

# 4060/4061/4089 Spider Frame Straightener

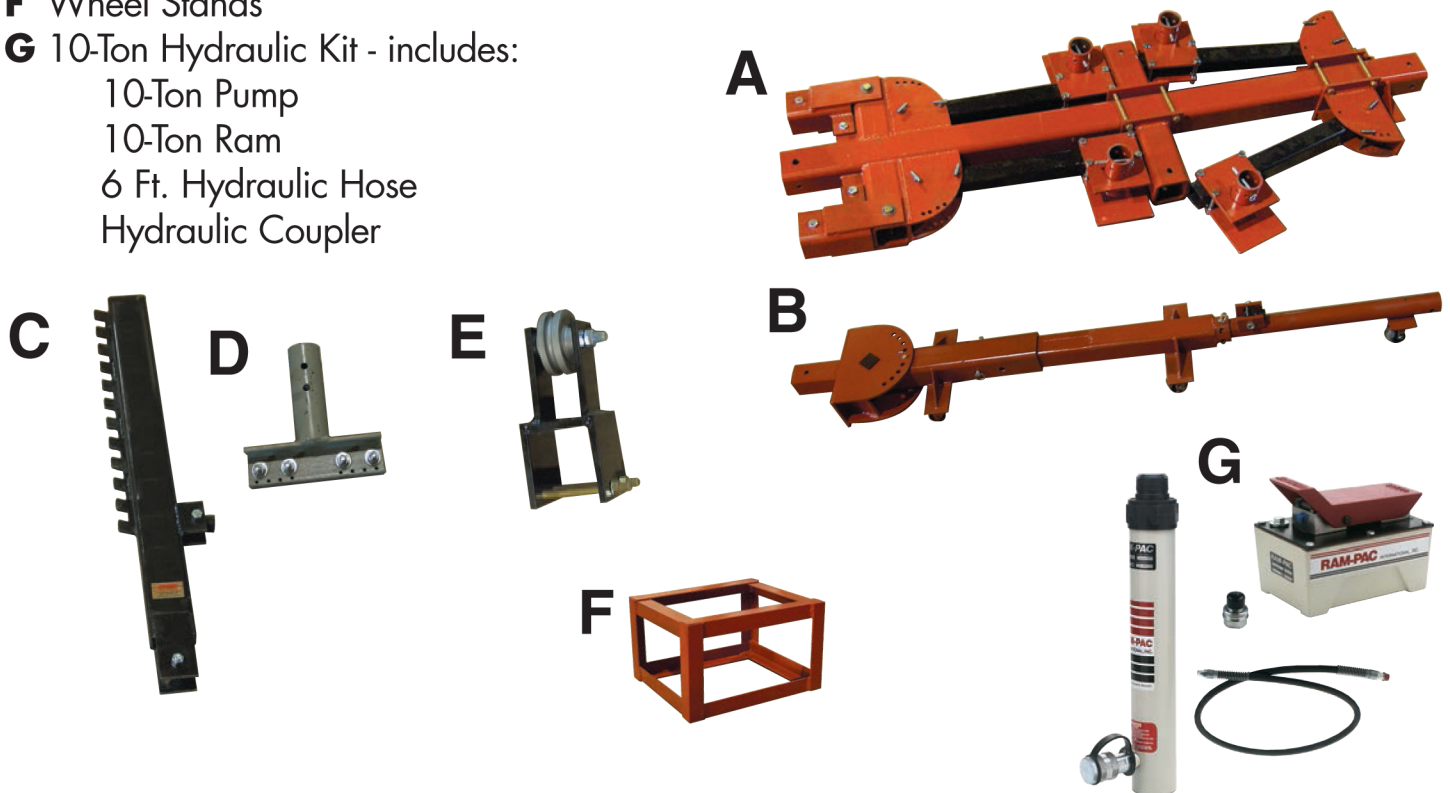
Made In USA

**CHAMP**  
Frame Straightening Equipment Inc.

## Component List

- A** Body
- B** Tower Base
- C** Pulling Tower
- D** Pinchweld Clamps
- E** Downpull Attachment
- F** Wheel Stands
- G** 10-Ton Hydraulic Kit - includes:
  - 10-Ton Pump
  - 10-Ton Ram
  - 6 Ft. Hydraulic Hose
  - Hydraulic Coupler

The Spider Frame Straightener was formerly known as the Xtreme Frame Straightener. Assembly instructions are the same for both machines.



