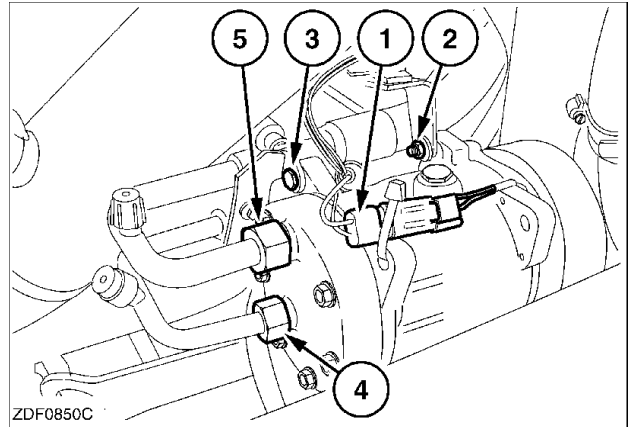


## Compressor - Install (E.40.C.31 - F.10.A.15)

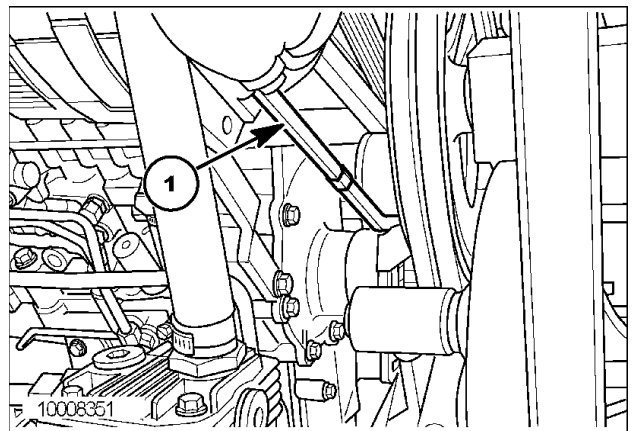
CS540, CS640, CS520, CS660, CL560

1. Set the compressor on its mount and secure into place using the four bolts. Connect the refrigerant suction line (5) and the discharge line (4). Install the both supports and tighten the bolts (2) and (3). Attach the clutch electrical connector (1).



ZDF0850C\_95 1

2. Use a crowbar (1) to rotate the idler pulley toward the rear of the combine. Route the drive belt around the compressor pulley and release pressure on the crowbar.



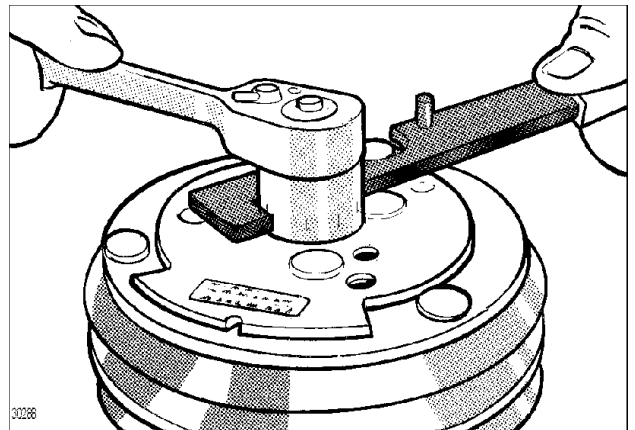
10008351\_96 2

3. Recharge the refrigerant system in accordance with the Recharge/Refilling procedure. Refer to **ENVIRONMENT CONTROL Air-conditioning system - Filling (E.40.C - F.60.A.10)**.

