

# **Installation Instructions for 80059**

## **Rotating Engine Stand**

### **1,000 lb. Capacity**

#### **Specifications**

**Capacity:** 1,000 Lbs.

**Overall Length:** 38.58"

**Width:** 35.83"

**Height:** 36"

**Shipping Weight:** 93 lbs.

#### **WARNING INFORMATION**

##### **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.

It is the responsibility of the owner to make sure all personnel read this manual prior to using the 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 or product labels are lost or not legible, contact JEGS for replacements. 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.

##### **THE NATURE OF HAZARDOUS SITUATIONS WARNING!**

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 the 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 loads 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.

##### **METHODS TO AVOID HAZARDOUS SITUATIONS WARNING!**

- Read, study, understand and follow all instructions before operating this device.
- User and bystanders must wear eye protection that meets ANSI Z87.1 and OSHA standards.
- Inspect the engine stand before each use. Do not use if damaged, altered, modified, in poor condition, or has loose or missing hardware or components. Take corrective action before using the engine stand.
- Do not use beyond rated capacity.
- Use only on hard level surface capable of supporting the load.
- Make sure all mounting hardware is securely tightened and setup is stable before rotating engine.
- Always use high strength SAE grade 8 bolts for mounting engine to mounting head fingers.
- Make sure widest set of mounting head fingers are nearest the ground when mounting engine to stand.
- Assure the load is centered, balanced and secured to the mounting head and fingers. The engine's weight should be balanced within one inch of the mounting head's rotational axis.
- Adequately support the vehicle before starting repairs.
- Never loosen mounting head bolts or engine mounting bolts unless engine is supported by a crane or hoist.
- Only attachments and/or adapters supplied by JEGS shall be used.
- Do not use stand to dolly or transport engine.
- Do not crawl under engine or place any part of your body under engine at any time.
- Refer to engine manufacturer's service manual for proper lifting points, mounting points and bolt sizes. Mounting bolts should be torqued at appropriate amount to maintain load.
- This product contains one or more chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands thoroughly after handling.
- Failure to heed these warnings may result in serious or fatal personal injury and/or property damage.

##### **CONSEQUENCES OF NOT AVOIDING HAZARDOUS SITUATIONS WARNING!**

Failure to read this manual completely and thoroughly, failure to understand its OPERATING INSTRUCTIONS, SAFETY WARNINGS, MAINTENANCE INSTRUCTIONS and comply with them, and failure to comply with the METHODS TO AVOID HAZARDOUS SITUATIONS could cause accidents resulting in serious or fatal personal injury and/or property damage.



**1-800-345-4545 *jegs.com***

## OPERATING INSTRUCTIONS

Obey all instructions to avoid possible injury or death.

1. Consult the vehicle or engine manufacturer for service manuals and or technical bulletins that provide information on suggested engine mounting tips, proper size and type mounting bolts and the engine's center of balance. The engine's center of balance will have to be aligned with the rotational axis of the engine stand's mounting head assembly.
2. Drain oil and coolant and remove clutch bell housing and flywheel from engine before mounting. Attach an engine lifting bar or sling to the engine and secure the bar or sling to a shop crane or hoist. Slowly lift the engine from its compartment making sure no other vehicle components, wires or hoses obstruct the free movement of the engine. Raise the engine high enough so its center of balance is close to the rotational axis of the stand's mounting head.
3. Make sure, the four mounting head fingers are loosely connected to the mounting head plate. Secure the four mounting head fingers to the bell housing end of the engine with the appropriate bolts and washers. Reposition the mounting head, fingers and engine so the engine's center of balance is within one inch of the mounting head's rotational axis. Tighten all bolts to a sufficient torque requirement that prevents any slippage.
4. Slowly lower the crane or hoist so the engine stand supports full weight of the engine. To check engine balance and secure setup of the engine to the stand, slowly rotate the engine by turning the gear crank handle. If balance or setup are not stable, rotate the engine to its original position, raise the crane or hoist so the weight of the engine is removed from the stand and make the correct adjustments. After adjustments are made, tighten all bolts. This adjustment procedure may have to be duplicated several times until correct. After the setup is balanced and secure, the lifting bar or sling can be removed from crane or hoist.
5. To remove the engine from the stand, connect the lifting bar or sling to the crane or hoist and raise the engine high enough to take the weight off the stand. Carefully remove the bolts that connect the four mounting fingers to the engine. Be aware there will be a slight movement of stand as total engine weight is transferred to crane or hoist.
6. This engine stand has a folding feature that can save space or make storage easy. Just remove both pins (12) and their clips (13) so the brace (14) and post (39) can fit flat on top of the center beam assembly (11). The pins and clips can be stored in the open holes.

## PREVENTATIVE MAINTENANCE

Obey all instructions to avoid possible injury or death.

1. Always store the engine stand in a well-protected area where it will not be exposed to inclement weather, corrosive vapors, abrasive dust, or any other harmful elements. **The engine stand must be cleaned of water, snow, sand or grit, oil, grease or other foreign matter before use**
2. Lubricate the wheels, casters, zerk fittings, gear and rotating shaft with general purpose grease.
3. Every engine stand owner is responsible for keeping the engine stand label clean and readable. Use a mild soap solution to wash the external surfaces of the stand. Contact JEGS for a replacement label if your stand's label is not readable.
4. Inspect the stand before each use. Do not use the stand if any component is cracked, broken or bent. Do not use the stand if it has loose or missing hardware or components, or is modified in any way. Take corrective action before using the stand again.



**1-800-345-4545 [jeps.com](http://jeps.com)**

PART	DESCRIPTION	QTY
1	Back rest	1
2	Support	1
3	In the beam	1
4	The front beam	1
5	Support	1
6	Mounting arms	4
7	Turning Plate	1
8	Circular iron cover	1
9	Square iron cover	1
10	Turntable	1
11	Gear a	1
12	Gear b	1
13	Plane bearing	2
14	Handle sleeve	1
15	Key pin	1
16	Choke a	1
17	Choke b	1
18	Iron wheel	2
19	Wheel	2
20	Pin	1
21	M24 Nut	1

PART	DESCRIPTION	QTY
22	M24 Washer	1
23	M12 Pin	3
24	M12 Washer	9
25	"R" Pin	3
26	Bolt M12X70	2
27	M12 Spring Washer	2
28	M12 Nut	6
29	Bolt M4X6	
30	Bolt M12X65	4
31	Big Washer	4
32	Handle	1
33	Bolt M8X16	8
34	Bolt M10X60	4
35	M10 Washer	4
36	M10 Spring Washer	4
37	M10 Nut	4
38	Bolt M8X65	2
39	M8 Washer	10
40	M8 Spring Washer	10
41	M8 Nut	10
42	Inner six angle bolt	3

