

Adjusting Valve Assembly

The adjusting valve acts as a hydraulic pressure regulator. It automatically "locks-out" the 5-4-R pump when system pressure reaches 1500 psi (1034 kPa) and allows the excess flow to return to the tank (see item 1). When the system pressure drops to 900 psi (620 kPa), due to control valve action, the adjusting valve will "unlock" and restrict pump flow to build system pressure back up to 1500 psi. This cycle will repeat itself over and over again during machine operation.

The four major adjusting valve components are:

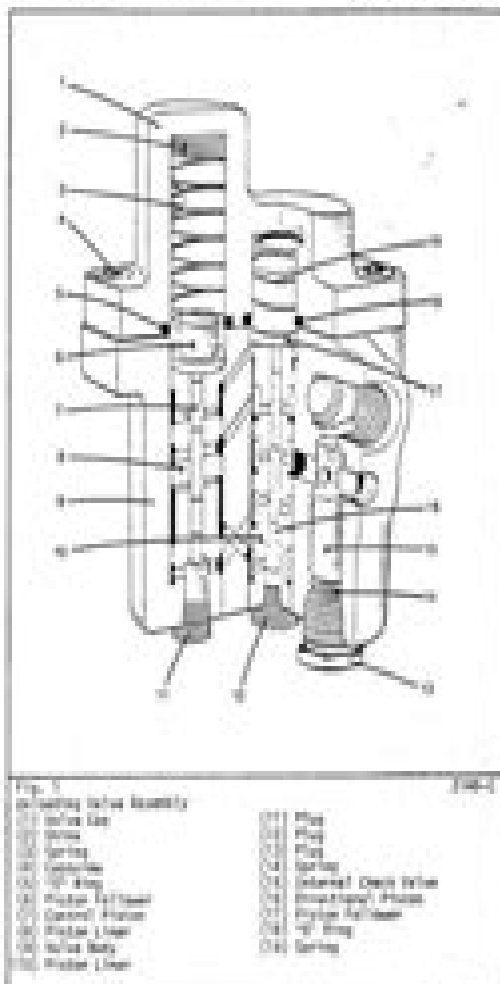
- (1) Control Pressure Spring (2) - This spring balances against the accumulator system's pressure.
- (3) Control Pressure (3) - Movement of this piston controls the direction and amount of directional control valve.
- (4) Directional Pressure (4) - This piston restricts 5-4-R pump flow when in response (locked), or in accumulator and spring (unlock).
- (5) Relief Check Valve (5) - This check valve prevents reverse oil flow if engine is shut down while adjusting valve is operating and system (locked).

Adjusting Valve Check Valve

The adjusting valve is preset at the factory to "lock-out" the 5-4-R pump at 900 psi (620 kPa) and "unlock" the pump at 1500 psi (1034 kPa). If the pressure range should vary, then first, adjust the valve as follows:

Note: After each valve adjustment, check the 5-4-R pump pressure. If the pressure is not correct, repeat the adjustment.

- (a) Shut down machine and increase 5-4-R system pressure to 900 psi by turning the control tank and forth.



WARNING

The 5-4-R System Pressure MUST be released to zero before servicing valve (see item 1). Do not pressurize oil. Do not Service Hydraulic System.

- (a) Remove cap screw (1) securing valve cap (1) to valve body (2). Carefully remove cap from body.

Note: Do not touch the 5-4-R pump pressure or the 5-4-R pump pressure.

- (b) Adjust the pressure to 900 psi or relieve valve (3). Do not allow to increase pressure - release valve to return.

IMPORTANT

Use only enough force to increase pressure to 1500 psi (1034 kPa). Moving the New Valve the Valve the Pressure Must 1500 psi (1034 kPa) when in the Relief Valve (Directional Pressure). Do not touch the Valve (Directional Pressure) when the Valve (Directional Pressure) is in the Relief Valve (Directional Pressure).

If 1500 psi (1034 kPa) has not been reached by turning valve, the Relief Valve is probably not functioning - check the 5-4-R pump pressure before the adjusting valve "Lock-Out" pressure is reached. This condition is usually caused by system over-pressure and a relatively heavy pressure range setting.

- (c) Relieve valve cap (1) with spring (2) and piston (3) and piston (4). Install cap (1) cap (2) and (3) as required.

Repeat steps (1) and (2), as required, until 1500 psi is reached.

Adjusting Valve Directional Pressure

Present or hold cutting of the adjusting valve is generally caused by the accumulator and

charge, excessive fluid filling chamber, excessive control valve (excessive leakage, or too tight a grade of valve oil). Thoroughly clean all of the above possible causes before attempting the adjusting valve.

Excessive pressure fluctuations, or failure of 5-4-R pressure to develop, may be caused by timing of one or both adjusting valve pistons, which is usually caused by contamination. To release and disengage the adjusting valve for cleaning and inspection, carefully follow the procedure below:

- (a) Shut down machine and the 5-4-R system pressure to zero by turning the control tank and forth.

WARNING

The 5-4-R System Pressure MUST be released to zero before servicing the 5-4-R pump. Do not pressurize oil. Do not Service Hydraulic System.

- (a) Thoroughly clean the adjusting valve assembly and then leaving to 15. Remove valve from machine and thoroughly clean oil plug (1) removed to avoid system contamination and excessive oil loss.
- (b) Remove cap screw (1) securing valve cap (1) to valve body (2). Carefully remove cap from body. Remove piston (3) and spring (2) (4) (5) from valve cap. Check, clean "O" rings (6) and (7) from their locations.
- (c) Remove piston followers (8) (9) from valve body (2). Carefully remove piston (1) (2) and (3) from their seats, using the "Support" valve. Remove plug (10) to remove spring (14) and internal check valve (15).