## Compressor Magnetic clutch - Remove (E.40.C.31.80 - F.10.A.10)

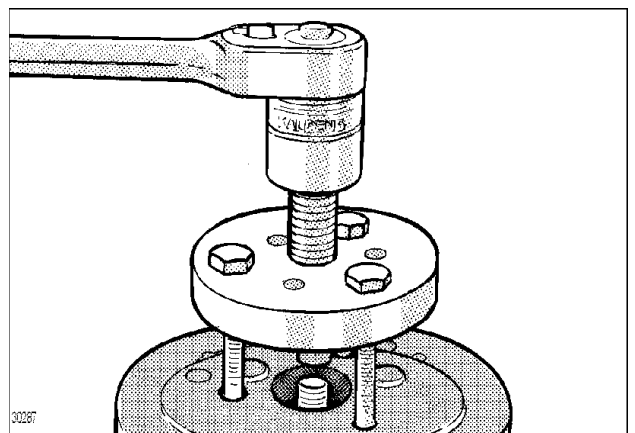
CS540, CS640, CS520, CS660, CL560

1. Insert the two pins of the front plate spanner into any two threaded holes of the clutch front plate. Hold the clutch plate stationary. Remove the hex nut with a **19 mm** socket.



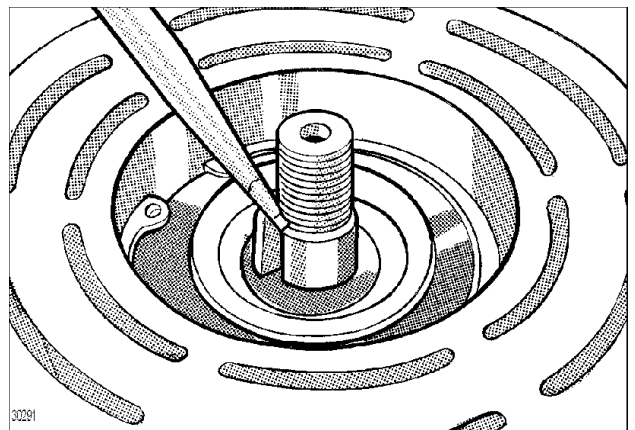
30288 1

2. Remove the clutch plate using a puller. Align the puller centre bolt to the compressor shaft. Thumb tighten the 3 puller bolts into the threaded holes. Turn the centre bolt clockwise until the front plate is loosened.



