

For DODGE TORQUE-ARM II™ Reducers

Among the factors that contribute to the performance and overall service life of a reducer, selection and use of the proper lubrication is very important. TORQUE-ARM Reducers are shipped without oil. Before operating the reducer it is necessary to select and add the proper amount of oil.



After an initial operation of about two weeks, the oil should be changed. If desired, this oil may be filtered and reused. Very often, small metal particles will show up in the oil due to the wearing process. After the initial break in period, the lubricant should be drained, magnetic drain plug cleaned, gearcase flushed and refilled every 2500 hours of operation under average industrial conditions.

The first step in selecting the oil is to determine the proper ISO grade for the application. Under normal operating conditions, ISO 220 grade lubricant is a good general purpose lubricant. ISO 150 may be used for low ambient temperature environments and ISO 320 for higher temperature environments.

NOTE FOR LUBE KITS: Kit contains ISO220 Grade mineral oil in sufficient volume for all recommended mounting positions.

TA II Lube Kits	
Size	Kit Part Number
TA0107	LUBEKITA0107
TA1107	LUBEKITA1107
TA2115	LUBEKITA2115
TA3203	LUBEKITA3203
TA4207	LUBEKITA4207
TA5215	LUBEKITA5215
TA6307	LUBEKITA6307
TA7315	LUBEKITA7315
TA8407	LUBEKITA8407
TA9415	LUBEKITA9415
TA10507	LUBEKITA10507
TA12608	LUBEKITA12608

Table 1 – Oil Recommendations: Standard Temperature Range

Output RPM	ISO Grades For Ambient Temperatures of 50°F to 125°F											
	Torque-Arm II Reducer Size											
	TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H	TA8407H	TA9415H	TA10507H	TA12608H
301 – 400	320	320	320	220	220	220	220	220	220	220	220	220
201 – 300	320	320	320	220	220	220	220	220	220	220	220	220
151 – 200	320	320	320	220	220	220	220	220	220	220	220	220
126 – 150	320	320	320	220	220	220	220	220	220	220	220	220
101 – 125	320	320	320	320	220	220	220	220	220	220	220	220
81 – 100	320	320	320	320	320	220	220	220	220	220	220	220
41 – 80	320	320	320	320	320	220	220	220	220	220	220	220
11 – 40	320	320	320	320	320	320	320	320	320	320	220	220
1 – 10	320	320	320	320	320	320	320	320	320	320	320	320

Low Temperature Range

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Output RPM	ISO Grades For Ambient Temperatures of 15°F to 60°F											
	Torque-Arm II Reducer Size											
	TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H	TA8407H	TA9415H	TA10507H	TA12608H
301 – 400	220	220	220	150	150	150	150	150	150	150	150	150
201 – 300	220	220	220	150	150	150	150	150	150	150	150	150
151 – 200	220	220	220	150	150	150	150	150	150	150	150	150
126 – 150	220	220	220	150	150	150	150	150	150	150	150	150
101 – 125	220	220	220	220	150	150	150	150	150	150	150	150
81 – 100	220	220	220	220	220	150	150	150	150	150	150	150
41 – 80	220	220	220	220	220	150	150	150	150	150	150	150
11 – 40	220	220	220	220	220	220	220	220	220	220	150	150
1 – 10	220	220	220	220	220	220	220	220	220	220	220	220

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Table 2:

ISO Grade	Lubricant Type	Volume	Ordering Part Number
150	Synthetic	Quart	411709-66-AP
		Gallon	411709-66-AR
220	Mineral	Quart	411709-66-AS
		Gallon	411709-66-AT
	Synthetic	Quart	411709-66-AU
		Gallon	411709-66-AV
320	Mineral	Quart	411709-66-AW
		Gallon	411709-66-AX
	Synthetic	Quart	411709-66-AY
		Gallon	411709-66-AZ



