Repair sheet

Replacing seal (108414PA002) and oil-retaining ring (108414BP005)

Particularly in older sprayers, discolouration of the material can develop over time. The material takes on a grey tint, because the material comes in contact with the grease used in the reduction drive. It is then recommended that you replace both the seal and oil-retaining ring.

Step 1

Required tools, part 1.

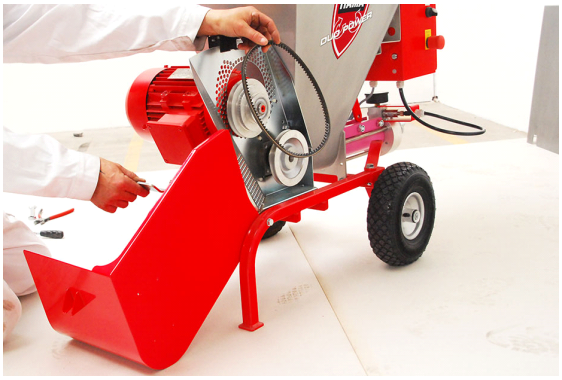
Required tools, part 2.

Required tools, part 3.

Step 2

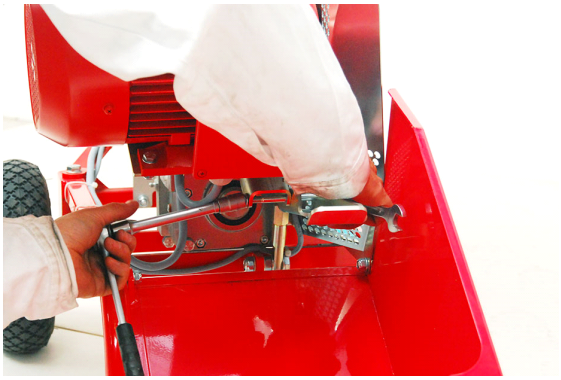
Open the motor cover on the machine.

Step 3

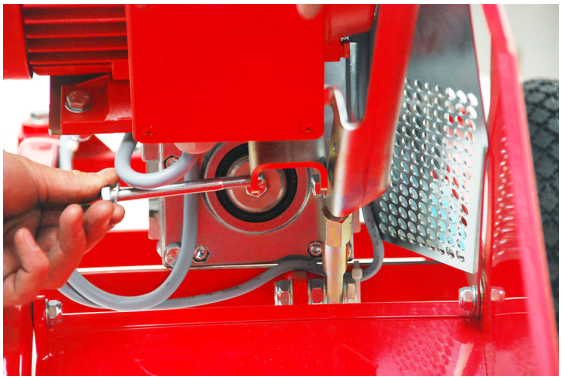


Remove the V-belt (108414BP002) from the pulleys. This is done by moving the handle down, which brings the pulleys closer together.

Step 4



Loosen the bolt that holds the handle of the V-belt tensioner.



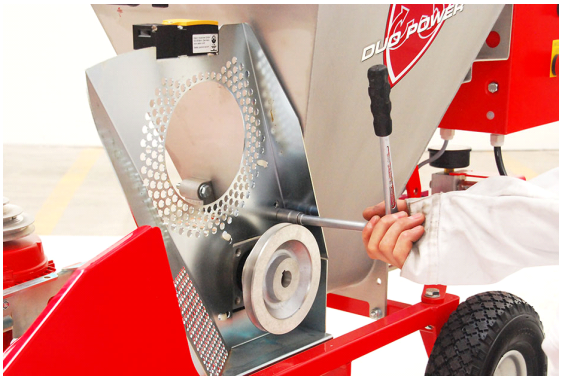
Remove this bolt.

Step 5

Loosen and remove the nut and bolt for the motor base plate.

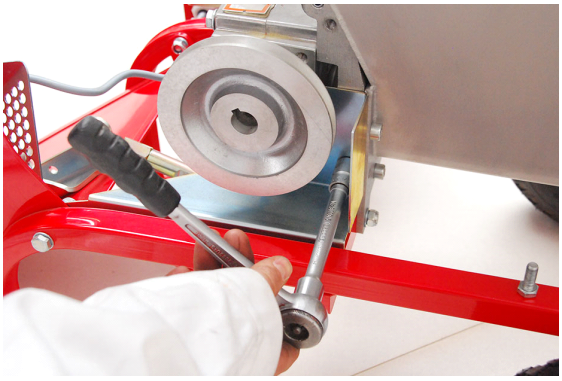
Now remove the motor and motor base plate from the machine.

