



Technical Service Information

FORD E4OD

REPEATED CODE 62 ON AMBULANCE, WITH HARSH SHIFTS AND O.D. CANCEL LIGHT FLASHING

COMPLAINT: An ambulance equipped with an E4OD transmission continues to store trouble code 62, even after disconnecting the battery for a minimum of 30 minutes, and then allowing the computer to relearn a 1 to 1 gear ratio.

CAUSE: The cause may be, the computer losing Keep Alive Power (KAPW). Most ambulance manufacturers build the vehicles with a master power shutoff switch. When the drivers park the vehicle for any extended period of time, they turn the master switch to the "OFF" position. When the master switch is turned off, Keep Alive Power (KAPW) is lost to the TECA controller, and it goes brain dead. This allows the computer to forget what 1 to 1 ratio is, and it must be relearned before driving again, otherwise trouble code 62 may be set again.

CORRECTION: The cause may be, the computer losing Keep Alive Power (KAPW). Most ambulance manufacturers build the vehicles with a master power shutoff switch. When the drivers park the vehicle for any extended period of time, they turn the master switch to the "OFF" position. When the master switch is turned off, Keep Alive Power (KAPW) is lost to the TECA controller, and it goes brain dead. This allows the computer to forget what 1 to 1 ratio is, and it must be relearned before driving again, otherwise trouble code 62 may be set again.

