

PACESETTER



OVERVIEW

Grabber's PaceSetter frame rack offers the same maximum performance as Grabber's larger rack systems. Great for multi-bay shops.

- Fixed height of 14" from the floor rack platform
- 10 ton rack mounted pull tower allowing true 360° pulling
- Standard unibody clamps (set of 4) for rock solid anchoring
- Channeled treadways provide unlimited tie-down positioning
- Removable on/off ramps

The PaceSetter frame rack may be customized with collapsible clamps and an additional tower.

SPECIFICATIONS	
Length	18' 0"
Length With Tower	22' 4"
Width	80"
Width With Tower	11' 10"
Fixed Working Height <i>From Floor to Platform</i>	14"
Tower Max. Ram Stroke	8"
Tower Max. Pull Height	65" from platform

INVENTORY OF SYSTEM COMPONENTS

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INVENTORY OF SYSTEM COMPONENTS

CATALOG #	DESCRIPTION	QUANTITY
1076	GP PaceSetter Rack Platform	1
1165	GP PaceSetter Pull Tower	1
1350SF	Air/Hydraulic Pump	1
1301	10' Hose with No Coupler	1
1591	3/8" x 14' Heavy Duty Chain w/ Slip Hook	1
1612	Safety Cable	1
2055	Unibody Clamps (set of 4)	1
4222-P	PaceSetter Long Rack Ramps (set of 2)	1

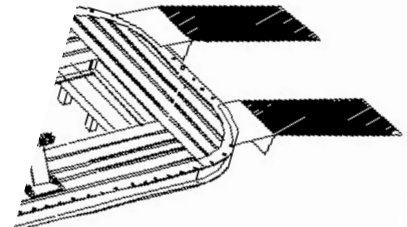
RACK PLATFORM OPERATION

Clearance & Requirements

- Position the rack on shop floor to allow a minimum clearance of 50" around the perimeter of the rack platform.
- Frame rack does not require any fastening devices or alterations to the floor.
- Frame rack **does** require a level surface on which it sits.

Rack Ramps

The ramps have to be installed in order to load a vehicle onto the rack platform. The ramps can remain in place during vehicle repair. If it is necessary to place a tower at the loading end of the rack, the ramps can easily be removed.



Loading the vehicle

1. The pull tower should be secured with a Tower Locking Pin (catalog # 4257).
2. Load the vehicle by driving the vehicle onto the rack platform.
If the vehicle cannot be driven, use the optional Electric Winch (catalog # 1446) and Disabled Car Dollies (catalog # 2056).

ANCHORING THE VEHICLE

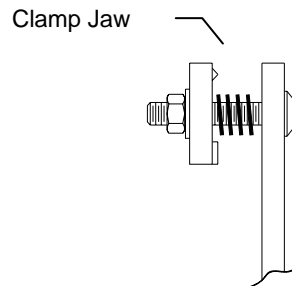
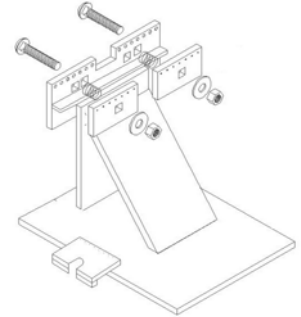
CAUTION:

Carefully read the following procedure, in its entirety, before attempting to anchor a vehicle to the rack platform.

1. Using a jack, raise one side of the vehicle.
2. Position the unibody clamps (#2055) at the torque box area of the rocker panel pinchweld.
3. Install four (4) wingbolt assemblies (#4226) into each unibody Clamp.
4. Slowly lower the vehicle into the clamp jaws.

