder".

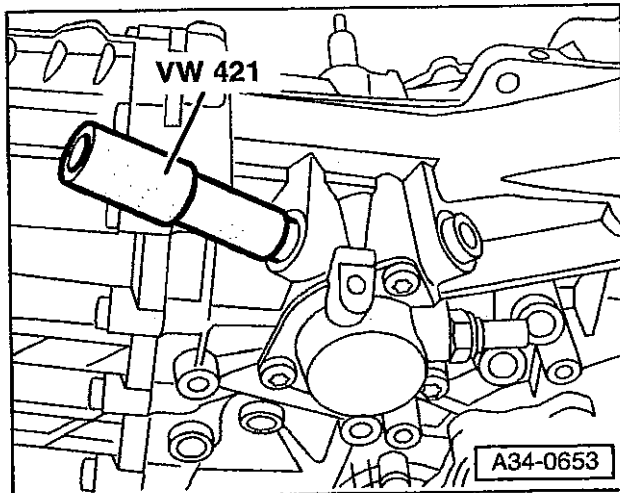
- Carefully remove selector cylinder locking bushings using special tool T40054 (for selector cylinder locking bushing above the selector shaft also T40050 can also be used) along with VW 771/1.

Note:

So the locking bushing does not come apart, special care should be taken (light taps with the slide hammer weight) when the end of the locking bushing nears the end of the housing.

Once all cylinder locking bushings have been removed:

- Check each bushing for missing ball bearings as described on page 2.



Selector cylinder locking bushing, installing

- ◆ Install 6 cylinder locking bushings Part No: 0A2 301 242A using special tool VW 421.
- Tap bushing in until fully seated.

CAUTION!

Part numbers are for reference only. Always check with your Parts Dept. for the latest parts information.

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Before installing transmission:

- Check all gears on the selector shaft for proper engagement.

When procedure applies to vehicles within the New Vehicle Limited Warranty, use the following:	
Part Identifier:	3516
Labor Operation:	
R & R Transmission	34351907 740 TU 35169999
Replace 6 Selector cylinder Locking Bushings	Maximum A-Time allowed 100 TU