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## MODEL 78164

### CATERPILLAR ENGINE STAND ADAPTER INSTRUCTIONS

*(1673, 1674, 1693, 3306, & 3406 in-line 6 cyl. also 1100 & 3208 V8 and 3408 V8. Dodge truck 5.9 and 8.5 diesel)*

The Caterpillar engine mounting adapter is used with the universal mounting adapter that is included with the Norco diesel engine stand. The universal mounting adapter consists of a mounting plate that bolts directly to the engine stand drive shaft and two plates that bolt to opposite sides of the mounting plate.

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### IMPORTANT: READ THESE INSTRUCTIONS BEFORE OPERATING

**BEFORE USING THIS DEVICE, READ THIS MANUAL COMPLETELY AND THOROUGHLY, UNDERSTAND ITS OPERATING PROCEDURES, SAFETY WARNINGS AND MAINTENANCE REQUIREMENTS. FAILURE TO DO SO COULD CAUSE ACCIDENTS RESULTING IN SERIOUS OR FATAL PERSONAL INJURY AND/OR PROPERTY DAMAGE.**

The use of portable automotive lifting and support devices is subject to certain hazards that cannot be prevented by mechanical means, but only by the exercise of intelligence, care, and common sense. It is therefore essential to have owners and personnel involved in the use and operation of equipment who are careful, competent, trained, and qualified in the safe operation of the equipment and its proper use. Examples of hazards are dropping, tipping, or slipping of engines or their components caused primarily by improperly securing loads, overloading, off-centered loads, use on other than

hard level surfaces, and using equipment for a purpose for which it was not designed.

It is the responsibility of the owner to make sure all personnel read this manual prior to using this device. It is also the responsibility of the device owner to keep this manual intact and in a convenient location for all to see and read. If the manual is lost or not legible, contact Norco Industries, Inc. for a free replacement. If the operator is not fluent in English, the product and safety instructions shall be read to and discussed with the operator in the operator's native language by the purchaser/ owner or his designee, making sure that the operator comprehends its contents.

#### WARRANTY

This product is covered by a Limited Lifetime Warranty. For details see the back cover of Norco's product catalog.

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### WARNING

Always make sure engine stand adapter plates and engine setup are secure and stable before removing engine lifting device. This means all bolts and screws must be grade 8, the proper length, and fully tightened.

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### OPERATING INSTRUCTIONS

1. On a horizontal plane, determine where the engine's center of balance is located. It is usually located approximately 2" above the centerline of the crankshaft.
2. Remove the side plates from the universal adapter plate and attach them loosely to the engine mounting adapter. The engine mounting adapter should already be attached to the engine.
3. Position the engine with the engine stand so the engine's center of balance is approximately in-line with the engine stand's drive shaft. Next, align the holes in the universal side plates with the closest tapped holes in the universal adapter plate. Tighten all bolts that secure the side plates to the engine mounting adapter and the universal mounting plate adapter on the engine stand.

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### REPAIR SERVICE

If your Norco product requires service or repair, contact the Norco Customer Service Department for the location of the nearest Norco Authorized Service Center.

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It will be necessary to provide the Norco Authorized Service Center with a copy of the bill of sale if requesting warranty repair. If the authorized service center determines your product is eligible for warranty repair, the repair will be made at no charge and returned freight prepaid. The cost of non-warrantable service, repair, and return freight is the customer's responsibility.