

GM TRANSMISSION AND OIL APPLICATION CHART (1991-1999)

| | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|------------------------------|---------------------------------------------------|------|------|------|------|----------------------------|---------------------------|-------------------------|--------------|
| E34 525i/iT | THM-R1 (A4S 310R) 12/95 | | | | | | | | |
| E39 528i/iT | | | | | | THM-R1 (A4S 270R) 2/96 | | | 5L40 9/99 |
| E36 318i/iS/iC/ti | THM-R1 (A4S 310R) 9/95 | | | | | THMR1 (A4S 270R) | | | |
| E36 325i/iS/iC | THM-R1 (A4S 310R) / (A4S270R as of 9/95) 10/95 | | | | | | | | |
| E36 323i/iS/iC | | | | | | | THM-R1 (A4S 270R) 9/97 | | |
| E36 328i/iS/iC | | | | | | THM-R1 (A4S 270R) 10/95 | | | |
| E46 323i/iS/iC | | | | | | | | 5L40 (A5S 360R) 7/98 | |
| E46 328i/iS | | | | | | | | 5L40 (A5S 360R) 6/98 | |
| Z3 (1.9L/2.8L) | | | | | | THM-R1 (A4S 270R) 10/95 | | | |

USE OF ANY OTHER OIL WILL CAUSE A NON-WARRANTABLE TRANSMISSION FAILURE !

| | | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| APPROVED OILS: | UNICAL DEXRON III - D - "MULTI - PURPOSE ATF" CASTROL DEXRON III - MERCON TEXACO ATF MERCON - DEXRON III LIFETIME FILL AS OF 9/95 VEHICLE PRODUCTION | USE ONLY TEXACO ETL 7045E (REPLACES TEXACO ETL 7045) BMW PART NUMBER 83 22 0 026 922 25 LITER CONTAINER LIFETIME FILL | USE ONLY TEXACO ETL 8072 B BMW PART NUMBER 83 22 0 024 359 25 LITER CONTAINER LIFETIME FILL |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|

PRIOR TO REPLACING A GM FIVE SPEED TRANSMISSION - AN AUTHORIZATION CODE MUST BE OBTAINED FROM THE BMW TECHNICAL HOTLINE !

| FILL CAPACITY: | <u>TRANSMISSION MODEL</u> | <u>WITH TORQUE CONVERTER</u> | <u>WITHOUT TORQUE CONVERTER</u> |
|----------------|------------------------------|------------------------------|---------------------------------|
| | THM-R1 (A4S 270R) | 8.8 LITERS | 7.8 LITERS |
| | THM-R1 (A4S 310R) | 8.8 LITERS | 7.8 LITERS |
| | 5L40-E/GM5 (A5S 360R) | 9.0 LITERS | 8.0 LITERS |
| | 5L40-E/GM5 (A5S 390R) | 9.0 LITERS | 8.0 LITERS |
| | 5L40-E/GM5 (A5S 390R) FOR X5 | 9.6 LITERS | 8.6 LITERS |

GM TRANSMISSION AND OIL APPLICATION CHART (2000-2002)

| | 2000 | 2001 | 2002 |
|---------------------------------|----------------------------------------------|-----------------------------|------|
| E46 323i/Ci | GM5 (A5S360R) 7/98 3/00 | | |
| E46 328i/Ci | GM5 (A5S 360R) 6/98 5/00 | | |
| E46 325xi/xiT | | GM5 (A5S 390R) 8/00 | |
| E46 325iT | | GM5 (A5S 390R) 8/00 3/01 | |
| E46 330xi | | GM5 (A5S 390R) 8/00 | |
| E39 528i/iT | GM5 (A5S 360R) 9/99 8/00 | | |
| E39 525i/iT | | GM5 (A5S 390R) 9/00 3/01 | |
| E39 530i | | GM5 (A5S 390R) 9/00 3/01 | |
| E53 X5 (3.0i) | | GM5 (A5S 390R) 4/00 | |
| E36 Z3 (2.3i / 2.8i / coupe) | THM-R1 (A4S 270R) 10/95 & (A4S 310R) 6/00 | | |
| E36 Z3 (2.5i / 3.0i / coupe) | | GM5 (A5S 390R) 6/00 | |

