



# FORCE

## Installation Instructions

---

# MOBILE WORK STATION KIT

Force Z-23



**NOTE:** This Owner's Manual covers several models. Features may vary by model. Not all features in this manual are applicable to all models and the model depicted may differ from yours.

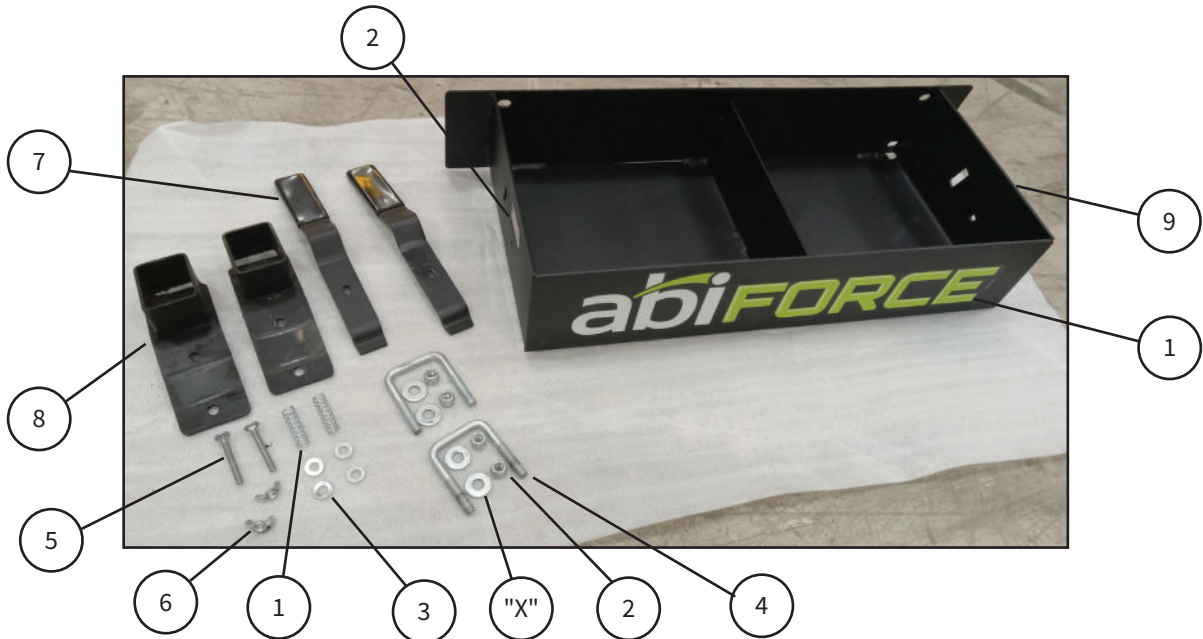
# INSTALLATION INSTRUCTIONS

## TOOLS NEEDED:

- SAFETY GLASSES
- SAFETY SHOES
- 7/16" SOCKET SET (OR WRENCH)
- 1/2" SOCKET SET (OR WRENCH)
- 9/16" SOCKET SET (OR WRENCH)
- 3" SOCKET EXTENSION



## 10-90672 PARTS LIST



ITEM	PART #	DESCRIPTION	QTY
1	10-11263	SPRING: COMPRESSION: TOOL HOLDER	1
2	10-20055	NYLOCK NUT:3/8-16:ZINC GR5	4
3	10-20196	FLT WSHR:1/4 SAE:CL ZINC	4
4	10-20493	U-BOLT: 3/8-16: 2 INSIDE W X 2.625HT X 1.5THD:SQ	2
5	10-20265	BOLT HEX: 1/4-20x2: GR5: ZINC	2
6	10-20570	WING NUT: 1/4-20, ZINC-PLATED STEEL WING NUT	2
7	10-32703	PLATE: TOOL HOLDER HANDLE	2
8	10-40737	ASSY: BOTTOM TOOL HOLDER	2
9	10-40738	WLDMT: BUCKET HOLDER	1

"X" - Washers that came mounted to the "U" bolts.