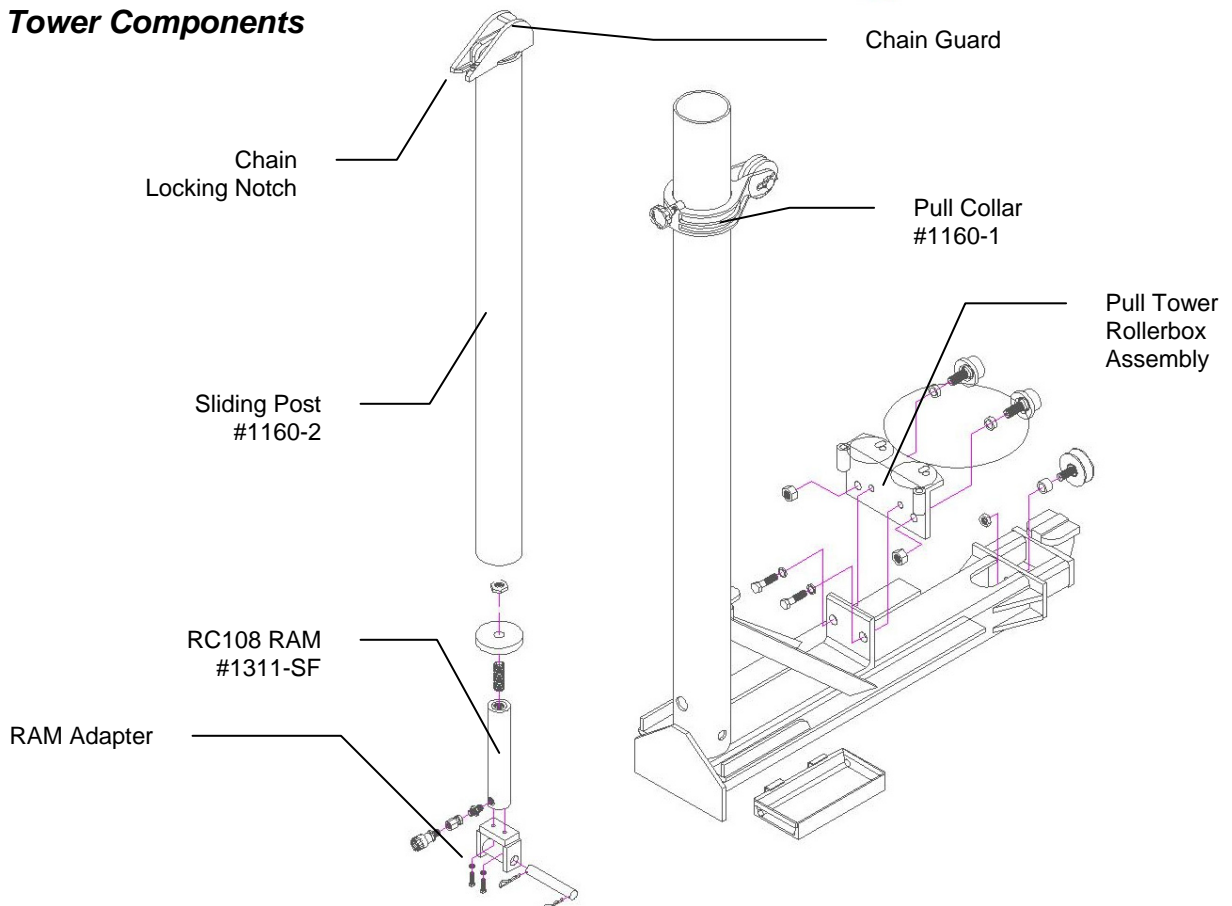
DO NOT TIGHTEN THE CARRIAGE BOLTS OR WINGBOLT ASSEMBLIES AT THIS TIME.

5. Move the jack to the other side of the vehicle and repeat the procedure.
6. Tighten the carriage bolt assemblies (#6050) first, and then tighten the wingbolt assemblies.



