



SI B11 01 15  
Engine

February 2017  
Technical Service

## Engine Oil Quick Reference Chart and Drain Plug Torque

New information provided by this revision is preceded by this symbol .

This Service Information bulletin replaces SI B11 0 15 dated **November 2017**

### What's New:

- Oil capacity, drain plug torque and oil filter cap torque added for the F90 vehicle with S63M

### MODEL

All Models
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### INFORMATION

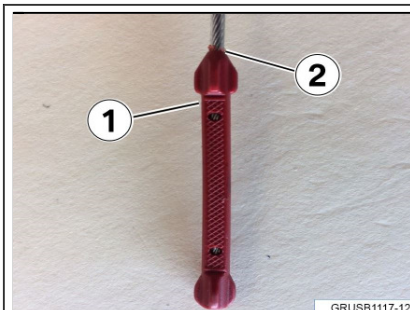
**All vehicles with the B38, B46, B48, B58, N20, N26, N47, N54 (E89 only), N55, N57, N63, N63R, N63TU, S55, S63, S63R, S63T, N74 and W20 engines:**

Refer to the attached quick reference chart describing the proper engine oil fill capacity and engine oil drain plug torque.

The same information is also contained in the applicable ISTA/D engine oil service repair instruction.

#### All N63R vehicles with xDrive:

The current version of ISTA/D has an error in the engine oil capacity specification for all vehicles with the N63R engine and xDrive. The correct engine oil capacity specification is 10.5 liters of engine oil. When ISTA/D is corrected this bulletin will be updated.



The illustration describes the proper engine oil level when using the engine oil dip stick.

1. (1) 10.0 liters of engine oil for N63R **without** xDrive (RWD)
2. 10.5 liters of engine oil for N63R **with** xDrive (AWD)

Use these two locations to properly refill the engine oil or when topping up the engine oil.

All Older Engines (Designations starting without N or B):

For engine oil filling capacity refer to the TIS Operating Fluids Manual, Group 11, Section 13.0.

For torque specifications refer to the applicable ISTA/D engine oil service repair instruction.



### Model Year 2016 and Newer Gasoline and Diesel Engine Oil Quick Reference Chart

Gasoline Engines	Oil Viscosity	Part Number	Container Description
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B46, B58, N20, N26 B48, B38, B36	0W-20, LL14FE+	83 21 2 365 954	12 x 1 Liter case
	or		
	0W-20, LL14FE+	83 21 2 405 079	209 liter drum
	or		
	0W-20, LL 14FE+	83 21 2 457 111	<b>UPDATE!</b> Tanker Delivery - Liters
<b>UPDATE!</b> N54, N54T, N55, S63TU, S63R, S63M, S55, W20, N63TU, N63R, N74	0W-30 LL01FE	83 21 2 365 950	12 x 1 Liter case
	or		
	0W-30 LL01FE	83 21 2 405 849	209 liter drum
	or		
	0W-30 LL01FE	83 21 2 449 994	Tanker Delivery – Liters

Diesel Engines	Oil Viscosity	Part Number	Container Description
N47, N57, B57	0W-30 LL12FE	83 21 2 365 951	12 x 1 Liter case

#### Model Year 2012 to 2015 Gasoline and Diesel Engine Oil Quick Reference Chart

Gasoline Engines	Oil Viscosity	Part Number	Container Description
N20, N26, N51, N52K, N52T, N54, N54T, N55, S63, S63TU, S55, W20, N63, N63TU, N74, W20, B38, N74	0W-30 LL01FE	83 21 2 365 950	12 x 1 Liter case
	or		
	0W-30 LL01FE	83 21 2 405 849	209 liter drum
	or		
	0W-30 LL01FE	83 21 2 449 994	Tanker Delivery – Liters

Diesel Engines	Oil Viscosity	Part Number	Container Description
N47, N57, M57	0W-30 LL12FE	83 21 2 365 951	12 x 1 Liter case

**Model Year 2011 and Older Gasoline and Diesel Engine Oil Quick Reference Chart**

The 0W-30 LL01FE engine oil is fully compatible with the older engines and the 5W-30 LL01 engine oil. P/N 83 21 2 405 085 (5W-30 LL01 engine oil) is no longer available.

Use only part number 83 21 2 449 994 (0W-30 LL01FE engine oil) for your all of your future tanker deliveries.

