



# Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
(A5) Jetta, Rabbit, GTI, Passat, Passat Wagon, Eos	2006-2008	2.0L (BPY)	All	All	All
All	2008-2009	2.0L (CCTA, CBFA)	All	All	All

## Condition

01 16 12 July 19, 2016 2018652 Supersedes T. B. V011214 dated April 27, 2012 to update the warranty table service number.

### MIL ON, DTCs P1545, P0121, P0123, P0221 or P0222 Stored in ECM Fault Memory

Malfunction indicator lamp in instrument cluster is illuminated.

A number of incident memory entries with regard to the throttle valve are stored in the ECM. In most cases, the entries are sporadic.

DTC	Description
P1545	Throttle valve control system malfunction
P0121	Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance
P0123	Throttle/Pedal Position Sensor/Switch "A" Circuit High
P0221	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance
P0222	Throttle/Pedal Position Sensor/Switch "B" Circuit Low

## Technical Background

Contact resistance in the ECM wiring – throttle valve.



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## Production Solution

Optimized wiring and contacts.

## Service

### Wiring Harness and Connector Repairs, General Information

#### Tip:

Observe general notes for repairs of vehicle electrical system, see Repair group 97 Wiring in Elsa.

DO NOT solder repairs on vehicle electrical system.

DO NOT repair crimp connectors. If necessary, over lay a wire parallel to inoperative wire.

After crimping a repair connection, 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 wiring harness wrapped with yellow adhesive tape identify 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

- Switch Ignition OFF.
- Disconnect battery ground (GND) cable, see Repair Manual Group 27 in Elsa.

#### **WARNING:**

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



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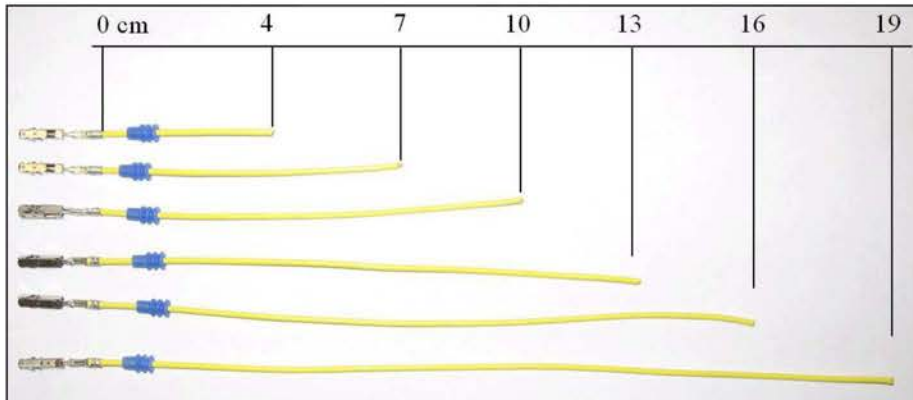


Figure 1. *Correctly preassembled wires and seals.*

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.

- Lengthen wires and preassemble seals according to Figure 1.



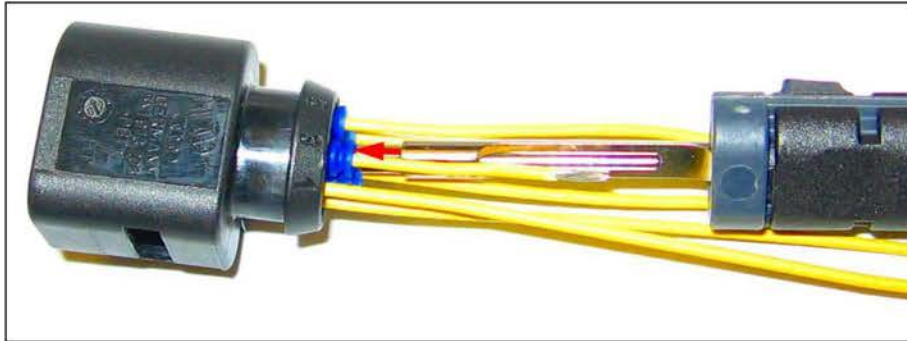
- Release lock on new wiring harness end connector housing using small flathead screwdriver. Use slot marked in Figure 2.
- Insert all terminals into housing until they audibly click.
- Reinstall lock.

