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## Owner's Manual

*(For use with model number SS100 Shuttles)  
(Patent Pending)*

Please keep this Owner's Manual for future reference. If you sell or give this product to someone else, please include this Owner's Manual, and ask the new owners to read the instructions completely before operating.

## IMPORTANT SAFETY INFORMATION

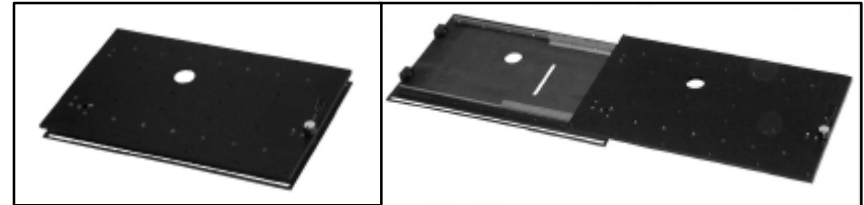
- ① **WARNING** Failure to follow these warnings and assembly instructions could result in serious injury or death!
  
- ① **WARNING** Never exceed shuttle weight capacity (**Model SS100 shuttle 500lbs or 227kg**).
  
- ① **WARNING** Prior to use, ensure that all fasteners are tight and periodically check fasteners.
  
- ① **WARNING** Ensure shuttle base is bolted down with a minimum of three (3) points for weights up to 100lbs. Use five (5) points when weights will be in excess of 100 lbs.
  
- ① **WARNING** This product is intended for adult use (ages 18 or older). Do not allow children to operate or assemble this device.
  
- ① **WARNING** Read enclosed instructions prior to operating this equipment. When cycling shuttle, always use the handle.

## PRIOR TO ASSEMBLY

- Please read this Owner's Manual completely before assembling or operating this product.

If any parts are missing or damaged, please contact our customer service department at **262-627-0649** or by email at **support@hk-mfgnet.com**.

## Model SS100 Shuttle



## Assembly Instructions

**Note:** Your Model SS100 Shuttle may arrive fully assembled depending on the shipping method used. In this case you can skip the below assembly instructions.

**Note:** If your shuttle arrives in two pieces please follow the following assembly instructions. Discard the packing material that the shuttle components arrived in before you begin.

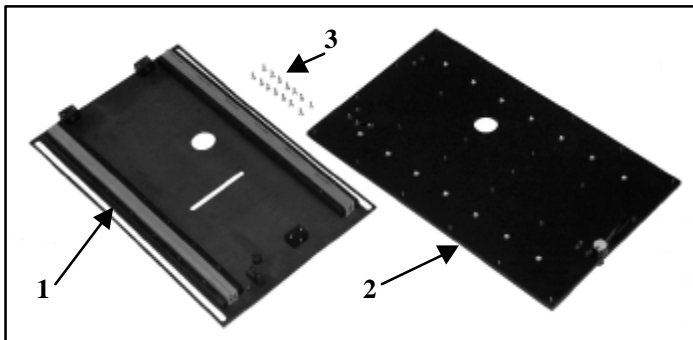
### Required Tools

- 1) 3mm Metric Allen Wrench

### Approximate Assembly Time

- 1) 10 Minutes

### Included Semi-assembled Components



- 1) Base Plate Assembly
- 2) Top Plate Assembly
- 3) Attaching Screws (14 ea)

#### **STEP 1**

Place Base Plate Assembly (1) on solid level surface oriented as shown above.

#### **STEP 2**

Extend rails located on the Base Plate Assembly (1) approximately 2 in. or 50 mm.

#### **STEP 3**

Place Top Plate Assembly (2) in orientation shown, on top of Base Plate Assembly (1) rails aligning mounting holes.

#### **STEP 4**

Using Attaching Screws (2) secure Top Plate Assembly (2) to Base Plate Assembly (1).

#### **STEP 5**

Assembly is now complete, proceed to **Installation Instructions**.

**Note:** Your shuttle is adjusted at the Factory. Upon completion of the Assembly and Installation instructions your shuttle should be ready for use. In the event further adjustments are necessary, consult the Additional Adjustments section of this manual.

