Installation Instructions

FOR SUBSEQUENT INSTALLATION

BMW 2002      /'73-'74
BMW 2002A      /'73-'74
BMW 2002 Ti/i/'73-'74
BMW 2002       /'75
BMW 2002A      /'75

BEHR OF AMERICA INC

5020 AUGUSTA DRIVE, FORT WORTH, TEXAS 76106
PHONE: 817-624-7274  TELEX: 758434
CABLE: BEHR-FORT WORTH

203 GATES ROAD, P.O. BOX 4, LITTLE FERRY, NJ 07643
PHONE: 201-641-2666  TELEX: 130337
CABLE: BEHRAMER
THE INSTALLATION INSTRUCTION IS DIVIDED INTO THE FOLLOWING SECTIONS:

a.) PREPARATORY WORK
b.) REMOVAL OF RADIATOR GRILL
c.) ENGINE PULLEY INSTALLATION
d.) INSTALLATION OF FRONT STABILIZER
e.) COMPRESSOR INSTALLATION
f.) V-BELT INSTALLATION
g.) INSTALLATION OF CONDENSER AND AUXILIARY FAN
h.) INSTALLATION OF RECEIVER DRIER
i.) INSTALLATION OF EVAPORATOR
j.) REFRIGERANT HOSE ROUTING
k.) ELECTRICAL CONNECTIONS
l.) HEAT SHIELD
m.) FINAL TASK
n.) TEMPLATES
o.) PACKING LIST
a.) PREPARATORY WORK

1. Disconnect battery.
2. Drain cooling water.
3. Remove radiator.

b.) REMOVAL OF RADIATOR GRILL

1. Remove filister tapping screw from radiator grill, left and right (quantity 8).

   Remove splash cover, headlamps, and unscrew plastic ring nuts for radiator grill mounting.

   Note:
   Take care not to offset headlamp adjustments.

   Unscrew 2 nuts and remove center radiator grill.

2. Loosen generator and remove V-belt.

c.) ENGINE PULLEY INSTALLATION


1. Block engine at the flywheel ring gear.


   Place V-belt from compressor drive onto rear groove before new pulley installation. (Rear groove is later obstructed by TDC-marker).

BMW 2002 Tii:

1. Remove air cleaner intake. Loosen alternator, remove V-belt.

2. Remove fan and pulley (ventilator). Remove top dust cover. Figure 1, position 2.

3. Unscrew nut from pump drive gear, extract drive gear from pump.

   Puller # 6078 - Figure 2.

   Note: Do not rotate engine, after removal of pump drive gear to prevent a 180° offset in timing.
4. Remove clutch cover partially. Block engine at the fly wheel ring gear. Figure 3.

5. Remove nut from engine pulley. Remove pulley. Figure 4.

6. Unscrew bottom dust cover.

   Modify lower dust cover as shown on sketch fig. 5. Also, widen lower groove in timing chain cover fig. 6, item 1) to match cut-out section in dust cover.

   Note: The compressor drive belt must travel freely through covers after tensioning by idler pulley.

7. Install pulley hub supplied with Tii kit. Place compressor "V" belt into respective groove, before adapting pulley to crankshaft.

8. Tighten nut for pulley hub with 14-15 mkp (101-108 ft. lbs.) torque. Place tooth belt on pulley hub.

9. Install bottom dust cover.

10. Mount engine pulley on pulley hub.

    Note: Observe the following information, when installing the fuel pump drive gear and engine pulley.

11. Place piston of cylinder 1 in TDC ignition position. The groove in the pulley has to be aligned with the marker on the dust cover. Figure 7.

12. Move fuel pump shaft until marker on drive gear is in line with marker at fuel pump housing. Place tooth belt on drive gear and attach drive gear to pump (fig. 8).

    Note: The deviation from the two markings should not be more than half of a tooth. Figure 8.

13. Mount top dust cover.


d.) INSTALLATION OF FRONT STABILIZER

   Not supplied with a/c kit.

   1. (Not necessary for vehicles equipped with a stabilizer SA 425/1
Remove from stabilizer (figure 9, item 2) hex. socket-head capscrew M8 x 18, lockwasher and nut M8,2 on each side (figure 9, item 1). Loosen lock nut M10 from damper of stabilizer (figure 10, item 1). Remove stabilizer and exchange for new offset stabilizer.

When installing new stabilizer, observe that offset part has to point downward (figure 11, item 1). Mount stabilizer with existing hardware.

Positioning of rubber damper and cup washer can be seen in figure 10, item 2.

e.) COMPRESSOR INSTALLATION

1. Before mounting compressor on 1975 models securely fasten suction hose to compressor, as shown in figure 16.

2. Remove the hex. head screws from the engine as indicated (fig. 6, item 2). Holding the mount and mount components in approximate position to the engine will help to identify the proper bolts to be removed.

