



## **MOUNTING INSTRUCTION (PII series)**

**1**

Double-check the motor and gearbox size.  
Clean the mounting surfaces.

**2**

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

**3**

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

**4**

Check motor shaft size.  
(If necessary, please insert bush)

**Correct installation.**

When installing on keyed or flatted shafts, please refer to figure below.

**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 Table1)

**8**

Insert the plug

**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 Dia.	Bolt Size	Width Across Flats	Tightening Torque	
		[mm]	[mm]	[mm]	[Nm]	[In-lbs]
PE II 050 PG II 040 PS II A	PA II 042 PN II 017 PD 053	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 PL 070	PA II 060 PN II 023 PD 064	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 PL 090	PA II 090 PN II 034 PD 090	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 PL 120	PA II 115 PN II 042 PD 110	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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