

83–528 Removal and installation of condenser

Data

Surface area/depth	21 dm ² /40 mm, 2 rows
Version	copper pipe and aluminum ribs (1st version) aluminum pipe with aluminum ribs (2nd version)

Tightening torques		Nm	(kpm)
Pressure hose to condenser	with Cu seal	60 ± 5	(6.0 ± 0.5)
	without Cu seal	70 ± 5	(7.0 ± 0.5)
Pressure hose to receiver dehydrator	with Cu seal	45 ± 5	(4.5 ± 0.5)
	without Cu seal	55 ± 5	(5.5 ± 0.5)
Pipe line to receiver dehydrator	with Cu seal	30 ± 5	(3.0 ± 0.5)
	without Cu seal	45 ± 5	(4.5 ± 0.5)

Conventional tool

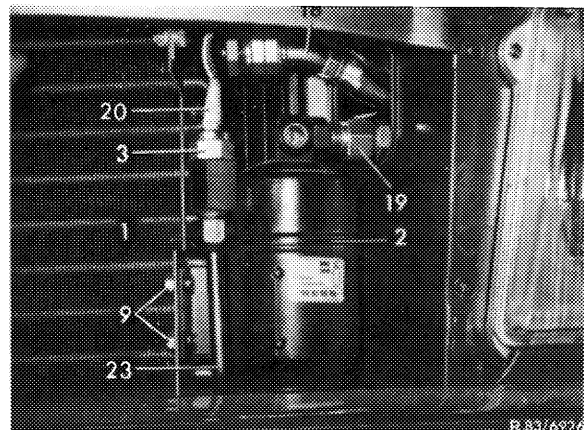
Double open-end wrench 22 and 19 mm

Note

If the condenser is not immediately reinstalled, flush condenser with refrigerant R 11 or blow out with refrigerant R 12 or nitrogen. Then close connections with plugs.

Removal

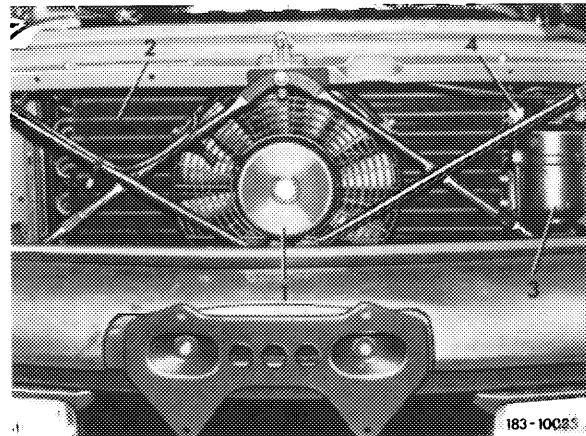
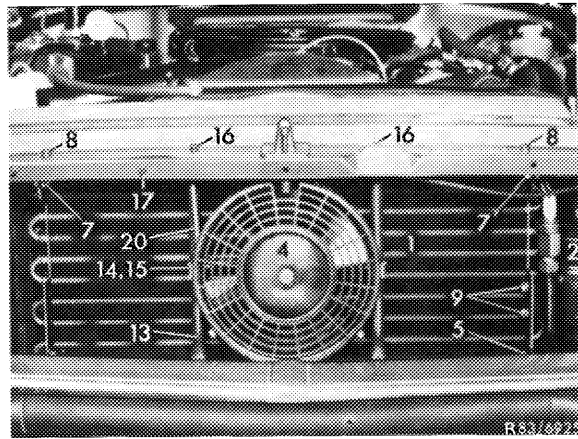
- 1 Remove radiator, while paying attention to additives.
- 2 Drain air conditioning system (83–516).
- 3 Unscrew pipe and hose line (18 and 19) from condenser (1) and unscrew receiver dehydrator (2).
- 4 Pull the two plugs (20) from temperature switch (3).
- 5 Unscrew diagonal strut between condenser and radiator.



6 Unscrew two sheet-metal screws (5) on cross member, unscrew screw (7) and remove condenser (1) in rear direction.

Layout of condenser with supplementary fan (supplementary fan no longer installed starting August 1973, as well as USA starting model year 1974).

- | | |
|---|---|
| 1 Condenser | 9 Hex nut with snap ring |
| 2 Receiver dehydrator | 13 Strut |
| 4 Supplementary fan | 14 Fastening clip |
| 5 Sheet-metal screw with washer | 15 Combination screw |
| 7 Hex socket screw with hex nut, washer and snap ring | 16 Hex screw with washer, snap ring and hex nut |
| 8 Hex screw with hex nut, washer and snap ring | 17 Cable band |



Layout of condenser with supplementary fan (USA starting model year 1975, Sweden, Japan and Australia starting model year 1977)

- | | |
|---------------------|-----------------------|
| 1 Supplementary fan | 3 Receiver dehydrator |
| 2 Condenser | 4 Temperature switch |

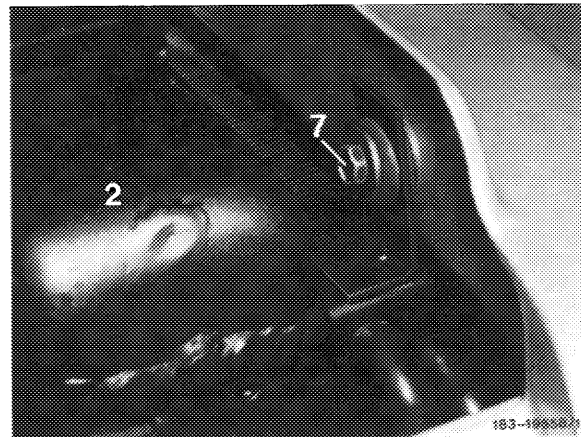
7 Loosen pipe line (23) from receiver dehydrator.