PULL TOWER INSTALLATION & OPERATION

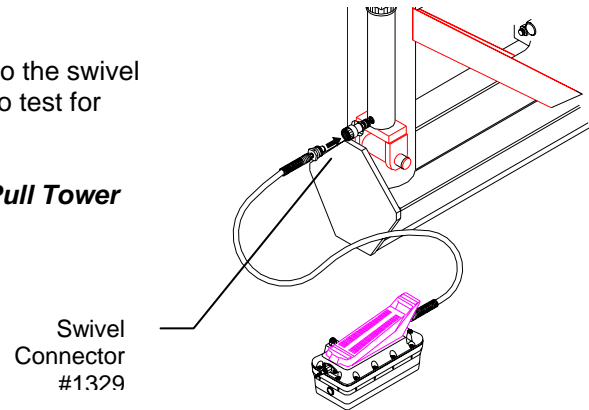
Pull Tower Components



Air/Hydraulic Pump Connection

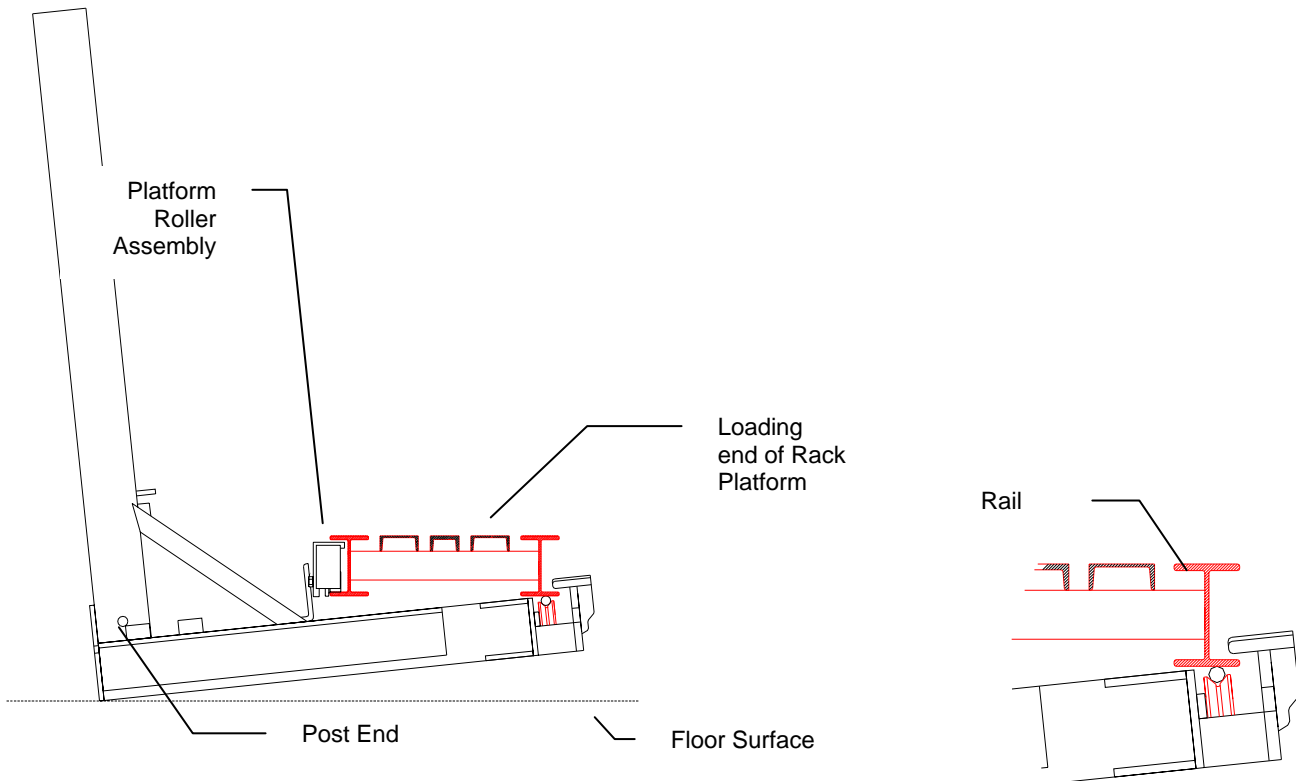
Attach the hose from the Air/Hydraulic Pump (#1350SF) to the swivel connector at the base of the pull tower. Engage the ram to test for unobstructed travel.

If your tower was not installed, refer to the section titled **Pull Tower Installation**.



