

1978 – 1983 Porsche 928 Brake Light Test Plan

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May 23, 2024 R2

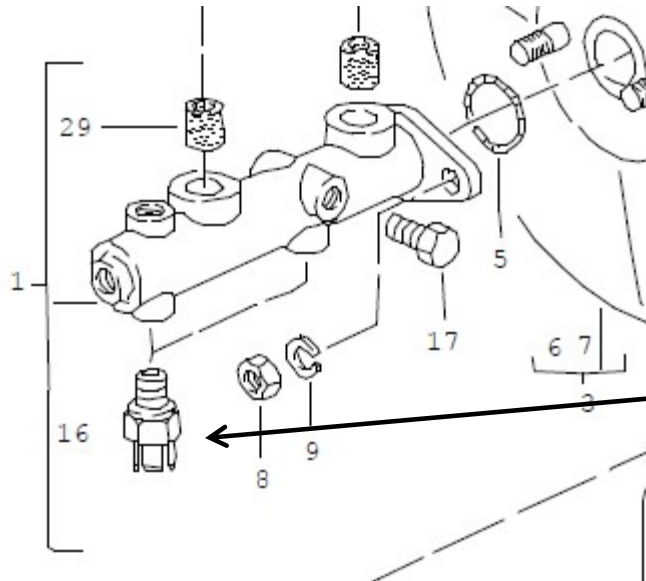
Items for Brake Light Switch Test Plan



928.641.503.02 lamp controller located above fuse/relay panel



Cap removed from lamp controller plug



Item 16, brake light pressure switches at master cylinder

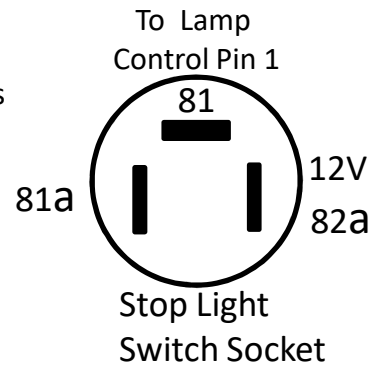
Brake Light Switch Test Plan

Lamp Control Unit checking:

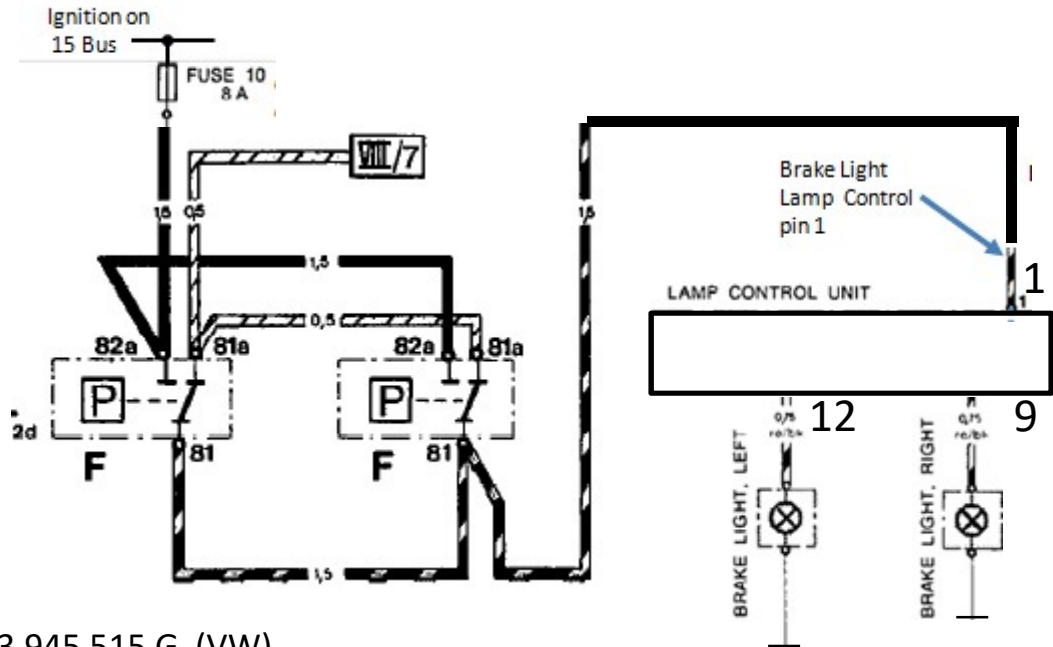
Pin 2 Ground

Pin 10: 12V from fuse 10

Pin :11 Ignition on 15 Bus



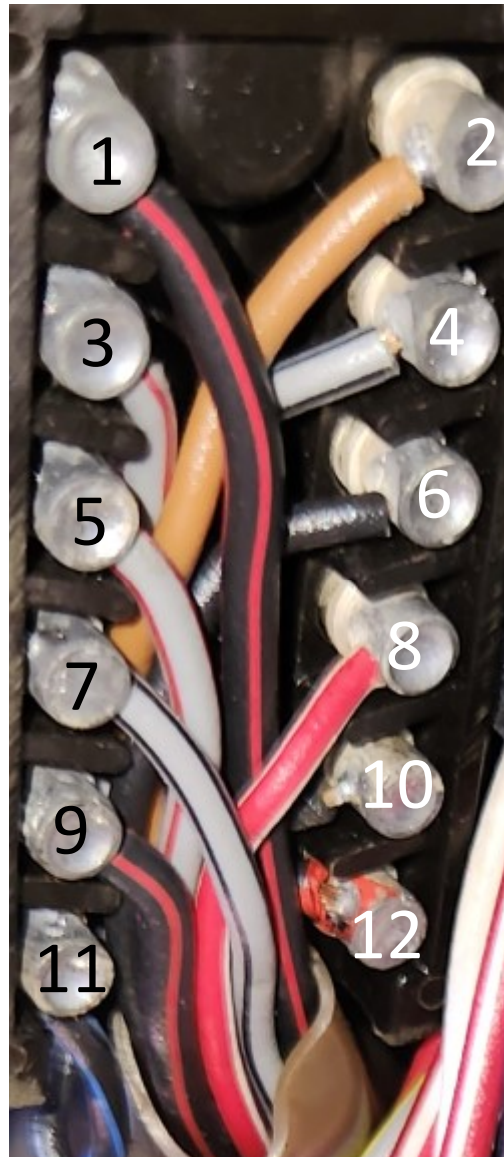
Stoplight switch F P/N: 113 945 515 G (VW)



1. Check fuse 10. If good, confirm 12V with ignition on.
 - No 12V: repair circuit.
 - Next: Is there 12V at stop light switch socket 82a?
 - No: repair circuit
 - Yes: jumper stop light switch socket 81 to 82a, Brake lights on?
 - Yes, replace Stop light switches. No, go to step 2.
2. No brake pressure: Is there 12V at the 15 circuit to both brake light plugs at 82a?
 - No: repair circuit from fuse to 82a
 - Yes: step 3
3. With Brake Pressure at Brake Pressure switch 81 = 12V, if yes next is there 12V at Lamp Control pin1?
 - No, repair circuit affected (replace stoplight switches)
 - Yes: step 4
4. Is there 12V at Lap Control pin 9 & 12?
 - No, Lamp control box is defective
 - Yes: Repair circuit between Lap Control pins 9 & 12 and rear tail lamps