Step 6



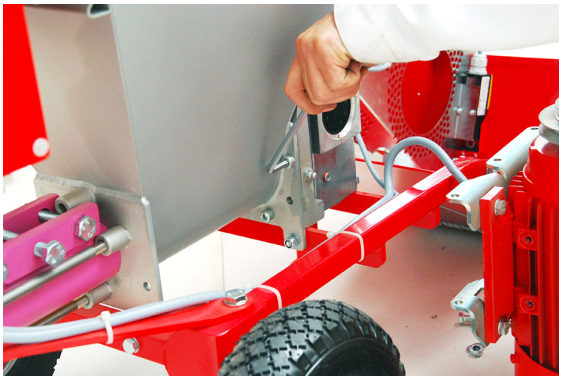
Loosen the bolt for the pulley guard. Move the pulley guard downwards.

Step 7

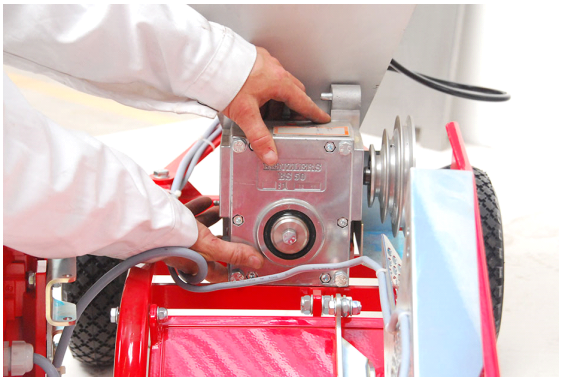


Also loosen the bolt for the bottom guard.

Step 8

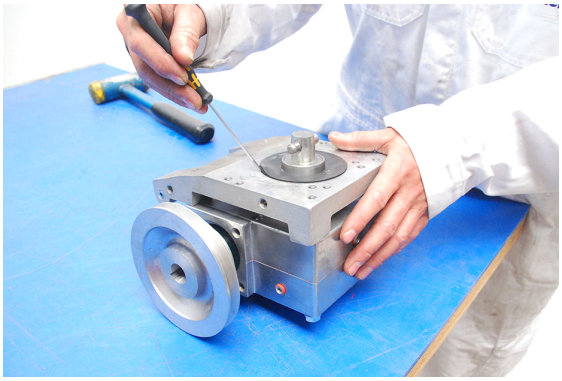


Loosen the four socket-head screws that attach the reduction drive to the stainless steel hopper. There are two socket-head screws on each side.



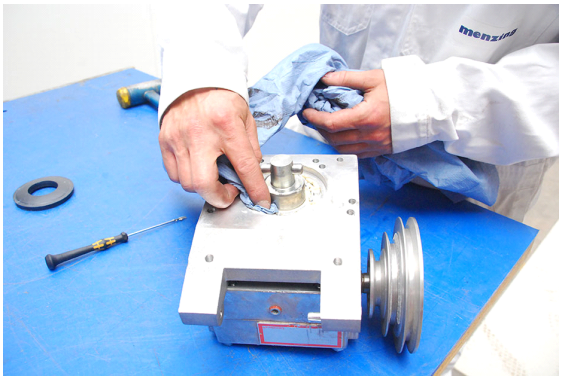
Now remove the reduction drive (108412BP014) from the machine.

Step 9



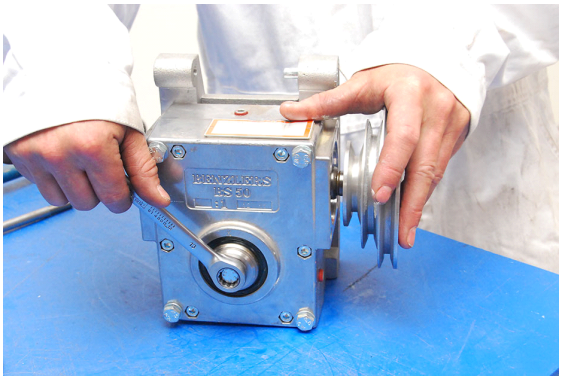
Place the reduction drive on a workbench with the side with the seal (108414PA002) facing up. Use a small screwdriver to remove this seal.

Step 10



Thoroughly clean the cavity in the reduction drive that houses the seal (108414PA002).