USE OF ANY OTHER OIL WILL CAUSE A NON-WARRANTABLE TRANSMISSION FAILURE !

| | | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| APPROVED OILS: | UNICAL DEXRON III - D - "MULTI - PURPOSE ATF" CASTROL DEXRON III - MERCON TEXACO ATF MERCON - DEXRON III LIFETIME FILL AS OF 9/95 VEHICLE PRODUCTION | USE ONLY TEXACO ETL 7045E (REPLACES TEXACO ETL 7045) BMW PART NUMBER 83 22 0 026 922 25 LITER CONTAINER LIFETIME FILL | USE ONLY TEXACO ETL 8072 B BMW PART NUMBER 83 22 0 024 359 25 LITER CONTAINER LIFETIME FILL |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|

PRIOR TO REPLACING A GM FIVE SPEED TRANSMISSION - AN AUTHORIZATION CODE MUST BE OBTAINED FROM THE BMW TECHNICAL HOTLINE !

| FILL CAPACITY: | <u>TRANSMISSION MODEL</u> | <u>WITH TORQUE CONVERTER</u> | <u>WITHOUT TORQUE CONVERTER</u> |
|----------------|------------------------------|------------------------------|---------------------------------|
| | THM-R1 (A4S 270R) | 8.8 LITERS | 7.8 LITERS |
| | THM-R1 (A4S 310R) | 8.8 LITERS | 7.8 LITERS |
| | 5L40-E/GM5 (A5S 360R) | 9.0 LITERS | 8.0 LITERS |
| | 5L40-E/GM5 (A5S 390R) | 9.0 LITERS | 8.0 LITERS |
| | 5L40-E/GM5 (A5S 390R) FOR X5 | 9.6 LITERS | 8.6 LITERS |

ZF TRANSMISSION AND OIL APPLICATION CHART (1991-1999)

| | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|-------------------|-------|----------------------|-----------------------|------------------|-----------------------|-----------------------------|------|------------------|------|
| E30 325i/iX/iC | 4HP22 | | | | | | | | |
| E31 850Ci | 4HP24 | | | 6/94 | 10/94 | 5HP30 (A5S 560Z) 6/97 | | | |
| E31 840Ci | | | 6/93 | 5HP30 (A5S 560Z) | | 5HP30 (A5S 560Z) 12/95 8/97 | | | |
| E32 750iL | 4HP24 | | | 3/94 | | | | | |
| E32 740i/iL | | 5HP30 (A5S560Z) 8/92 | | 4/94 | | | | | |
| E32 735i/iL | 4HP22 | | 7/92 | | | | | | |
| E34 540i | | | 5HP30 (A5S 560Z) 3/93 | | 10/95 | | | | |
| E34 535i | 4HP22 | | 1/93 | | | | | | |
| E34 530i/iT | | | 5HP18 (A5S 310Z) 3/93 | | | 11/95 | | | |
| E36 M3 | | | | | 10/94 | 5HP 18 (A5S 310Z) | | 9/99 | |
| E38 750iL | | | | | 1/95 | 5HP30 (A5S 560Z) | | | |
| E38 740i/iL | | | | | 5HP30 (A5S 560Z) 7/94 | | 1/97 | 5HP24 (A5S 440Z) | |
| E39 540i/iT | | | | | | 5HP30 3/96 | 1/97 | 5HP24 (A5S440Z) | |

USE OF ANY OTHER OIL WILL CAUSE A NON-WARRANTABLE TRANSMISSION FAILURE !

| | | | |
|-----------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| APPROVED OILS: | UNICAL DEXRON III "MULTI-PURPOSE ATF" CASTROL DEXRON III – MERCON TEXACO ATF MERCON – DEXRON III | USE ONLY SHELL LA 2634 BMW PART NUMBER 83 22 9 407 765 5 LITER BLACK - LIFETIME FILL | USE ONLY ESSO ATF LT 71141 BMW PART NUMBER 83 22 9 407 807 20 LITER BLUE – LIFETIME FILL |
|-----------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|

