

Versatile Series 4

Air Conditioning/Heater Core and Fan Blower Housing Box

(Will refer to it as air box in these instructions)

****VERY IMPORTANT**** Air conditioning system must be discharged by qualified technician before starting because lines must be disconnected.

****ALSO IMPORTANT**** Do not discard original air box because metal pieces fastened to it must be saved for reuse.

TOOLS: 8mm socket and ratchet; 10mm socket; 15mm socket; 17mm socket; 1/4" nut driver; 5/8", 3/4", 7/8" and 1-1/16" wrenches; small pry bar; screwdrivers; pliers; 1/8" drill bit and drill and rivet gun. You will also need Black RTV silicone.

20 Rivets are included

1. Use 17mm socket to remove 10 bolts holding down top of cab. Lift up to unplug 4 wiring harnesses for hazard lights and radio antennae. A helper is necessary to lift off top and lower it to the floor. Remove foam sheet. Using 1/4" nut driver and 10mm socket, remove all bolts/screws holding down metal air box cover. Slide towards front of tractor to release front lip and remove.
2. Unplug and label fan wiring. Using 10mm socket, remove 8 nuts holding down fan bracket. Use a small pry bar to separate 2 metal pieces that are stuck together with a gasket. Then use 10mm socket to remove the 10 bolts in the lower plate and remove it. Now you can access the 4 round directional air vents from the top. The middle part will pop out of the housing if pushed downwards. Unscrew the 4 nuts on the top side of vents and remove.
3. After evacuating the air conditioning system, loosen the hoses on the manifold by the core using 5/8" and 7/8" wrenches. Cap ends to keep out dirt and moisture. It is also recommended to loosen the other ends of the lines in the engine compartment in order to give some slack in the lines to maneuver lines through the air box. Use 3/4" and 1-1/16" wrench and cap the ends. Use a helper to pull some of the hose length into the cab and then up through the top.
4. Use screwdriver to remove hose clamps from heater hoses that go into the core and use a pick if necessary to carefully work loose the hoses and plug ends of hoses and cap ends of core. We recommend replacing heater hoses if believed to be damaged during removal. Remove all grommets and silicone and save grommets for reuse.
5. Remove thermostat wire from center of core simply by pulling by hand. Using 10mm socket, remove 4 bolts holding the core and carefully take it out. Now use screwdriver to loosen hose clamps on 2 drain tubes and pull them loose. Remove 6 more bolts with 10mm socket and Phillips screwdriver to remove 4 flat head bolts from top rear of air box. Use 10mm socket to remove 2 nuts and bolts holding heater valve to right side of air box.

6. Go inside of cab and use 15mm socket to remove 3 bolts along front windshield. Pull 5 knobs off of the climate controls, wiper and damper adjuster and use pliers to remove the nuts behind them. Use small flat screwdriver to remove the 4 screw caps on the rear facing air vent bezel and then a Phillips screwdriver to remove the bezel.
7. Back on top make sure all hoses and wires are clear of air box. It should now be free but may be held in with silicone against the rear air duct box. Lift up on front and work air box loose.
8. **Important!!** Do not discard original air box without removing metal parts fastened to it. Using 8mm socket, loosen the 2 nuts and bolts holding in the pivot brackets for the damper. Remove damper and adjuster mechanism and install in new air box. Next, observe the placement of metal strips that are riveted to original air box, noting whether it is on inside or outside of box and which way heads of rivets are. Use 1/8" drill bit to drill out and remove rivets. Rivet brackets to new air box with rivet gun and provided rivets. If some of the rivets don't line up it may be necessary to run the drill bit through the metal and drill out the plastic slightly. There are 3 different metal plates riveted on. One is hard to find inside the box under a flange. Also use pliers to remove 7 screw clips along top lip of air box and clip them to new box.
9. Assembly is the reverse of disassembly. Put silicone around rear air opening where it seals against rear air duct housing. Push air box into place and start some of the bolts holding it in place with 10mm socket. Next, start the 4 round air vents in their holes to assist with lining everything up and then start the 3 bolts from the bottom by front windshield. Then start the bolts holding in the core and then start tightening everything up. Hook up drain hoses, thermostat wire, heater hoses, air conditioning lines, rubber grommets around hoses and lines, heater valve, the air damper adjustment mechanism, fan mounting plate, fan and bezel and knobs in cab. Use RTV silicone to seal around all hoses and wires to keep air box air tight. Air conditioning can be recharged. Put metal lid of air box on. It may be a good idea to run the tractor with heater on and check for leaks around the heater hoses and core. Finally, put the cab roof back on remembering to hook up antennae wire and hazard lights.