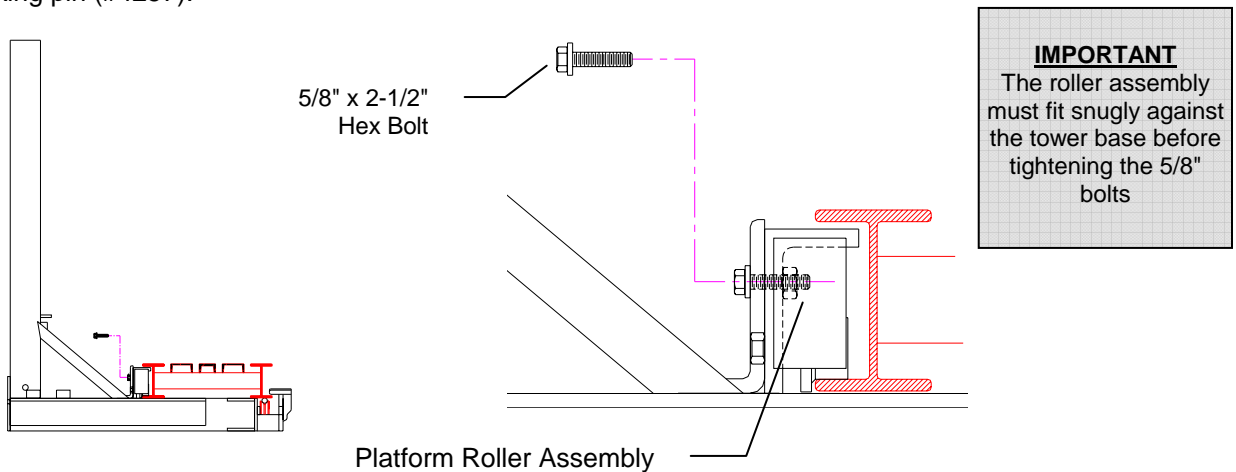
Pull Tower Installation

1. Place the hook-end of the pull tower on the inside of the rack treadway beam. Make certain that the V-groove roller mates with the rail on the bottom of the rack platform. The pull tower should now be in a position as shown below (diagram on left). The post end of the pull tower platform should be resting on the floor.
2. Place the platform roller assembly on the outside flange of the rack treadway beam as shown.



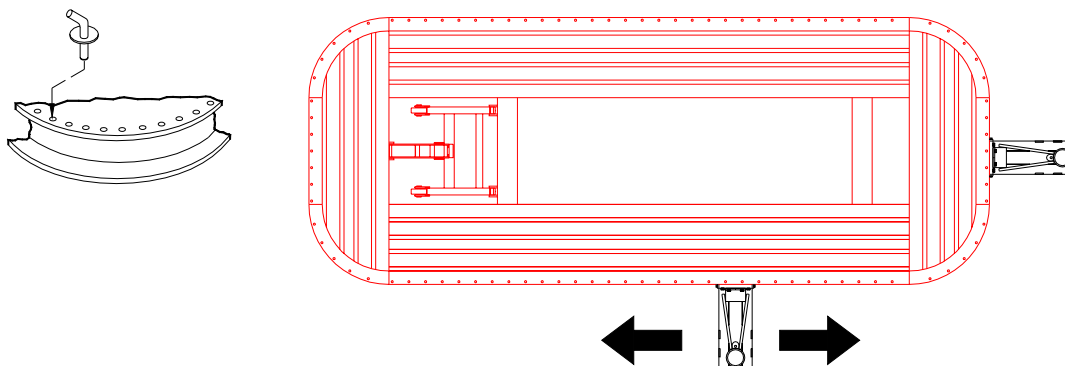
Tower Installation (continued)

3. Raise tower.
4. Align the two holes in the tower flange mount with the two tapped holes on the roller assembly.
5. Insert two 5/8" x 2-1/2" bolts and tighten.
6. Move the pull tower around the rack and check for clearance. There should be a gap of approximately 1/8" [3mm] between the hook-end of the tower and the tread way beam flange.
7. Move the pull tower past the fixed leg end of the rack platform and secure in position with a tower locking pin (#4257).



Positioning the Pull Tower

The Pull Tower can be positioned at any point around the perimeter of the rack platform. Move the pull tower into position and secure with at least one Tower Locking Pin (catalog # 4257). The locking pin must be inserted through a hole in the rack platform and into one of the holes on the top of the tower's Platform Roller Assembly.

