

Competitor Page

Practical task no. 3 **Maintenance and repair of car lighting and alarm systems**

Task: Check the operation and adjustment of the car's lighting and alarm systems and devices, explain and eliminate faults.

Used car: Vw Golf V

Task progress:

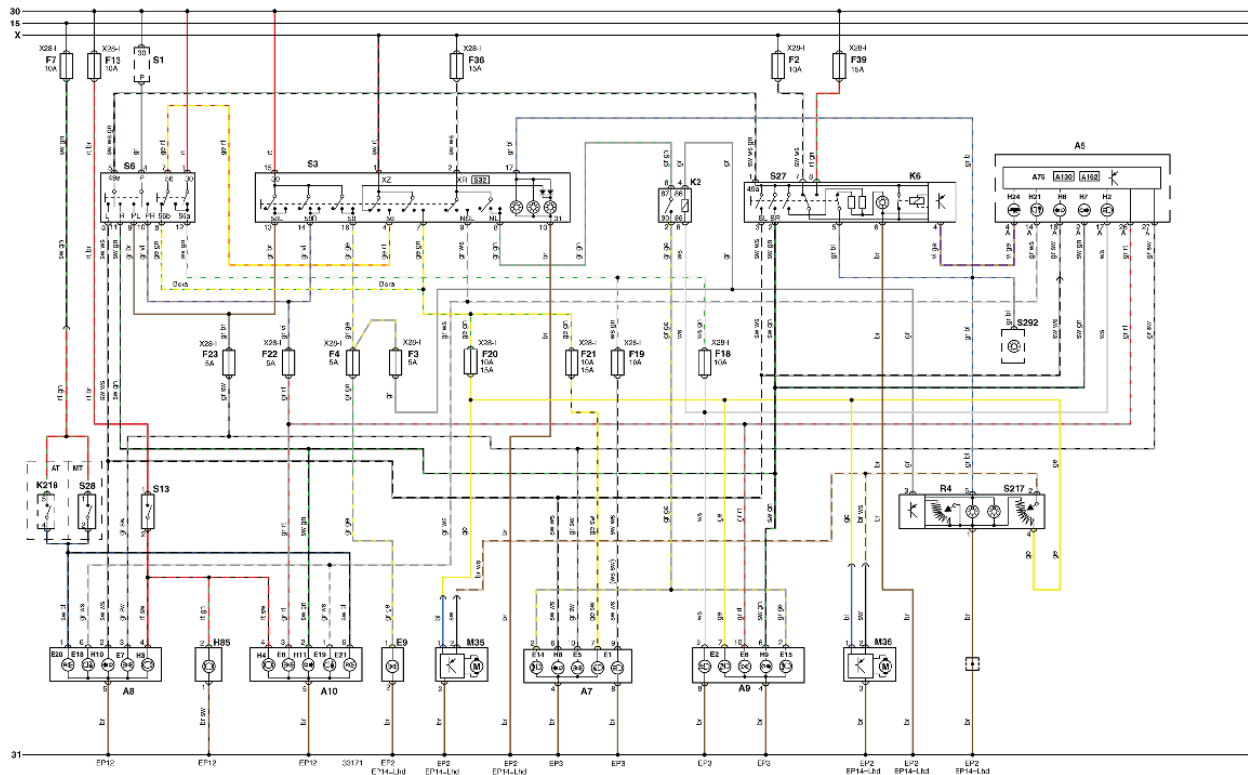
- ✓ Check the operation of the car's lighting and alarm systems and devices. (YOU MAY ASK THE JUDGE TO HELP WITH „SWITCH ON“);
- ✓ Recognize faults;
- ✓ Using technical documentation and technological equipment, perform the necessary measurements needed to find out the faults;
- ✓ Explain faults;
- ✓ Repair faults. (ASK THE JUDGE FOR THE REQUIRED MATERIALS, PARTS, TOOLS);
- ✓ Perform regulatory work.

Task evaluation criteria:


















Row No.	Evaluation criteria	Maximum number of points
1.	Correct fault detection	7
2.	Correct explanation of faults	7
3.	Use of technological equipment and tools and databases	13
4.	Correct troubleshooting and adjustment work	19
5.	Compliance with occupational safety and order	4
	Total:	50

Technical information:

Electrical diagrams, Worksheets, ...



- S292 AC/heater function control panel
- 30 Battery +
- 31 Battery -
- S13 Brake pedal position (BPP) switch
- S6 Combination switch
- A130 Diagnostic module
- F2
- F3
- F4
- F7
- F13
- F18
- F19
- F20
- F21
- F22
- F23
- F39
- E14 Fog lamp, left
- E15 Fog lamp, right
- K2 Fog lamp relay
- K6 Hazard warning lamps relay
- S27 Hazard warning lamps switch
- E1 Headlamp, left
- E2 Headlamp, right
- M35 Headlamp adjustment motor, left or single
- M36 Headlamp adjustment motor, right
- S217 Headlamp adjustment switch
- A7 Headlamp assembly, left
- A9 Headlamp assembly, right
- H2 Headlamp high beam warning lamp
- S3 Headlamp switch
- S1 Ignition switch
- X Ignition switch - accessories
- 15 Ignition switch - ignition ON
- A162 Immobilizer control module
- H8 Indicator lamp, left front
- H10 Indicator lamp, left rear
- H9 Indicator lamp, right front
- H11 Indicator lamp, right rear
- H6 Indicator warning lamp, left or single
- H7 Indicator warning lamp, right
- A75 Instrumentation control module
- R4 Instrument illumination rheostat
- A5 Instrument panel
- E9 Licence plate lamp, left or single
- E18 Rear fog lamp, left or single
- E19 Rear fog lamp, right
- H21 Rear fog lamps ON warning lamp
- S32 Rear fog lamp switch
- A8 Rear lamp assembly, left
- A10 Rear lamp assembly, right
- S28 Reverse gear position switch
- E20 Reversing lamp, left or single
- E21 Reversing lamp, right
- K218 Reversing lamp relay
- E5 Side lamp, left
- E6 Side lamp, right
- H85 Stop lamp, centre
- H3 Stop lamp, left
- H4 Stop lamp, right
- E7 Tail lamp, left
- E8 Tail lamp, right
- H24 Trailer warning lamp

 bl = blue	 br = brown	 dbl = dark blue
 dgn = dark green	 el = beige	 ge = yellow
 gn = green	 gr = grey	nf = clear
 og = orange	 rs = pink	 rt = red
 sr = silver	 sw = black	 vi = violet
ws = white	 hbl = light blue	 hgn = light green
 rbr = maroon	x = braided cable	y = high tension
z = non-cable connection		

NOTE: In certain diagrams (Citroen, Peugeot & Renault), colour codes are replaced by numbers which are used to identify a particular cable and not the colour. In this instance, the cables will be numbered at each end close to the harness connector.