### Installation Instructions

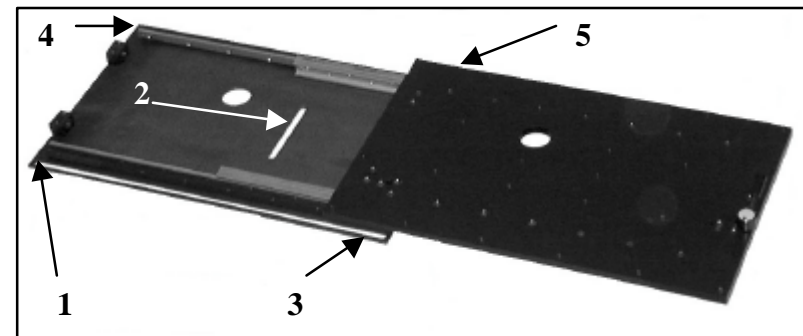
#### Required Tools and Hardware

- 1) Mounting Bolts (5 ea) for above 100lbs or 227kgs
- 2) Washers for Mounting Bolts (5 ea)
- 3) Applicable adjusting device for selected hardware

#### Hardware Selection Criteria

- 1) The shuttle is designed to accept up to 1/2 in or 13 mm Mounting bolts.
- 2) Mounting Bolt length should be long enough to provide a minimum of 3 thread full engagement into the mounting surface.
- 3) Mounting Bolt Washers should be large enough to provide a minimum of 1/8 in or 4 mm of surface coverage on the Base Plate.
- 4) The mounting surface should be a solid material such as Steel or Granite. If other surfaces are to be used, ensure that they provide enough stability to handle the shuttle mounting system and loads.
- 5) When using the shuttle with less than 100lbs or 227kgs, a three point (3) mounting system can be used.

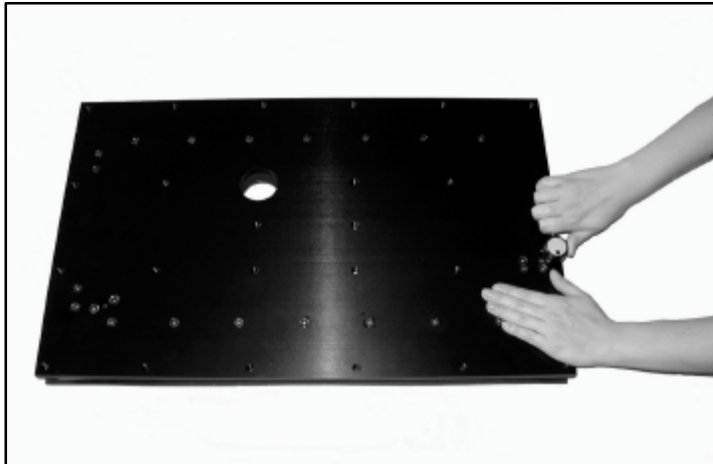
#### Model SS100 Shuttle Mount Bolt Locations



## Operation Instructions

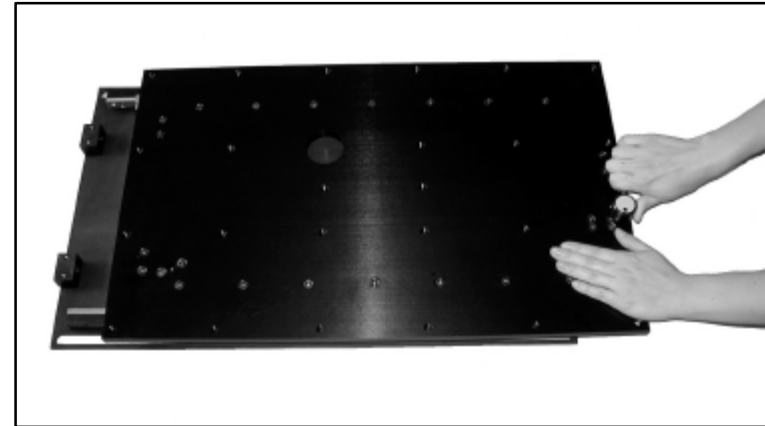
- ① **WARNING** Ensure that the Assembly and Installation instructions in this manual have been completed prior to operating the shuttle.
- ① **WARNING** Always maintain proper hand placement as illustrated below. Failure to comply could result in injury!

### Extending the Shuttle



- STEP 1**  
Grasp handle firmly with right hand. *Note: Thumb Placement*
- STEP 2**  
Place left hand on the top plate to the left of the handle. *Note: Thumb Placement*
- STEP 3**  
Using your right hand, rotate the handle clockwise and pull.
- STEP 4**  
Continue to pull until shuttle is fully extended to the outward detent.