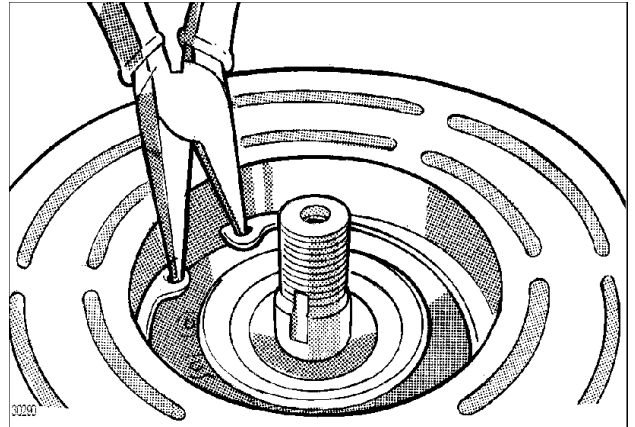
30287 2

3. Remove the shaft key by lightly tapping it loose with a slot screw driver and hammer.



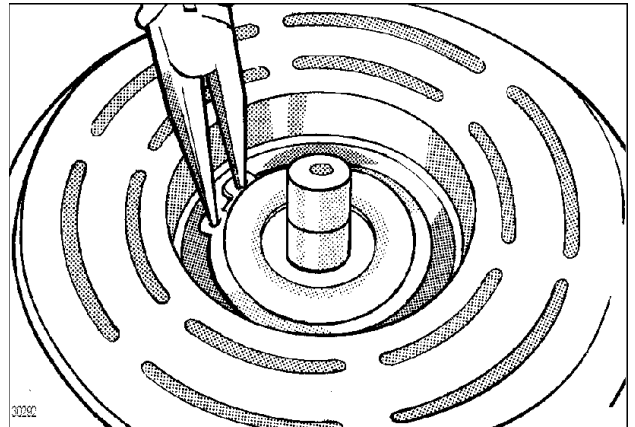
30291 3

4. Remove the internal bearing snap ring.



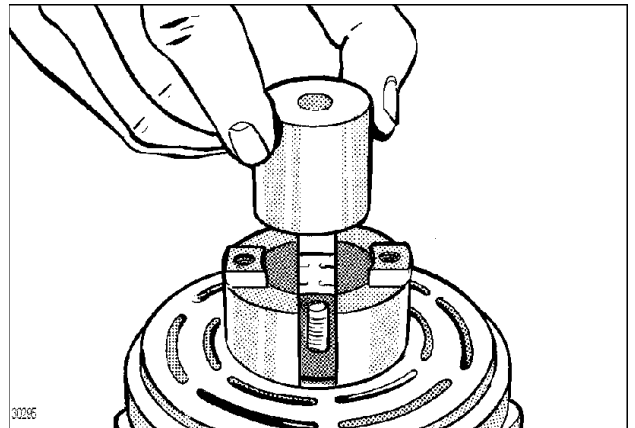
30290 4

5. Remove the front housing external snap ring.



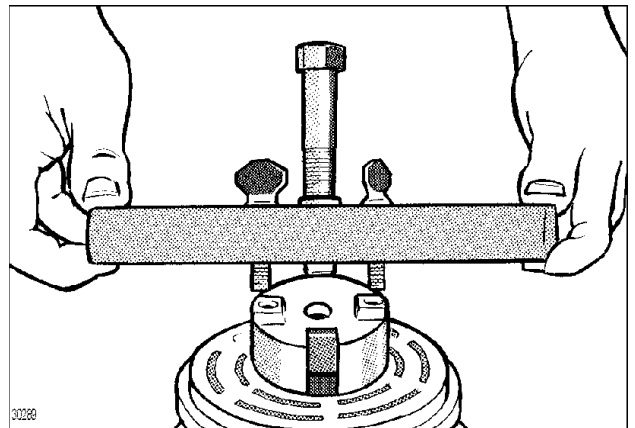
30292 5

6. Remove the rotor pulley assembly:  
Insert the lips of the jaws into the internal bearing snap ring groove.



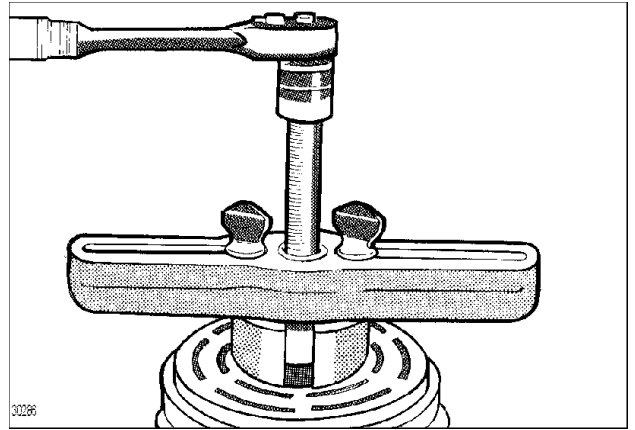
30295 6

7. Place the rotor puller shaft protector over the exposed shaft.



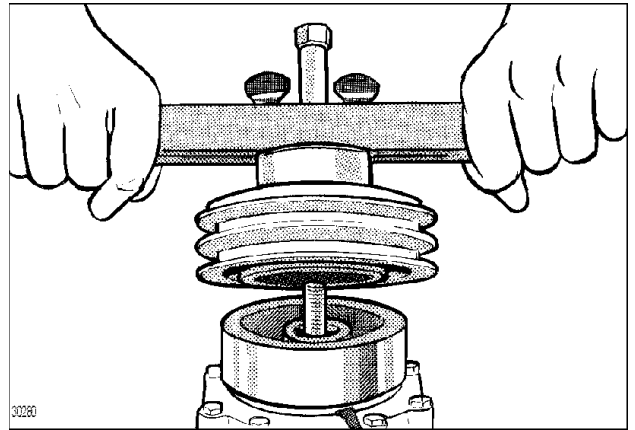
30289 7

8. Align the thumb head bolts to the puller jaws and finger-tighten.



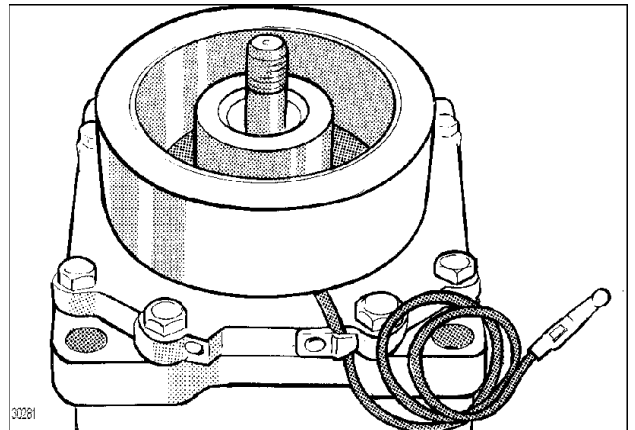
30286 8