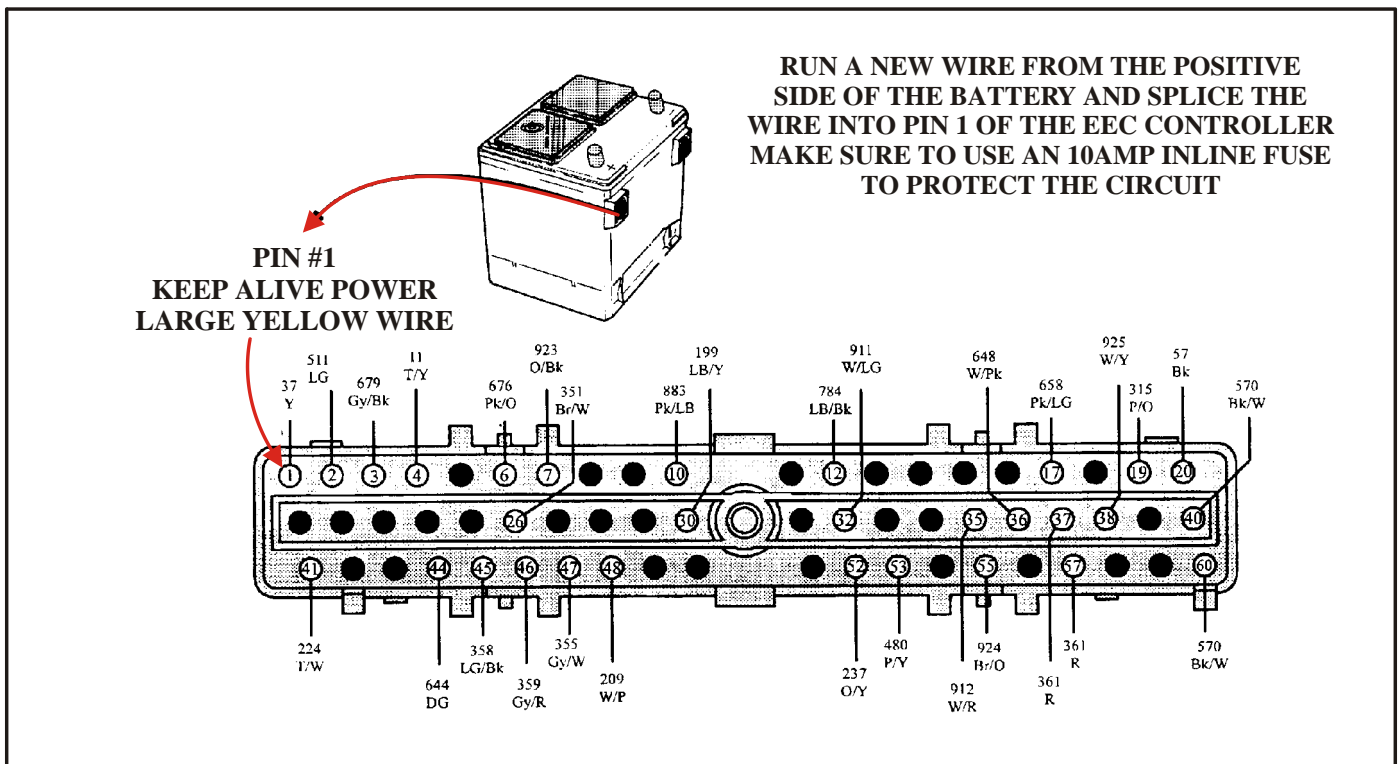


Figure 1

EARLY 1989 LOCATIONS 14 RUBBER BALLS IN THE CASE

