

The Winner Series Rack Platforms

OVERVIEW

Grabber's Winner Series of rack platforms are a snap to set up and unrivaled in their ease of operation. With true 360° pulling access, Winner Series racks offer unsurpassed efficiency and profitability.



Channeled tread ways allow unrestricted tie-down capability. Rack-mounted, easy-glide, 10-ton capacity pull towers provide limitless pull heights and angle-pull settings as well as continuous pull capability. A generous 32-inch work opening allows technicians unrestricted access to the vehicle being repaired; the removable front crossmember enhances access even more. Removable loading ramps allow simple drive-on loading and an automatic self-locking mechanism provides superior safety for the technician. In addition, Grabber's collapsible unibody clamps, unique in the industry, allows the vehicle to be loaded and unloaded over the clamps. Simply remove a pin and the clamp folds down flat. This technician-friendly innovation eliminates the time and effort needed to remove the clamping system body during set-up.

SPECIFICATIONS	GW18	GW20
Platform Length	18' 0"	20' 0"
Length With Towers	22' 4"	24' 4"
Platform Width	6'-8"	7' 6"
Width with Towers	11' 0"	11' 10"
Working Height Fixed Height Models	20"	20"
Plus Models	14", 22", 30"	
High Rise Models	14", 20-1/2", 24-1/2", 28", 31-1/4", 34-1/4", 36-3/4", 40"	
Tower Max. Ram Stroke	8"	8"
Tower Max. Pull Height	65" from platform	65" from platform

Winner Series racks are also available in Plus models (3 working heights) or High Rise models (8 working heights). Both configurations offer a built-in level lift to raise and lower the rack while keeping it level to the floor. This feature allows a technician to choose a comfortable working height from which he or she can complete the repair process.

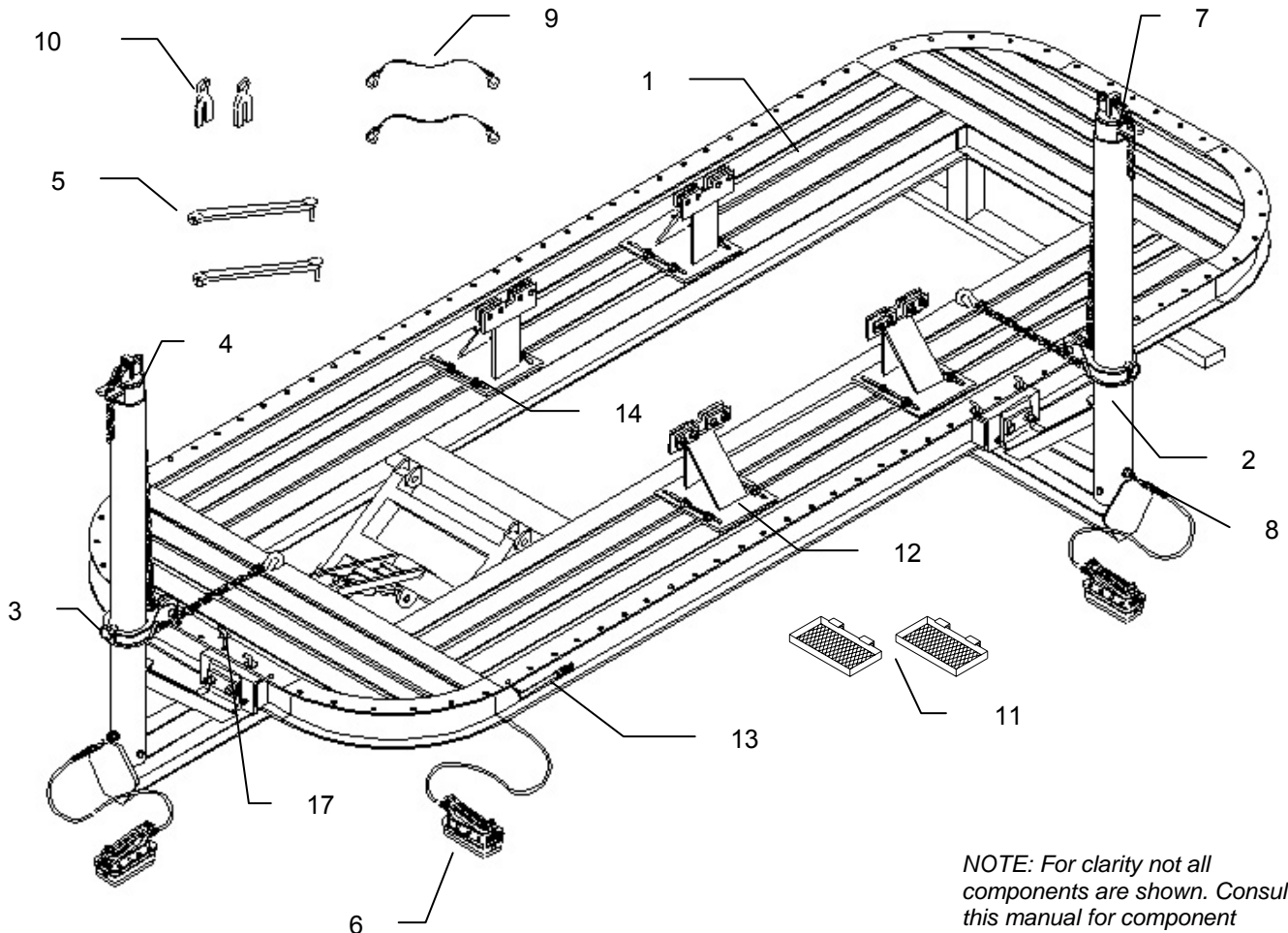
Grabber's optional holding systems are designed to accommodate a variety truck and SUV frames. The Universal Truck Holding System greatly increases the productivity and versatility of all Winner rack systems. Clamp adaptor kits are also available to accommodate almost all import and domestic models.