<b>Engines</b>	<b>Oil Viscosity</b>	<b>Old Part Number</b>	<b>New Part Number</b>	<b>Container Description</b>
<b>All BMW Gasoline Engines</b>	5W-30 LL01	07 51 0 017 866	83 21 2 365 946	12 x 1 liter case
	5W-30 LL01	07 51 0 017 954	83 21 2 405 002	209 liter drum
	or			
	0W-30 LL01FE	None	83 21 2 365 950	12 x 1 Liter case
	or			
	0W-30 LL01FE	None	83 21 2 405 849	209 liter drum
	or			
	0W-30 LL01FE	None	83 21 2 449 994	Tanker Delivery – Liters
<b>All BMW Diesel Engines</b>	5W-30 LL04	07 51 0 037 195	83 21 2 365 949	12 x 1 liter case
<b>BMW Motorsport Gasoline Engines (S55, S63, S63TU2)</b>	5W-30 LL01	07 51 0 017 866	83 21 2 365 946	12 x 1 liter case
	5W-30 LL01	07 51 0 017 954	83 21 2 405 002	209 liter drum
	or			
	0W-30 LL01FE		83 21 2 365 950	12 x 1 Liter case
	or			
	0W-30 LL01FE	None	83 21 2 405 849	209 liter drum
	or			
	0W-30 LL01FE	None	83 21 2 449 994	Tanker Delivery – Liters

**S54, S65 and S85 Motorsport engines:**

<b>BMW Motorsport Gasoline Engines</b>	10W-60	07 51 0 009 420	83 21 2 365 944	12 x 1 liter case
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<b>(All model years for S54, S65 and S85)</b>				
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## WARRANTY INFORMATION

For covered repairs, effective with repair/claim dates on or after August 1, 2017, Warranties will only reimburse in exact quantities – the 1/10 liter “billing part numbers” for the applicable bulk engine oil (tanker or drum) that is needed after the completion of an engine repair (partial or full) or when an “Engine oil” maintenance service task is performed.

**For these applicable claim submissions, the “one liter bottle” part numbers will no longer be eligible for reimbursement, except for the diesel engines (N47, N57, and M57) and the Motorsport Engines (S54, S65, and S85).**

**Please refer to [SI B01 09 15](#) for more information concerning proper invoicing procedure**

Posted: Friday, February 9, 2018

## ATTACHMENTS

View PDF attachment [B110115 chart](#).


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B110115\_Oil\_and\_Drain\_Plug\_Chart

Series	Engine	Capacity: Quarts (Liters)	Torque Specs: Drain Plug	Torque Specs: Oil Filter Cap (O-ring gasket lightly oiled)
E70,E71	N55	6.9 (6.5)	25Nm	25Nm
E70,E71	N63	9.5 (9.0)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
E70,E71	N57	7.07(6.7)	25Nm	25Nm
E70,E71	S63	9.0 ( 8,5)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
E72	N63 + EM	9.0 ( 8,5)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F04	N63 + EM	9.0 ( 8,5)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F01,F02	N55	6.9 (6.5)	25Nm	25Nm
F01,F02 without AWD	N63	9.5 (9.0)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F01,F02 with AWD	N63	9.5 (9.0)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F01,F02 without AWD	N63T	10.0 (9.5)	25Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F01,F02 with AWD	N63T	10.0 (9.5)	25Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F02	N74	11.35 (10.75)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
E89	N20	5.3 (5.0)	8Nm	25Nm
F10 without AWD	N20	5.3 (5.0)	8Nm	25Nm
F10 with AWD	N20	5.0 (4.75)	25Nm	25Nm
F22	N20	5.3 (5.0)	8Nm	25Nm
F25,F26,	N20	5.1 (4.8)	25Nm	25Nm
F25,F26	N55	6.9 (6.5)	25Nm	25Nm
F30,F31,F32,F33,F34,F36 without AWD	N20	5.3 (5.0)	8Nm	25Nm
F30,F31,F32,F33,F34,F36 with AWD	N20	5.1 (4.8)	25Nm	25Nm
F15 PHEV	N20 + EM	5.0 (4.75)	25Nm	25Nm
I12	B38 + EM	4.5 (4.25)	25Nm	Initial torque: 25Nm / Release torque through 180 degree turn counter clockwise / Final torque: 25Nm / Cap drain plug: 5 Nm
F48 xDrive 25i	B46	5.5 (5.25)	20Nm	Initial torque: 25Nm / Release torque through 180 degree turn counter clockwise / Final torque: 25Nm / Cap drain plug: 5 Nm
F48 sDrive 25i	B46	5.5 (5.25)	20Nm	Initial torque: 25Nm / Release torque through 180 degree turn counter clockwise / Final torque: 25Nm / Cap drain plug: 5 Nm
F30 PHEV	B48 + EM	5.5 (5.25)	25Nm	25Nm
F30 without AWD	B58	6.5 (6.25)	25Nm	25Nm
F30 with AWD	B58	6.5 (6.25)	25Nm	25Nm
F34 with AWD	B46	5.6 (5.25)	20Nm	Initial torque: 25Nm / Release torque through 180 degree turn counter clockwise / Final torque: 25Nm / Cap drain plug: 5 Nm
I01 REX	W20 + EM	2.7 (2.6)	28Nm	25Nm

