



MOTOR MOUNTING INSTRUCTION

1

Double-check the motor and gearbox size
Clean the mounting surface

2

Rotate the set collar until the bolt is aligned with access hole.

3

a Remove motor key, if necessary
b Insert balance key, if necessary

4

Check motor shaft size and insert bushing, if necessary

Correct Installation

When installing on keyed or flatted shafts, orient per figures below.

Without bushing With bushing

5

Set at vertical position, tighten the mounting bolts (including washer) in 1~4 order with wrench to 5% specified torque (see table 1)

6

Tighten the set collar bolt with torque wrench to specified torque (see table 2)

7

Tighten the mounting bolts in 1~4 order with torque wrench to specified torque (see table 1)

8

Insert the plug

For more information, please visit our website: www.apexdyna.nl

High Precision Planetary Gearboxes



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Table 1 Tightening torque recommended for motor mounting bolt

Bolt size	Width Across Flats	Strength 8.8 Tightening Torque		Strength 10.9 Tightening Torque		Strength 12.9 Tightening Torque	
	[mm]	[Nm]	[In-lbs]	[Nm]	[In-lbs]	[Nm]	[In-lbs]
M3 x 0.5P	2.5	1.3	12	1.8	16	2.1	19
M4 x 0.7P	3	3	27	4.1	37	4.9	44
M5 x 0.8P	4	6.1	55	8.2	73	9.8	87
M6 x 1P	5	11	98	14	124	17	151
M8 x 1.25P	6	25	222	34	302	41	364
M10 x 1.5P	8	49	434	67	594	80	709
M12 x 1.75P	10	85	753	116	1028	139	1232
M14 x 2P	12	137	1214	186	1648	223	1976
M16 x 2P	14	210	1860	286	2534	343	3038

Table 2 Tightening torque recommended for set collar bolt

Gearbox size	Motor shaft diameter	Bolt Size	Width across flats	Tightening torque		
	[mm]	[mm]	[mm]	[Nm]	[In-lbs]	
PE II 050 PG II 040 PSII A	PA II 042 PN II 017	C3 ≤ 8	M5 x 0.8P x 16L	4	9,8	87
		C3 ≤ 11	M5 x 0.8P x 16L	4	9,8	87
		C3 ≤ 14	M5 x 0.8P x 16L	4	9,8	87
PE II 070 PG II 060 PS II B	PA II 060 PN II 023	C3 ≤ 8	M5 x 0.8P x 16L	4	9,8	87
		C3 ≤ 11	M5 x 0.8P x 16L	4	9,8	87
		C3 ≤ 14	M5 x 0.8P x 16L	4	9,8	87
		C3 ≤ 19	M8 x 1.25P x 25L	6	41	364
PE II 090 PG II 080 PS II C	PA II 090 PN II 034	C3 ≤ 14	M5 x 0.8P x 16L	4	9,8	87
		C3 ≤ 19	M8 x 1.25P x 25L	6	41	364
		C3 ≤ 24	M8 x 1.25P x 25L	6	41	364
		C3 ≤ 28	M8 x 1.25P x 25L	6	41	364
PE II 120 PG II 120 PS II D	PA II 115 PN II 042	C3 ≤ 19	M8 x 1.25P x 25L	6	41	364
		C3 ≤ 24	M8 x 1.25P x 25L	6	41	364
		C3 ≤ 28	M8 x 1.25P x 25L	6	41	364
		C3 ≤ 32	M10 x 1.5P x 30L	8	80	709
		C3 ≤ 35	M10 x 1.5P x 30L	8	80	709
		C3 ≤ 38	M10 x 1.5P x 30L	8	80	709
PE II 155 PG II 160 PS II E	PA II 142 PN II 056	C3 ≤ 19	M8 x 1.25P x 25L	6	41	364
		C3 ≤ 24	M8 x 1.25P x 25L	6	41	364
		C3 ≤ 28	M8 x 1.25P x 25L	6	41	364
		C3 ≤ 32	M10 x 1.5P x 30L	8	80	709
		C3 ≤ 35	M10 x 1.5P x 30L	8	80	709
		C3 ≤ 38	M10 x 1.5P x 30L	8	80	709
		C3 ≤ 42	M12 x 1.75P x 35L	10	139	1232

Note: Tightening torque values can be exceeded by 20% for increased clamping force.

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