

Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Routan	2009-2014	All	6 Spd Automatic (LGG)	All	All

### Condition

**37 13 02** July 19, 2013 **2021283** Supersedes T.B. V371001 dated July 8, 2010 to include additional model year applicability.

**Automatic Transmission, Determining Repair versus Replacement** 

## **Technical Background**

This bulletin provides a procedure to determine "**repair**" versus "**replacement**" of an automatic transmission. This procedure is to be used "**After**" the transmission has been removed from the vehicle.



#### Note:

Routan transmission concerns need to have faults diagnosed using the outlined diagnostic procedure in Repair Manual Group 37, located in ElsaWeb. If diagnosis leads to an internal failure, a leak down test must be performed, transmission removed, disassembled and inspected for damage, and a cost analysis performed. The repair/replacement procedure will follow the Volkswagen Group of America (VWGOA) 80% rule. Parts and labor of 81% or more to repair the transmission warrants a replacement.

Fill out the provided transmission diagnostic worksheet attachment and fax it to the Volkswagen Technician Helpline at 1-800-403-4710 or scan it and attach to your VTA ticket. Once the form has been sent, contact the Volkswagen Technician Helpline utilizing the VTA system.

Metal in transmission oil pan does not constitute replacement of the transmission, proper diagnosis is required.

### **Production Solution**

No production change required.

### **Service**



#### **Procedure**



Note:

For detailed information regarding disassembly and repair procedures, see Repair Manual Group 37 in ElsaWeb.

- 1. Remove fluid using approved automatic transmission fluid exchanger or equivalent.
- 2. Remove torque converter (keep with unit).
- 3. Measure input shaft end play.
- 4. Remove input speed sensor.
- 5. Remove pump assembly.
- 6. Remove input clutch assembly.
- 7. Remove front sun gear assembly.
- 8. Remove front carrier/rear annulus assembly.
- 9. If transmission damage is determined to be higher than 80% of the cost of a replacement transmission, follow steps 10 through 13.
- 10. Place #2 thrust bearing into transmission pan.
- 11. Reassemble transmission by reversing steps 4 through 8.
- 12. Return old torque converter using the same method used to ship to dealer. If service unit was received with the converter in a separate box within the transmission package, return the failed part in this manner. Otherwise, place converter into transmission and install shipping strap and bolts.
- 13. Return any loose items by placing in plastic bag and attaching to bell housing.



Note:

All parts must be returned with transmission.



## **Warranty**

Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VII	N Range From	VIN Range To		
Routan	2009-2014	All	6 Spd Automatic (LGG)	All		All		
	1	SAG	A Coding			1		
Claim Type:	aim Type:  Use applicable Claim Type 1)							
Service Number:	Damage Code		HST		Damage Location (Depends or Service No.)			
3735	00	10	2021283		Use applicable when indicated i ElsaWeb (L/R)			
Parts Manufacturer		Routan				USM		
Labor Operation 3): De	termine Prope	r Repair Path	37351999 = 80	TU				
		Diagn	ostic Time <sup>4)</sup>					
GFF Time expenditure 01500000 = 00			ax.	NO				
Road Test		01210002 = 00 TU 01210004 = 00 TU						
Technical Diagnosis	013200	000 = 00 TU m	NO					

<sup>1)</sup> Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only

<sup>&</sup>lt;sup>2)</sup> Code per warranty vendor code policy.

<sup>&</sup>lt;sup>3)</sup> Labor Time Units (TUs) are subject to change with ELSA updates.

<sup>&</sup>lt;sup>4)</sup> Documentation required per Warranty Policies and Procedures Manual.



## **Required Parts and Tools**

No Special Parts required.

For Special Tools see Group 37 Transmission in ElsaWeb.

### **Additional Information**



Using a non-approved Automatic Transmission Fluid (ATF) may result in shifting concerns, and clutch discs may suffer from premature wear resulting in a non-warrantable failure of the transmission.

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.



## **Routan Automatic Transmission Diagnostic Checksheet**

Dealer Name		Dealer Code			Date					
Technician Name		Phone/Cell			WRO					
Last 8 Digits of VIN Mileag		ige	e Repeat Complaint?			No	_			
Customer Complaint									_	
Technician Verificati	on_									
Check all that apply  Does Not Occur			Slips	Late or Delayed	Early	Harsh Shudder		Search	n Busy Stalls	;
Engagement into Drive Engagement into Reverse 1-2 Upshift 2-3 Upshift 3-4 Upshift 4-5 Upshift		se								
5-6 Upshift 6-5 Downshift										
5-4 Downshift 4-3 Downshift 3-2 Downshift 2-1 Downshift Kickdown/WOT Acceleration (indicate gears ie 3-2)		ation								
Converter Lockup  When does this Perfe	orm	lance Related Concern oc	cur? Please c	heck all that app	oly.		1	<b> </b>	<u> </u>	
Always		At idle	Braking	Braking High		altitude		On severe incline/grade		
Intermittent		Part throttle	Corner	Cornering Extr		mely hot (above 90° F)		Gear selector position		
Trans cold		Wide open throttle	Unable	to duplicate	Extren	nely cold (below	/ 10° F)	Autostick only?		
Leaks: When Noise Concern / Circ Which Occurs:		Buzz N		nine Still	Where	In Gear		Rattle Out	of Gear	
Fluid Level: Corr	ect	Low_		High	Co	ndition: No	ormal		Burnt	_
Clutch Volumes:	L/R	2C/2-4	OD	4C	UD	LC	DC_		R	
Shift Lever Status Te	st:	Passed		Failed						
Fault Codes Before R	Repa			Park Reverse	re	Gauge	Scan	Tool	Desired	
TCM Part Number:				Drive			1			
Cooler Pressure Test	Re	sults:								
Cooler Flow Rate:										
		ry installed devices or mo No	difications to	the vehicle (CB	radio, axle rati	o changes, tire s	size changes,	heavy elec	trical draw	
If yes, please describ	e_									
Is this a taxi, fleet or	del	ivery vehicle? Y	es	_ No_						
TECHNICIAN DIAGNO	OSIS	:								