3. Install mount with compressor to engine using hardware as shown on fig. 12. Two Locktite coated studs (item 12) with 5/16" lockwashers (item 15) and nuts (item 13) through forward mount into waterneck housing. Insert Locktite coated stud (item 11) with 5/16" lockwasher (item 15) and nut (item 13) through lower mount, welded 3/8" spacer (item 5) into engine. Insert two bolts (item 9) with spring washers (item 19) through upper mount plate tab, welded 3/8" spacers (item 5) into engine.

Note: Install compressor ground cable (item 23) with rear bolt (item 9) and spring washer (item 19). Insert bolt (item 10) with spring washer (item 20) through lower rear mount tab into engine. All of the above bolts should now be uniformly tightened to prevent strain or misalignment.

f.) V-BELT INSTALLATION

1. Thread the drive belts as shown on the belt wrap diagram. Adjust, then tighten each belt as needed for proper belt tension. The eccentric should be tightened at this time.

g.) INSTALLATION OF CONDENSER AND AUXILIARY FAN

1. Remove the 4 hex. head screws M8 x 16 (figure 13, item 1) from hood support.

2. Install auxiliary fan and condenser from engine compart- ment into the radiator cowl. The auxiliary fan has to be mounted in front of the con- denser in driving direction.
3. Mount brackets to fan shroud, using off-set hex. head screws, large washer (1 in. dia.), lock washer and nut (figure 14, items 1 + 2 + 3).

4. Attach fan shroud with brackets top and bottom (figure 15, item 1 + 2) together with condenser to brackets (figure 15, item 4), using hex. head screws M6 x 15, large washer (one on each side), lock washer and nut M6 (figure 15, item 3).

5. Do not tighten screws yet.

Secure condenser brackets to supports, place 4 spacers between upper brackets and supports (figure 14, item 4). Mount brackets with hex. head screw M 8 x 30, washer and lock washer (figure 14, item 5).

6. Secure lower bracket onto support with hex. head screw M8 x 20, washer, lock washer and nut M8 (fig. 14, item 6).

7. Align fan shroud to condenser. The distance between fan shroud and condenser should be approx. 0.16 inches.

8. Tighten all mounting screws.

h.) INSTALLATION OF RECEIVER DRIER

1. Cut out the template in fig. 33 and place on the front surface of the radiator support. Drill two holes #30 (or 1/8") diameter to mount drier clamps with #10 x 3/4" sheet metal screws. Cut two holes as specified on template in fig. 33 for hose routing and provide holes with grommets for hose routing. Mount drier with two clamps as low as possible for a better view of sight glass. Route thermostat wires through existing wiring grommet at side of drier.

i.) INSTALLATION OF EVAPORATOR

1. Remove and discard center console.

Gear shift console will be reused (figure 17, item 4). Cut four slots in console in front edge using template in figure 32. Remove fillister screws under dashboard (quantity 2) — (figure 18, item 1).

Remove and discard deflector from heater housing (figure 17, item 5).

2. Attach support (fig. 17, item 1), supplied with kit, onto evaporator, using large washer, lock washer, nut M5 (2 of each). Nuts will be tightened after alignment.
3. Mount brace (figure 19, item 1) onto evaporator housing, using hex. head screw M5 x 16 lg., nut M5, large washer and lock washer (2 of each) - Figure 19, item 2.

4. Move evaporator forward on transmission tunnel until the distance shown in figure 17 is 5.7 in. (145 mm) from cut-out gear shift to evaporator.

It may be necessary to trim card board cover (figure 17, item 6) to position evaporator properly. The holes in the mounting brackets on top of evaporator housing should align with holes in dashboard.

5. Mark hole for condensed water drainage hose (fig. 20, item 4), support (figure 19, item 5) and brace (figure 19, item 6).

6. Remove evaporator. Drill at marked points 9/64 in. dia. (#29) holes into transmission tunnel. Drill hole 1 1/8 in. for condensed water hose. Fit rubber grommet into large hole. Fit condensed water hose (figure 20, item 4) onto tube on bottom of evaporator, secure with hose clamp.

7. Before installing evaporator, connect cable to evaporator lower housing and heater housing. For proper connection, see section "K. Electrical Connection," Part 1 and 6, and Wiring Schematic.

8. Fit spacer into recessed part of dash upholstery between dashboard and cover (figure 18, item 1).

Place evaporator with brackets into position and secure with tapping screw as follows:

Mount support (figure 19, item 5) with hex. head tapping screw 4.8 x 19 mm (3/16" x 3/4").