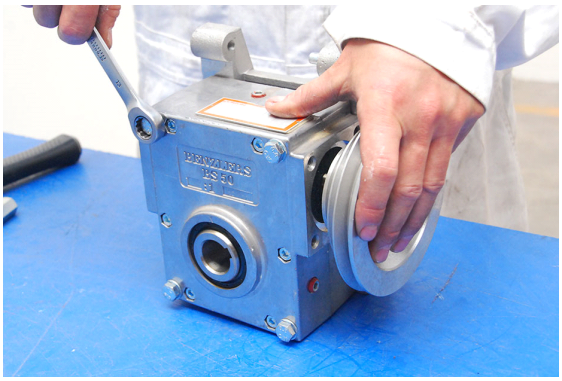
Step 11



Remove the bolt from the spindle MC3V (108402AS007).

Now tap the spindle out of the housing.

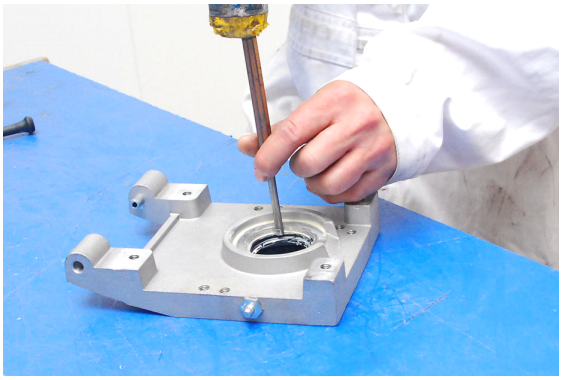
Step 12



Loosen the four bolts that attach the intermediate flange to the reduction drive.

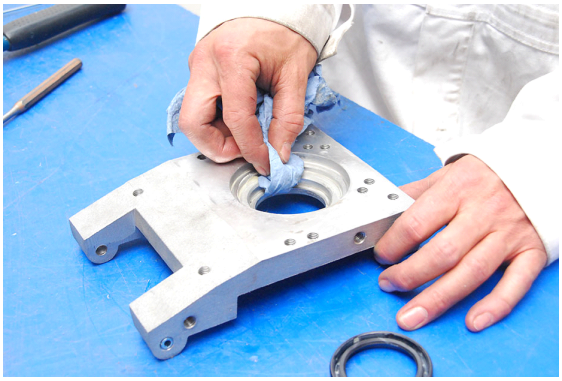
Now remove the intermediate flange.

Step 13



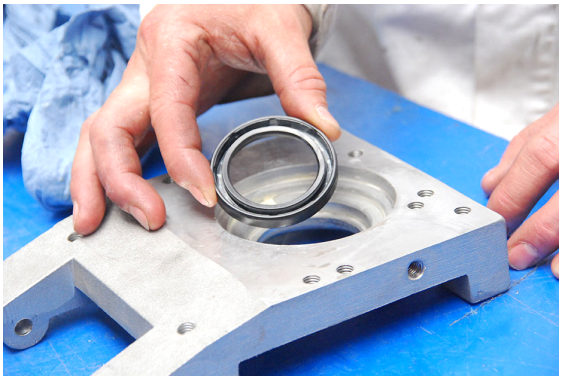
Now carefully tap the oil-retaining ring (108414BP005) out of the intermediate flange. Use a drift punch and hammer. Caution: tap it out carefully.

Step 14

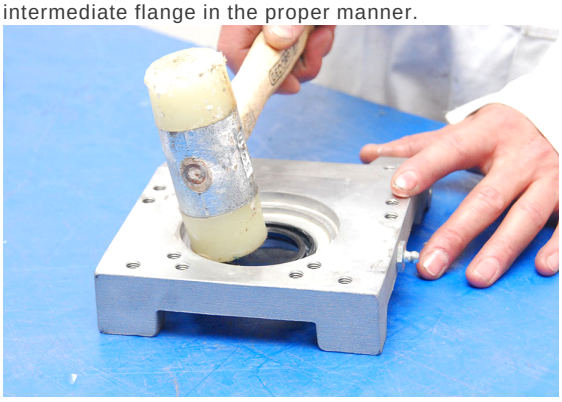


Thoroughly clean the cavity that houses the oil-retaining ring.