**PRIOR TO REPLACING A TRANSMISSION - AN AUTHORIZATION CODE MUST BE OBTAINED FROM THE
BMW TECHNICAL HOTLINE !**

| FILL CAPACITY: | TRANSMISSION MODEL | WITH TORQUE CONVERTER | WITHOUT TORQUE CONVERTER |
|----------------|----------------------------|-----------------------|--------------------------|
| | 4HP22 | 7.5 LITERS | 3.0 LITERS |
| | 4HP24 | 8.1 LITERS | 3.1 LITERS |
| | 5HP18 (A5S 310Z) | 7.8 LITERS | 3.2 LITERS |
| | 5HP19 (A5S 325Z) FOR 2.5 L | 8.9 LITERS | 6.2 LITERS |
| | 5HP19 (A5S 325Z) FOR 3.0 L | 8.7 LITERS | 6.1 LITERS |
| | 5HP24 (A5S 440Z) FOR 4.4 L | 9.0 LITERS | 5.35 LITERS |
| | 5HP24 (A5S 440Z) FOR 4.6 L | 9.9 LITERS | 5.35 LITERS |
| | 5HP30 (A5S 560Z) | 13.1 LITERS | 5.5 LITERS |

ZF TRANSMISSION AND OIL APPLICATION CHART (2000-2002)

| | 2000 | 2001 | 2002 |
|---------------------|----------------------------------------------------|------------------|------------------|
| E46 323i/Ci | 5HP19 (A5S 325Z) 3/00 8/00 | | |
| E46 325i/Ci/Cic | 8/00 | 5HP19 (A5S 325Z) | |
| E46 325iT | | 3/01 | 5HP19 (A5S 325Z) |
| E46 330i/Ci/Cic | 6/00 | 5HP19 (A5S 325Z) | |
| E39 525i/iT | | 3/01 | 5HP19 (A5S 325Z) |
| E39 530i | | 3/01 | 5HP19 (A5S 325Z) |
| E39 540i/iT | 1/97 | 5HP24 (A5S 440Z) | |
| E53 X5 (4.4i) | 11/99 | 5HP24 (A5S 440Z) | |
| E53 X5 HP (4.6i) | | 9/01 | 5HP24 (A5S 440Z) |
| E38 740i/iL | 1/97 | 5HP24 (A5S 440Z) | 2/02 |
| E38 750iL | 1/95 | 5HP30 (A5S 560Z) | 2/02 |

USE OF ANY OTHER OIL WILL CAUSE A NON-WARRANTABLE TRANSMISSION FAILURE !

| | | | |
|-----------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| APPROVED OILS: | UNICAL DEXRON III "MULTI-PURPOSE ATF" CASTROL DEXRON III – MERCON TEXACO ATF MERCON – DEXRON III | USE ONLY SHELL LA 2634 BMW PART NUMBER 83 22 9 407 765 5 LITER BLACK - LIFETIME FILL | USE ONLY ESSO ATF LT 71141 BMW PART NUMBER 83 22 9 407 807 20 LITER BLUE – LIFETIME FILL |
|-----------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|

**PRIOR TO REPLACING A TRANSMISSION - AN AUTHORIZATION CODE MUST BE OBTAINED FROM THE
BMW TECHNICAL HOTLINE !**

| FILL CAPACITY: | TRANSMISSION MODEL | WITH TORQUE CONVERTER | WITHOUT TORQUE CONVERTER |
|----------------|----------------------------|-----------------------|--------------------------|
| | 4HP22 | 7.5 LITERS | 3.0 LITERS |
| | 4HP24 | 8.1 LITERS | 3.1 LITERS |
| | 5HP18 (A5S 310Z) | 7.8 LITERS | 3.2 LITERS |
| | 5HP19 (A5S 325Z) FOR 2.5 L | 8.9 LITERS | 6.2 LITERS |
| | 5HP19 (A5S 325Z) FOR 3.0 L | 8.7 LITERS | 6.1 LITERS |
| | 5HP24 (A5S 440Z) FOR 4.4 L | 9.0 LITERS | 5.35 LITERS |
| | 5HP24 (A5S 440Z) FOR 4.6 L | 9.9 LITERS | 5.35 LITERS |
| | 5HP30 (A5S 560Z) | 13.1 LITERS | 5.5 LITERS |