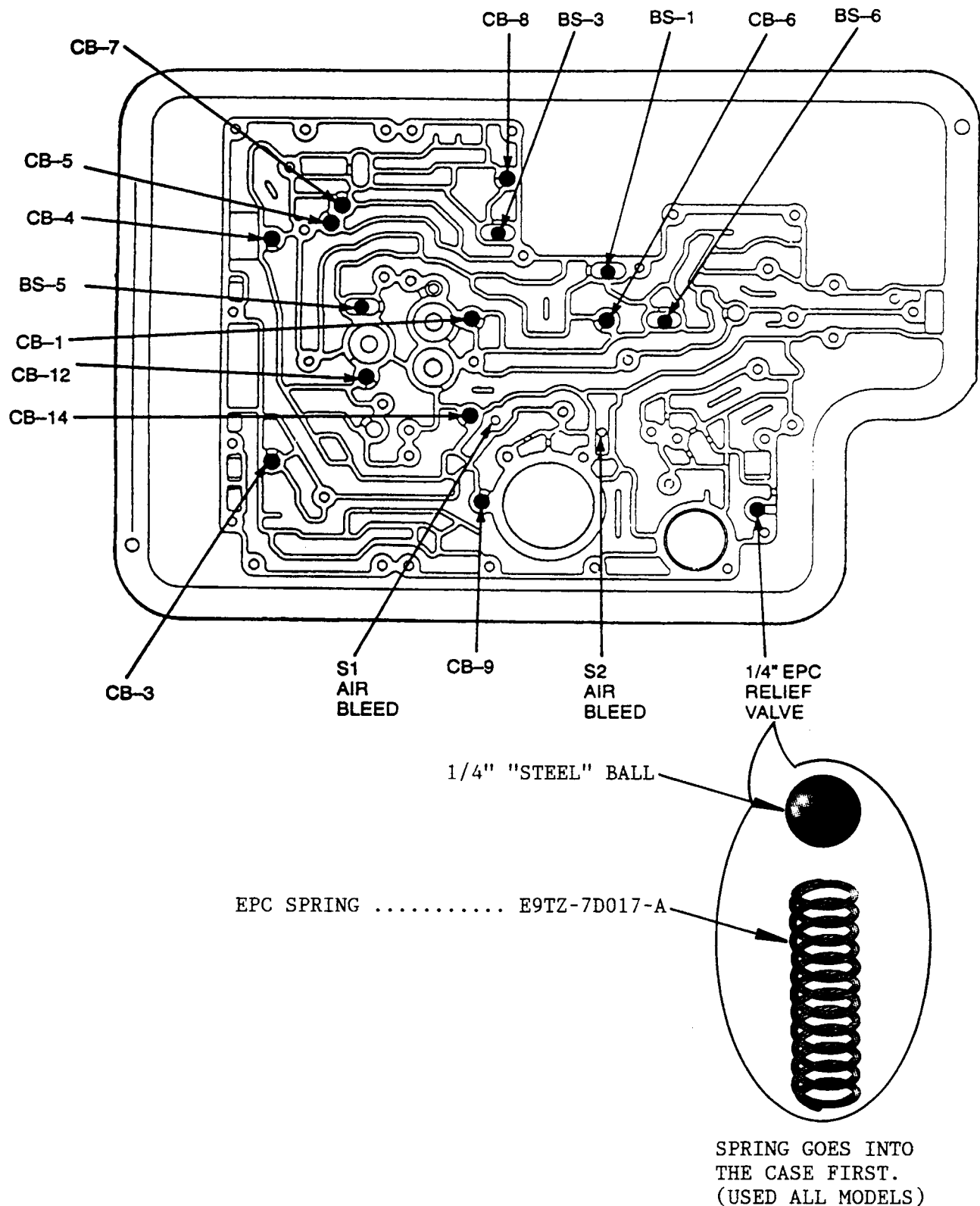
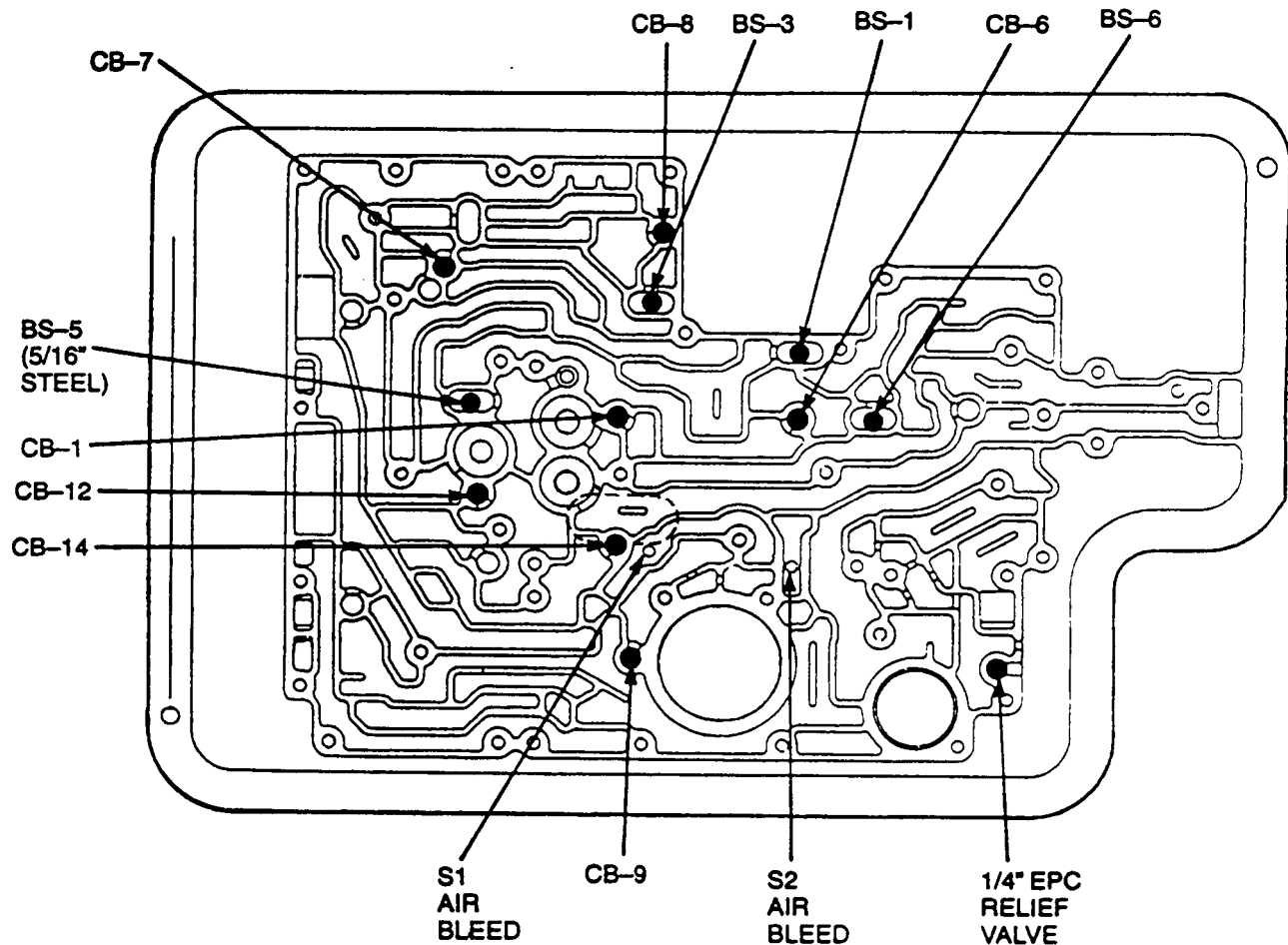