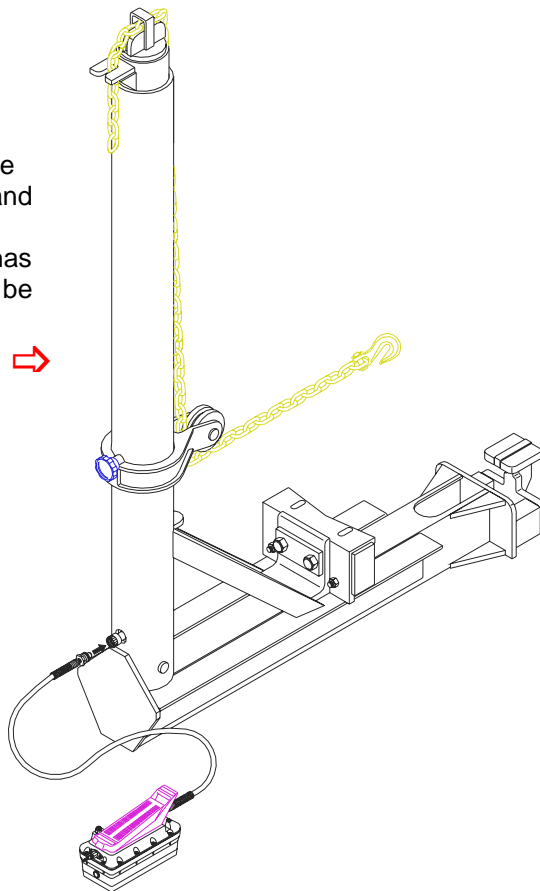


Pulling Procedure

1. Position the pull tower and secure with a locking arm.
2. Position the pull collar in place and tighten the locking knob sets the height of the pull.
3. Thread the plain end of the 3/8" x 14' heavy duty chain (#1591) around the roller on the pull collar, through the chain guard and secure in the chain locking notch.

SPECIAL NOTE:

To prevent collar slippage install collar knob and hand tighten before pull. Once **'pull tension'** on chain has been reached knob may be loosened.



IMPORTANT:
Make certain that the chain has no twists from the hook, around the roller in the pull collar, through the chain guard and into the chain locking notch

4. Choose the appropriate pulling accessory and attach to the vehicle.
5. Manually remove the slack from the chain by pulling it through the chain guard and resetting in the locking notch.

ATTACH THIS END TO A SECURE POINT ON THE VEHICLE



**SAFETY CABLE
CATALOG # 1612**



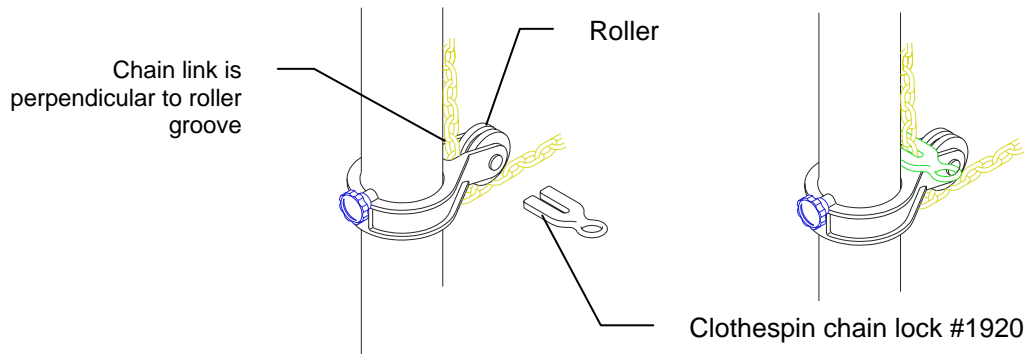
**ATTACH THIS END TO
THE CHAIN**

6. **Attach the Safety Cable (catalog #1612) to the chain and the vehicle.**
7. As pressure is applied to the hydraulic ram with the air/hydraulic pump, the Power Bar rises and pulls the chain with it.

Continuous Pull

If it is necessary to pull further than the initial stroke of the ram, follow this procedure:

1. Make a pull as described in the preceding section.
2. Watch for a chain link that is perpendicular to the groove in the pull collar roller.
3. Place a clothespin chain lock (#1920) around this link and on top of the pull collar.



