# 83-525 Checking oil level in A/C compressor

Operation number of operation texts and work units or standard texts and flat rates

When working on the air conditioner, correct compressor oil level according to items 1 through 3, depending on the type of damage.

#### Oil capacity

Type of oil - compressor oil (approved compressor oils, see Specifications for Service Products, sheet no. 362)

New oil capacity in A/C compressor

for R12 refrigerant for R134a refrigerant

120 cm<sup>3</sup> 160 cm<sup>3</sup>



Parts which have come into contact with compressor oil for R12 or R134a may only be installed in systems operating with the same refrigerant.

#### 1. Following repair or slow refrigerant loss

#### Add refrigerant:

new A/C compressor. .......

Do not add compressor oil.

20 cm3 fresh oil.

Fill new A/C compressor with same quantity as drained from A/C compressor which has been removed plus 10 cm<sup>3</sup> (for fluid reservoir) (oil drained from new compressor can be used).

Repair A/C compressor (e.g. front shaft seal) and fluid	d
reservoir (drier). For this purpose drain refrigerant	
slowly (vacuum side)	Fill 20 cm <sup>3</sup> of fresh oil in compressor.

### Checking and correcting oil level in A/C compressor

A/C compressor ..... Remove and reinstall (83-530). If the A/C compressor is replaced ...... drain oil from removed A/C compressor while holding the A/C compressor with the pressure and vacuum opening pointing down and allow the oil to drain through the pressure and vacuum openings for approx.10 minutes. This process can be speeded up by turning the drive shaft (clutch) a number of times. out of new A/C compressor. Allow oil to drain Determine how much compressor oil has drained out of the original A/C compressor and pipeline. Fill new A/C compressor with the same quantity of fresh oil through the vacuum opening, plus 10 cm<sup>3</sup> for the new fluid reservoir. When repairing the A/C compressor (e.g. front shaft seal) replace fluid reservoir, and add a further 20 cm<sup>3</sup> of new compressor oil to the A/C

compressor.

### 2. System suddenly empty (e.g. broken hose or accident)

Replace defective part and fluid reservoir as	
described in items 1 and 3, fill with specified quantity	
of oil	Add 40 cm <sup>3</sup> of compressor oil in addition.

#### Note

After evacuating the system (approx. 30 minutes) charge air-conditioner with approx. 200 g of refrigerant R12 or R134a and check for leakage.

Then extract refrigerant again (recycling) and reevacuate (approx. 15 minutes). Then fill the system with the specified quantity of refrigerant and check air conditioner for leaks.

## 3. Replacing parts