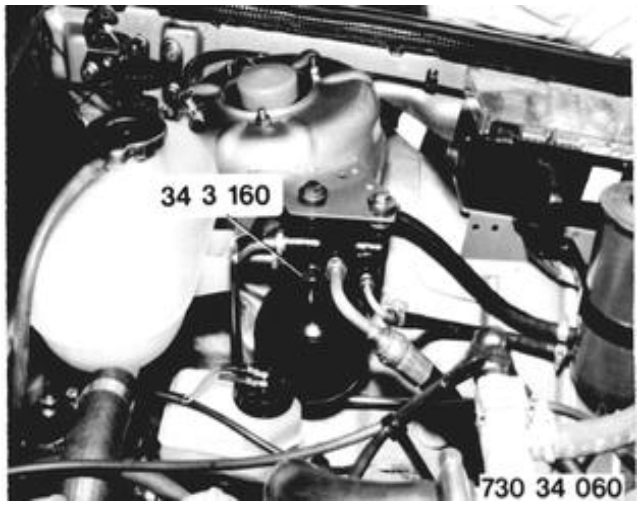
# 34 00 015 - Brake booster system, checking

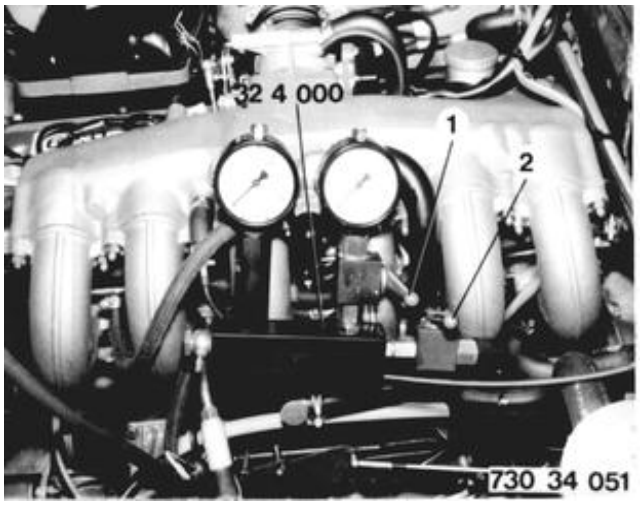
**From model '83**
**CHECKING BRAKE BOOSTER SYSTEM**

Stop engine and operate brake pedal about 20 times with a force equal to full stop braking action to discharge the hydraulic reservoir.
Pull off wires and detach warning switch.
Apply Special Tool 34 3 160.
**Installation:** Tightening torque[1]).

**->** [1]) See Specifications

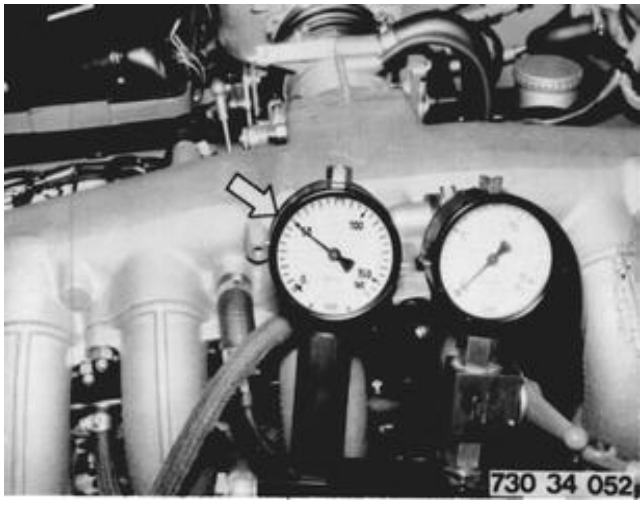



Connect Special Tool 32 4 000 (pressure meter) on Special Tool 34 3 160 (adapter).
Shut both valves (1 and 2).

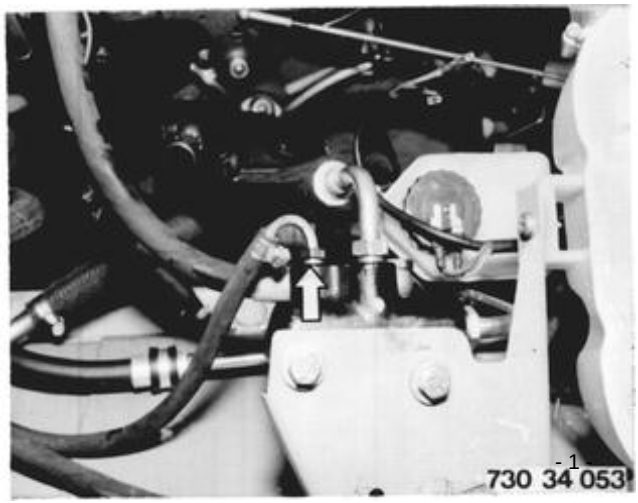



Checking Pressure Regulator and Booster for Leaks:
Start engine and observe pressure meter.
Stop engine after reaching upper switching off pressure[1]).