Mount brace (figure 19, item 6) with hex. head tapping screw 4.8 x 19 mm (3/16" x 3/4").

Make sure that holes in mounting brackets on top of evaporator housing stay aligned with holes in dash (figure 18, item 1).

9. Mount emergency flasher switch into respective hole of cover plate (figure 20, item 1); optional switch, if used, into cover plate (figure 20, item 2).

10. When installing radio, cut out pre-marked area below ashtray (figure 20, item 3) and install radio as per manufacturer's instruction. If radio is not to be installed, notify BEHR OF AMERICA and cover plate #74 106 18 807 will be supplied free of charge.
11. Connect air conditioner wiring harness to blower and temperature switch (for connection see section k. "Electrical Connections", Part 4 and 5, and Wiring Schematic).

12. Place cover plate in mounting position against evaporator housing. Push capillary tube of temperature switch all the way into the brass tube in evaporator housing. Care should be taken, not to kink the capillary tube.

Connect wiring to emergency flasher switch. Connect wiring and antenna to radio.

Secure cover plate (figure 18, item 2) together with evaporator upper housing on left and right side with tapping screw 4.8 x 50 mm lg. under dashboard (fig. 18, item 1).

Mount lower cover plate with gear shift console to bracket (figure 19, item 4) using hex. head screw M5 x 16, washer and lock washer and nut.

j.) REFRIGERANT HOSE ROUTING

Note: Protect refrigerant hoses from dirt and moisture. Do not remove protection caps and plugs from fittings until ready to make connection. Threading must be coated with refrigerant oil. Use back-up wrench when tightening the connections.

1. Remove upper corner of firewall covering in passenger side (figure 21, item 1). Cut two holes as per template page 18.

Note: Care should be taken when cutting holes through firewall; gasoline lines are imbedded in insulation material. Gasoline lines must be routed over refrigerant hoses.

Take care not to damage any brake tubing (figure 22, item 1) when cutting holes.

Cut away insulation. Provide holes with rubber grommets (figure 22, item 2).

Hose 1

Connect refrigerant hose 26 inches lg. with fitting 3/4" x 90° to compressor discharge valve (figure 23, item 2). Route hose through large grommet (figure 29, item 3) along radiator support and connect fitting 3/4" straight to upper condenser connection (figure 23, item 1).
Hose 2

Connect refrigerant hose 14 in. lg. with fitting 5/8" straight to condenser lower connection (figure 23, item 2). Route hose with fitting 5/8" x 90° to receiver drier lower connection and secure (figure 23, item 4).

Hose 3

Connect refrigerant hose 44 1/2 in. lg. with fitting 5/8" x 45° to receiver drier top (figure 23, item 2). Route hose through rubber grommet in radiator support, then through rubber grommet in firewall (figure 22, item 3) to evaporator. Connect fitting 5/8" x 45° to the liquid connection on evaporator (figure 21, item 3).

Hose 4

Refrigerant suction hose 36 1/2 in. lg. with fitting 7/8" x 45° was fastened to compressor in section e. Route hose through large grommet in firewall (figure 22, item 4) and connect fitting 7/8" x 45° to evaporator. Secure refrigerant hoses with clamp and hex. head tapping screw in engine compartment as low as possible and in front of the brake lines to hold it away from the heat shield on 75 models (figure 30). Fold carpet in passenger compartment over hose lines.

k.) ELECTRICAL CONNECTIONS

Connection of main a/c harness:

1. Remove existing green-brown wire from heater-housing (inside of car behind dashboard), attach insulated female terminal on blue-green strip wire to now vacant heater-housing connection. Attach green-brown wire removed from heater-housing to male terminal of brown-green stripe wire (see illustration fig. 27).

2. Ground eyelet on brown wire.

3. Secure cable harness with clamp (figure 24, item 8). Route cable harness along side of evaporator housing (figure 25, item 1) towards thermostat (figure 25, item 2).

4. Connect female insulated terminal on black wire to one terminal on thermostat.

5. Connect four wire female plug to back of blower switch (figure 25, item 5).

6. Connect two short black-white stripe wires with 90° female insulated terminals to resistor terminals under evaporator housing.
7. Connect cable from evaporator blower to male terminals in main harness enclosed in a dual insulated housing. The brown wires connect together and the white blower wire connects to the dual black-white stripe male terminal.

8. Route cable with refrigerant liquid hose to drier safety switch.

9. Route other wire from drier safety switch through grommet in radiator support and fasten to clutch wire.

10. Connect ground cable from compressor to bracket (figure 12, item 23).

**Electrical Connection for Auxiliary Fan:**

11. Install relay in engine compartment (figure 26, item 1) using two fillister tapping screws (figure 26, item 2). Relay must be mounted horizontally with terminal down.

