



Worm Gearmotor Adapter Kit Installation Instructions

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FORM
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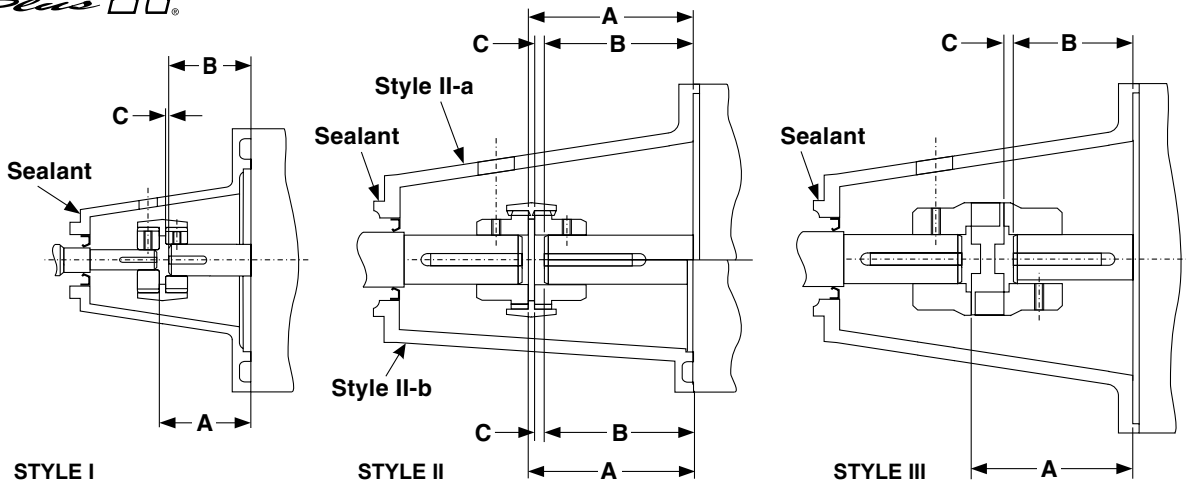
⚠ WARNING

- Read and follow all instructions carefully.
- Disconnect and lock-out power before installation and maintenance. Working on or near energized equipment can result in severe injury or death.
- Do not operate equipment without guards in place. Exposed equipment can result in severe injury or death.

⚠ CAUTION

- Periodic inspections should be performed. Failure to perform proper maintenance can result in premature product failure and personal injury.

RAIDER
Plus



This kit is used to adapt a solid input shaft reducer to a C-flange motor.

Place the reducer on a flat horizontal surface with the input up.

1.33 - 3.25 C.D.: Being careful not to damage the shaft or bearing, remove the input worm oil seal.

3.75 - 6.00 C.D.: Remove the input bearing retainer and discard.

The replacement seal should be installed in the motor adapter and should be flush with the cast surface. (See drawings above).

1.33 - 6.00 C.D.: Using the sealing compound provided, lay a bead of sealant around the outside of the lip on the small end of the adapter.

Carefully mount the adapter on the reducer. Protect the seal during this installation by wrapping the shaft with plastic tape coated with grease. Damaged seals cause oil leaks and should be replaced. Secure the adapter using cap screws and washers provided.

Install the reducer key and coupling hub to the reducer using the dimensions in the table below. The hub can be secured using a hex-wrench through the hole in the adapter.

Install the motor key and coupling hub to the motor using the dimensions in the table.

Place the coupling sleeve or insert onto the motor coupling hub and carefully mount the motor so the motor coupling hub engages correctly. Secure the motor using the screws and washers supplied.

Capscrew Tightening Torques

Motor Frame	Center Distance	Style	A	B	C
56C	1.33 to 3.25	I	2 ⁵ / ₁₆	2 ¹ / ₁₆	¹ / ₁₆
	3.75	II-b	2 ⁹ / ₁₆		⁵ / ₁₆
143TC 145TC	1.33 to 3.25	I	2 ³ / ₈	2 ¹ / ₈	¹ / ₁₆
	3.75	II-b	2 ⁵ / ₈		⁵ / ₁₆
	4.50		2 ¹ / ₂		³ / ₁₆
182TC 184TC	1.33 to 3.25	II-a	3 ⁵ / ₁₆	2 ⁵ / ₈	¹ / ₂
	3.75		3 ¹¹ / ₁₆		⁷ / ₈
	4.50		3 ⁵ / ₁₆		¹ / ₂
	5.16		3 ⁵ / ₁₆		¹ / ₂
	6.00	III	4 ⁵ / ₁₆		¹¹ / ₁₆
213TC 215TC	3.75	II-a	3 ⁷ / ₈	3 ¹ / ₈	⁹ / ₁₆
	4.50		3 ¹¹ / ₁₆		³ / ₈
	5.16		3 ¹ / ₂		³ / ₁₆
	6.00	III	4 ¹ / ₂		³ / ₈
254TC	6.00		5	3 ³ / ₄	¹ / ₄

Capscrew size	Torque (Ft.Lbs)
¹ / ₄ - 20	6.25
⁵ / ₁₆ - 18	13
³ / ₈ - 16	20
⁷ / ₁₆ - 14	35
¹ / ₂ - 13	50
⁵ / ₈ - 11	90

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⚠ WARNING

High voltage and rotating parts may cause serious or fatal injury. Turn off power to install or service. Operate with guards in place. Read and follow all instructions.