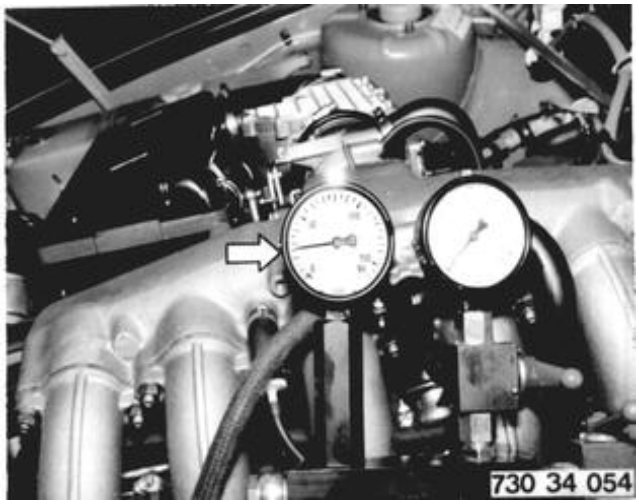
**->** [1]) See Specifications



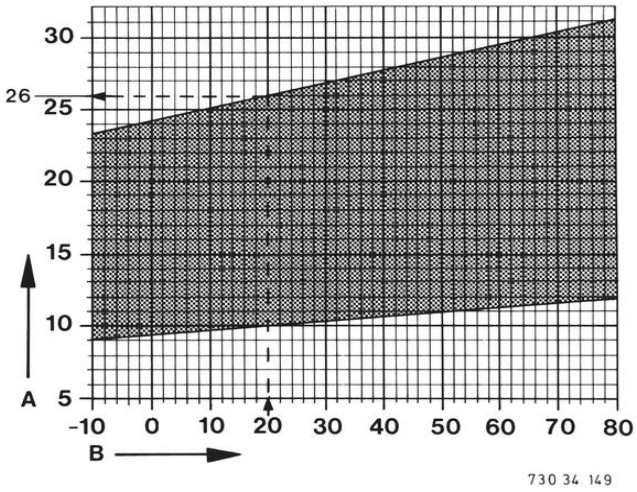

If the reservoir pressure (pressure meter reading) drops more than 5 bar (71 psi) within 5 minutes, disconnect return line on the pressure regulator.
If oil leaks from return line bore in pressure regulator, pressure regulator leaks and must be replaced.
If oil does not leak and reservoir pressure still drops, brake booster has a internal leak and must be replaced.



Checking Function of Hydraulic Reservoir
Operate brake pedal about 20 times to reduce the reservoir pressure (pressure meter reading) to zero.
Start engine and observe pressure meter.
Pressure meter should show a value according to diagram below immediately.
If this value is not reached or exceeded, replace the hydraulic reservoir.




Gas Charging Pressure/Hydraulic Reservoir Temperature Diagram
A = Gas charging pressure in bar
B = Hydraulic reservoir temperature in ° C
Permissible Gas Charging Pressure of Hydraulic Reservoir Depending on Pertinent Temperature Conditoins

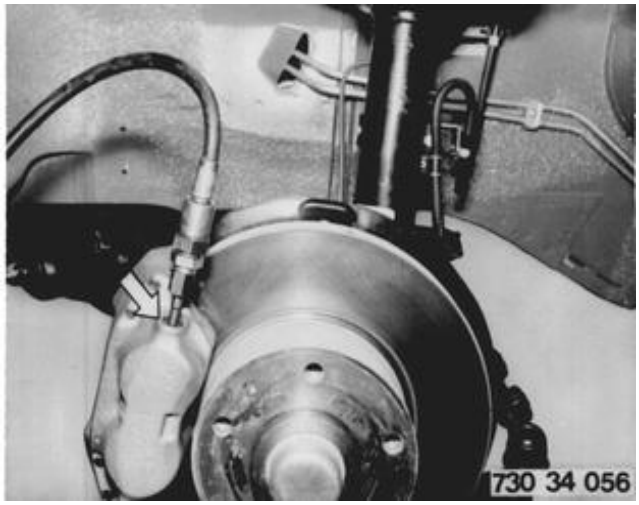



Checking Function of Pressure Regulator:
Start engine.
Pressure continues rising to upper switching pressure[1]).
Operate brake pedal with engine running to drop reservoir pressure (pressure meter reading) to lower switching pressure[1]).
Afterwards pressure regulator will switch to charging reservoir (pressure rises again).
Replace pressure regulator, if test values do not conform with specifications.
Drop reservoir pressure (pressure meter reading) to zero by operating brake pedal about 20 times.
Remove pressure meter and check oil level in supply tank.

**->** [1]) See Specifications


Checking Function of Brake Booster and Tandem Brake Master Cylinder:
Remove and install front wheel 36 10 300.
Unscrew bleeder screw on caliper.
Connect and bleed pressure tester.

**->** * See Specifications



Mount pedal force meter on brake pedal.
Apply specified force[1]) on brake pedal with engine running (full hydraulic reservoir).
The hydraulic line pressure of the service brake system should then be the specified value[1]).
If these values are not reached on a fully intact service brake system, replace brake booster.
**Note:** This test does not include checking the service brake system for leaks.

**->** [1]) See Specifications