

A. OM 636

The mounting of the starter on the crankcase is similar for the engines of all types. The location of the solenoid switch, however, is different. The solenoid switch is located at the top or the bottom or the side of the starter housing depending on the intended use of the engine.

Removal:

1. On installed engines disconnect the ground cable at the negative pole of the battery.
2. Remove the control line from the connecting terminal 50 (5) after unscrewing the slotted screw (see Figure 15-1/1).
3. Remove the battery cable 30 and the charging line 51 from the connector (4) after unscrewing the hex nut.
4. On engines installed in the vehicle, remove the crankcase ventilation with line to the air filter and disengage the return spring at the linkage to the throttle duct and remove with holder.
5. Unscrew the hex nut (1) and (2) and remove the starter (see Figure 15-1/1).

Note: The Special Wrench Part No. 636 589 0001 should be used to unscrew the hex nut (2).

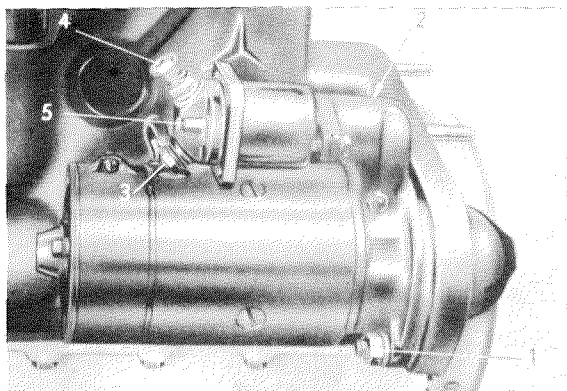


Figure 15-1/1

1 Hex nut
2 Hex nut
3 Connector for the cable from the field coil to the solenoid switch

4 Connecting terminal 30 for the battery cable and the charging line 51
5 Connecting terminal 50 for the control line

During the taking-out of the starter the engine must be slightly pressed sideways.

Installation:

If the starter is replaced make sure that the specified version is installed (see Table Page 15-1/2).

Note: Before the installation of the starter check the starter ring gear for burrs and recondition if necessary.

The contact surface for the starter on the crankcase and the corresponding surface at the starter must be absolutely level and smooth to guarantee satisfactory engaging of the starter pinion in the ring gear on the flywheel.

6. Insert the starter in the receiving bore; the starter must soundly rest on the facing of the flange without sticking or jamming. Never tighten a jamming starter with the hex nuts (1) and (2). Secure the hex nuts (1) and (2) after installing washers (see Figure 15-1/1).
7. Connect the battery cable 30 and the control line 51 to the connector (4) of the solenoid switch (see Figure 15-1/1).

Slide protective rubber cap over the connector.
8. Connect the control line to the connecting terminal 50 (5) of the solenoid switch (see Figure 15-1/1).
9. On engines installed in vehicle, connect the crankcase ventilation with line to oil filter and engage the return spring at the linkage to throttle duct.

10. Connect the ground cable to the negative pole of the battery.

11. Test the function of the starter by trial start. The pinion must disengage immediately after starting of engine.

Starters

DB Part No. Bosch Designation	installed in the engines of the type							
000 151 19 01 EJD 1,8/12 R 29 (solenoid switch on top)	636.	<div><div>912 914¹⁾ 915 916 932²⁾ 933³⁾ 936⁴⁾ 917/0 917/2 917/3 917/4 917/9 917/10 917/11 917/12 917/13 917/14</div></div>	636.917/	<div><div>15 16 17 18 19 20 21 23 25 26 27 28 29 30 31 32</div></div>	636.917- ⁵⁾	<div><div>00 021 022 023 090 120 180 190 221 222 223 240 251 252 253 260</div></div>	636.917- ⁵⁾	<div><div>270 271 272 280 290 300 310 320 340 350</div></div>
		<div><div>1)¹⁾ up to engine No. 636.914-002975 2)²⁾ up to engine No. 636.932-000205 3)³⁾ up to engine No. 636.933-000269</div></div>		<div><div>4)⁴⁾ up to engine No. 636.936-000600 5)⁵⁾ up to engine No. 636.917-009264</div></div>				
000 151 47 01 EJD 1,8/12 R 56 (solenoid switch on bottom)	636.			<div><div>918 931</div></div>				
000 151 52 01 EJD 1,8/12 R 70 (solenoid switch on top)		<div><div>636.914¹⁾ 636.932²⁾ 636.933³⁾ 636.936⁴⁾ 636.930 636.935</div></div>	636.917- ⁵⁾	<div><div>00 021 022 023 090 120 180 190 221 222 223 240 251 252 253 260</div></div>	636.917- ⁵⁾	<div><div>270 271 272 273 280 290 300 310 320 340 350 370</div></div>		
		<div><div>1)¹⁾ from engine No. 636.914-002976 2)²⁾ from engine No. 636.932-000206 3)³⁾ from engine No. 636.933-000270 4)⁴⁾ from engine No. 636.936-000601 5)⁵⁾ from engine No. 636.917-009265</div></div>						
000 151 61 01 EJD 1,8/12 R 82 (solenoid switch horizontal)	636.			<div><div>919 934</div></div>				
000 151 66 01 EJD 1,8/24 R	636.			<div><div>917/24 917-360</div></div>				
Supplied without starter are the engines of the type 636.917/5 and/or 917-040, 636.917/6 and/or 917-050, 636.917/22 and 636.917-330.								