Table 3: Oil Quantity

Reducer Size		Approximate Volume of Oil to Fill Reducer to Oil Level Plug																	
		Position A		Position B		Position C		Position D		Position E		Position F							
		Required Volume	You Need To Purchase	Required Volume	You Need To Purchase	Required Volume	You Need To Purchase	Required Volume	You Need To Purchase	Required Volume	You Need To Purchase	Required Volume	You Need To Purchase	Required Volume	You Need To Purchase				
			Gal		Qt		Gal		Qt		Gal		Qt		Gal	Qt	Gal	Qt	Gal
TA0107L	Single	0.70 Qts	-	1	0.50 Qts	-	1	0.70 Qts	-	1	1.40 Qts	-	2	1.30 Qts	-	2	1.50 Qts	-	2
	Double							0.60 Qts	-	1	1.30 Qts	-	2	1.20 Qts	-	2	1.40 Qts	-	2
TA1107H	Single	1.30 Qts	-	2	0.70 Qts	-	1	0.70 Qts	-	1	1.70 Qts	-	2	1.50 Qts	-	2	1.90 Qts	-	2
	Double							0.60 Qts	-	1									
TA2115H	Single	2.10 Qts	-	3	1.20 Qts	-	2	1.10 Qts	-	2	2.70 Qts	-	3	2.30 Qts	-	3	0.78 Gal	1	-
	Double				1.10 Qts	-	2	1.00 Qts	-	2	2.60 Qts	-	3	2.40 Qts	-	3	0.75 Gal	1	-
TA3203H	Single	0.70 Gal	1	-	1.60 Qts	-	2	1.80 Qts	-	2	1.03 Gal	1	1	0.83 Gal	1	-	1.10 Gal	1	1
	Double				1.50 Qts	-	2	1.70 Qts	-	2	1.00 Gal	1	-	0.85 Gal	1	-	1.05 Gal	1	1
TA4207H	Single	1.10 Gal	1	1	2.60 Qts	-	3	2.90 Qts	-	3	1.85 Gal	2	-	1.58 Gal	1	3	1.95 Gal	2	-
	Double				2.50 Qts	-	3	2.80 Qts	-	3	1.83 Gal	2	-	1.60 Gal	1	3	1.88 Gal	2	-
TA5215H	Single	1.85 Gal	2	-	1.23 Gal	1	1	1.45 Gal	1	2	3.30 Gal	3	2	2.90 Gal	3	-	3.28 Gal	3	2
	Double				1.18 Gal	1	1	1.38 Gal	1	2	3.23 Gal	3	1	2.85 Gal	3	-	3.15 Gal	3	1
TA6307H	Single	2.20 Gal	2	1	1.45 Gal	1	2	1.65 Gal	1	3	4.03 Gal	4	1	3.30 Gal	3	2	4.03 Gal	4	1
	Double				1.38 Gal	1	2	1.55 Gal	1	3	3.95 Gal	4	-	3.48 Gal	3	2	3.83 Gal	4	-
TA7315H	Single	2.10 Gal	2	1	2.95 Gal	3	-	3.48 Gal	3	2	5.63 Gal	5	3	5.53 Gal	5	3	6.28 Gal	6	2
	Double				2.70 Gal	2	3	3.30 Gal	3	2	5.50 Gal	5	2	5.60 Gal	5	3	5.78 Gal	6	-
TA8407H	Single	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
	Double	1.93 Gal	2	-	2.93 Gal	3	-	3.43 Gal	3	2	6.28 Gal	6	2	6.00 Gal	6	-	6.45 Gal	6	2
TA9415H	Single	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
	Double	4.25 Gal	4	1	4.20 Gal	4	1	4.53 Gal	4	3	8.30 Gal	8	2	8.30 Gal	8	2	9.65 Gal	9	3
TA10507H	Single	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
	Double	9.50 Gal	9	2	6.90 Gal	7	-	6.45 Gal	6	2	13.38 Gal	14	-	13.45 Gal	14	-	14.03 Gal	15	-
TA12608H	Single	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
	Double	13.25 Gal	14	-	10.38 Gal	11	-	9.28 Gal	9	2	17.68 Gal	18	-	18.05 Gal	19	-	20.10 Gal	21	-

NOTE

- The oil recommendations in Table 1 assume the use of auxiliary cooling where recommended in the catalog. Our recommended lubricants for Dodge Torque-Arm Reducers, shown in Table 2, do not contain Extreme Pressure (EP) additives and these additives are not necessary for average operating conditions. Oils containing EP additives should not be used when a backstop is used as the EP additives will destroy sprag action. For any special application considerations (low temperature, food industry use, etc) we recommend that you contact product engineering.
- The recommended volumes in Table 3 are approximate. Units should always be filled until oil runs out of the level hole. For units operating below 15 RPM output speed, the oil level should be adjusted to reach the highest oil level plug.



World Headquarters

P.O. Box 2400, Fort Smith, AR 72902-2400 U.S.A., Ph: (1) 479.646.4711, Fax (1) 479.648.5792, International Fax (1) 479.648.5895

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