



80238041
Edition 1
June 2007

Barring Motor B006 and T480 Series

Product Information



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Product Safety Information

Intended Use:

This product is designed to be mounted to reciprocating internal combustion engines and manually engaged and locked with the flywheel ring gear during routine maintenance procedures. It is intended to be used to position or index the engine at slow speed as a substitute for manually barring the engine.

For additional information:

Refer to **Barring Motors Product Safety Information Manual Form 45526654**.

Manuals can be downloaded from www.irttools.com.

Product Specifications

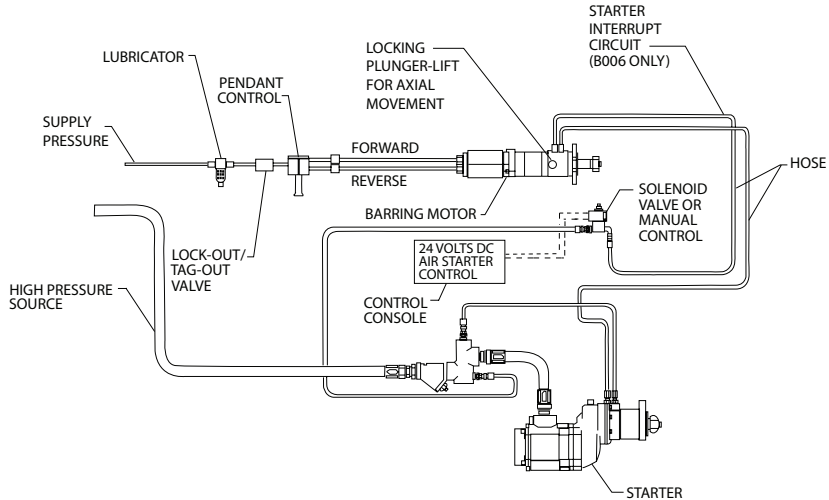
| Model | Mounting | Free Speed | Starting Torque | | SCFM | Sound Level dB (A) | |
|-------------|----------|------------|-----------------|-----|--------|---|---|
| | | (rpm) | ft-lbs | Nm | | † Pressure (L _p) (ISO 11203) | ‡ Power (L _w) (ISO 3744) |
| B006 Series | Flange | 47 | 150 | 206 | 33 max | 103.3 | 114.3 |
| T480 Series | Flange | 90 | 300 | 400 | 95 | 107.2 | 118.2 |

† K_A = 3dB measurement uncertainty

‡ K_{WA} = 3dB measurement uncertainty

Installation

Air Starter and Barring Motor or System with Pendant Control



Orientation

B006

If necessary it is possible to orient the barring motor specifically for your application. (refer to dwg. 45507084 in Parts Information Manual 45526662). Loosen the four flange screws (item 3). Rotate the flange to the appropriate orientation. When set to the proper position tighten to between 29-31 ft-lbs (39-42 Nm).

T480

The flange can be oriented for the application (refer to Dwg. 45505153 in Parts Information Manual 45528262). To position the flange, first remove the six (6) flange bolts (item 10). Next remove the flange and rotate it to the proper position. Finally, reinsert the six (6) flange bolts and tighten to between 12-14 ft-lbs. In addition, it is also possible to re-position the Gear Assembly and motor/brake assembly. Remove the four screws (item 6) that secure the Gear Assembly to the offset gearcase; DO NOT SEPERATE THE COMPONENTS. Rotate the assembly in 90° increments until the proper position is achieved. Insert the four (4) screws and tighten to 25 ft-lbs.

Installation

Install barring motor with appropriate fasteners and fastener torque. Installation should be consistent with engine manufacturers recommendations for the engine starter. Consult engine manufacturers recommendations for proper starter installation.

Engagement

B006

Engagement with the engine flywheel is achieved manually. To engage the barring motor first raise the locking plunger (item 7, dwg. 45507084 in Parts Information Manual 45526662). Next grasp the air motor body and slide the barring motor into engagement with the flywheel. It may be necessary to rotate the barring motor pinion to achieve engagement. Full engagement has been achieved when the locking plunger locks the barring motor in the appropriate position.

T480

Engagement is achieved through actuation of the engagement valve (item 16). (Refer to Dwg.45535762, in Parts Information Manual 45528262). To engage, first lift the Lock Pin Assembly (18). Second, actuate the engagement valve (16) to move the pinion into engagement with the ring gear. Finally, the Lock Pin Assembly should be fully depressed before proceeding further. Note, it may be necessary to rotate the barring motor pinion to achieve engagement.

Disengagement

B006

Disengagement from the engine flywheel is achieved manually. To disengage the barring motor first raise the locking plunger (item 7, dwg. 45507084 in Parts Information Manual 45526662). Next, grasp the air motor body and slide the barring motor out of engagement with the flywheel. It may be necessary to rotate the barring motor pinion to achieve disengagement.

T480

Disengagement is achieved by actuation of engagement/disengagement valve (item 16). (Refer to Dwg.45535762, in Parts Information Manual 45528262). To disengage, first lift the Lock Pin Assembly (18). Second, actuate the engagement valve (16) to move the pinion out of engagement with the ring gear. Finally, the Lock Pin Assembly should be fully depressed before proceeding further.

Pendant Handle Operation

The barring motor is operated through a hand-held pendant handle control. This control is equipped with a safety lock-out device, and the safety lock-out should be locked in the OFF position whenever engine rotation is not necessary. Engine rotation is achieved by depressing the red or green (B006 only) levers on the pendant handle. Due to the wide variety of engines and mounting configurations the operator should visually confirm rotation direction prior to initiating any maintenance activity. It is necessary for the barring motor to be fully engaged to rotate the engine.

Parts and Maintenance

When the life of the Motor has expired, it is recommended that the Motor be disassembled, degreased and parts be separated by material so that they can be recycled.

Motor repair and maintenance should only be carried out by an authorized Service Center.

For additional information refer to:

B006 Series:

Parts Information Manual 45526662.

Maintenance Information Manual 45526670.

T480 Series:

Parts Information Manual 45528262.

Maintenance Information Manual 45528270.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

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Ingersoll Rand

Hindley Green, Wigan WN2 4EZ, UK

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(ES) Fecha: Junio, 2007: (FR) Date: Juin, 2007: (IT) Data: Giugno, 2007: (DE) Datum: Juni, 2007: (NL) Datum: Juni, 2007: (DA) Dato: Juni, 2007: (SV) Datum: Juni, 2007: (NO) Dato: Juni, 2007: (FI) Päiväys: Kesäkuu, 2007: (PT) Data: Junho, 2007: (EL) Ημερομηνία: Ιούνιος, 2007:

Approved By:

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David R. Hicks

Global Engineering Manager - Tools

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Ingersoll Rand

Hindley Green, Wigan WN2 4EZ, UK

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(SL) Pod polno odgovornostjo izjavljamo, da se izdelek: (SK) Prehlasujeme na svoju zodpovednost', že produkt:
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(LV) Uzņemoties pilnīgu atbildību, apliecinām, ka ražojums: (PL) Oświadczam, że ponosi pełną odpowiedzialność za to, że produkt:

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(PL) Zatwierdzone przez:

David R. Hicks

Global Engineering Manager - Tools

Notes:

Notes:

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