## INITIAL SETUP INSTRUCTIONS

1. Remove the 4 bolts and washers securing the Rear Back Plate to the Force (Set aside the 4 bolts and washers to use later) (**Fig 1 and 2**).
2. Lift Mobile Work Station Box and align 1 hole in corner of Mobile Work Station Box with the tapped hole on the back side of the Force back rest and thread (1) bolt with washer (hand tight only) that was removed in step 1 (putting the work station box in the same location where the rear back plate was removed in step 1) (**THIS STEP WILL BE MUCH EASIER WITH 2 PEOPLE**) (**Fig 3**).
3. Line up the 3 remaining holes in the work station box with the 3 tapped holes on the back side of the Force back rest and thread (1) bolt with washer that was removed in step 1 into each hole. Tighten all 4 bolts using a 1/2" socket (or wrench) (**Fig 4 and 5**).
4. Slide bent end of Tool Holder Handle Plate into slot on side of box with end with rubber grip facing away from the Force and let hang for the moment (Depending on which design purchased, the Tool Holder Handle Plates may have rubber molded grips that need to be slid on or the Tool Holder Handle Plates may be completely rubber coated) (**Fig 6**).
5. Insert 1/4-20 x 2" long hex head bolt thru hole in side of work station box (head of the bolt on the inside of the box and threads of bolt facing to the outside of box) and then on thru hole in Tool Holder Handle Plate. Insert (1) 1/4" flat washer onto bolt, then insert (1) compression spring onto bolt. Insert (1) 1/4" flat washer onto bolt (**Fig 7 and 8**).
6. Compress the outer washer and spring to allow the end of the bolt to protrude enough to thread the Wing Nut onto the bolt. Thread Wing Nut onto the bolt approximately 1/2" to put tension on the spring (**Fig 9**).
7. Use a 7/16" socket or wrench on the bolt head to keep the bolt from turning while installing the wing nuts.
8. Repeat steps 4 thru 7 on opposite side of the work station box (**Fig 10**).



Fig 1.

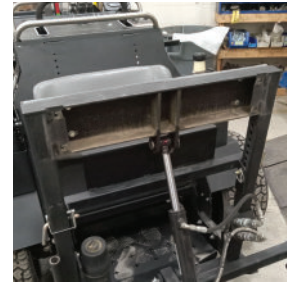


Fig 2.



Fig 3.



Fig 4.



Fig 5.



Fig 6.



Fig 7.

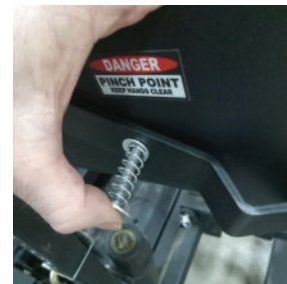


Fig 8.



Fig 9.



Fig 10.

## INITIAL SETUP INSTRUCTIONS (CONT'D)

**NOTE:** (2) NUTS AND (2) WASHERS MAY COME ATTACHED TO THE 10-20493 U-BOLTS . IF SO, REMOVE THE NUTS AND DISCARD BUT KEEP THE WASHERS TO BE USED LATER. USE THE (2) 10-20055 NYLOCK NUTS CALLED OUT IN THE PARTS LIST.

**9.** Remove washers and nuts if mounted to the U-bolts. Discard the (4) nuts and set aside the (4) washers for later.

**10.** The lower cross tube is where the Bottom Tool Holder weldments will be mounted (**Fig 11 and 12**).

**11.** Slide U-bolt over top of lower cross tube close to the vertical tube to the left of the manual cannister. Slide Bottom Tool Holder weldment up to the under side of the lower cross tube and insert the threaded U-bolt ends into the holes on the Bottom Tool Holder weldment (**Fig 13 and 14**) . There should be approximately 1/4" to 1/2" clearance between the left side of the Bottom Tool Holder weldment and lower cross tube support frame (**Fig 14**).

**12.** Slide (1) washer (removed from the U-bolt in step 8) onto each end of the u-bolt then thread (1) Nylock Nut onto each end of the U-bolt hand tight (**Fig 15**).

**13.** To make sure Bottom Tool Holder weldment is inline with the Tool Holder Handle Plate (mounted in steps 4 thru 6, place end of broom handle (or shovel handle) into Bottom Tool Holder weldment pocket and pull out Tool Holder Handle Plate and place broom handle in "V" portion of Tool Holder Handle Plate, then release handle to secure broom to workstation box (**Fig 16 and 17**).

If broom handle is tilting left or right, slide Bottom Tool Holder weldment left or right until broom handle doesn't lean then tighten nuts on U-bolt using 9/16" socket (or wrench) (**Fig 18**).

**14.** Repeat steps 10 thru 13 to mount 2nd Bottom Tool Holder weldment on right side of lower cross tube (**Fig 19**).

**15.** Assembly is now complete (**Fig 20**).



Fig 11.



Fig 12.



Fig 13.



Fig 14.



Fig 15.



Fig 16.



Fig 17.



Fig 18.



Fig 19.



Fig 20.



## CONTACT INFORMATION

ABI ATTACHMENTS, INC  
520 S. BYRKIT AVE.  
MISHAWAKA, IN 46544

## CUSTOMER SUPPORT

EMAIL: [SUPPORT@ABIATTACHMENTS.COM](mailto:SUPPORT@ABIATTACHMENTS.COM)  
PHONE: (877)788-7253  
WEBSITE: [WWW.ABISUPPORT.COM](http://WWW.ABISUPPORT.COM)

To order parts or to speak to one of ABI's Customer Service Representatives contact us Monday to Friday 9am to 5pm EST.

For additional information on the use or setup of the Force Z23 and its accessories, please contact the ABI customer support team at (877)788-7253.

**Warranty Information and Return Policy** - Warranty and return policy information can also be found on the ABI support page under each tool. For additional questions regarding warranty or return policy, contact the ABI customer support team at (877)788-7253.



# FORCE