

Technical Service Bulletin



01 MIL on (P1545, P0121, P0123, P0221 or P0222 stored in ECM)

01 13 70 2018260/6 February 22, 2013. Supersedes Technical Service Bulletin Group 97 number 10-06 dated June 4, 2010 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6	2005-2008	All	3.2 FSI
A4	2005-2008	All	2.0 and 3.2 FSI
A4 Cabrio	2007-2008	All	2.0T
TT	2008	All	2.0
A3	2006-2009	All	2.0
Q7	2007-2009	All	3.6

Condition

REVISION HISTORY		
Revision	Date	Purpose
6	-	Revised <i>Required Parts and Tools</i> (Updated parts)
5	6/4/2010	Revised header data (Controlling TSB display in ElsaWeb)
4	12/1/2008	Revised header data to add model Revised Title
3	11/20/2008	Revised Title to include Repair Group

- MIL on.
- A number of incident memory entries with regard to the throttle valve are stored in the ECM. In most cases, the entries are sporadic.
The most frequent incident memory entries are:
 - **P1545** (throttle control malfunction)
 - **P0121** (throttle potentiometer – G69 implausible signal)
 - **P0123** (throttle potentiometer – G69 signal too big)
 - **P0221** (angle transmitter 2 for throttle actuator G188 implausible signal)
 - **P0222** (angle transmitter 2 for throttle actuator G188 signal too small)

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Technical Background

Contact resistance in the ECM wiring – throttle valve.

Production Solution

Optimized wiring and contacts.

Service

Wiring Harness and Connector Repairs, General Information

- Observe general notes for repairs on the vehicle electrical system chapter of the repair manual. See *Repair Manual >> Electrical System >> Electrical Equipment General Information >> Wiring 97*.
- For repairs on vehicle electrical system, soldering is not permitted.
- Do not repair crimp connectors. If necessary, lay a wire parallel to the inoperative wire.
- After crimping, crimp connections must be heat-shrunk using hot air gun to prevent moisture penetration.
- Yellow wires are to be used exclusively for wiring harness repairs.
- Mark repaired areas using yellow adhesive tape.
- Yellow wires and areas in the wiring harness wrapped with yellow adhesive tape mark a previously performed repair.
- Perform a function test after each repair. If necessary, check DTC memory, erase and/or bring systems into basic setting.

Procedure

1. With the ignition switched off, disconnect battery ground (GND) cable. See *Repair Manual >> Electrical Equipment >> Repair Group 27 >> Battery*. Disconnecting battery ground wire is necessary to work safely on the vehicle electrical system.



Warning:

The above step must be completed to ensure safety during the repair. Also, observe all country-specific regulations.

2. Use the applicable repair manual in Elsa in addition to the description below. Check ETKA to determine if you need set 1 or set 2.

For terminal 3 and 5 use 1.0qmm wire. For all other 0.5qmm.

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3. Lengthen wires and preassemble seals as shown (Figure 1).

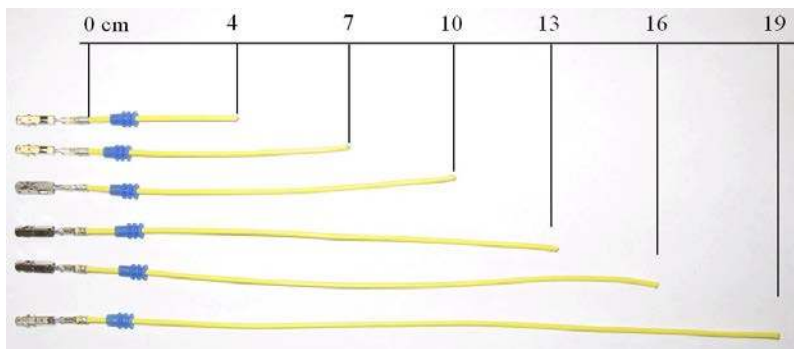


Figure 1. Correctly preassembled wires and seals.

4. On the new housing, remove pink lock with small flathead screwdriver, using the slot on the pink lock (Figure 2).



Figure 2. The slot to be used to remove the pink lock.

5. Insert all terminals into housing until they audibly click.
6. Reinstall pink lock.
7. Using the appropriate assembly tool, slide the single wire seal up the repair wire until it contacts the housing. Continue to slide the single wire seal into the housing as far as the stop (Figure 3).

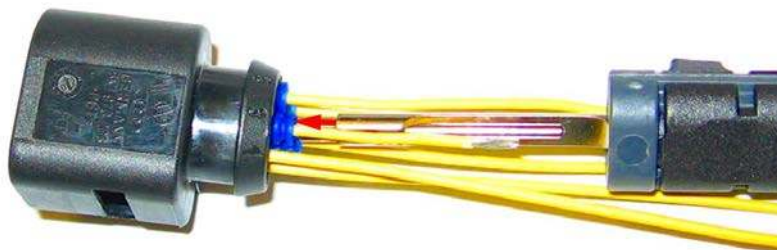


Figure 3. The single wire seal, slid as far as the stop.

8. Strip wires 6-7mm using tool VAS 1978/3. Install crimp connectors using crimping pliers (base tool) -VAS 1978/1-2 with the head VAS 1978/1-1 (Figure 4).



Figure 4. Crimp connectors installed on wire ends.

9. Remove car harness insulation to the appropriate length (approximately 24cm).
10. Lay new harness beside the old harness. Cut original wires to fit the new harness.
11. Twist wires 3 and 5 and 1, 2, 4 and 6 as they were originally.
12. Crimp connections.
13. Use shrink tip for hot air gun (VAS 1978/15) with hot air gun 220 V/ 50 Hz (VAS 1978/14) to shrink the shrink tubes.



Note:

When heat-shrinking crimp connections, be careful not to damage any other wiring, plastic parts or insulating material with the hot nozzle of the hot air gun.

Always observe operating instructions of heat gun.

14. Re-insulate harness with yellow tape.
15. Check proper function. If necessary, check DTC memory, erase and/or bring systems into basic setting.



Note:

Only if faults reoccur after the repair is the main throttle allowed to be replaced.

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Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	9713		
Damage Code:	0040		
Labor Operations:	Repair wire harness for engine	9752 4199	110 TU
Diagnostic Time:	GFF	No allowance	0 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)		
Claim Comment:	As per TSB #2018260/6		

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	Quantity	Quantity
		2.0L	3.2L	3.6L
5N1973206	Housing (set 1)	1	1	
000979025D	Wires set 0.5qmm	1	1	
000979150EA	Wire set 1.0qmm	1	1	
1J0973713	Housing (set 2)	1	0	1
000979038D	Wires set 0.5qmm	1	0	1
000979131EA	Wire set 1.0qmm	1	0	1
111971941A	Connectors with shrink tube (used with either set)	6	6	6
4B0972740	Wire seals (used with either set)	6	6	6

NOTE: Please verify correct housing and associated wire set in ETKA with specific VIN.

Tool Number	Tool Description
VAS 1978/3	Strip pliers
VAS 1978/1-2 VAS 1978/1-1	Crimp pliers
VAS 1978/15	Hot air gun

Additional Information

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