

Engine Stand Operating Instructions & Parts Manual

Model	Capacity	
BH5105	750 lb.	
BH5106	1250 lb.	



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

ADVERTENCIA

- Leer, comprender, y seguir las instrucciónes antes de utilizar el aparato.
- El manual de instrucciónes y la información de seguridad deben estar comunicado en lengua del operador antes del uso.
- No seguir estas indicaciónes puede causar daños personales o materiales.

WARNING

To avoid crushing and related injuries:



NEVER work on, under or around a load supported only by engine crane. **ALWAYS** use adequately rated engine stand.

- ★ WARNING: Cancer and Reproductive Harm.
- AVERTISSEMENT: Cancer et dommages au système reproducteur.
- ADVERTENCIA: Cáncer y daño reproductivo.

www.P65Warnings.ca.gov

SFA Companies 10939 N. Pomona Ave. Kansas City, MO 64153 sales@blackhawk-automotive.com

Read this manual and follow all the Safety Rules and Operating Instructions before using this product.

SAFETY and GENERAL INFORMATION

Save these instructions. For your safety, read, understand, and follow the information provided with and on this engine stand before using. The owner and/or operator of this equipment shall have an understanding of engine stand and safe operating procedures before attempting to use. The owner and/or operator shall be aware that the use and repair of this product may require special skills and knowledge. Instructions and safety information shall be conveyed in the operator's native language before use of this engine stand is authorized. If any doubt exists as to the safe and proper use of this product, remove from service immediately.

Inspect before each use. Do not use if broken, bent, cracked, or damaged parts (including labels) are noted. Any engine stand that appears damaged in any way, operates abnormally or is missing parts, shall be removed from service immediately. If you suspect that the engine stand was subjected to a shock load (a load dropped suddenly, unexpectedly upon it), immediately discontinue use until it has been checked by a factory authorized service center (contact distributor or manufacturer for list of authorized service centers). It is recommended that an annual inspection be done by qualified personnel. Labels and owner's manuals are available from manufacturer.

PRODUCT DESCRIPTION

This Engine Stand is designed to safely support a rated capacity engine during that time that the engine is being rebuilt or repaired.



Do not use this device for any purpose other than that for which it is expressly intended.

SPECIFICATIONS

Model	Capacity	Base Size (L x W)	Overall Height	Head Plate (L x H x Thickness)	Wheel Diameter	Shipping Weight
BH5105	750 lb.	31 1/2" x 34"	36 3/4"	10" x 16" x 3/8"	3"	56 lb.
BH5106	1250 lb.	33 3/8" x 33 7/8"	42 3/4"	(7 1/2" - 10 1/2") x 6 1/2" x 4/8"	3 1/2"	87 lb.

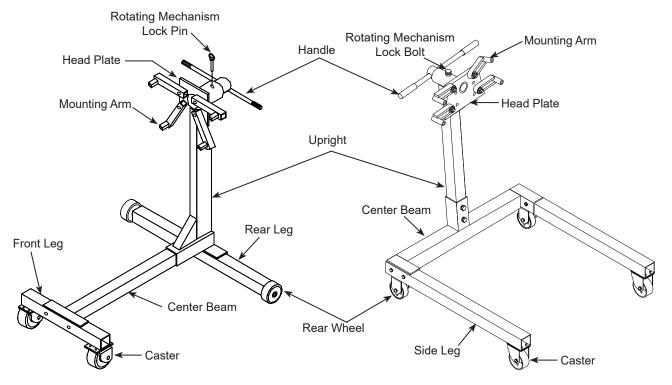


Figure 1 - Model BH5105 Components

Figure 2 - Model BH5106 Components

ASSEMBLY

Model BH5105:

- 1. Attach caster (#13) to front leg (#14) with bolts, washers & and nuts (#15, 16 & 17).
- 2. Attach wheels (#12) to rear leg (#22) with washers & E-ring (#11 & 10).
- 3. Attach front leg (#14) to center beam (#21) with bolts, washers & nuts (#18, 19 & 20).
- 4. Attach upright (#27) and center beam (#21) to rear leg (#22) with bolts, flat washers, lock washers & nuts (#23, 24, 25 & 26) up from the bottom.
- 5. Slide head plate assembly (#9) into collar at top of upright (#27). Align holes and slide in lock pin (#3).
- 6. Attach all four mounting arms (#8) to head plate (#9) with bolts, flat washers, lock washers & nuts (#7, 6, 5 & 4) as shown. Mounting arms can be adjusted to most engines.
- 7. Insert handle (#2) into hole in head plate.
- 8. Place handle grip (#1) on each end of handle.

Note: Check all fasteners for tightness, tighten where required.

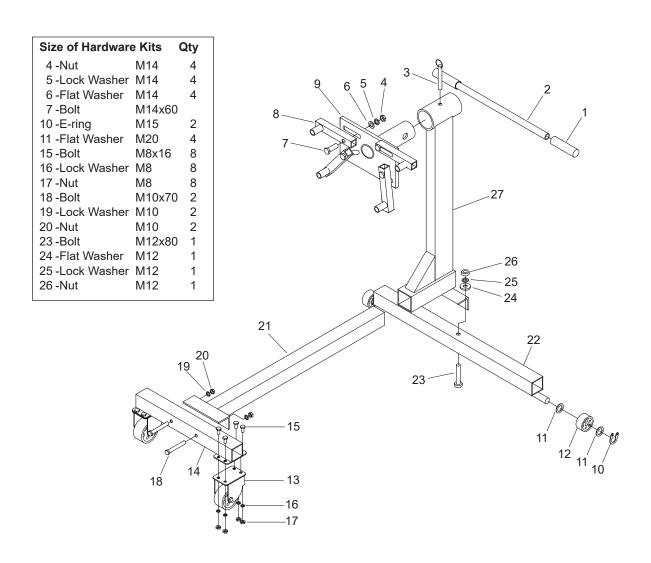


Figure 3 - Assembly Illustration for Model BH5105

ASSEMBLY

Model BH5106:

- 1. Attach wheel bracket (#15) to side leg (#24) with bolt, washer & nut (#19, 12 & 11) up from bottom.
- 2. Insert bushing (#20) into wheel (#21).
- 3. Attach wheel (#21) to bracket (#15) with bolt, washer & nut (#16, 17 & 18).
- 4. Attach caster (#22) to side leg with bolt & washer (#23 & 17).
- 5. Attach center beam (#25) to side legs (#24) with two bolts & washers (#14 & 13) each.
- 6. Attach upright (#7) to center beam (#25) with two bolts (#8).
- 7. Place head plate assembly (#6) into collar of upright (#7). Insert bolt (#8) to fasten head plate assembly.
- 8. Attach all four mounting arms (#4) to head plate (#6) with bolt, flat washer, lock washer & nut (#5, 3, 2 & 1) each.
- 9. Insert handle (#10) into hole of head plate assembly (#6). Place handle grip (#9) on each end of handle.

Note: Check all fasteners for tightness, tighten where required.