With its time saving and labor saving features, a Winner Series rack at your command can contribute to the success of any repair shop.

INVENTORY OF SYSTEM COMPONENTS	3
RACK PLATFORM OPERATION	
Clearance Requirements	4
Rack Ramps	4
Air/Hydraulic Pump Connection	5
Flow Control Valve	5
Raise/Lower Handle	5
Locking Mechanism	6-7
Rack Positions	6-7
Removable Crossmember	8
Loading the vehicle	8
Anchoring the vehicle	9
PULL TOWER OPERATION	
Pull Tower Components	10
Pull Tower Installation	11-12
Positioning the Pull Tower	12
Air/Hydraulic Pump Connection	13
Pulling Procedure	14
Continuous Pull	15
Angle Pull	15
Vehicle Unloading Procedure	16
Routine Maintenance	16
OPTIONAL ACCESSORIES	
Air Jack (catalog # 5004) AND Oak Pinchweld Block (catalog # 5006)	17
Treadway Down Pull (catalog # 4073)	17
Double Pull Block (catalog # 1976)	18
Roof and Engine Pull (catalog # 2061)	18
Universal Truck Holding System (catalog # 6067)	19
Electric Winch (catalog # 1446)	19
Wheel Stands (catalog # 2043)	19
Disabled Car Dollies (catalog # 2056)	19
Measuring Systems	19

INVENTORY OF SYSTEM COMPONENTS

ITEM	CATALOG #	DESCRIPTION	QUANTITY
1	1072	GW18/GW20 Rack Platform w/Removable Crossmember	1
2	1160	GW18/GW20 Pull Tower	2
3	1160-1	Pull Collar	2
4	1160-2	Power Bar	2
5	1160-3	Strong Arm	2
6	1350SF-NC	Air/Hydraulic Pump w/Hose & Gauge	3
7	1591	3/8" x 14' Heavy Duty Chain w/ Slip Hook	2
8	1315	CR400 Female Quick Coupler	2
9	1612	Safety Cable	2
10	1920	Clothespin Chain Lock	2
11	2044	Pump Tray	2
12	2046-2B	Collapsible Unibody Clamps (set of 4)	1
13	4212	Raise/Lower Handle	1
14	4226	Wingbolt Assembly	8
15	4222	Long G Ramp (set of 2)	1
16	4305	Short Ramp (set of 2)	1
17	4257	Tower Locking Pin (2 per tower)	4

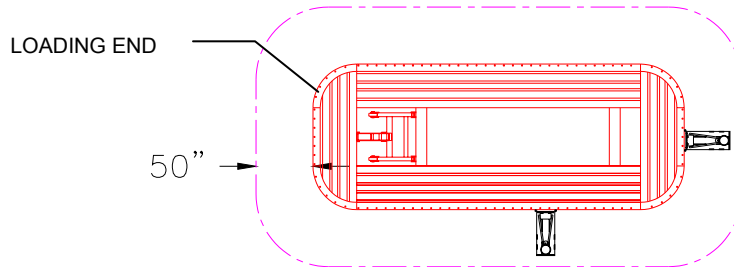


NOTE: For clarity not all components are shown. Consult this manual for component diagrams.

RACK PLATFORM OPERATION

Clearance Requirements

Position the rack on the shop floor to allow a minimum clearance of 50" around the perimeter of the rack platform.



