

# Brake Servicing

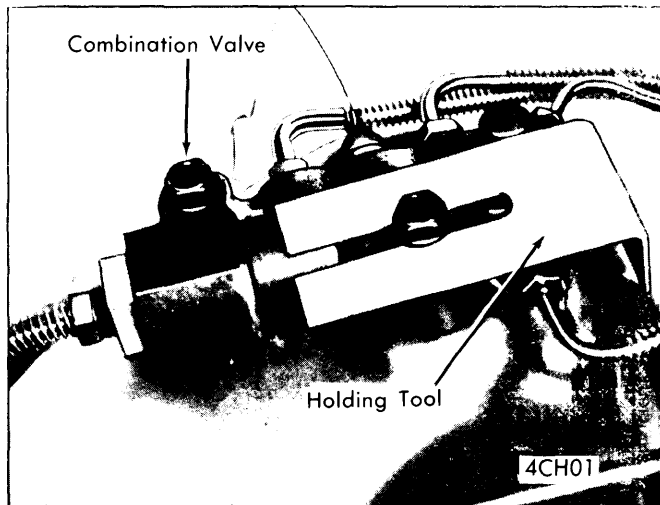
## HYDRAULIC BRAKE BLEEDING

### 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 using bleeder tubes. **NOTE** — Chrysler Corp. does not recommend manual bleeding.

### METERING VALVE

On disc brake equipped vehicles, metering section of combination valve must be deactivated before bleeding to permit fluid flow to front brakes. Disable metering valve by holding in the open position using suitable tool (J-23774-01, American Motors; C-4121, Chrysler Corp.; J-22472, Ford Motor Co.; J-23709, General Motors except Buick; J-23770, Buick).



DEACTIVATING VALVE FOR BLEEDING (TYPICAL)

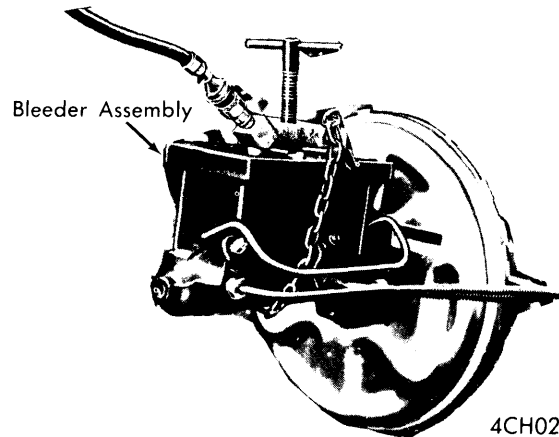
### MANUAL BLEEDING

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. **NOTE** — Follow equipment manufacturers pressure specifications, except if noted below. Unscrew bleeder 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 the same manner. Remove tool from combination valve.



PRESSURE BLEEDER INSTALLED (TYPICAL)

### Pressure Bleeder Settings

Application	Psi
Buick, Oldsmobile .....	①35-45
Pontiac, Exc. Astre .....	①35-45
Astre .....	20-30
Cadillac.....	30 Min.
Chevrolet.....	20-30
Chrysler Corp. ....	35
Ford Motor Co. ....	10-30

① — Use maximum pressure bleed ball will take without leaking.

### 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:

Application	Sequence
American Motors .....	Longest Line First
Chrysler Corp. ....	RR, LR, RF, LF
Ford Motor Co. ....	Longest Line First
General Motors	
Buick, Oldsmobile .....	①RR, LR, RF, LF
Pontiac, Exc. Astre .....	①RR, LR, RF, LF
Astre .....	Nearest to Master Cyl. First
Cadillac .....	RR, LR, RF, LF
Chevrolet .....	Nearest to Master Cyl. First

① — If pressure bleeding, bleed both rear brakes simultaneously, then bleed front brakes simultaneously.