Figure 2

LATE 1989 LOCATIONS 10 RUBBER BALLS AND ONE 5/16 STEEL BALL IN THE CASE



1/4" "STEEL" BALL

EPC SPRING E9TZ-7D017-A

SPRING GOES INTO
THE CASE FIRST.
(USED ALL MODELS)

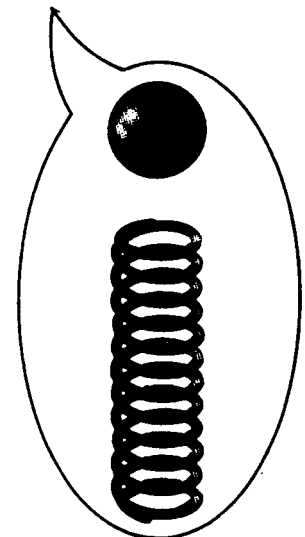


Figure 3

1990-1994 CHECK BALL LOCATIONS 9 RUBBERS IN CASE

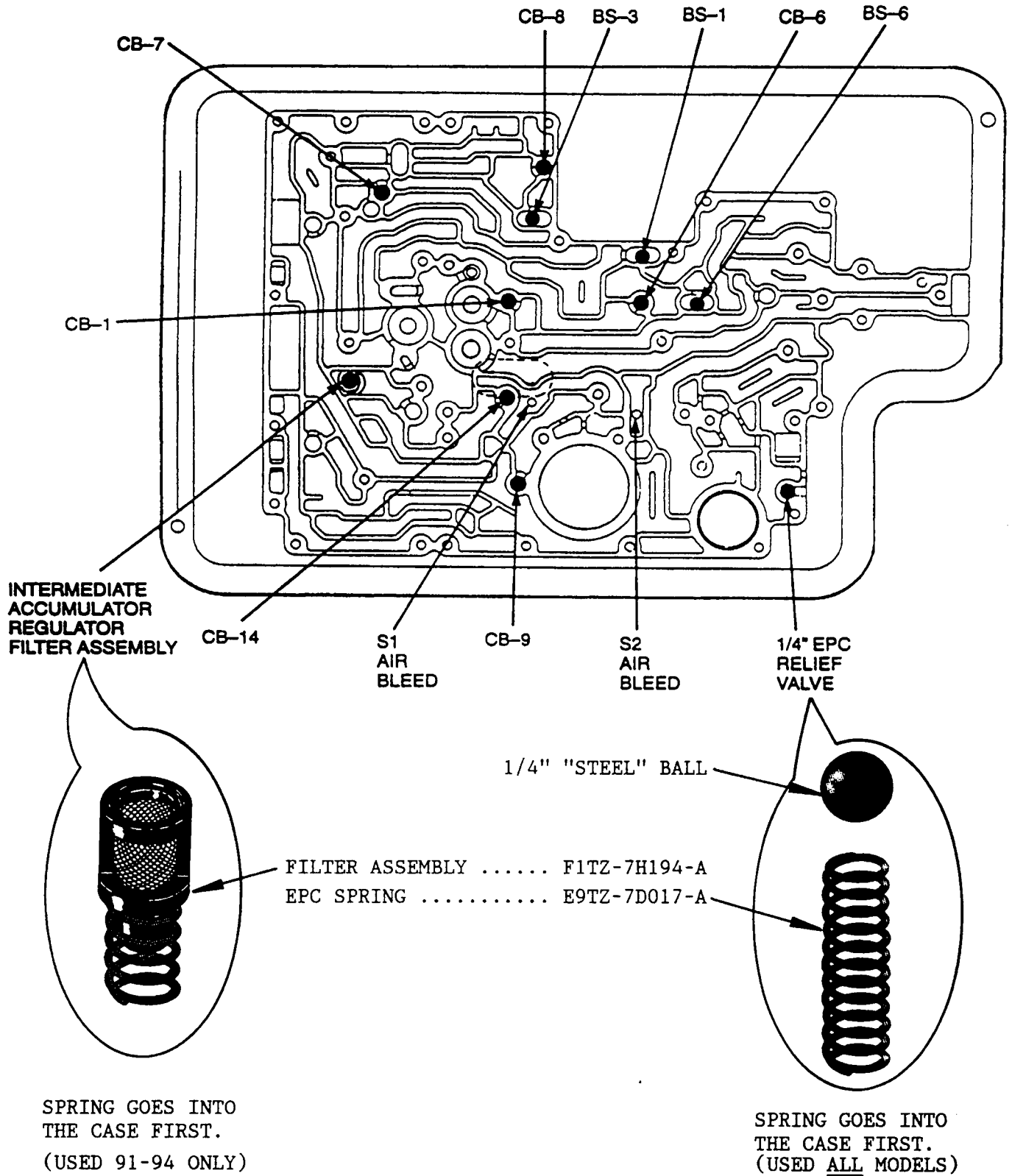


Figure 4



Technical Service Information

- CB-1:** Feeds reverse flow through 4-3-2 shift timing valve.
- CB-3:** Bypasses intermediate accumulator plunger feed orifice during 2-1.
- CB-4:** Bypasses overdrive accumulator plunger feed orifice during 4-3.
- CB-5:** Bypasses direct accumulator plunger feed orifice during 3-2.
- CB-6:** Forces direct clutch to exhaust through orifice during 3-2 downshift.
- CB-7:** Forces overdrive clutch to exhaust through orifice during 4-3 downshift.
- CB-8:** Forces coast clutch feed fluid through orifice for 4-3 downshift and manual 1 or 2 pull-ins while allowing free exhaust.
- CB-9:** Forces band servo apply pressure through orifice while bypassing the orifice on exhaust.
- CB-12:** Facilitates fast exhaust of direct clutch when coming out of reverse.
- CB-13:** (Main Control Body) Forces forward engagement pressure through orifice while allowing free exhaust.
- CB-14:** Forces intermediate clutch to exhaust through orifice during 2-1 downshift.
- BS-1:** Separates manual two flow and reverse flow to the 4-3-2 timing valve and the coast clutch shift valve.