Step 15

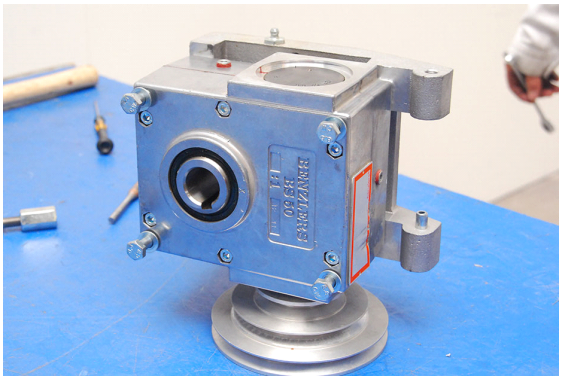


Fit the new oil-retaining ring (108414BP005) in the intermediate flange in the proper manner.



Use a hammer to carefully tap the oil-retaining ring into the intermediate flange.

Step 16



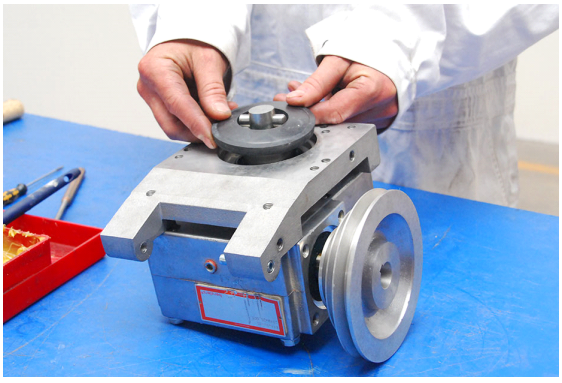
Fit the intermediate flange back on the reduction drive and tighten the four long mounting bolts.

Step 17

Grease the spindle MC3V (108402AS007).

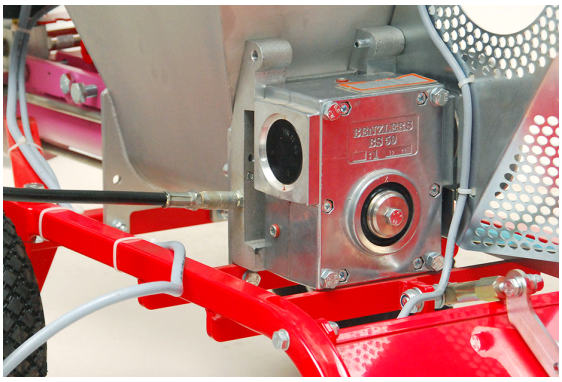
Fit the greased spindle back in the reduction drive and tighten it in place with the bolt and large washer.

Step 18



Place the new seal (108414PA002) in the intermediate flange and press it firmly in place.

Step 19



Now fit the reduction drive (108412BP014) back in the right place on the machine and tighten the four socket-head screws.

Step 19

Greasing the seal. Position a small screwdriver between the seal (108414PA002) and the stainless steel hopper. Fit the grease pump to the grease nipple and pump several strokes.

Step 20

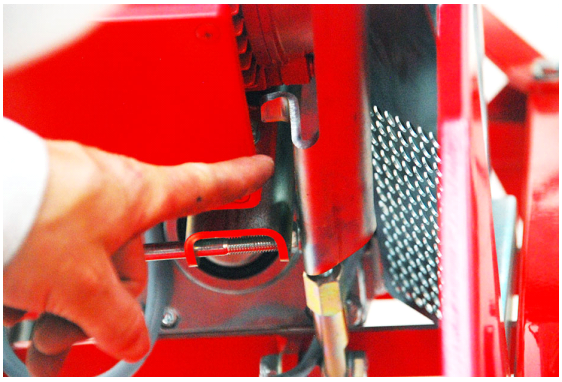
When grease appears at the seal (108414PA002) on the inside of the stainless steel hopper you have applied enough grease. Please note that this procedure must be repeated annually.

Step 21

Now fit the motor and motor base plate back on the machine.

Tighten the mounting bolt with washer that secures the motor base plate.

Step 22



Now fit the handle for the V-belt tensioner back on the machine. Ensure that the lip of the tensioner rests on the motor base plate.

Step 23

Fit the bolt with washer back in the handle of the V-belt tensioner and the motor base plate. Do not overtighten the bolt, because the handle must be free to turn.

Step 24

Now fit the V-belt (108414BP002) back on the pulleys.

Step 24

Ensure that all the bolts and nuts have been tightened firmly. The machine is now ready for use again.