### Retracting the Shuttle

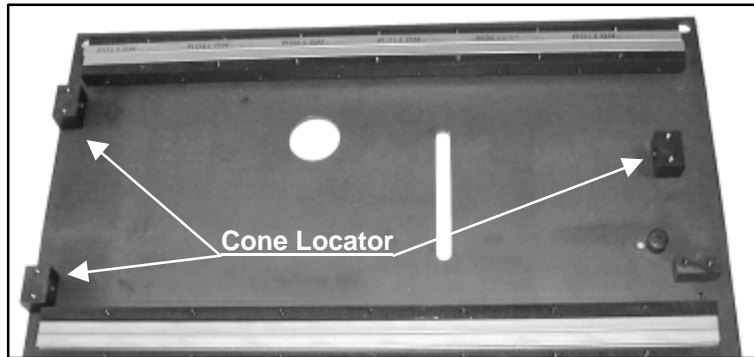


- STEP 1**  
Grasp handle firmly with right hand. *Note: Thumb Placement*
- STEP 2**  
Place left hand on the top plate to the left of the handle. *Note: Thumb Placement*
- STEP 3**  
Using both hands, push hard enough to overcome the outward detent.
- STEP 4**  
Continue to push until shuttle is fully retracted and the inward lock is engaged. *Note the handle will rotate slightly clockwise during the locking event.*

## Additional Adjustments

- 1) Cone Pin and Cone Locator Adjustments
- 2) Outward Detent Adjustment

### Cone Pin and Cone Locator Adjustments



Item	Part Number	Description	Qty
1	1001000	Round Metal Core Bumper - Neoprene Female M6x1.0 - 19mm/dia - 16mm/ht	1
2	1001001	Flat Head Socket Cap Screw 6mm x 12mm SS (Screw for Bumper)	1
3	1001002	Semi-Spherical Nose Positioning Element Heavy Spring Load M16x1.5	1
4	1001003	Spring Plunger Steel M10x1.5	1
5	1001004	Cone Locator Pin 3/4 in.	3
6	1001005	Cone Locator Bushing 3/4 in.	3
7	1001006	Telescopic Rail DEV Series 610mm	2
8	1001007	Steel Control Lever With Through Bore	1
9	1001008	Flat Head Socket Cap Screw M5x18 (Alloy Steel)	76
10	1001009	Bronze Flanged Bearing SAE 841 12MM	1
11	1001010	Spring Pin (Roll Pin) 3/16x1"	1
12	1001011	Cone Locator Bushing Housing	3
13	1001012	Cone Locator Pin Housing	3
14	1001013	Handle Shaft	1
15	1001014	Telescoping Rail Support	4
16	1001015	Handle Cam	1
17	1001016	Locking Block	1
18	1001017	Detent Block	1
19	1001018	Base Plate	1
20	1001019	Top Plate	1
21	1001020	Lock Detent Block	1
22	1001021	Set Screw, Cup Point M4x10 (Alloy Steel)	8

**Note:** The Cone Locators are located in the bottom plate assembly and the Cone Pins are located in the top plate assembly.

#### STEP 1

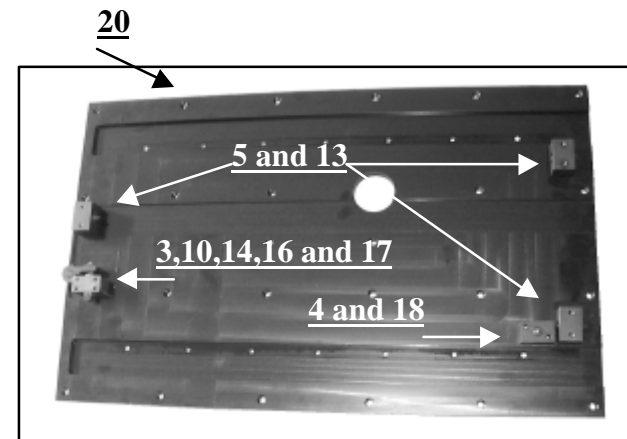
Using set screw located in side of holding blocks, secure cone pins with approximately 1/16 in. or 1mm of cone flange above holding block surface.

