

Brake Servicing

HYDRAULIC BRAKE BLEEDING

DESCRIPTION

Hydraulic system bleeding is necessary any time air has been introduced into system. Bleed brakes at all four wheels if master cylinder lines have been disconnected or master cylinder has run dry. Bleeding may be done either by using pressure bleeding equipment or by manually pumping brake pedal and using bleeder tubes.

METERING VALVE

On disc brake equipped vehicles, the metering section of combination valve must be deactivated before bleeding. This will allow fluid to front brakes. Disable metering valve by holding valve in open position with a suitable tool, (J-23774-01, American Motors; C-4121, Chrysler Corp.; J-22742 Ford Motor Co.; J-23709, General Motors Exc. Cadillac; J-23770, Cadillac).

NOTE — Do not use rigid clamp, wedge or block in place of appropriate tool; complete loss of front brakes could result.

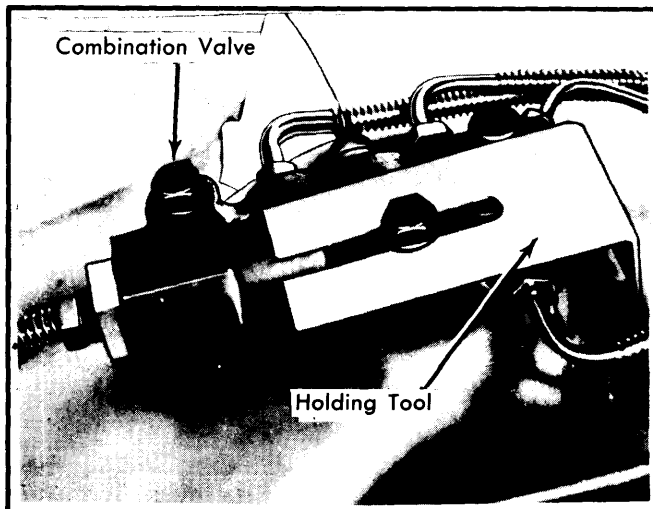


Fig. 1 Deactivating Metering Valve for Bleeding (Typical Method and Tool)

MANUAL BLEEDING

Fill master cylinder, then install bleeder hose to first bleeder valve to be serviced. See *Bleeding Sequence*. Place other end of hose in clean glass jar partially filled with clean brake fluid so end of hose is submerged in fluid. Open bleeder valve $\frac{3}{4}$ -1 turn. Depress brake pedal slowly through its full travel. Close bleeder valve, then release pedal. Repeat procedure until flow of fluid shows no signs of air bubbles.

NOTE — Check fluid level in master cylinder frequently during bleeding to insure air does not enter system.

PRESSURE TANK BLEEDING

Clean master cylinder cap and surrounding area, then remove cap. With pressure tank at least $\frac{1}{3}$ full, connect to master cylinder using suitable adapters. Attach bleeder hose to first bleeder valve to be serviced. See *Bleeding Sequence*. Place

other end of hose in clean glass jar partially filled with clean brake fluid so end of hose is submerged in fluid. Open release valve on pressure bleeder. Unscrew valve $\frac{3}{4}$ -1 turn noting fluid flow. When fluid flowing from cylinder to cup is free of bubbles, close bleeder valve securely. Bleed remaining cylinders in correct sequence and in same manner. Remove tool from combination valve.

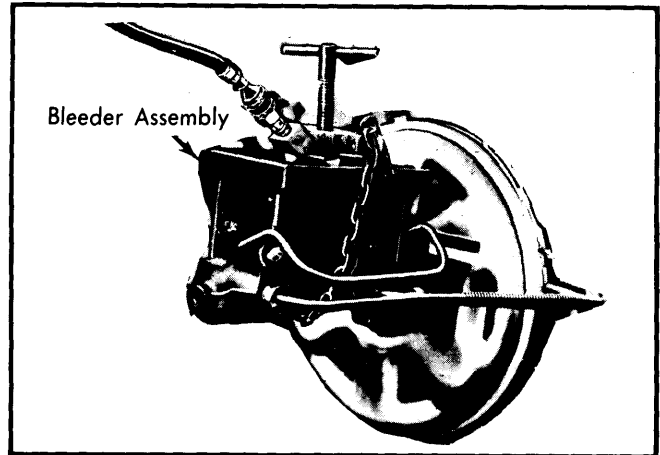


Fig. 2 Pressure Bleeder Installation (Typical)

Pressure Bleeding Pressures

Application	Psi
American Motors	15-20
Chrysler Corp.	Ⓞ35
Ford Motor Co.	10-30
General Motors	
Cadillac	Ⓞ30
All Other Models	20-25

- ① — Use 25 psi max. on master cyl. with plastic reservoirs.
- ② — Use 20-25 psi on Eldorado and Seville.

BLEEDING SEQUENCE

Before bleeding system, exhaust all vacuum from power unit by depressing brake pedal several times. Bleed master cylinder if equipped with bleed screws, then bleed wheel cylinders or calipers in following sequence:

Pressure Bleeding Sequence

Application	Sequence
American Motors	RR, LR, RF, LF
Chrysler Corp.	RR, LR, RF, LF
Ford Motor Co.	Longest Lines First
General Motors	
Corvette	LR, RR, LF, RF
Citation, Omega	
Phoenix, Skylark	RR, LF, LR, RF
All Other Models	RR, LR, RF, LF