Lamp Controller Pins and Test

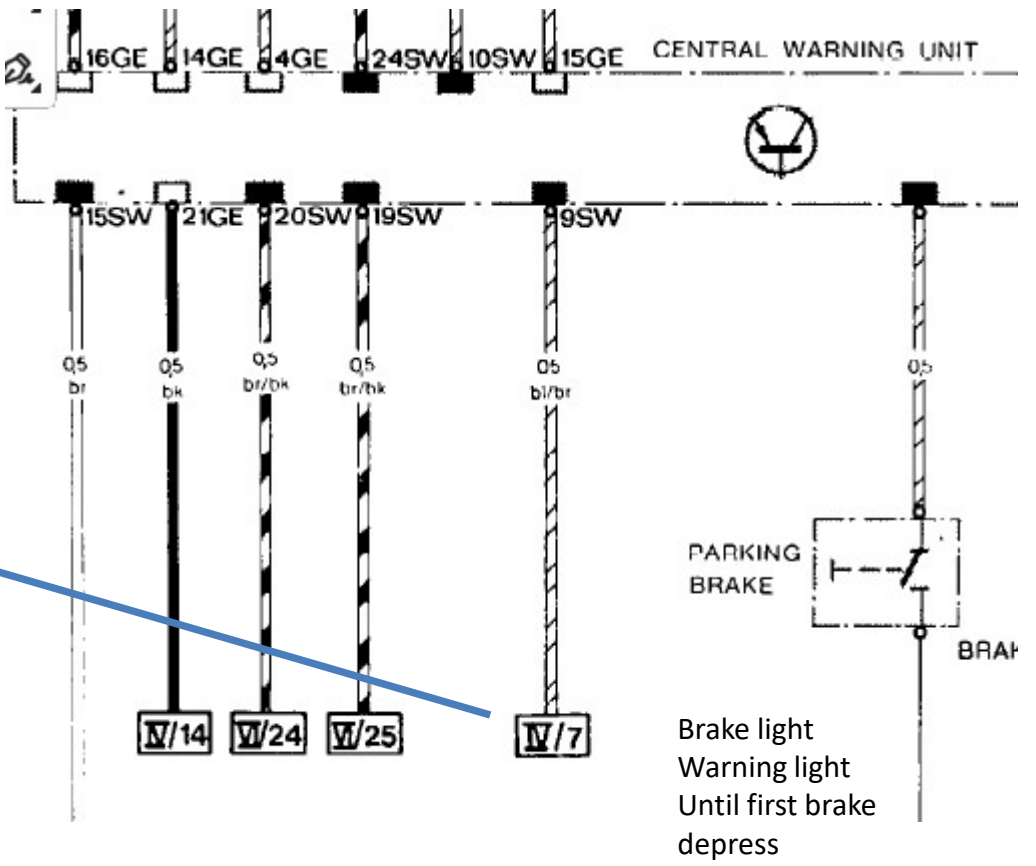
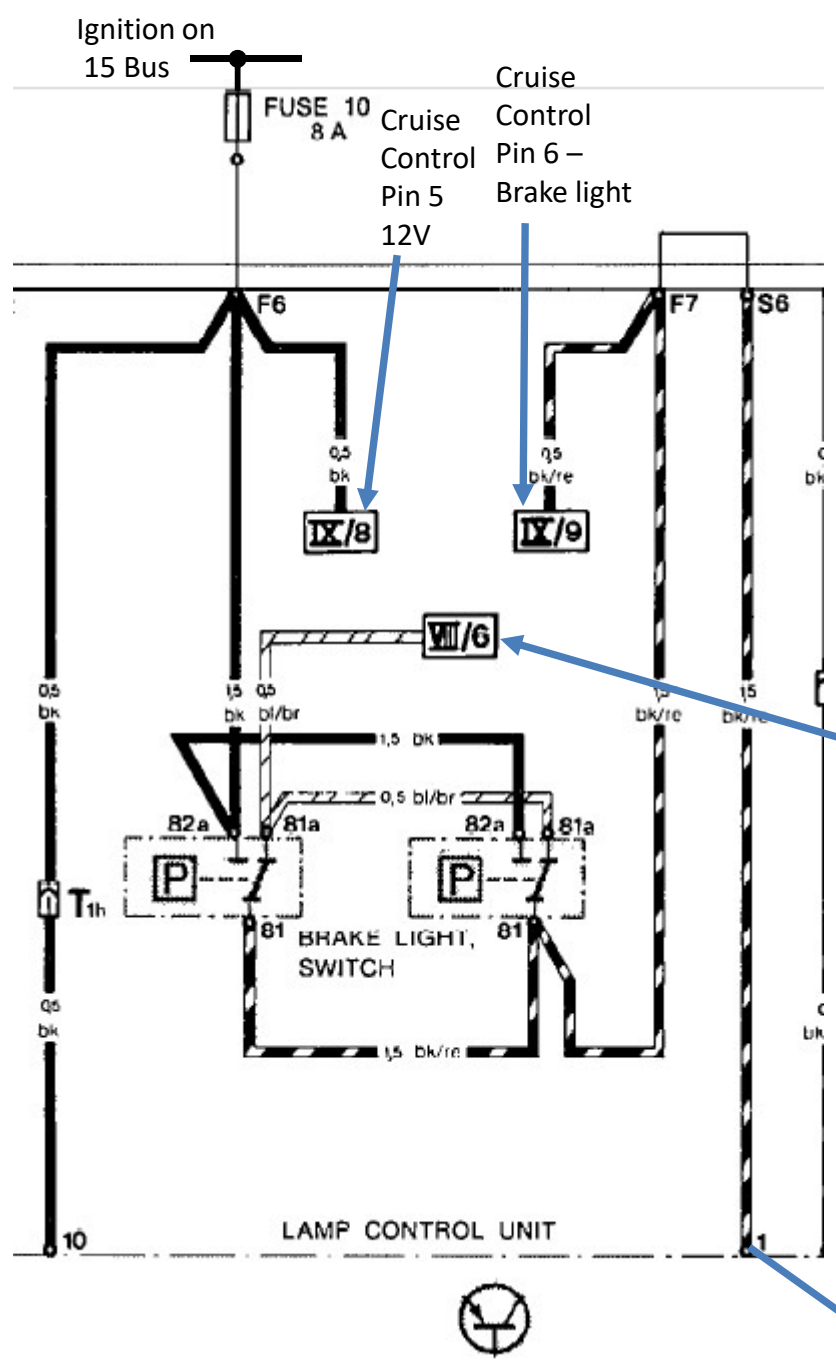
Test: 12V at Brake pedal push	1 BK/RE: Brake Light On Input*
Test: 12V at Light switch on	3 GR/RE: Rear Light Right
Test: 12V at Light switch on	5 GR/RE: R Parking light
Test: 12V at Light switch on	7 GR/BK: L Parking light
Test: 12V at Brake pedal push	9 BK/RE: Brake Light Right
Test: 12V at Ignition on	11 BK/BL: 15 BUS Ignition On



