

Interference Suppression for Radio

Job No.
82-21

In order to obtain good radio reception with regard to the various sensitivities of the individual frequency ranges of the radio sets, the following instructions for interference suppression should be adhered to.

Models 180, 180 a, 180 b, 190 SL, 220 a, 219, 220 S, and 220 SE

	optional		Remarks
	Bosch Part No.	Beru Part No.	
1. Spark plugs with suppressors (5 K Ohms)	see Table "Spark Plugs"		
2. 4 or 6 spark plug suppressor caps (1 K Ohm)	EM/W 1/14 ¹⁾ 000 159 12 42 EM/W 1/11 000 156 15 10	BEJ 4/10 ¹⁾ 000 159 13 42 OEJ 4/10 000 156 16 10	¹⁾ Only for Model 220 SE
3. 5 or 7 distributor suppressor caps (1 K Ohm)	EM/W 1/20 000 156 17 10	VESJ 5 K 000 156 18 10	
4. 5 or 7 rubber caps	G 1 PL 000 159 07 85	Beru	Only for older cars. New cars with distant interference suppression have distributor rotor arms with suppressor as standard parts.
5. 1 distributor rotar arm with suppressor (5 K Ohms)	ZVVT 5 Z 4 Z 000 158 05 31 ZVVT 5 Z 5 Z ¹⁾ 000 158 11 31	EVL 4/6 Z	¹⁾ For dust-proof distributor types
6. 1 suppressor condenser with insulated return cable to ignition coil terminal 15	EMKO 20 Z 1 Z 000 156 29 01	SK 215 L 000 156 31 01	Bosch 2.5 MF Beru 3 MF
7. 1 feed-through condenser at regulator terminal 51	EMKO 15 Z 12 Z 000 156 37 01	SK 211 R 000 156 20 01	Bosch 2.5 MF Beru 3 MF
8. 1 feed-through condenser at regulator terminal 61 (with torsion protection)	EMKO 15 Z 10 Z 000 156 26 01	SK 219 R 000 156 33 01	0.5 MF
9. 1 suppressor filter at regulator terminal DF	EM/SD 3/1 000 156 28 01	SK 168 L 000 156 34 01	0.005 MF
10. 1 feed-through condenser to terminal D + of the generator	EMKO 15 Z 10 Z 000 156 26 01	SK 210 R 000 156 30 01	0.5 MF

11. 2 complete wheel hub contacts for front wheels.
12. 1 ground strap between capillary tube of radiator thermometer and cowl, 400 mm long, approx. 10 mm².
Part No. 10 120 820 00 72
13. 1 ground strap between speedometer drive shaft and cowl, 100 mm long, approx. 16 mm².
Part No. 180 540 00 41
14. 1 ground strap from the ground connection of the condenser at the ignition coil terminal 15 to the engine
450 mm long, approx. 16 mm². Part No. 180 540 01 41
15. 1 ground strap from the engine to the left radiator mounting (seen in direction of travel), 350 mm long,
approx. 16 mm². Part No. 180 540 02 41
16. 1 ground strap from the hood to the cowl, approx. 10 mm². Becker designation 281 Z 407 a.
17. 2 ground straps from regulator ground to regulator support, 120 mm long, approx. 16 mm².
Part No. 180 540 03 41
18. The contact surfaces below the regulator or below the interference suppressors on the support of the wheel
arch must quite definitely be tinned.
19. The fixing lugs of the ignition cable conduit must quite definitely be tinned.
20. In order to enable the ground straps to be tightened properly ordinary washers should be installed in ad-
dition to the spring washers.
21. Electrically conducting tires.
22. Electrically conducting fan belt for the generator.

Models 180 D and 190 D have no interference suppressors for the ignition system, but everything else is necessary in order to obtain good radio reception also on these two models.