

Instruction manual for HPN 23ltr tank for BMW K25 HP2

Art. Nr.: 16.300; 16.301; 16.302



Delivery:

1. Tank with fuel petcocks, fuel lines, 4 rubber mounts, 2 rubber elements
2. Sidecover left and right with bolts and rubber strap
3. Center cover with bolts and spacers
4. Oil cooler with fixtures and oil lines

Installation:

We strongly recommend to take the repair manual of your motorcycle as a guide for all necessary steps. (BMW Nr. 01 79 7 698 369), you find additional illustrations that help you a lot.

Our instruction manual has been checked carefully for faults but we cannot guarantee and take any responsibility for hidden mistakes, if you have any questions don't hesitate to ask us (Tel. +49 (0)8571-5300), or your local dealer for assistance. We or your dealer will do the job for you for a small charge.

1) Draining fuel tank

Warning! Fuel is flammable and hazardous to your health. Observe all applicable safety regulations

Drain the fuel tank, using commercial available special tool.

2) Removing the fuel tank

2a) Removing the seat

Remove screw with special key for the seat. Pull back the seat out of the holders.

2b) Removing the side panels

Remove 5 screws and remove the left side panel.

Remove 5 screws and remove right side panel. (Reinstall intake guard using the HPN supplied locking washer)

2c) Remove fuel tank cap

Remove 6 screws and fuel tank cap with rubber buffer. Mark position of the fuel filler pipe using an edding.

2d) Remove fuel tank cover

Remove screw. Pull off venting line. Remove fuel tank cover.

2e) Remove safety valve

Remove 6 screws with washers. Remove safety valve with gasket.

2f) Remove fuel pump unit

Disconnect the fuel lines with the quick action couplings. Disconnect plugs of fuel pump and fuel level sensor. **Attention! Fix the left side fuel line in its position at the frame tube. (That makes fuel tank installation easier)** Remove union nut with wrench for fuel tank ring. (BMW tool No. 16 1 021) If that wrench is not at hand you could try 2 screw drivers located at 180° position behind the notches of the union nut and turn with a 3rd screw driver as a lever. **Attention! If the correct procedure is not adopted to remove the pump unit (e.g.: if a screwdriver or similar is used to pry out the assembly) damage to the sealing lip of the flange could result. Leaks can subsequently occur when the components are reassembled. Pull the fuel pump unit up to remove.** Remove fuel pump unit with sealing ring. Disconnect plug for fuel level sensor.

If the plug is hard to disconnect use oil-spray and a pair of pliers. **Attention! The plug becomes brittle due to the exposure to the fuel. Be careful not to brake it.**

2g) Removing fuel filler pipe

Remove the fuel filler pipe with fuel-lever sensor.

Attention! Don't bend the fuel-level sensor.

2h) Removing fuel tank

Lift the fuel tank at the rear and pull it upwards to remove it.

3) Removing oil cooler

Remove screws with washers. Open hose clips and push down. Disconnect the hoses and catch the escaping oil in a suitable container. Remove the oil cooler.

4) Removing oil cooler line, feed

Clean the crankcase area around the feed line connection. Remove screws from the crankcase, lift off the oil line. Catch the escaping oil in a suitable container.

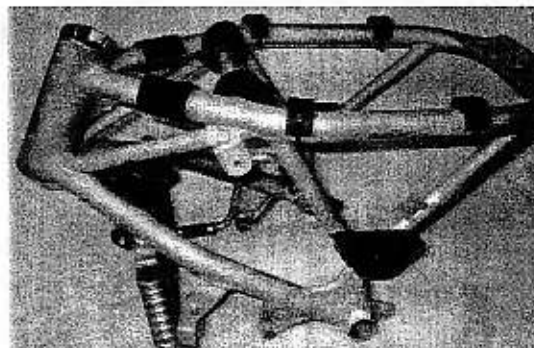
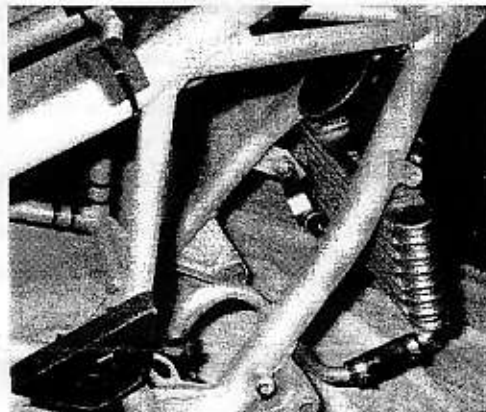
Attention! Thermostat pushes the shim upwards.