Rack Ramps

FOR FIXED HEIGHT WINNER MODELS

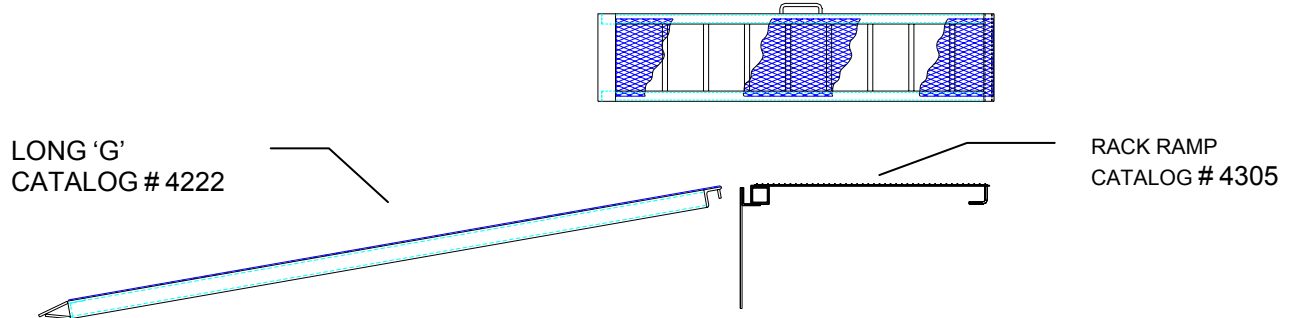
The ramps must be installed in order to load a vehicle onto the rack platform. The ramps need to be removed before raising the rack.

To Install Ramps: Attach the short rack ramps by using ramp locking pin on the loading end of the rack system.

FOR WINNER 'PLUS' and 'HIGH-RISE' MODELS

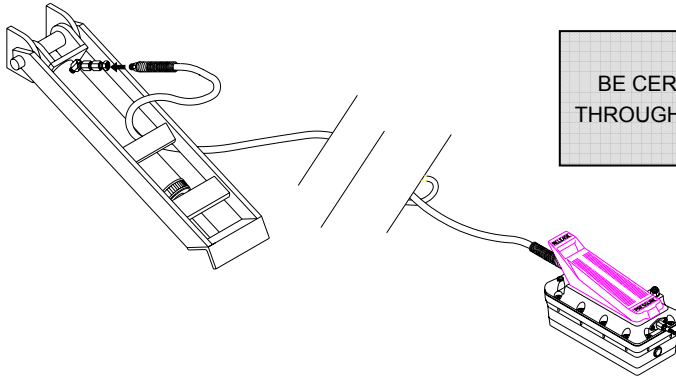
The ramps can remain in place while the rack is in the working positions during vehicle repairs. However, if it is necessary to place a tower at the loading end of the rack, the ramps must be removed.

To Install Ramps: Attach the short rack ramps by using ramp locking pin on the loading end of the rack system.
Attach Long G Rack Ramps (catalog # 4222) into the channels of the short ramps.



Air/Hydraulic Pump Connection

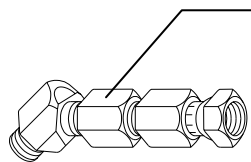
Attach the Air/Hydraulic Pump (catalog # 1350SF-NC) to the rack platform lift ram as shown.



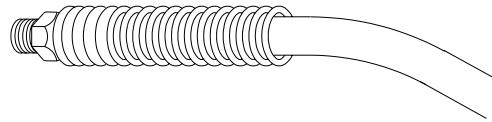
IMPORTANT:
BE CERTAIN TO THREAD THE HYDRAULIC HOSE THROUGH THE EYE ON THE RACK LEG TO PREVENT THE HOSE FROM BINDING.

Flow Control Valve

The ram that is used to raise and lower the rack platform is equipped with a fail-proof flow control valve. This safety feature ensures a safe constant speed when lowering the rack platform. The platform will lower at this speed with or without a vehicle on the rack.

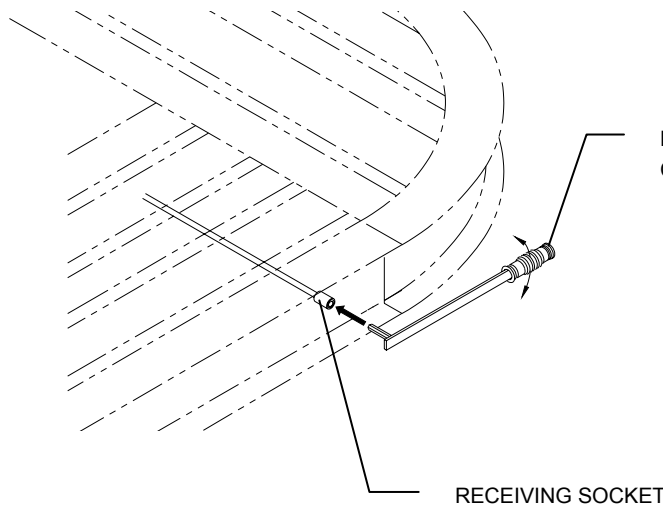


FLOW CONTROL VALVE
CATALOG # 1325



Raise/Lower Handle

The Raise/Lower Handle (catalog # 4212) is needed to lower the rack platform. Insert the handle into the receiving socket at the loading end of the rack platform. **NOTE: The manual handle is replaced by an air button on High Rise models.**