2 BR: Ground 31 BUS	Test: ground continuity
4 GR/BK: Rear Light Left	Test: 12V at Light switch on
6 BK: To Central Warning 21GE	
8 RE/WT: To Central Warning 20GE	
10 BK: 15 BUS	Test: 12V at Ignition On
12 BK/RE:	Test: 12V at Brake Light Left Brake pedal push

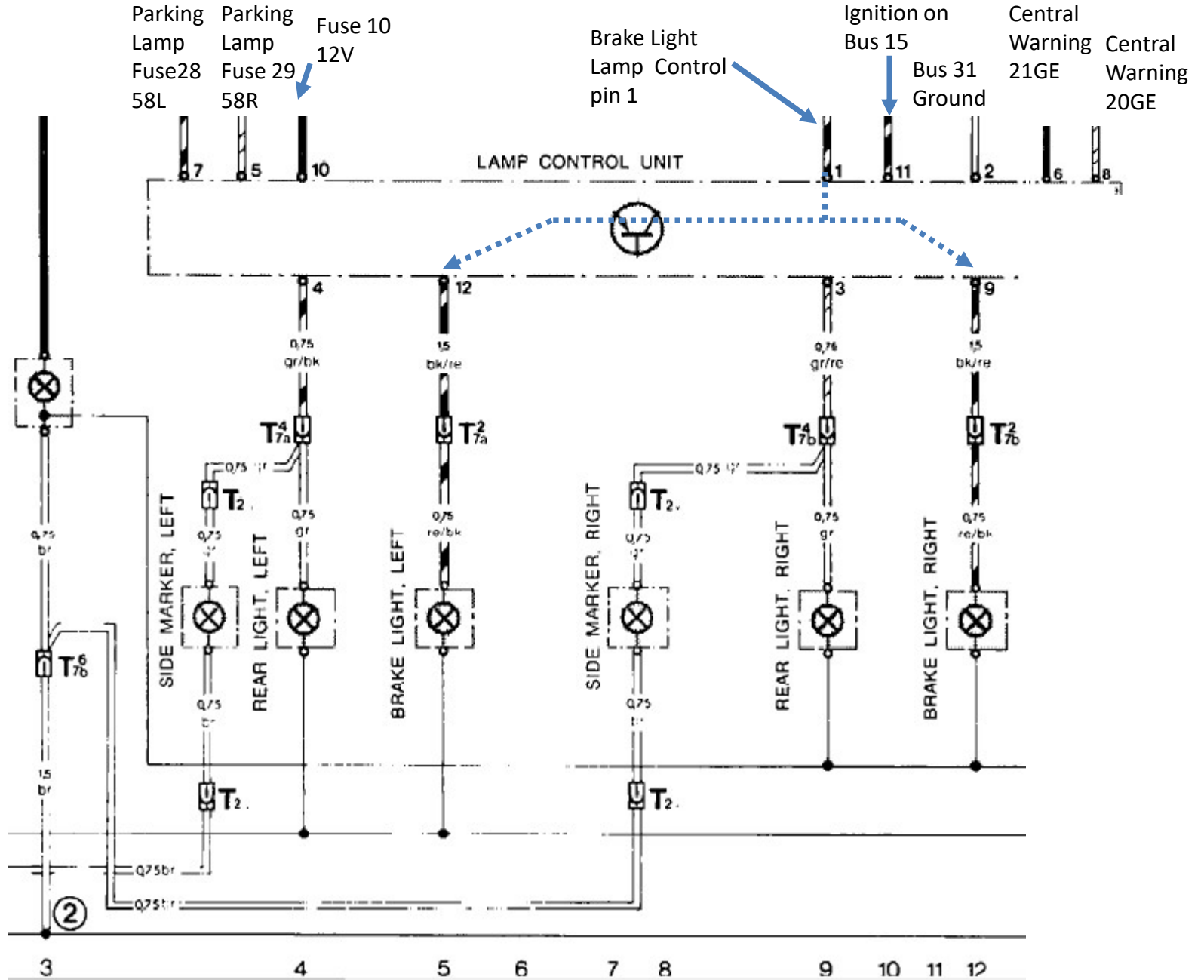
* Brake Light On Input through Fuse 10 to Master Cylinder brake light switches