- BS-2:** (Main Control Body) Separates manual two flow and solenoid two flow into the 1-2 manual transition valve which supplies flow to prevent 1-2 shift valve from shifting.
- BS-3:** Separates solenoid four flow from either the manual two flow or the reverse flow which shifts the coast clutch shift valve.
- BS-5:** Separates reverse flow and direct clutch accumulator flow into the direct clutch.
- BS-6:** Separate two and reverse flow at low reverse modulator valve.

EPC RELIEF VALVE

(SPRING AND 1/4" STEEL BALL)

Electronic Pressure Control blowoff valve controls EPC pressure to a maximum of 690 kPa (100 psi).

AIR BLEED BALL CAPSULES

Solenoid 1, Solenoid 2 and electronic pressure hydraulic circuits have air bleed check balls. Their purpose is to rid the circuits of air and ensure an immediate response at startup. The S1 and S2 air bleeds are located in the transmission case. The EPC air bleed is located in the pump control body.

USAGE CHART		
EARLY 89	LATE 89	90-94
X (CASE)	X (CASE)	X (CASE)
X (CASE)		
X (CASE)		
X (CASE)		
X (CASE)	X (CASE)	X (CASE)
X (CASE)	X (CASE)	X (CASE)
X (CASE)	X (CASE)	X (CASE)
X (CASE)	X (CASE)	X (CASE)
X (CASE)	X (CASE)	
X (V.B.)	X (V.B.)	X (V.B.)
X (CASE)	X (CASE)	X (CASE)
X (CASE)	X (CASE)	X (CASE)
X (V.B.)	X (V.B.)	X (V.B.)
X (CASE)	X (CASE)	X (CASE)
X (CASE)	X (CASE)	
X (CASE)	X (CASE)	X (CASE)