9. Turn the puller centre bolt clockwise until the rotor pulley is free.



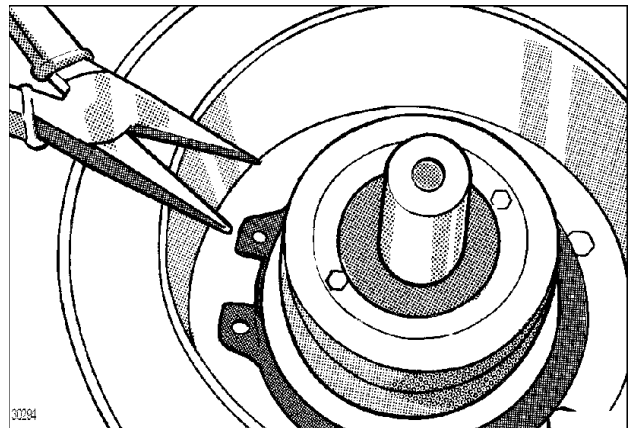
30280 9

10. Remove the field coil.  
Loosen the coil lead wire from the clip on top of the compressor front housing.



30281 10

11. Remove the snap ring and the field coil.

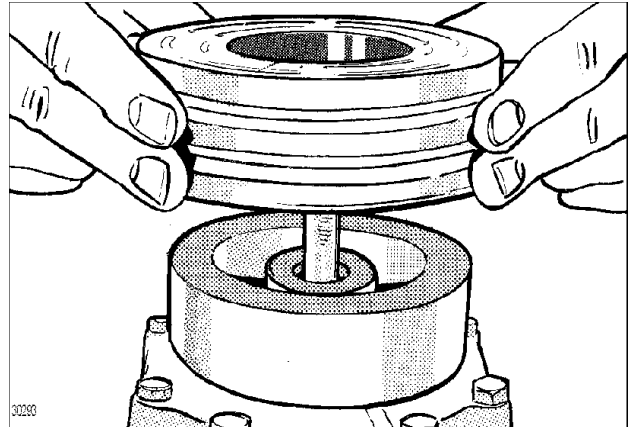


30294 11

## Compressor Magnetic clutch - Install (E.40.C.31.80 - F.10.A.15)

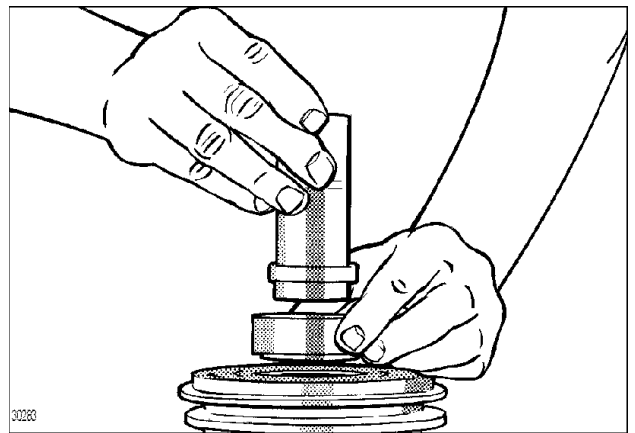
CS540, CS640, CS520, CS660, CL560

1. Install the field coil: the coil flange protrusion must match the hole in the front housing to prevent coil movement and the lead wire must be correctly located.  
Replace the rotor pulley.



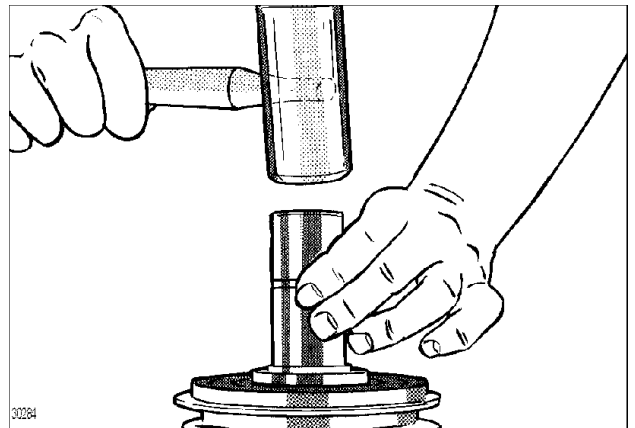
30283 1