E89	N54	6.9 (6.5)	25Nm	25Nm
F06, F07 without AWD	N55	6.9 (6.5)	25Nm	25Nm
F06, F07 with AWD	N55	6.9 (6.5)	25Nm	25Nm
F10 without AWD	N55	6.9 (6.5)	25Nm	25Nm
F10 with AWD	N55	6.9 (6.5)	25Nm	25Nm
F02H	N55 + EM	6.9 (6.5)	25Nm	25Nm
F10H	N55 + EM	6.9 (6.5)	25Nm	25Nm
F30H	N55 + EM	6.9 (6.5)	25Nm	25Nm
F12, F13 without AWD	N55	6.9 (6.5)	25Nm	25Nm
F12,F13 with AWD	N55	6.9 (6.5)	25Nm	25Nm
F15,F16	N55	6.9 (6.5)	25Nm	25Nm
F22,F23	N55	6.9 (6.5)	25Nm	25Nm
F25,F26	N55	6.9 (6.5)	25Nm	25Nm
F32,F33,F34,F36 without AWD	N55	6.9 (6.5)	25Nm	25Nm

B110115\_Oil\_and\_Drain\_Plug\_Chart

Series	Engine	Capacity: Quarts (Liters)	Torque Specs: Drain Plug	Torque Specs: Oil Filter Cap (O-ring gasket lightly oiled)
F32,F33,F34,F36 with AWD	N55	6.9 (6.5)	25Nm	25Nm
F87	N55	6.9 (6.5)	25Nm	25Nm
F07 without AWD	N63	9.5 (9.0)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F07 with AWD	N63	9.5 (9.0)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F06,F07 without AWD	N63T	10.0 (9.5)	25Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F06,F07 with AWD	N63T	10.0 (9.5)	25Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F10,F12,F13 without AWD	N63	9.5 (9.0)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F10,F12,F13 with AWD	N63	10.0 (9.5)	40Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F10,F12,F13 without AWD	N63T	10.0 (9.5)	25Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F10,F12,F13 with AWD	N63T	10.0 (9.5)	25Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F15,F16	N63T	10.0 (9.5)	25Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
G12 PHEV	B48 + EM	5.5 (5.25)	25Nm	Initial torque: 25Nm / Release torque through 180 degree turn counter clockwise / Final torque: 25Nm
G12 without AWD	N63R	10.5 (10.0)	20Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm
G12 without AWD	B58	6.9 (6.5)	25Nm	25Nm
G12 with AWD	N63R	11.0 (10.5)	20Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm
G12 with AWD	B58	6.9 (6.5)	25Nm	25Nm
G12 with AWD	N74B	12.7 (12.0)	40Nm	Initial torque: 40Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm
G30 without AWD	B46	5.5 (5.25)	25Nm	Initial torque: 25Nm / Release torque through 180 degree turn counter clockwise / Final torque: 25Nm
G30 with AWD	B46	5.5 (5.25)	25Nm	Initial torque: 25Nm / Release torque through 180 degree turn counter clockwise / Final torque: 25Nm
G30 with AWD	B57	6.9 (6.5)	25Nm	25Nm
G30 PHEV without AWD	B46 + EM	5.5 (5.25)	25Nm	Initial torque: 25Nm / Release torque through 180 degree turn counter clockwise / Final torque: 25Nm
G30 PHEV with AWD	B46 + EM	5.5 (5.25)	25Nm	Initial torque: 25Nm / Release torque through 180 degree turn counter clockwise / Final torque: 25Nm
G30 without AWD	B58	6.9 (6.5)	25Nm	25Nm
G30 with AWD	B58	6.9 (6.5)	25Nm	25Nm
G30 with AWD	N63R	11.0 (10.5)	20Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm
F80,F82,F83,	S55	6.9 (6.5)	25Nm: Aluminum sump 20Nm: Magnesium sump	25Nm
F90 	S63M	10.5 (10.0)	40Nm	Initial torque: 36Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm / Cap drain plug: 10Nm
F06M,F10M,F12M,F13M,	S63T	9.0 (8.5)	25Nm	Initial torque: 30Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm
F85,F86	S63R	10.0 (9.5)	20Nm	Initial torque: 40Nm / Release torque through 180 degree turn counter clockwise / Final torque: 40Nm
F22,F23,F30, F32,F33,F34,F36 without AWD	N26	5.3 (5.0)	8Nm	25Nm
F22, F23, F30,F32,F33,F34,F36 with AWD	N26	5.1 (4.8)	25Nm	25Nm
F25	N47T	5.5 (5.2)	25Nm	25Nm
F30,F31without AWD	N47T	5.5 (5.2)	25Nm	25Nm
F30,F31with AWD	N47T	5.5 (5.2)	25Nm	25Nm
F01,F02	N57	7.5 (7.0)	25Nm	25Nm
F02,F10 without AWD	N57T	6.9 (6.5)	25Nm	25Nm
F02,F10 with AWD	N57T	6.9 (6.5)	25Nm	25Nm
F15	N57T	6.9 (6.5)	25Nm	25Nm