## WARNING

Completely assemble Spider Frame Straightener before using to familiarize yourself with machine and ensure all components work properly.

Read all assembly instructions completely before attempting to assemble unit. Improper assembly could result in damage to Spider, vehicle or injury to user. As with all machinery and repair equipment, use caution when loading vehicle. Spider should be inspected regularly for damage. Do not use if any cracks in metal or welds are present.

Champ Frame Straightening Equipment, Inc.

# **Spider Frame Straightener Assembly Instructions**

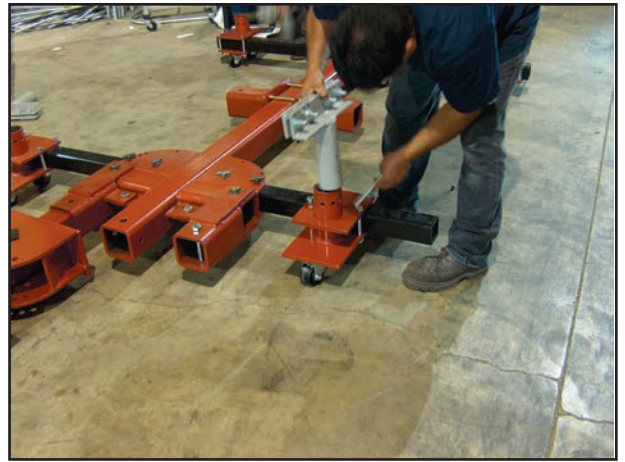
Spider Frame Straightener should be completely assembled before using to familiarize yourself with machine and ensure all components work properly.

1



Remove locking pin and swing out Clamp Arm. Install locking pin to lock Clamp Arm into place

2



Install Pinchweld Clamps into Clamp Brackets. Insert Locking Pin to hold clamp into position. Height is adjustable.

3



Attach Pulling Tower to Tower Base with supplied bolt. Tighten securely.

4



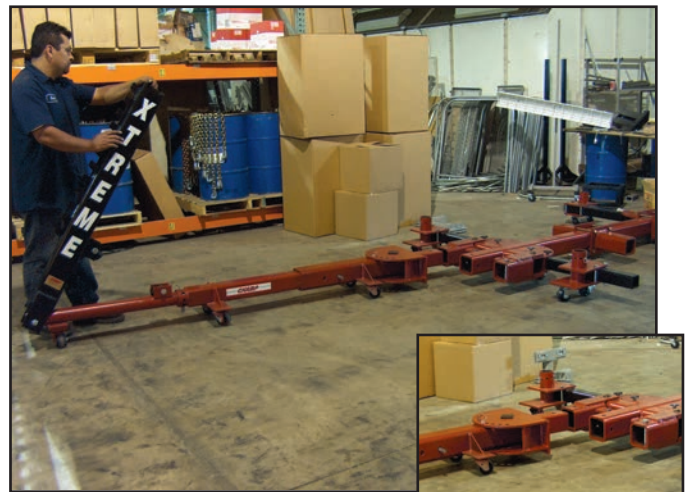
Install Hydraulic Ram by screwing female end to Ram Coupler on Tower Base.

6



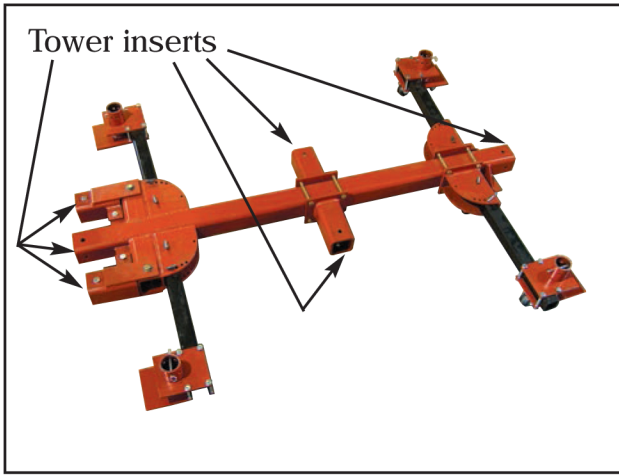
Remove Ram Coupler from Pulling Tower and screw onto Hydraulic Ram. Attach Ram Coupler to Pulling Tower using supplied bolt. Repeat steps for second Pulling Tower.