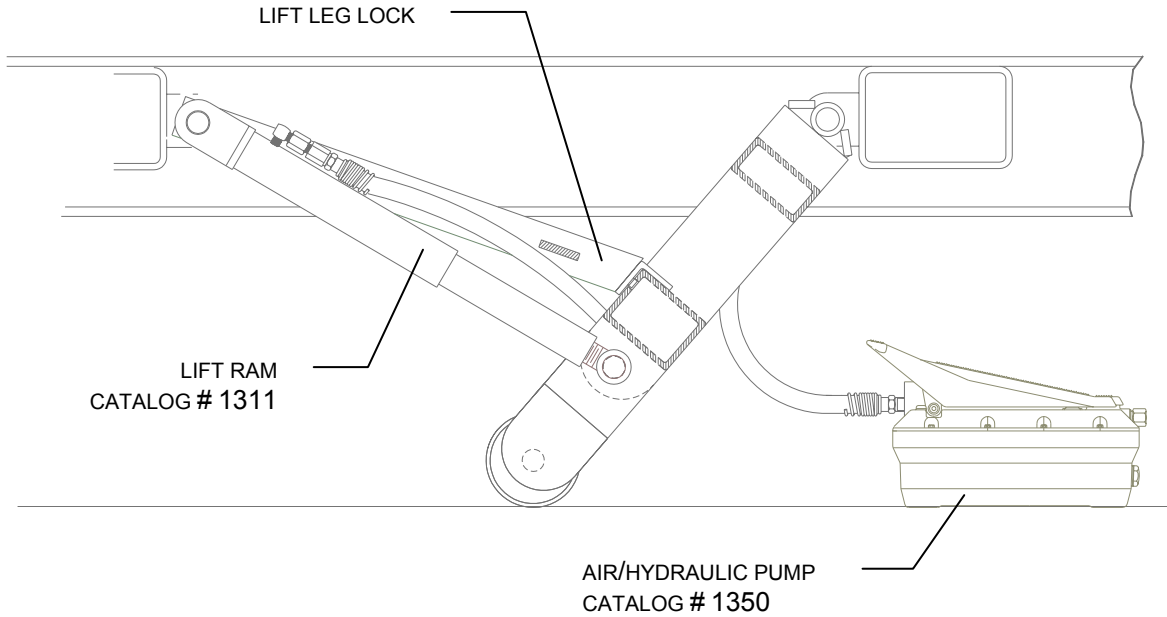
RAISE/LOWER HANDLE
CATALOG # 4212

RECEIVING SOCKET

Locking Mechanism

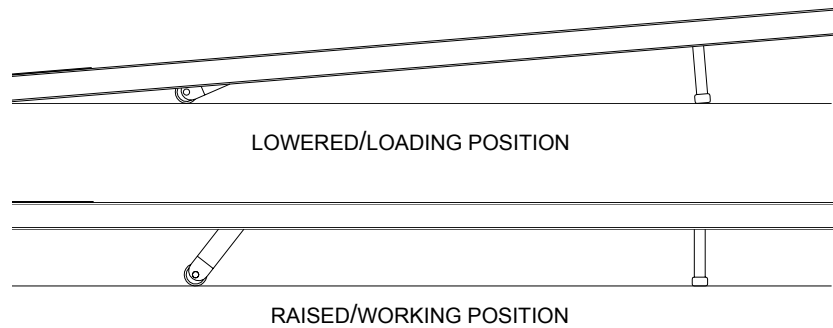
FOR FIXED HEIGHT WINNER MODELS

The locking mechanism engages automatically. In order to lower the rack apply pressure to the lift ram with the Air/Hydraulic pump and then use the Raise/Lower Handle to disengage the lock.



Rack Positions

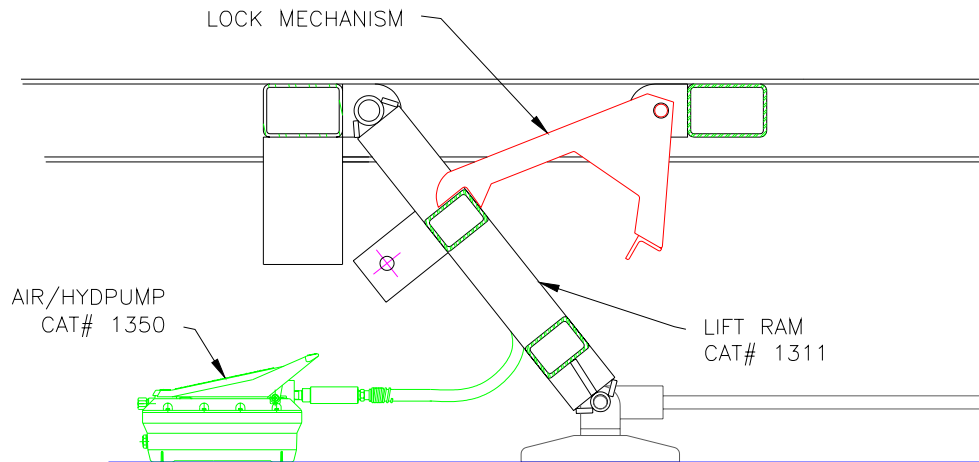
The rack platform must be in the lowered position in order to load a vehicle. To raise the rack into the working position, apply pressure to the lift ram with the air/hydraulic pump.