Figure 2. *Slot to be used to remove lock.*



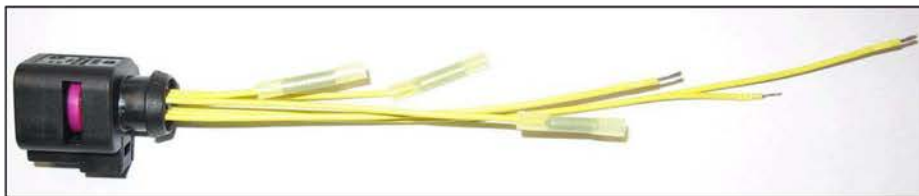
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**Figure 3.** The single wire seal, slid as far as the stop

- Using an appropriate assembly tool, slide the single wire seal up repair wire until it contacts housing. Continue to slide seal into housing as far as the stop (Figure 3).



**Figure 4.** Crimp connectors installed on wire ends

- Strip wires 6-7mm using tool VAS 1978/3. Install crimp connectors using crimping pliers (base tool) -VAS 1978/1-2 with head VAS 1978/1-1 (Figure 4).
- Remove car harness insulation to appropriate length (approximately 24cm).
- Lay new harness beside old harness. Cut original wires to fit new harness.
- Twist wires 3 and 5 and 1, 2, 4 and 6 as they were originally.
- Crimp connections.
- Use shrink tip (VAS 1978/15) with hot air gun 220 V/ 50 Hz (VAS 1978/14) to complete installation of shrink tubes.

**⚠ Note:**

When heat-shrinking crimp connections, care must be taken not to damage any other wiring, plastic components or insulating material with hot nozzle of heat gun. Always observe operating instructions of heat gun.

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

**⚠ Note:**

If faults reoccur after repair, replace main throttle.



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## Warranty

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual <sup>1)</sup>					
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(A5) Jetta, Rabbit, GTI, Passat, Passat Wagon, Eos	2006-2008	2.0L (BPY)	All	All	All
All	2008-2009	2.0L (CCTA, CBFA)	All	All	All
Claim Type:	Use applicable Claim Type <sup>1)</sup>				
<b>SAGA Coding</b>					
Service Number:	Damage Code	Damage Location (Depends on Service No.)	Parts Manufacturer (removed part)		
9752	0040	Use applicable when indicated in Elsa (L/R)	WWO <sup>2)</sup> European Manufacture		
9752	0040	Use applicable when indicated in Elsa (L/R)	3ME <sup>2)</sup> Mexico Manufacture		
Labor Operation <sup>3)</sup> :	97524199 = 90 TU				
<b>Diagnostic Time <sup>4)</sup></b>					
GFF Time expenditure	01500000 = 20 TU max.			YES	
Road Test	01210004 = 10 TU			YES	
Technical Diagnosis	01320000 = 00 TU max.			NO	
Claim Comment: Input "As per Technical Bulletin 2018652" in comment section of Warranty Claim.					
<sup>1)</sup> Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only <sup>2)</sup> Code per warranty vendor code policy. <sup>3)</sup> Labor Time Units (TUs) are subject to change with Elsa updates. <sup>4)</sup> Documentation required per Warranty Policy & Procedures Manual.					



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## Required Parts and Tools

**!** **Note:**

Verify correct housing and associated wire set in ETKA with specific VIN.

Part Description	Part No:	Quantity
Housing (set 1)	4H0-973-713	1
Wires set with terminals come only in set of 5 but with terminals on both ends (set 1)	000-979-025-FA	5
Housing (set 2)	1J0-973-713	1
Wires set with terminals come only in set of 5 but with terminals on both ends (set 2)	000-979-038-FA	5
Connectors with shrink tube (used with either set)	000-979-940	6
Wire seals (used with either set)	4B0-972-740	6

Tool Description	Tool No:
Strip pliers	VAS 1978/3
Crimp pliers	VAS 1978/1-2 - VAS 1978/1-1
Hot air gun	VAS 1978/15



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## Additional Information

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.

Document Control Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2018652/5	7/19/16	V011612	Update Service Number in warranty table.
2018652/1	9/18/08	V010825	Original publication.