7



Insert assembled Pulling Tower into each of the Six tower inserts. Lock into place with Locking Pin.

8



The middle insert is adjustable. Loosen Bolts and slide into desired position. Tighten bolts securely.

9



Install Down Pull attachment on to pulling tower by removing mounting bolts. Set Down Pull onto Tower Base Reinstall mounting bolts and tighten securely.

# Parts List

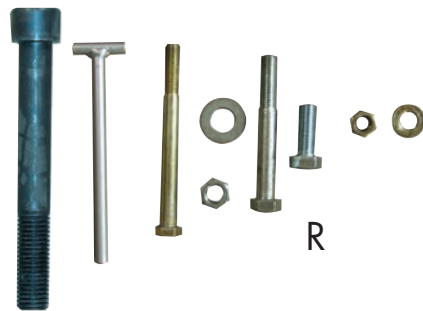
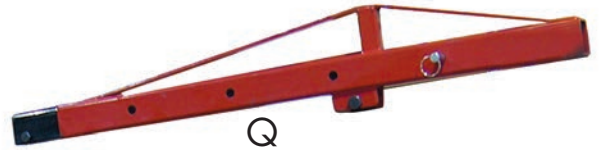
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## Upper Boom Attachment

The following instructions apply only if you purchased the Upper Boom option

The 4061 will include 4060 plus the following parts for the overhead boom:

- L** 1 - 10 Ton Pump
- M** 1 - 10 Ton Ram
- N** 1 - 6' Hydraulic Hose
- O** 1 - Hose Half Coupler
- P** 2 - Post Ram Coupler
- Q** 1 - Overhead Boom
- R** 1 - Nuts, Bolts & Pin Assortment



# Attaching the Upper Boom

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- 1** Attach male Upper Boom to female end of hydraulic ram
- 



- 2** Attach to upper Post coupler connection and tighten bolt securely
- 



- 3** Attach female coupler to male end of hydraulic ram
- 



- 4** Position upper boom into place on Post. Bolt into place and tighten nut securely.



5. Attach ram coupler to upper boom

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Your Spider Frame Straightener is now assembled with Upper Boom and ready to use.



# **Spider Frame Straightener**

## **Usage Instructions**

Spider Frame Straightener should be completely assembled before using to familiarize yourself with machine and ensure all components work properly.



1



Raise vehicle and lower onto supplied vehicle stands.

2



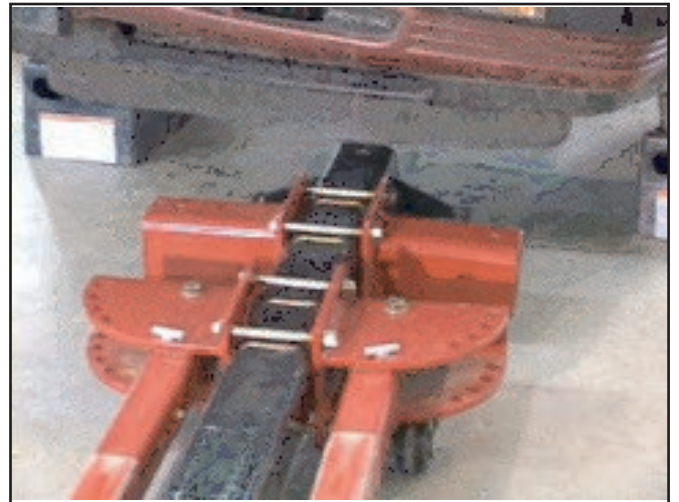
Remove Pinchweld Clamp Brackets.

3



Fold Bracket Arms against Body and lock into place with Locking Pin

4



Position Spider under vehicle

5



Swing Bracket arms back out. Reinstall Pinchweld Clamp Brackets & Pinchweld Clamps.

6



Raise vehicle to remove wheel stands and lower into Pinchweld Clamps

7



Tighten Pinchweld Clamps securely onto vehicle pinchwelds.

8



Tighten Pinchweld Brackets securely to Bracket Arms.

9



Vehicle is now attached to Spider and you are ready to attach Pulling Towers. Insert tower into desired tower insert and lock into place with locking pin.

10



Wrap chain around Pulling Tower and lock into place using chain lock or pulling hook. Chain height is adjustable by positioning chain against the desired lock on tower.



Each pulling tower has two swivels for extended reach. Remove locking pin, swivel into desired position and reinsert locking pin.