Locking Mechanism

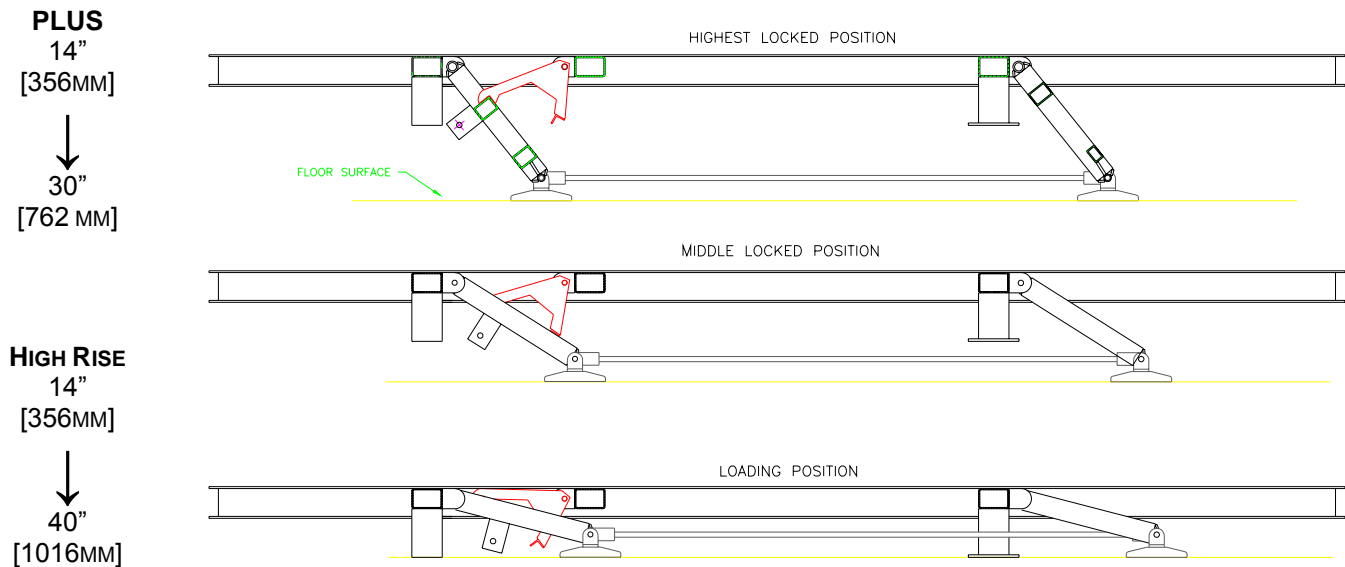
FOR WINNER 'PLUS' and 'HIGH-RISE' MODELS

The locking mechanism engages automatically. In order to lower the rack, apply pressure to the lift ram with the Air/Hydraulic pump, and then use the Raise/Lower Handle to disengage the lock. PLUS models have 3 stops or working positions; high rise models have 8 stops or working positions.



Rack Positions

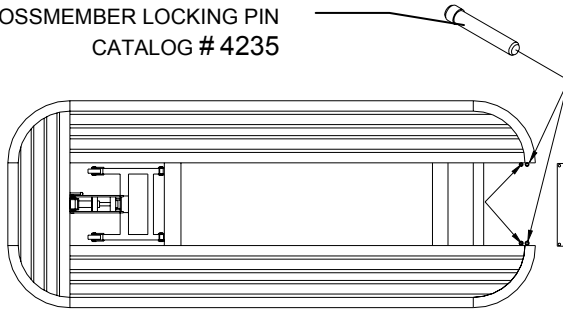
The rack platform must be in the lowered position in order to load a vehicle. To raise the rack into the working position, apply pressure to the lift ram with the air/hydraulic pump.



Removable Crossmember

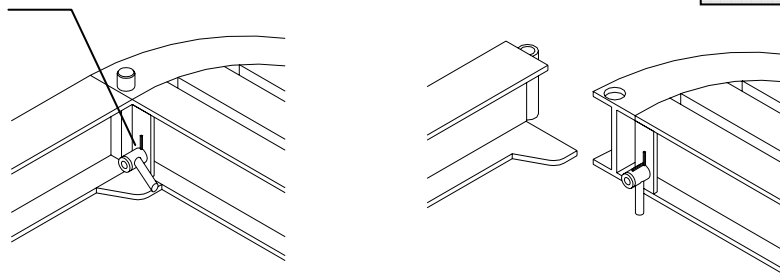
The front end of Winner rack platforms are equipped with a removable crossmember. When the crossmember is removed, two pins automatically lower themselves in position to prevent the pull tower from rolling into the opening. The removable crossmember gate is secured with two Crossmember Locking Pins (catalog # 4235).