2. Support the compressor on the four mounting ears at the compressor rear side. If using a vise, clamp only the mounting ears, never the compressor body itself.  
Align the rotor assembly squarely on the front housing hub.  
Using a hammer and a special tool, tap until the rotor bottoms to the compressor front housing hub.



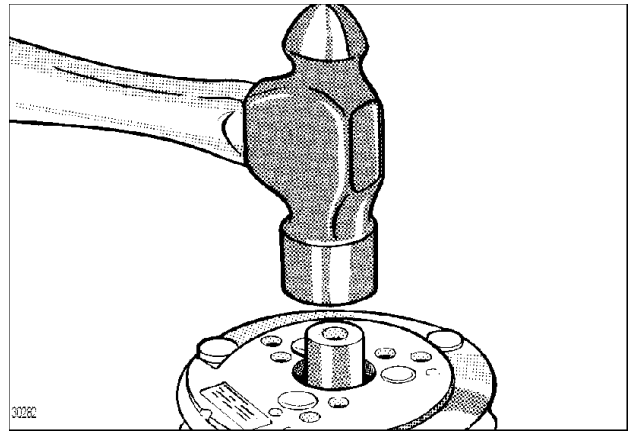
30283 2

3. Reinstall the internal bearing snap ring.  
Reinstall the front housing external snap ring.



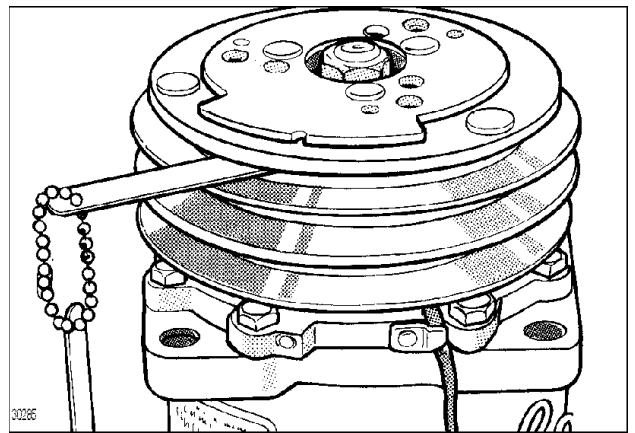
30284 3

4. Replace the front plate assembly.  
Check that the original clutch shims are in place on the compressor shaft.  
Replace the compressor shaft key.  
Align the front plate key way to the compressor shaft key.  
Using a shaft protector, tap the front plate to the shaft until it has bottomed to the clutch shims.