5) Removing horn

Disconnect plug of the horn. Remove screw and remove the horn.

6) Installing HPN oil cooler

Push the thermostat into the crankcase and install the oilcooler feed line. (Torque 8Nm) If necessary bend the return line abt 10° forward above the fixture on the engine timing cover. Connect the second hose to the oil cooler. Install the hose clip. Bolt the top cooler mount to the horn mounting point. Mount the horn from the top using the aluminum spacer, horn showing upwards. Turn horn for abt 90°, socket should show into the old direction. Connect plug for the horn, check funktion of the horn. Bolt the bottom cooler mount to the lower mounting point using the aluminum spacer. Torque M6 bolts 6Nm.



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7) Installing tank rubber

Fix the original rubber buffers of the stock tank either using adhesive tape or drill them with a 5mm drill and strap them with cable ties delivered with our tank.

Install 4 HPN tankrubber on the frame using cable ties. Position according to the picture, the two in the rear are 85mm in front of the cross member.

Fix the two side buffers accordingly.

8) Installing HPN tank

Pull the rubber hose from the left and right fuel petcock and disconnect quick action coupling in the rear part. Install tank facing under 45° downwards, make sure that it slips between the two original rubber buffers. Push the tank down gently into its position. **Attention! Guide the central hose out of the inner frame area in the front frame window.** Install original rubber sleeve and bushing in the rear mounting and fix the tank with the M6x35 bolt and washer temporarily.

8a) Installing filler pipe

Check gasket and install filler pipe. Position according to your edding marking.

8b) Installing fuel tank cap

Make sure that the sealing ring is seated correctly under the fuel filler pipe. Hold the fuel cap in position and secure with screws. Don't install the 3 rubber buffers. Torque bolts M5x35 3Nm.

8c) Installing safety valve

Check gasket for damage. Replace the gasket if damaged or swollen. Install gasket and safety valve with the **2 front and 2 rear screws and washers.**

8d) Installing fuel pump unit

Check the sealing face of the flange of the fuel pump unit for damage, paying particular attention to the sealing lip. Always replace the flange if the sealing face shows signs of damage. Check gasket for damage. Replace the sealing ring if it is swollen or damaged. Position gasket in the fuel tank. Grease gasket at the seating face for the fuel pump unit using tire mounting paste. Connect plug of the fuel level sensor. Carefully introduce fuel pump unit into the fuel tank, making sure that the gasket is correctly seated (visible round the entire circumference). Install union nut and tighten it with wrench for fuel tank ring (No 16 1 021). Torque 35Nm. Connect plug of fuel pump and fuel level sensor. Connect the 2 fuel lines. Check O-ring of quick release coupling for damage. **Attention! Lightly touching the latching pin of the female connector can cause the connector to latch. If this happens and force is applied in an attempt to close the male and female elements of the quick action coupling, damage to the O-ring can result and the O-ring will leak. Make sure that the latch is open/pressed when you connect the two elements of the quick action couplings in the fuel lines.** Open the latch on the female coupling of the fuel lines and applying light pressure, press the male adapter into the female coupling until it engages with an audible click.

8e) Installing cross fuel line

Guide the front fuel line behind the housing of the generator pulley to the two fuel petcocks. Connect quick action coupling with the center feed line. **Attention! Lightly touching the latching pin of the female connector can cause the connector to latch. If this happens and force is applied in an attempt to close the male and female elements of the quick action coupling, damage to the O-ring can result and the O-ring will leak. Make sure that the latch is open/pressed when you connect the two elements of the quick action couplings in the fuel lines.** Push the fuel line on both fuel petcocks.

9) Installing tank covers

Take out rear fixing screw and washer of the tank. Install tank centre cover over the bleeder line and bolt it with the two screws to the safety valve mount. Watch for spacers. Install rear fixing screw with the big washer. Install 2 side covers with screw and gray washer. Connect the rubber ring behind the airfilter housing in the latch.

10) Filling fuel tank

Attention! Fuel is flammable and a hazard to health. Observe all applicable safety regulations.

Check tank and all fuel lines for leaks. Start engine and check oil cooler and oil cooler lines for leaks. Check the engine oil level and refill if necessary.

HPN wishes you a safe ride.