CROSSMEMBER LOCKING PIN
CATALOG # 4235



IMPORTANT
MAKE CERTAIN THAT BOTH PINS HAVE ENGAGED IN THE DOWN POSITION. LUBRICATE FREQUENTLY TO ENSURE PROPER OPERATION.

AUTOMATIC GATE PIN



CROSSMEMBER
REMOVED

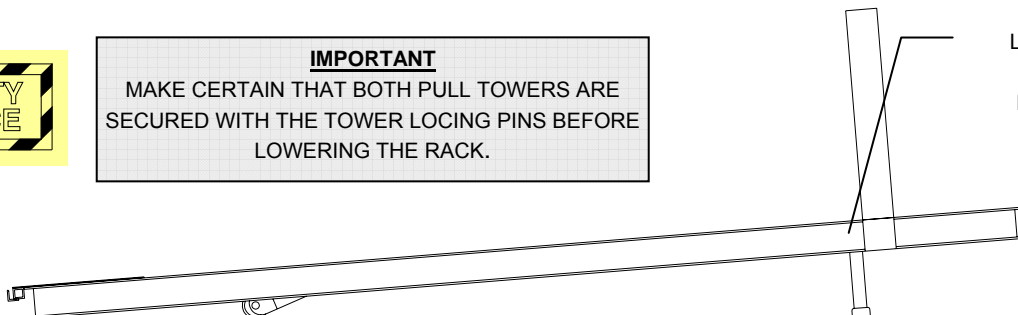
Loading the vehicle

1. The pull towers should be secured with a Tower Locking Pin (catalog # 4257) at the fixed leg end of the rack platform (refer to decals on the front end of the rack platform for the tower position indicators).
2. Install all four Collapsible Unibody Clamps (catalog # 2046-2B), two on each side of to the treadways. Tighten one wingbolt assembly on each clamp to prevent it from moving during loading a vehicle. Collapse clamps prior to vehicle loading. PIN IN DOWN POSITION
3. If necessary, reinstall the ramps.
4. Lower the rack platform to the vehicle loading position.
5. 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).



IMPORTANT
MAKE CERTAIN THAT BOTH PULL TOWERS ARE SECURED WITH THE TOWER LOCKING PINS BEFORE LOWERING THE RACK.

LOOK FOR TOWER POSITIONING DECALS ON RACK



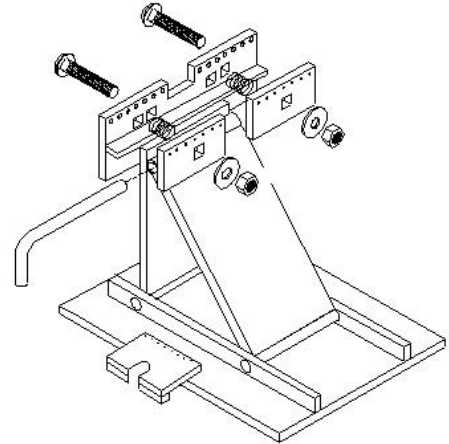
Anchoring the Vehicle

CAUTION:

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

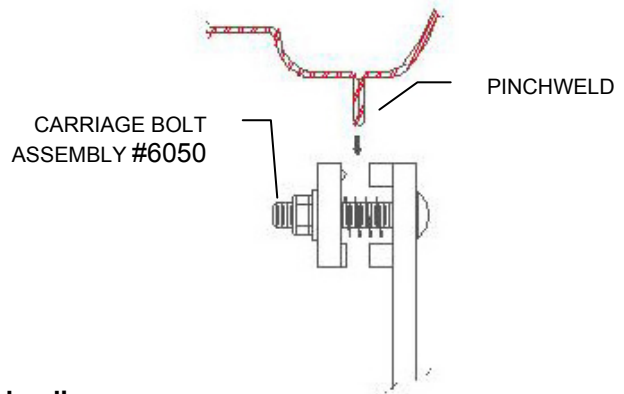
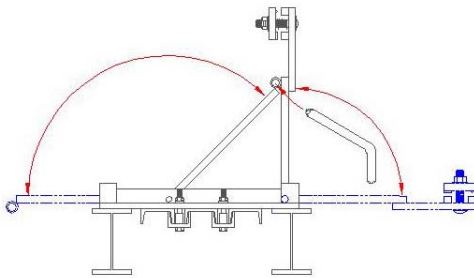
Collapsible Unibody Clamps (catalog # 2046-2B)

1. Tighten one wingbolt assembly on each clamp to prevent it from moving while loading a vehicle.
2. Load the vehicle onto the rack platform.
3. Using a jack, raise one side of the vehicle.
4. Loosen the wingbolt assembly and position the collapsible clamp, in its upright locked position beneath the vehicle's pinchweld in the torque box area of the rocker panel.
5. Repeat for the other collapsible clamp on the same side of the vehicle.
6. Slowly lower the vehicle into the clamp jaws.