   **NOTE:** Connections a, b, and c are prewired.

   a. Connect female slide terminal of brown cable onto relay terminal 85.

   b. Connect female slide terminal of black cable onto relay terminal 86.

   c. Connect female slide terminal of red cable onto relay terminal 30.

   d. Connect stud terminal of brown cable together with stud terminal of brown or black cable coming from auxiliary fan to the relay mounting screw (ground).

   e. Connect female slide terminal of red cable from auxiliary fan to relay terminal 87.

12. Route cable harness along side radiator support as shown in fig. 26, item 4.

   Connect cable with in-line fuse (24 amp.) to battery, positive terminal (figure 26, item 5).

13. Route black cable with double combination terminal along main cable harness through firewall to the evaporator thermostat and connect to thermostat terminal together with single wire from blower switch.
14. Attach side cover left and right (figure 21, item 1) to cover plate, evaporator and gear shift console, using fillister tapping screw and washer (figure 28, item 2).

1.) HEAT SHIELD 1975 MODEL

1. Preassemble heat shield by loosely attaching clamp, 6mm lockwasher and nut on both 6mm studs. Remove and discard 6mm bolt from front of exhaust reactor as shown in figure 30. Position heat shield between compressor and exhaust reactor with clamps around air tube. Install 6mm x 20mm bolt through lockwasher, heat shield bracket and spacer and tighten in front tapped hole on exhaust reactor. Tighten both clamps. Check hoses for maximum clearance between shield and hoses.

m.) FINAL TASKS

Reinstall parts, removed under section a) and b).

Refill radiator.

Connect ground cable to battery.

Run engine and check for leaks. Be sure air conditioner blower switch is in the off-position, all the way to the left, so compressor is inoperative.

Evacuate and charge air conditioning system. Check air conditioner performance.

Note: After completing the installation of the air conditioner, it is suggested to adjust the headlamps if necessary.

**NOTE:** THE RECOMMENDED REFRIGERANT CHARGE

FOR THE '74 2002 Tii IS

22 OZ OF R-12
Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

- Cut out this section -

- Cut out this section -
EXISTING CABLE GR-BR.
REMOVE & RECONNECT
A/C HARNESS
COLOR CODE:
GREEN-BROWN = GR-BR.

Figure 27

Figure 28

Figure 29
Wiring Diagram 3
All Models

Harness Version - Without Heater Blower Relay

SWITCH AND CIRCUIT ALLOW OPERATION OF RADIATOR FAN INDEPENDENTLY

1. Battery
2. Ignition switch
3. Connection on Heater housing
4. Heater blower motor
5. In-line fuse (25 amps)
6. Fuse box
7. Connector
8. Connector
9. A/C aux. fan relay
10. Connector
11. Safety switch on drier
12. A/C temperature switch
13. Resistor
14. A/C blower motor
15. Auxiliary fan
16. A/C clutch
17. A/C blower switch

WIRING DESCRIPTION

--- Existing wiring
--- and Components
--- New A/C wiring
--- and Components

Note: This service information represents the latest information available at the time of printing.
Diagram 3 - All 1973 models

Harness Version - With Heater Blower Relay

1. Battery
2. Ignition switch
3. Relay for heater
4. Heater blower motor
5. In-line fuse (25 amps)
6. Fuse box
7. Connector
8. Connector
9. A/C aux. fan relay
10. Connector
11. Safety switch
12. A/C temperature switch
13. Resistor
14. A/C blower motor
15. Auxiliary fan
16. A/C clutch
17. A/C blower switch
18. Connector

Wiring Description:
- Existing wiring
- - - and Components
- New A/C wiring
- - - and Components

NOTE: This service information represents the latest information available at the time of printing.
Figure 31

Figure 32

MODIFICATION TEMPLATE FOR BMW 2002 GEARSHIFT CONSOLE
### Packing List

**Application**
- BMW 2002/73-74, 2002 Tii, 2002/75

**Year** 1975
**Date** 1/16/75
**Supersedes** Issue 5/21/73

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Heat Shield Assy. 902-10 consisting of:  
(for 1975 Model only)

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Pulley - for 2002 Tii models only  
74 074 49 809

Pulley - for 2002/73-74 models only  
74 074 49 009

CHECKED: ______________________   DATE: ______________________

Note: Before starting the installation, check to see that all parts listed are in the kit. If shortage is found, indicate same on this packing list and return to BEHR OF AMERICA warehouse - with letter of explanation.