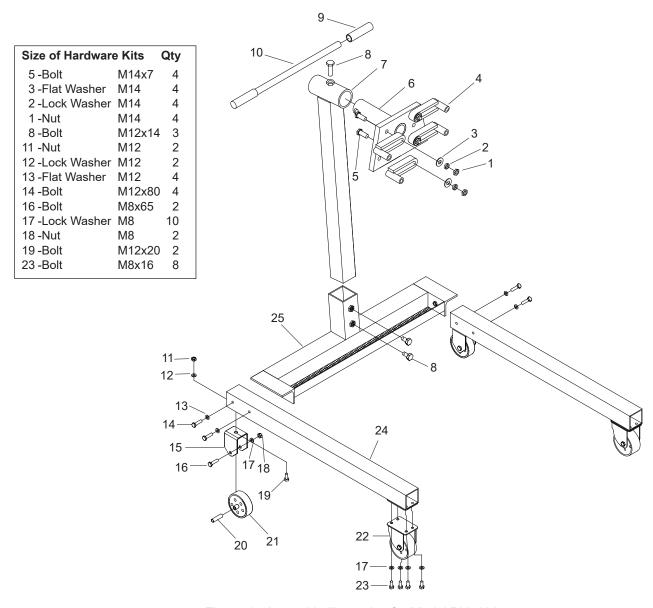


Figure 4 - Assembly Illustration for Model BH5106

BEFORE USE

- Before using this product, read the owner's manual completely and familiarize yourself thoroughly with the product and the hazards associated with its improper use.
- 2. Verify that the product and the application are compatible, if in doubt call Blackhawk Tech. Service (816)891-6390.
- 3. Inspect engine stand before each use. Do not use if there are bent, broken or cracked components (including labels).
- 4. Ensure that casters/ wheels and adapter plate rotate freely. Check for and tighten any loose assemblies.

WARNING

- Study, understand, and follow all instructions provided with/on this device before use.
- · Do not exceed rated capacity.
- Use only on a hard, level surface.
- Lock head plate rotating mechanism before applying load.
- Use original engine mounting bolts or hardened, appropriate size bolts to secure engine to stand.
- Ensure engine is centered and secured to the head plate. Off-center loading may cause the engine to rotate unexpectedly and cause the loaded stand to tip over.
- Unlock and apply rotating mechanism slowly and carefully.
- Do not modify nor substitute hardware to this device.
- Only attachments and/or adapters supplied by the manufacturer shall be used.
- Do not use the device for any purpose other than that for which it is intended.
- Failure to heed these markings may result in personal injury and/or property damage.

OPERATION

ALWAYS verify that the product and the application are compatible. NEVER load the engine stand with an engine that extends beyond an imaginary line drawn connecting the centerlines of the front and rear wheel/ caster axles as show in Fig 5.

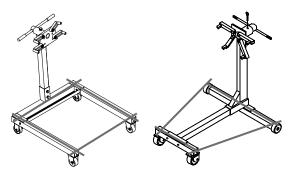


Figure 5 - Peripheral Loading Limit of Engine Stand

- 1. Ensure application is compatible with product.
- 2. Align engine with stand, then adjust mounting arms to match bell housing mounting bolt holes. Rotational lock must be secure before applying load.
- Carefully secure engine so that load is centered on stand. Secure with high strength stud bolts and flat washers. Ensure threads are compatible with your engine, and use washers on both sides of head plate.
- 4. To rotate engine, slowly and carefully release locking mechanism. Use original handle to rotate, then secure by engaging locking mechanism (see Fig.1 & 2).
- Check to ensure stand is secure before working on or around stand. Never work under loaded stand.

Use **only** the handle provided by the manufacturer. The handle provided with this stand will safely engage and operate the head plate. If the handle is worn, bent, or otherwise damaged, **STOP**, discontinue use of the stand until a factory replacement handle assembly can be acquired.

WARNING



To avoid crushing and related injuries:

NEVER work under a loaded stand. Keep body from underneath engine.

MAINTENANCE

Periodically inspect each stand. Ensure all parts move freely. Lubricate the wheels and casters periodically. To help prevent rust, wipe clean after each use. If rust appears, sand affected area and cover with suitable utility paint

Storage

Store the engine stand in clean, dry environment. This will help prevent rust and corrosion.