Current Flow Diagram Type 928 USA Model 79, Part IV

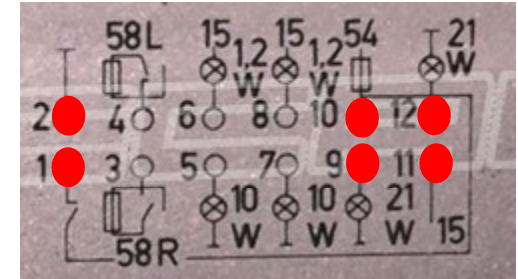
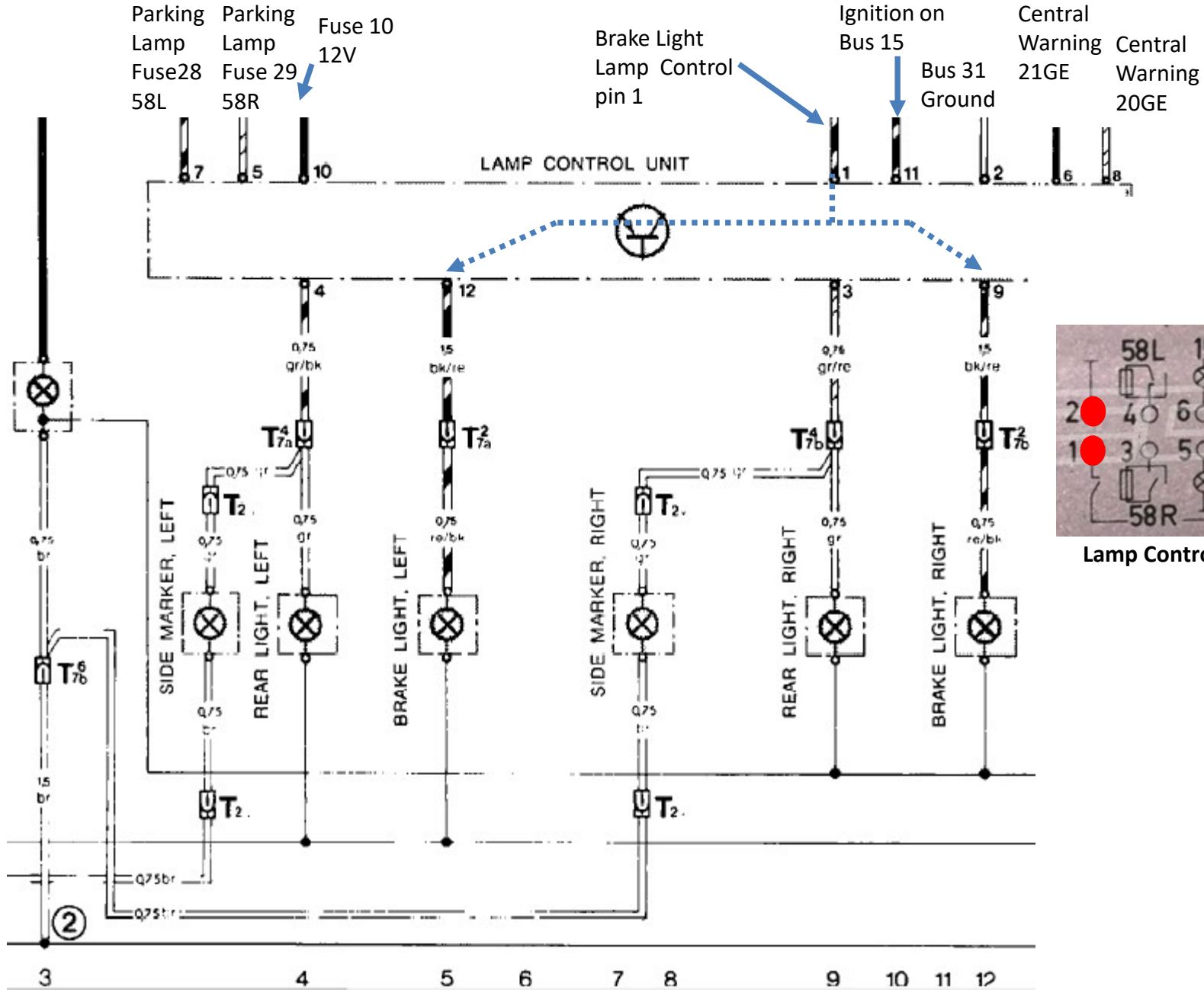