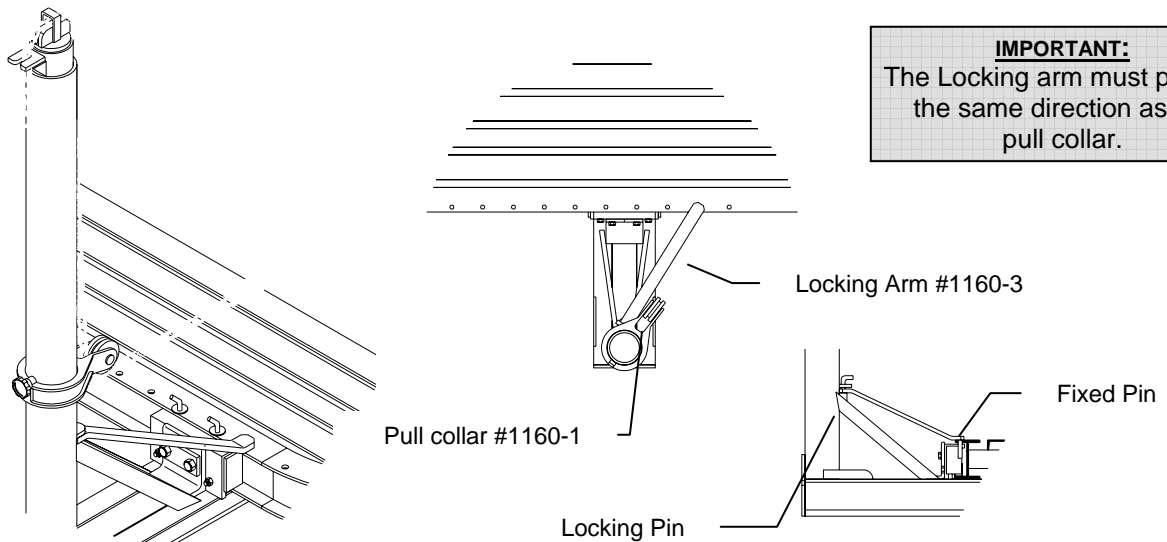
4. Release pressure on the ram.
5. Remove slack from the chain and reset into locking notch.
6. Apply pressure to the ram.
7. Remove clothespin chain lock.
8. Continue as needed.

CAUTION: Leave enough stroke on the ram to allow for backing out of a continuous pull.

Angle Pull

In order to make an angle pull the following procedure must be followed:

1. Move pull tower into position and secure with a locking arm (#1160-3).
2. Position the pull collar, turn to the direction of the pull and secure with the locking knob.
3. Place the fixed pin end of the locking arm (#1160-3) into the closest appropriate hole in the rack platform.
4. Pin the other end into the tab on the pull tower with a locking pin (#1162).
5. The strong arm fits between the locking tab and the barrel on the pull tower post.



VEHICLE UNLOADING PROCEDURE

1. Disconnect all clamps, chains, and accessories.
2. Secure pull tower at front of rack platform with tower locking pins.
3. Loosen all pinchweld clamp bolts.
4. Raise one side of vehicle.
5. Remove unibody clamps.
6. Lower the vehicle.
7. Repeat procedure for other side of vehicle.

IMPORTANT:
MAKE CERTAIN THAT PULL TOWER
IS SECURED WITH THE TOWER
LOCKING PINS.

IMPORTANT:

**MAKE CERTAIN ALL TOOLS, ACCESSORIES, AIR/HYDRAULIC PUMPS,
AND ANY OTHER OBJECTS ARE REMOVED FROM BENEATH THE RACK PLATFORM AND PULL
TOWERS.**



8. If ramps were removed during repair, re-install at this time.
9. Unload the vehicle.

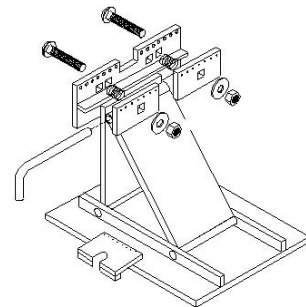
ROUTINE MAINTENANCE

Air/Hydraulic Pump

Refer to the Air Pump Instruction Sheet for pump maintenance procedures.

Collapsible Unibody Clamps (optional clamping)

If the rack system is equipped with Collapsible Clamps to extend the thread life, periodically apply an Anti-Seize treatment or machine oil to the carriage bolts and wingbolt assemblies on the Collapsible Unibody Clamps.