REPLACEMENT PARTS

(page 6 & 7)

Not all components of the engine stand are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence. When ordering parts, give Model number, serial number and description. Call or write for current pricing: SFA Companies. 10939 N. Pomona Ave. Kansas City, MO 64153, U.S.A. Tel:(816)891-6390 Fax:(816)891-6599 E-Mail: sales@blackhawk-automotive.com

Model BH5105

Item	Part#	Description
1	T093-00002-000	Handle
2	T093-04000-000	Lock Pin
3	T093-03000-000	Head Plate
4	T093-05000-000	Mounting Arm
5	T093-00001-000	Wheel
6	T093-08000-000	Caster, 3"
-	T093-09000-000	Hardware Kit

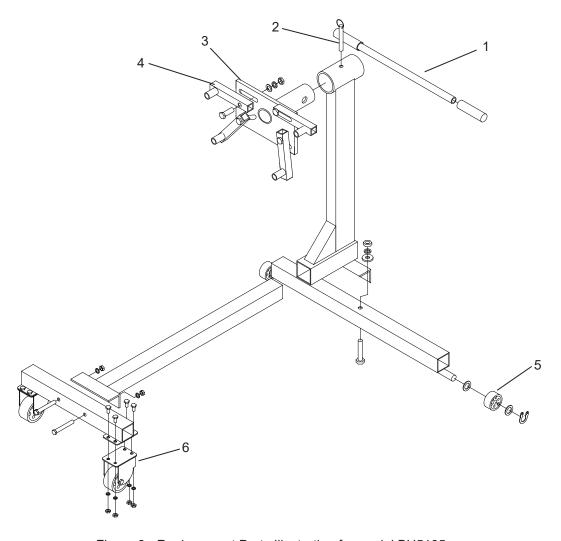


Figure 6 - Replacement Parts Illustration for model BH5105

Model BH5106

Item	Part#	Description
1	BL80-20001-000	Handle
2	5101-12025-000	Bolt
3	T084-04000-000	Head Plate
4	T084-05000-000	Mounting Arm
5	T084-00003-000	Wheel
6	T084-06000-000	Caster, 3 1/2"
7	T084-00002-000	Axle, Wheel
8	T084-00001-000	Bracket, Wheel
-	T084-07000-000	Hardware Kit

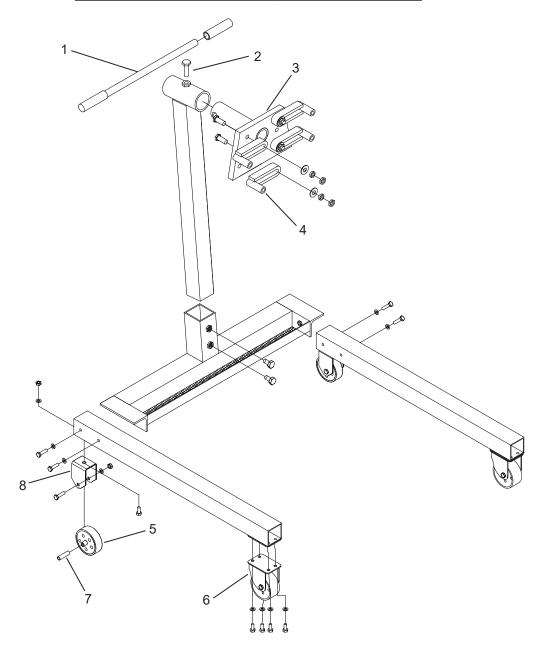


Figure 7 - Replacement Parts Illustration for model BH5106

ONE YEAR LIMITED WARRANTY

For a period of one (1) year from date of purchase, SFA Companies will repair or replace, at its option, without charge, any of its products which fails due to a defect in material or workmanship under normal usage. This limited warranty is a consumer's exclusive remedy.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to SFA Companies Warranty Service Department, 10939 N. Pomona Ave., Kansas City, MO 64153.

Except where such limitations and exclusions are specifically prohibited by applicable law,

- (1) THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY SHALL BE THE REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS AS DESCRIBED ABOVE.
- (2) SFA Companies SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGE OR LOSS WHATSOEVER.
- (3) ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO ONE YEAR, OTHERWISE THE REPAIR, REPLACEMENT OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.
- (4) ANY MODIFICATION, ALTERATION, ABUSE, UNAUTHORIZED SERVICE OR ORNAMENTAL DESIGN VOIDS THIS WARRANTY AND IS NOT COVERED BY THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