30282 4

5. Replace the shaft hex nut and torque between **35 - 40 Nm (26 - 29.5 lb ft)**.  
Check the air gap with a feeler gauge (**0.4 - 0.8 mm**). If the air gap is not consistent around the circumference, lightly pry up at the minimum variations. Lightly tap down at points of maximum variation.

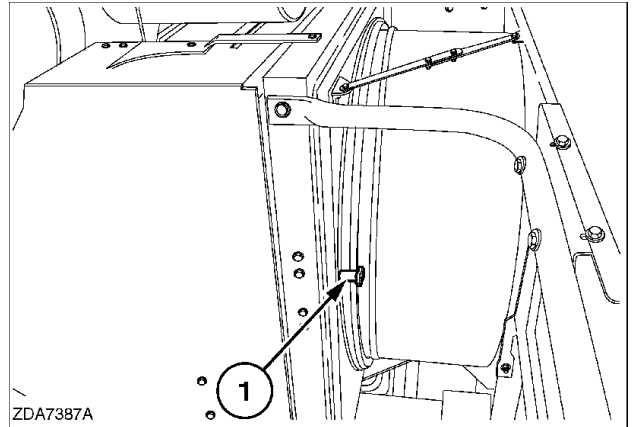


30285 5

## Condenser - Remove (E.40.C.32 - F.10.A.10)

CS540, CS640, CS520, CS660, CL560

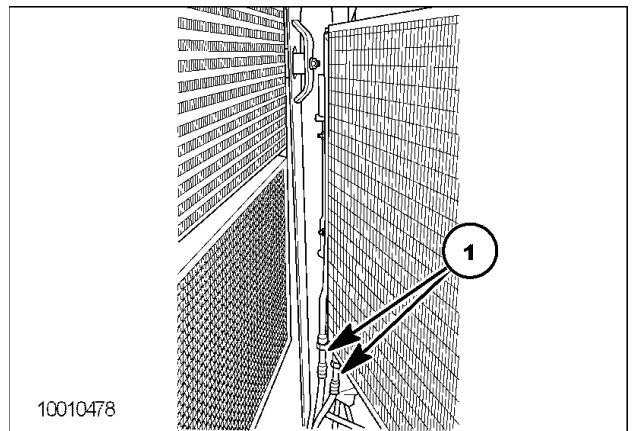
1. Recover refrigerant in accordance with the Refrigerant Recovery procedure **ENVIRONMENT CONTROL Air-conditioning system - Drain fluid (E.40.C - F.35.A.20)**.  
Open the rotary dust screen door with the key (1), to gain access to the air-conditioning condenser.



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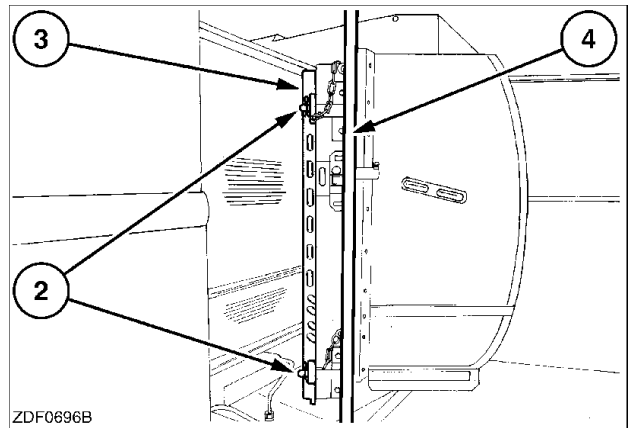
2. Disconnect and cap the refrigerant lines (1) from the condenser. The fittings are different sizes, labeling should not be required.