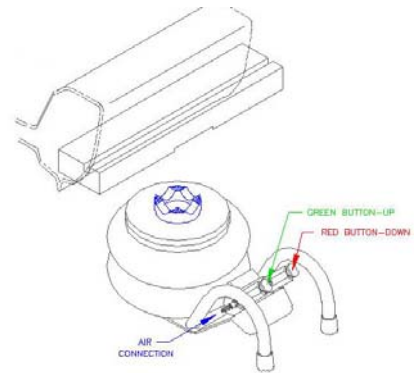


OPTIONAL ACCESSORIES

3 Bag Air Jack (catalog # 5004) AND Oak Pinchweld Block (catalog # 5006)

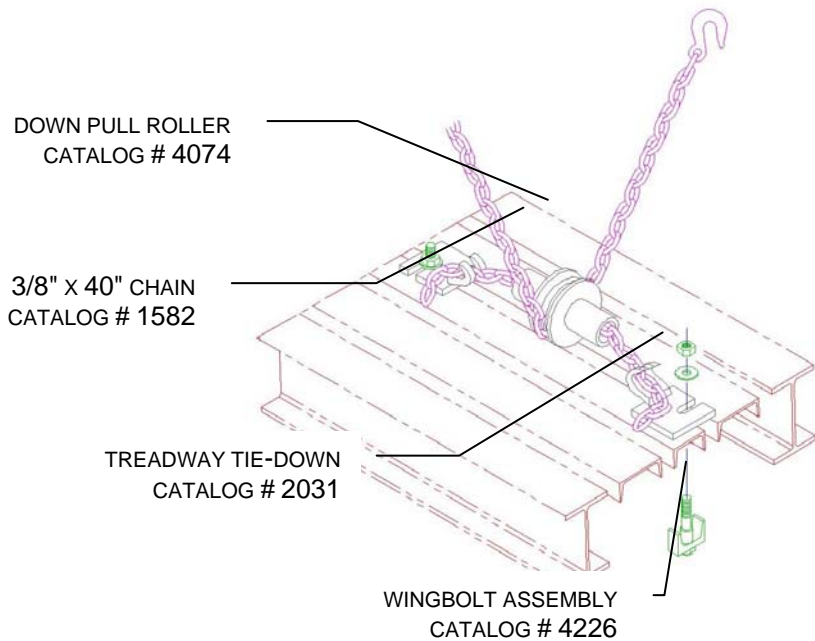
The 3-Bag Air Jack (catalog # 5004U) is used in conjunction with the Oak Pinchweld Block (catalog # 5006) to raise the vehicle into the unibody clamps. The green button raises the jack and the red button lowers the jack.

Refer to Air Jack Owner's manual for complete operational instructions.



Treadway Down Pull (catalog # 4073)

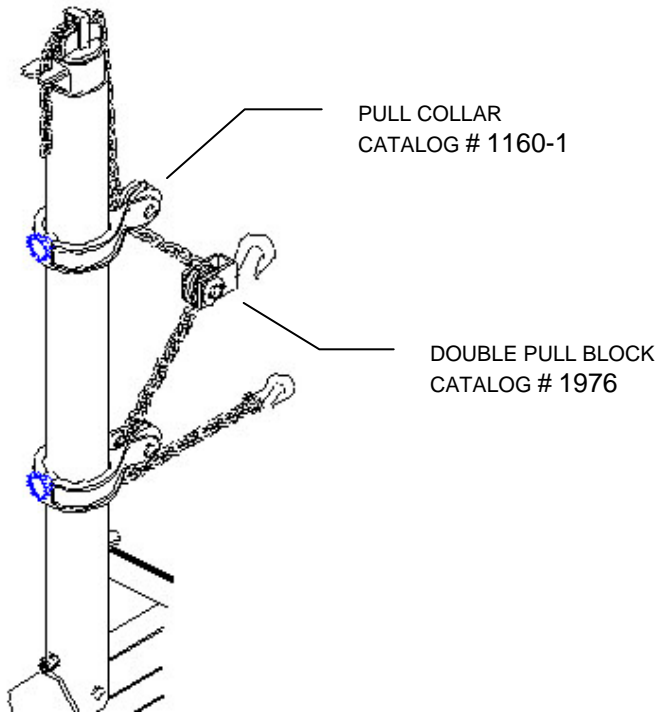
To make a down pull, use the Down Pull Roller, 3/8" x 40" Heavy Duty Chain, (2) Treadway Tie Downs, and two Wingbolt Assemblies.