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

7. Move the jack to the other side of the vehicle and repeat the procedure.

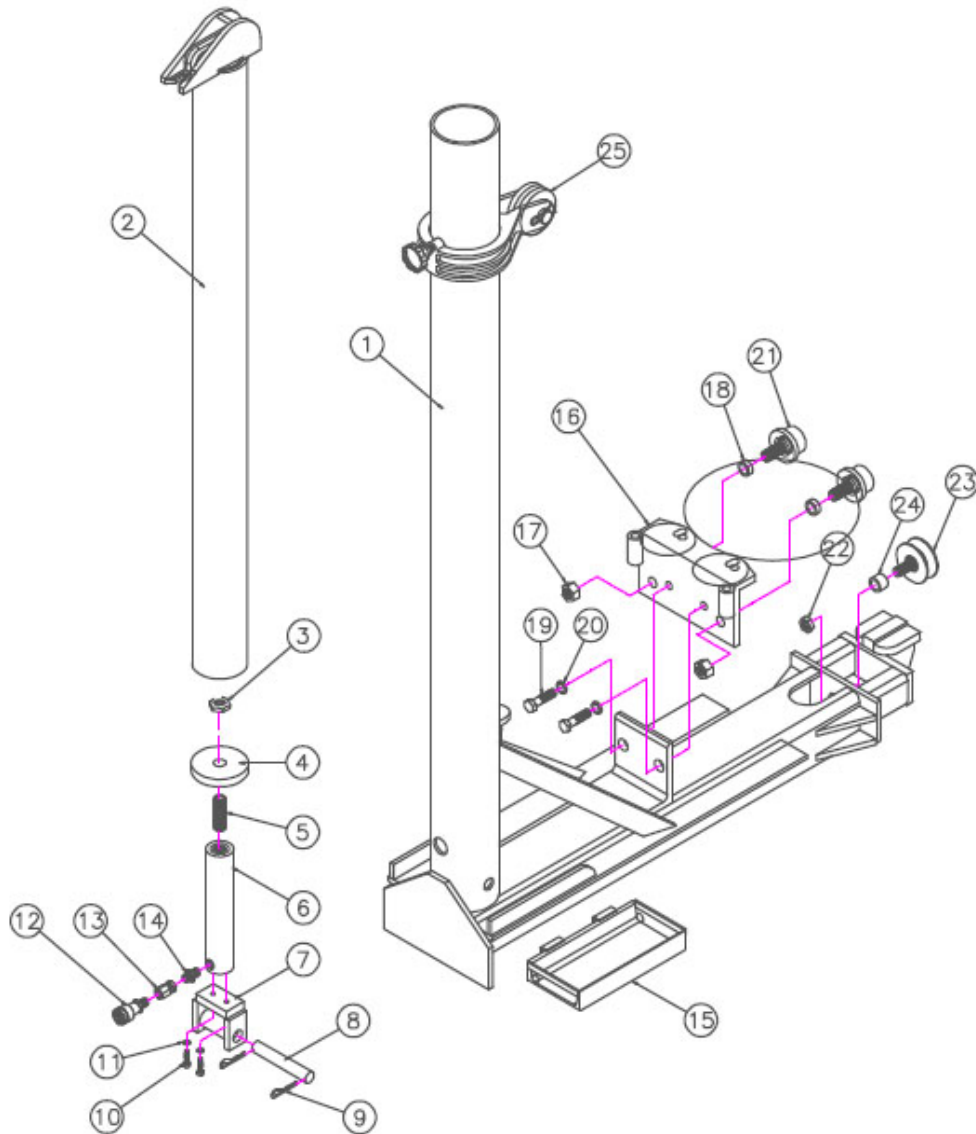


Collapse the clamps prior to vehicle loading and unloading

NOTE: Collapsible Unibody Clamps can be placed in an unlimited number of positions along the treadway