See next page Lamp Control pin 1

Current Flow Diagram Type 928 USA Model 79, Part IV

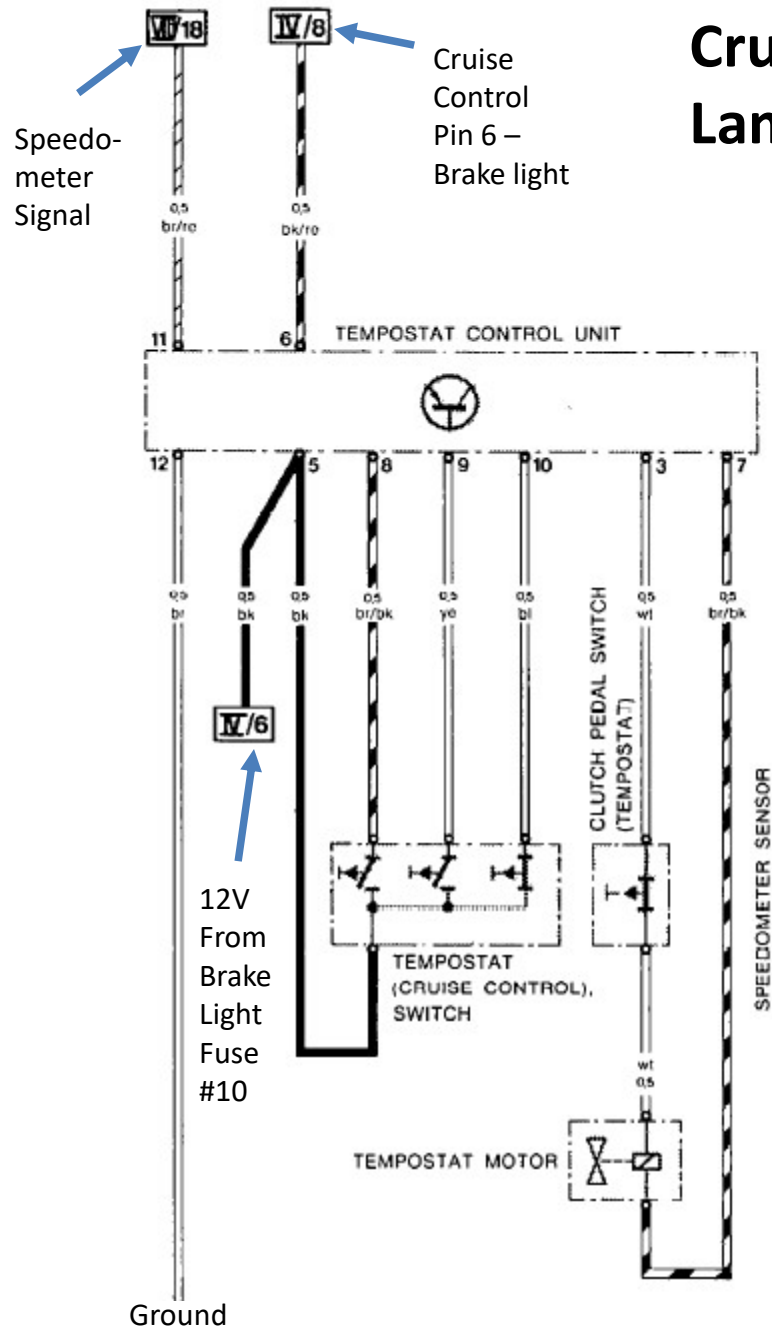


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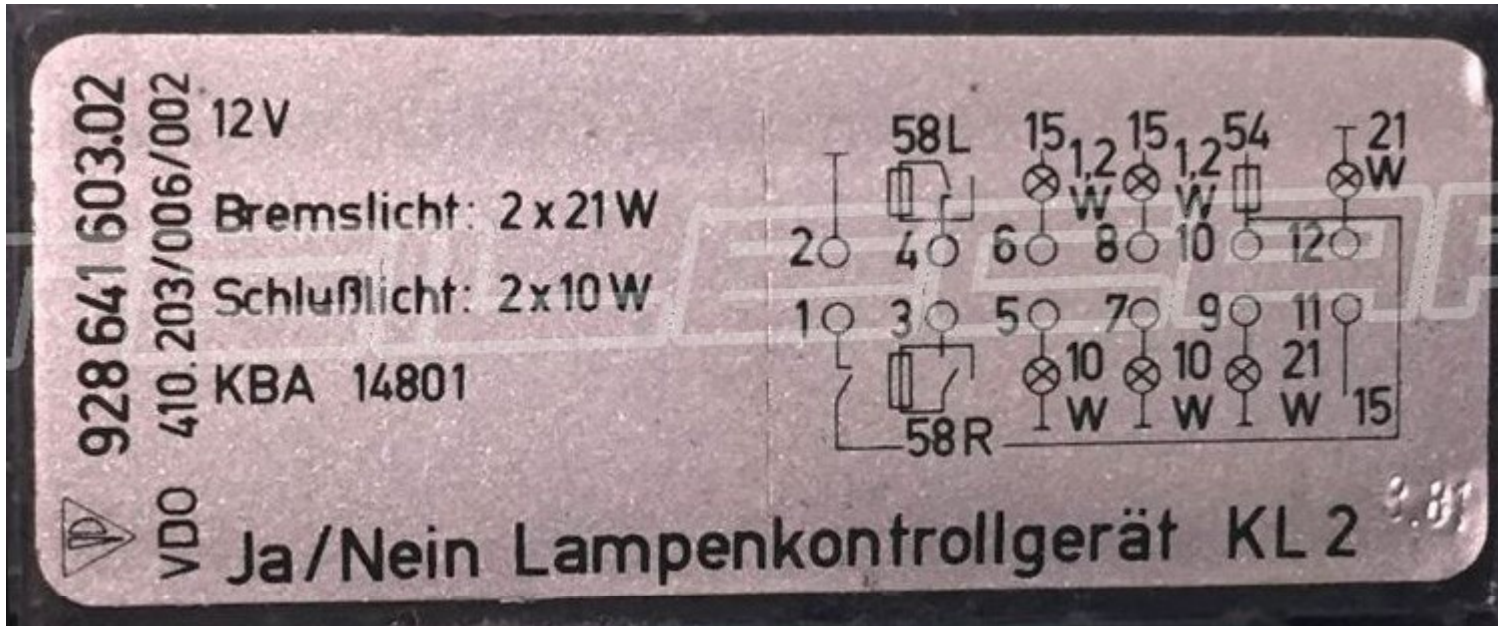


Lamp Control Unit Plug Pin #s

Cruise Control Interconnect from Lamp Controller



- Pin 3: to Tempostat Servo (actuator), Clutch Switch opens circuit
- Pin 7: from Tempostat Servo
- Pin 5: + 12V power supply
- Pin 6: normal 0V**, brakes on = 12V (Brake switch cut-out)
- Pin 8: normal 12V, lever pulled back, 0V (Cancel function)
- Pin 9: normal 0V, push forward = 12V (Set/Accelerate function)
- Pin 10: normal 0V, push down = 12V (Repeat/Decelerate function)
- Pin 11: Speedometer signal
- Pin 12: Ground (Brown)



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There are different bulb controllers, here is an overview:

928.641.603.02 used in 1978-1982 and 1983-1986 (reed relay current detection)

928.641.603.04 used is 1983-1986 models (electronic current sensing, backwards compatible)

Item #	Image	Description	Price
U928-641-603-04	NO IMAGE AVAILABLE	Used Lamp Bulb Unit 84-85	\$95.00
			<input type="text" value="1"/> <input type="button" value="BUY"/>