**IMPORTANT:** Use a wrench on the condenser tube nut to prevent twisting the condenser tube.



10010478 2

3. Remove the two lynch pins (2) to separate the condenser (3) from the rotary dust screen door (4). Lift-up the condenser out of his hinges.

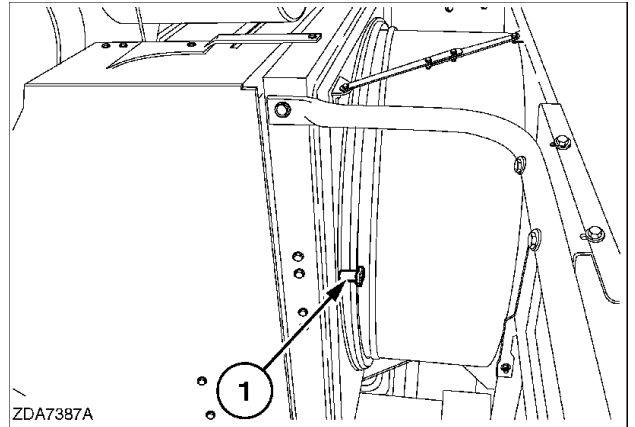


ZDF0696B 3

## Condenser - Install (E.40.C.32 - F.10.A.15)

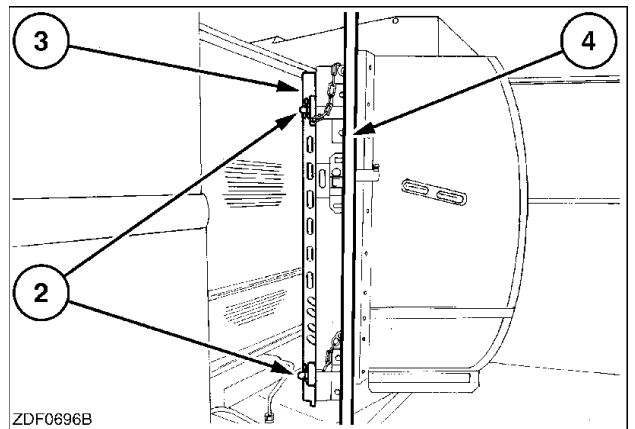
CS540, CS640, CS520, CS660, CL560

1. Open the rotary dust screen door (1) to gain access to the mounting area for the air-conditioning condenser.



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2. Hang-up the condenser (3) into the hinges. Connect the condenser (3) with the rotary dust screen door (4) and install the two lynch pins (2).

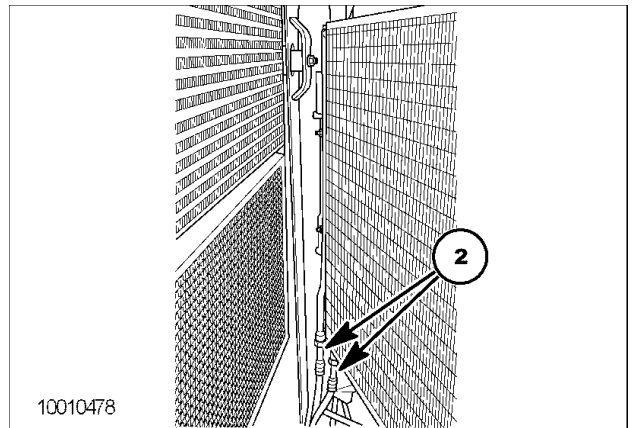


ZDF0696B\_98 2

3. Replace the O-rings, and lubricate them with PAG oil. Attach the hoses (2) to the condenser, and tighten to the proper torque.

**IMPORTANT:** Use a wrench on the condenser tube nut to prevent twisting the condenser tube.

**NOTE:** The fittings are different sizes.



10010478\_99 3

4. Recharge the refrigerant system in accordance with the Recharge/Refilling Procedure **ENVIRONMENT CONTROL Air-conditioning system - Filling (E.40.C - F.60.A.10)**.