OPTIONAL ACCESSORIES (continued)

Double Pull Block (catalog # 1976)

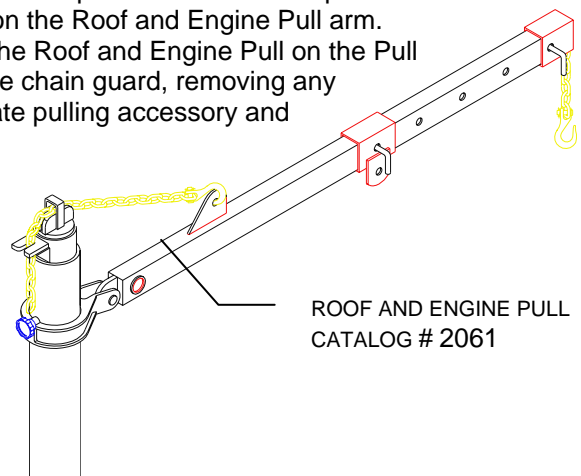
To make a double pull, it is necessary to use the Double Pull Block (catalog # 1976) and an additional Pull Collar (catalog # 1160-1). Follow the illustration below for threading the chain through the rollers. Make certain that the chain does not have any twists.



IMPORTANT:
MAKE CERTAIN THAT THE CHAIN HAS NO TWISTS FROM THE HOOK AROUND THE ROLLER IN THE PULL COLLAR, THROUGH THE CHAIN GUARD AND IN TO THE CHAIN LOCKING NOTCH

Roof and Engine Pull (catalog # 2061)

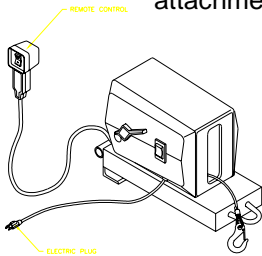
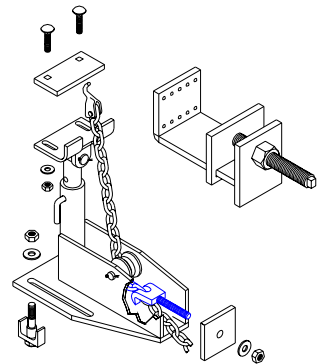
The Roof and Engine Pull (catalog # 2061) may be used to lift the engine from the vehicle or to make upward pulls. Move the Pull Collar to the top of the pull tower post and secure into position with the locking knob. Place the hook of the chain into the eye on the Roof and Engine Pull arm. Remove the pin and roller from the Pull Collar. Attach the Roof and Engine Pull on the Pull Collar and replace the pin. Thread the chain through the chain guard, removing any slack, then lock into the locking notch. Attach appropriate pulling accessory and safety cable. Apply pressure to ram and make pull.



OPTIONAL ACCESSORIES (continued)

Universal Truck Holding System (catalog # 6067)

Designed to provide solid tie-down points for full-frame vehicles. Includes attachments for both box-type and channel-type frames.

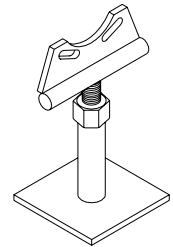


Electric Winch (catalog # 1446)

Allows users to load and unload disabled vehicles on and off rack platform

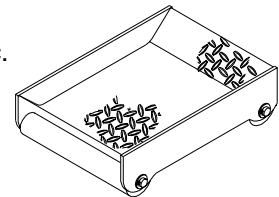
Wheel Stands (catalog # 2043)

Allows for removal of wheel or can be used in place of damaged wheel. Wheel Stands (catalog # 2043) come in a set of two (2) and are helpful when simulating a loaded suspension during measuring.



Disabled Car Dollies (catalog # 2056)

Designed to accept a vehicle with a flat tire, broken wheel, damaged suspension, etc. Very effective when used in conjunction with the Electric Winch. Disabled Car Dollies (catalog # 2056) come as a set of two (2).



Measuring Systems

Grabber's high precision mechanical measuring systems compliment any PaceSetter rack.

UltraSpec 2000 Deluxe Mechanical Measuring System (catalog # 8005)

Align-O-Lite Laser Measuring System

