



Extreme Duck® Ultra Motor Q-Car™ Rotor Cartridge Installation Instructions

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FORM

L0050E

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⚠ WARNING

Each item below identifies a hazardous situation which, if not avoided, could result in death or serious injury. Failure to follow the instructions and precautions listed below could result in personal injury or damage to equipment.

- 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.

⚠ WARNING

- Death and serious injury could result from failure to follow the guidance/instruction given.
- Periodic inspections should be performed. Failure to perform proper maintenance could result in premature product failure and personal injury.
- NOTICE: Failure to perform maintenance could result in premature product failure and personal injury.

Disassembly/reassembly instructions for LEESON® Q-Car Assembly **(Warning: Disconnect power to the motor before starting this procedure)**

1. Remove the (3 or 4) fan guard mounting screws on the lead end of the motor.
2. Remove the fan guard.
3. Remove the retaining ring from the end of the shaft.
4. Using two thin pry bars pry off the fan.
5. Remove the (4 or 6) socket head cap screws from the drive end of the motor.
6. Thread two of the screws into the tapped holes to loosen the Q-Car (rotor) assembly.
7. Pull the old Q-Car assembly out of the motor. If the Q-Car rotor cartridge will not pull out, gently tap on the lead end shaft extension with a soft faced hammer to remove the Q-Car rotor cartridge.
8. Inspect the shaft seal from the lead end of the frame assembly. If it is damaged, order a new seal to replace the damaged seal.
9. Liberally apply Polyrex®* EM grease between the lips of the lead end shaft seal.
10. Ensure that the wavy spring is still in place in the lead end bearing bore, and carefully install the new Q-Car assembly into the frame assembly.
11. Gently tap the drive end shaft extension to seat the Q-Car assembly in the frame assembly. Monitor the lead end shaft seal to ensure it does not get damaged during this step. Rotate the motor shaft to ensure that the Q-Car rotor cartridge can rotate in the motor. Note: The bearing seals and shaft seals will make it difficult to turn the shaft.
12. Align the screw holes and install the four socket head cap screws to secure the Q-Car assembly in the motor. Tighten the screws a few threads at a time until the Q-Car assembly is fully seated in the motor. Torque the screws to 18-36 in-lbs.
13. Assemble the external fan, retaining ring, fan guard and fan guard screws to the motor assembly.
14. Remove the pipe plug from the old Q-Car assembly. Apply new Teflon®* tape to the plug and install it in the new Q-Car assembly. Torque the pipe plug to 7 in-lbs.