8 Unscrew nuts (9) and remove receiver dehydrator (2) from condenser (1).

9 Close hose and pipe connections with plugs.

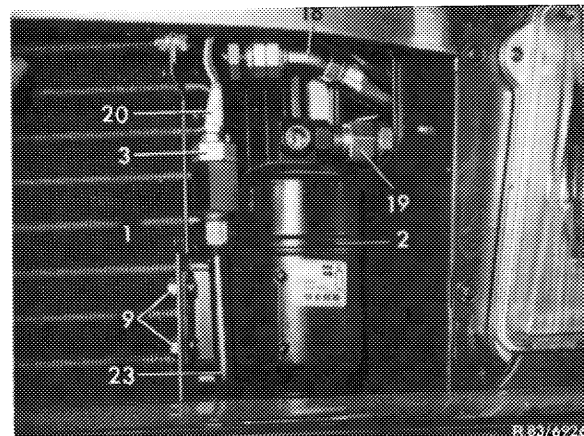
Layout condenser attachment at top on vehicles with engine 116 (3.8) and 117 (5.0)

- | |
|---|
| 2 Condenser |
| 7 Sheet metal screw with washer, collar sleeve and rubber grommet |



Installation

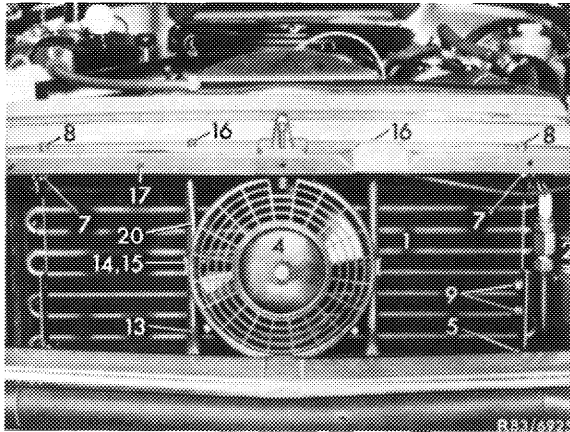
10 Screw receiver dehydrator (2) with fastening members (9) to condenser. Connect pipe line while moistening threads with refrigerant oil.



11 Mount condenser on cross member and screw-on by means of hex screws (5).

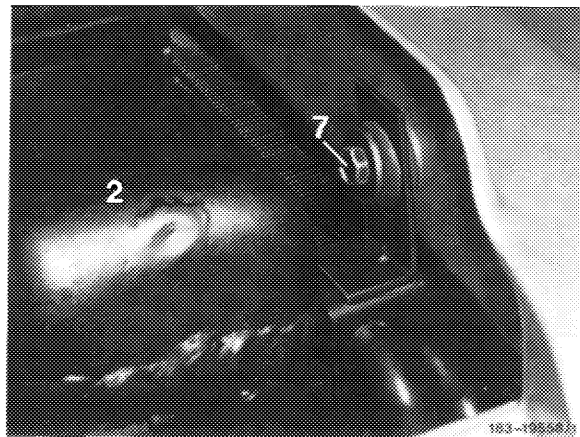
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| 7 Hex screw with hex nut, washer and snap ring | 16 Hex screw with washer, snap ring and hex nut |
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Layout condenser attachment at top on vehicles with engine 116 (3.8) and 117 (5.0)

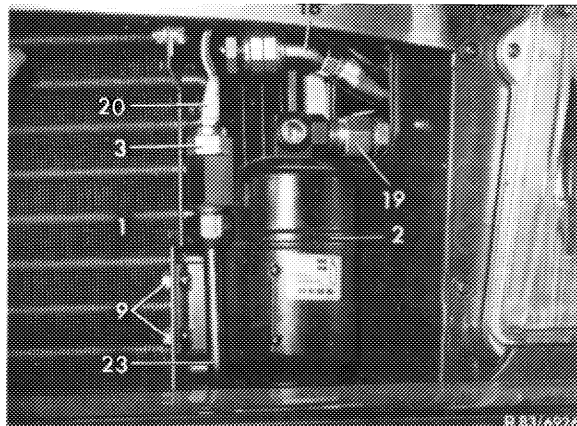
- | |
|---|
| 2 Condenser |
| 7 Sheet metal screw with washer, collar sleeve and rubber grommet |



12 Screw condenser at top to holders by means of fastening members (7). Make sure that the distance between condenser and radiator is uniform.

13 Mount pipe and hose line (18 and 19) to condenser and receiver dehydrator while moistening threads with cold-flowing oil and applying counterhold with open-end wrench when tightening.

14 Connect the two plugs (20) to temperature switch (3).



15 Mount diagonal strut behind condenser to stiffening and to closing plate by means of 4 hex screws.

16 Install radiator (20–420).

17 Evacuate air conditioning system and fill up again (83–512 and 514).

18 Check air conditioning system for function (83–510).