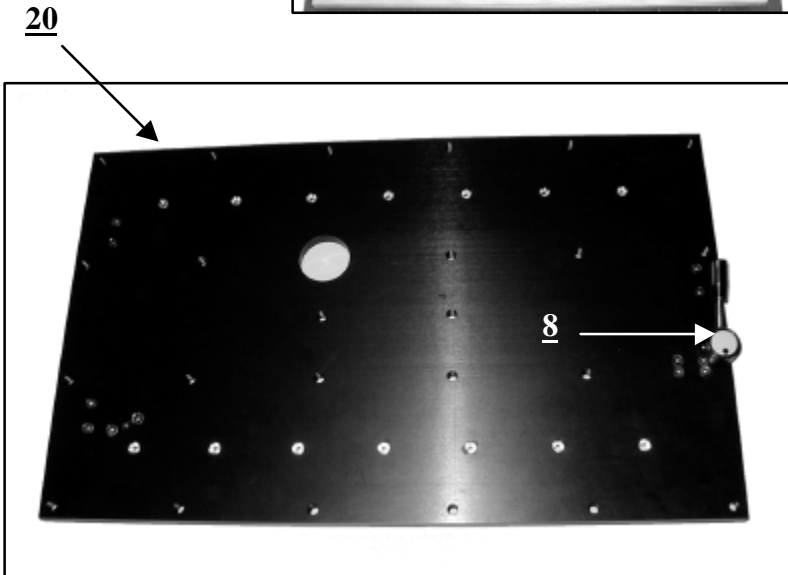
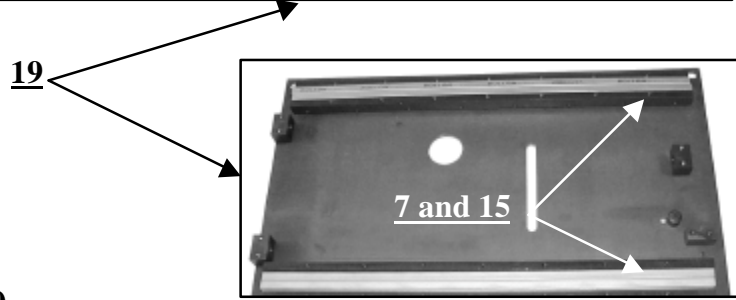
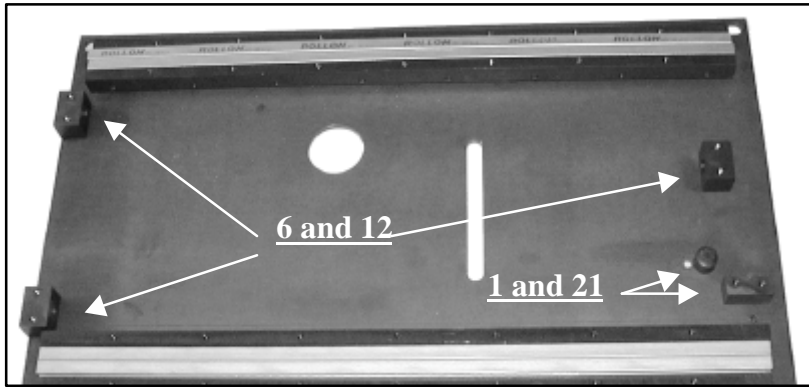
#### STEP 2

Ensure that cone locators are not tightened in holding blocks. Place shuttle in the retracted position with lock engaged.

#### STEP 3

Push the back of the cone locators to the cone pins and tighten the set screws located in the holding blocks.





## ONE YEAR WARRANTY

H & K MFG warrants this product to be free of defective materials and workmanship for one year from the date of purchase and will repair or replace any such defective part without charge for one year. To make claim under warranty, notification of such defect must be given to H & K MFG at the address stated below. You will be instructed on how the product or part needing repair or replacement should be shipped postpaid to H & K MFG.

H & K MFG WILL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY BREACH OF THIS WARRANTY AND UNDER NO CIRCUMSTANCES SHALL ITS LIABILITY EXCEED THE PRICE OF DEFECTIVE PRODUCTS OR PARTS.

Some states do not allow the exclusion or limitation on incidental or consequential damages, so that the above limitation or exclusion may not apply to you.

The warranty gives you specific legal rights, and you may have other rights that vary from state to state.

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