

2003 BMW X5 44i

2001-05 MANUAL TRANSMISSIONS Servicing

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Application	Transmission Model
M Coupe & M Roadster (E36/7)	
2001-02	ZF Type C
M3 (E46)	
2001-05	Getrag Type D Or Getrag Type D With SMG
M5 (E39)	
2001-03	S6S-420G
X3 (E83)	
2004-05	ZF G56X337BZ
X5 (E53)	
3.0L (2001-05)	ZF Type H
Z3 (E36/7)	
2001-02	ZF G56X37BZ
Z4 (E85)	
2003-05 (2.5)	Getrag Type B+
2003-05 (3.0L)	ZF Type H & ZF Type H With SMG
Z8 (E52)	
2001-03	Getrag
3-Series (E46)	
325i (4/01 To 2005), 330 & 330Ci (6/00 To 2005) & 325i & 325Ci (9/00 To 2005)	S5D-280Z Or ZF Type H
330xi (6/00 To 2005)	S5D-280Z Or ZF Type H
5-Series (E39)	
525i & 530i (3/01 To 2003)	S5D-280Z
540i (1/97 To 2003)	S6S-420G
5-Series (E60)	
525i, 530i & 545i (8/03 To 2005)	ZF Type H & ZF Type G
6-Series (E63)	
645Ci (2004-05)	ZF Type G

LUBRICATION**SERVICE INTERVALS**

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Inspect fluid level when vehicle is serviced. DO NOT drain fluid, transmission has lifetime fluid except for the following exceptions:

- M3 - Change oil at 1200 mile service and each Inspection II.
- M5 - Change oil at 1200 mile service, then fill with lifetime oil.

CHECKING FLUID LEVEL

Check lubricant at fill hole. Lubricant should be at bottom of filler plug hole.

RECOMMENDED FLUID

For model years 1998-2003, all manual transmissions are filled with Esso/Exxon MTF-LT-1 lifetime fluid. A Yellow label with the letters MTF-LT-1 is located next to the oil filler plug. Except for models specified under **SERVICE INTERVALS**, no oil change is required for the service life of the transmission.

From model year 2004, some manual transmissions are filled with Castrol MTF-LT-2 lifetime fluid. This fluid has the same properties as the MTF-LT-1 fluid. The MTF-LT-1 fluid may be mixed or substituted for the MTF-LT-2 manual transmission fluid.

NOTE: **The following does not apply to transmissions filled with lifetime fluid.**

Cold Shift Effort

Transmission cold shift effort is reduced by replacing the original oil (SAE 80 or Mobil SHC 630) with a reputable brand single-grade HD engine mineral oil of API-SE standards (SAE 20, SAE 30, or SAE 40). Thinner oils run the risk of increased gear noise. A further reduction in shift effort can be obtained by using ATF, but gear noise will be more noticeable compared to single-grade engine mineral oils. For summer operation it is recommended that ATF or engine oil be drained and replaced by the original lubricant, either SAE 80 or Mobil SHC 630 transmission fluid.

FLUID CAPACITIES

Fluid capacity is approximately 1.4 qts. (1.3L). Transmission should be filled to bottom of filler plug hole.

ADJUSTMENTS

GEARSHIFT LINKAGE

No external adjustment is necessary.

TORQUE SPECIFICATIONS

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Application	Ft. Lbs. (N.m)

Drain & Fill Plug (All Models)	37 (50)
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