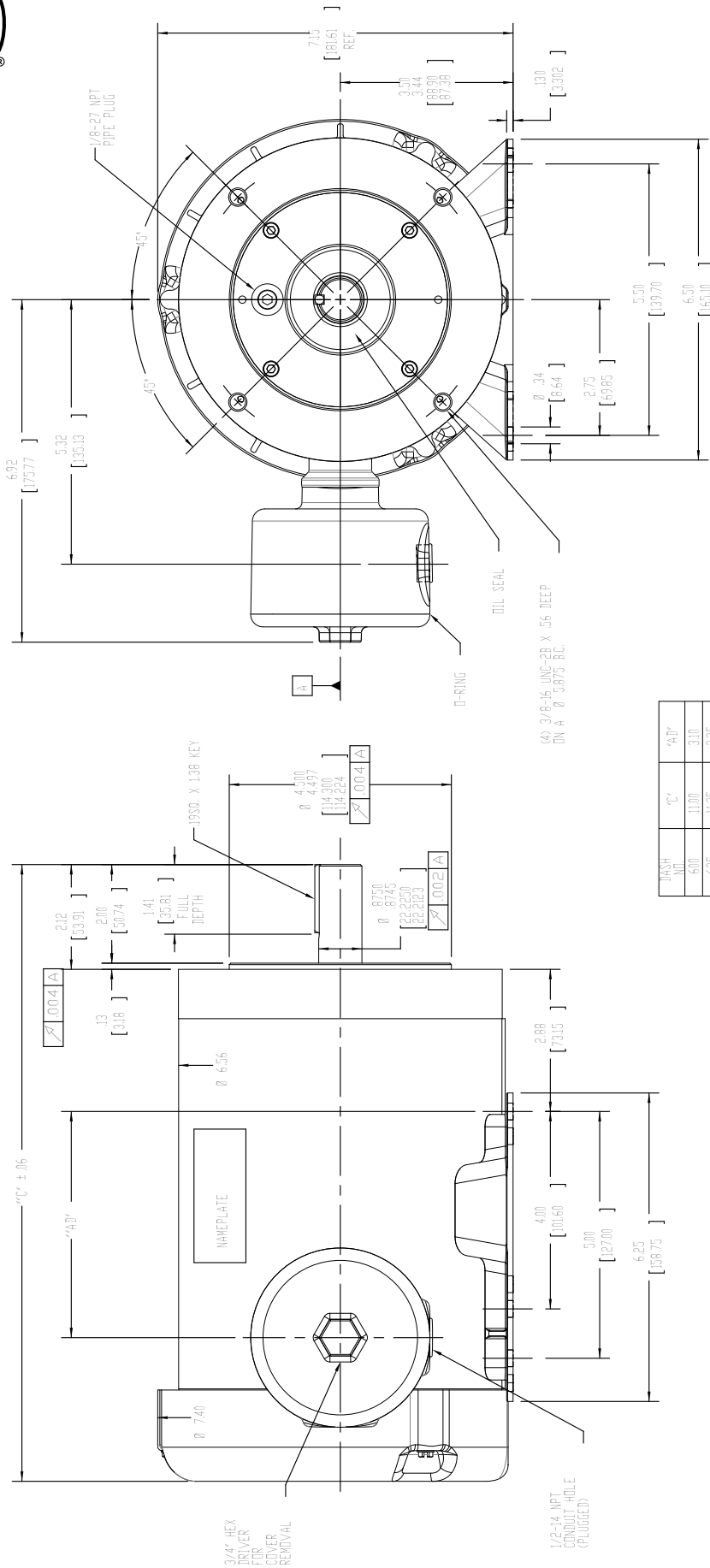
Tools and supplies required:

- Wrench, nutdriver, or flat blade screwdriver (to remove fan guard mounting screws)
- Retaining ring pliers
- (2) thin pry bars (to remove external fan)
- Soft-faced hammer
- Allen wrench set
- Teflon tape
- Mobil® Polyrex®* EM grease

*Teflon is believed to be a trademark of The Chemours Company and is not owned or controlled by Regal Beloit Corporation.

* Mobil and Polyrex are believed to be trademarks of Exxon Mobil Corporation and are not owned or controlled by Regal Beloit Corporation.

REGAL®



DASH	"C"	"4D"
600	11.00	3.00
625	11.25	3.35
700	12.00	4.10
750	12.50	4.40
800	13.00	5.10
825	13.25	5.35

REVISION	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED	ANGLE	FINISH	DRAMA BY	REGAL	Regal Beloit America, Inc.
ECO-0124781	AS	16/06/2017	INCHES	XX	125	CHRIS FISHER		
ECO-0124781	JD	16/06/2017	MILLIMETERS	XXX	125	DATE	11/20/2014	OUTLINE
FOR DESCRIPTION: APPROVED FOR CONDUIT HOLE & NPT PIPE PLUG				APPROVED BY				
APPROVED FOR CONDUIT HOLE & NPT PIPE PLUG				DATE				
APPROVED FOR CONDUIT HOLE & NPT PIPE PLUG				REFERENCE				PROCESS/INSH
APPROVED FOR CONDUIT HOLE & NPT PIPE PLUG				THIRD ANGLE PROJECTION				
APPROVED FOR CONDUIT HOLE & NPT PIPE PLUG				SIZE				029048
APPROVED FOR CONDUIT HOLE & NPT PIPE PLUG				SHEET				1 OF 1