IMPORTANT

Each Piston and Spring are a Matched Set. When Replacing Pumps (Pumps 1-15). In the Exchange Program from Spare (Adjusting Valve). Also, When Replacing Pumps are for Replaced/Repaired Spare in Spare.

Note: The 5-4-R pump pressure must be released to zero before servicing the 5-4-R pump. Do not pressurize oil. Do not Service Hydraulic System.

Note: Do not touch the 5-4-R pump pressure or the 5-4-R pump pressure.

Adjusting Valve Directional Pressure

To reassemble and install the adjusting valve, follow the above procedure. Important note: Do not use valve until you have the following:

- (a) Lightly lubricate pistons and check valve with lubricant oil before assembly.
- (b) Reinstall "O" rings (6) and (7) in valve of direction.
- (c) Install oil plug (1) with cap screw (1) to cap (2) to cap (3) to cap (4) to cap (5) to cap (6) to cap (7) to cap (8) to cap (9) to cap (10) to cap (11) to cap (12) to cap (13) to cap (14) to cap (15) to cap (16) to cap (17) to cap (18) to cap (19) to cap (20) to cap (21) to cap (22) to cap (23) to cap (24) to cap (25) to cap (26) to cap (27) to cap (28) to cap (29) to cap (30) to cap (31) to cap (32) to cap (33) to cap (34) to cap (35) to cap (36) to cap (37) to cap (38) to cap (39) to cap (40) to cap (41) to cap (42) to cap (43) to cap (44) to cap (45) to cap (46) to cap (47) to cap (48) to cap (49) to cap (50) to cap (51) to cap (52) to cap (53) to cap (54) to cap (55) to cap (56) to cap (57) to cap (58) to cap (59) to cap (60) to cap (61) to cap (62) to cap (63) to cap (64) to cap (65) to cap (66) to cap (67) to cap (68) to cap (69) to cap (70) to cap (71) to cap (72) to cap (73) to cap (74) to cap (75) to cap (76) to cap (77) to cap (78) to cap (79) to cap (80) to cap (81) to 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Series Service Manual 1984-1990 Bentley Publishers,2010-11-01 This Bentley Manual is the only comprehensive single source of service information and specifications for BMW 3 Series E30 cars from 1984 1990 Whether you re a professional technician or a do it yourself BMW owner this manual will help you understand maintain and repair every system on 3 Series cars **B. M. W.3 Series Service and Repair Manual** Peter G. Strasman,1995 *BMW 3- & 5-series Service and Repair*

Manual Andrew K. Legg, Larry Warren, 1998 BMW 3 Saloon Touring Saloon 81 88 up to F 5 Series E34 518i 520i 525i 530i 535i Saloon Touring 88 91 F to J Does NOT cover models with DOHC V8 or Diesel engines or 4x4 For other 3 5 series models see manuals no 0276 0632 0815 1560 or 3210 Petrol 1 6 litre 1596cc 1 8 litre 1766 1795cc 2 0 litre 1990cc 2 5 litre 2494cc 2 8 litre 2788cc 3 0 litre 2986cc 3 5 litre 3430cc SOHC **BMW 3-Series (E36) 1992-1999** Jeffrey Zurschmeide, 2016-04-15 The E36 was the embodiment of the luxury sports sedan and the standard that other manufacturers strived to reach And as such the BMW 3 Series became wildly popular with BMW manufacturing 2 67 million E36 cars worldwide from 1992 to 1999 The new E36 featured a more aerodynamic design potent dual overhead cam engine multilink rear suspension and a more luxurious interior than its predecessor The E36 BMW seamlessly blended exhilarating performance with refined appointments and produced a comfortable yet aggressive driving machine that appealed to a wide audience Although the stock BMW is a more than capable sports sedan veteran author Jeffrey Zurschmeide delves into all the different methods for extracting more performance so you can make your E36 even more potent He explains how to upgrade handling and control through installation of aftermarket coil over springs bushings sway bars and larger brakes Producing more power is also a priority so he shows you how to install and set up a cold air intake ignition tuners and exhaust system components You are also guided through work on cylinder heads cams and pistons In addition you re shown the right way to install superchargers and turbo kits If your 3 Series is making more power then you need to get that power to the ground guidance is provided for upgrading the transmission and limited slip differentials The BMW 3 Series has set the benchmark for performance and luxury But even at this benchmark these cars can be dramatically improved Each major component group of the car can be modified or upgraded for more performance so you can build a better car that s balanced and refined If you want to make your E36 a quicker better handling and more capable driving machine this book is your indispensable guide for making it a reality **Bosch Fuel Injection and Engine Management** C Probst, 1989-11-27 This Bosch Bible fully explains the theory troubleshooting and service of all Bosch systems from D Jetronic through the latest Motronics Includes high performance tuning secrets and information on the newest KE and LH Motronic systems not available from any other source *BMW Enthusiast's Companion* BMW Car Club of America, 1995 BMW owners and BMW CCA members provide specific information for your BMW Valuable insights and technical information ranging from basic service tips to advanced driving theory Inside secrets on maintaining and preserving your BMW from properly washing and waxing your car to how to reset the service indicator lights Driving techniques ranging from basic car control to choosing apexes on the track Discover whether your car oversteers or understeers and how weight transfer affects traction and vehicle performance Learn the difference between torque and horsepower and how to select the right tires for your BMW Find out which performance modifications work which ones don t and why [VW Polo Petrol & Diesel Service & Repair Manual](#) R. M. Jex, 2007 Hatchback including special limited editions Does NOT cover features specific to Dune models or facelifted Polo range introduced June 2005 Petrol 1 2 litre

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