PULL TOWER OPERATION

Pull Tower Components



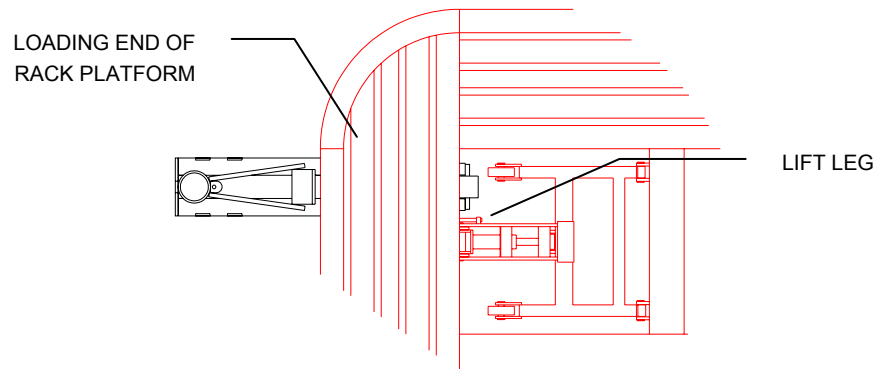
REF.	QTY.	PART #	DESCRIPTION	REF.	QTY.	PART #	DESCRIPTION
1	1	160-17NR	WINNER PULL TOWER STUB	14	1	3801	10,000 PSI - 3/8" NIPPLE
2	1	1160-2	SLIDING POST W/ CHAIN LOCK	15	1	2044	PUMP TRAY
3	1	4008	1"-8 NYLOCK JAM NUT	16	1	4253	TOWER ROLLER BRACKET
4	1	1163	TOWER ADAPTER PLATE	17	2	4142	7/8"-14 YZ FHN
5	1	4127	1"-8 x 3" SOCKET SET SCREW	18	2	4140-5/8	7/8" I.D. SPACER (SPECIFY LENGTH)
6	1	1311	RC108 HYDRAULIC CYLINDER	19	2	4118	5/8"-11 X 2-1/2" HHCS
7	1	1160-RA	GW PULL TOWER RAM ADAPTER	20	2	4136	5/8" YZ LOCK WASHER
8	1	4182	1" x 6-1/8" PIN	21	2	4260	2-1/4" FLR ROLLER OUTSIDE
9	2	4150	#11 HAIRPIN COTTER	22	1	4266	7/8"-14 NYLOCK JAM NUT
10	2	4114	5/16"-18 x 1-1/4" HCS	23	1	4225	3-1/2" VLR ROLLER inside
11	2	4174	5/16" ZINC LOCK WASHER	24	1	4140-7/8	7/8" I.D. SPACER (SPECIFY LENGTH)
12	1	1315	CR400 FEMALE QUICK COUPLER	25	1	1160	GW PULL COLLAR ASSEMBLY
13	2	1329	3/8" FEMALE SWIVEL ADAPTER				

Pull Tower Installation

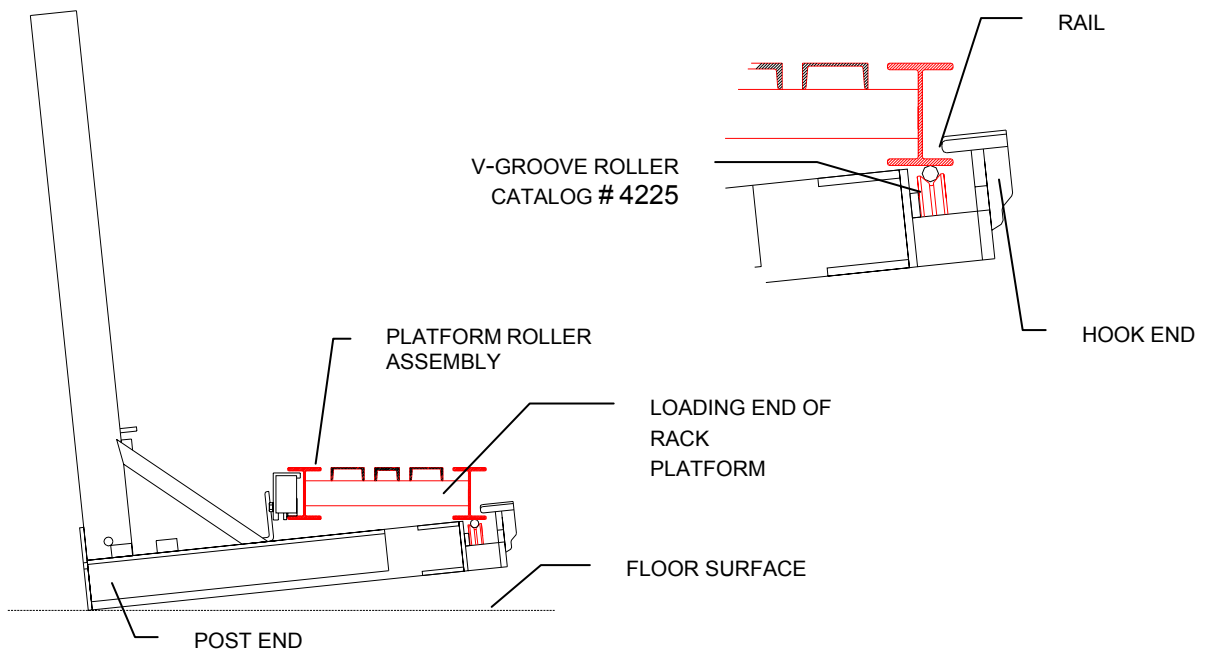
NOTICE:

If your system was delivered **without** the Pull Towers installed, please read this section before proceeding.

1. Make certain that the rack platform is in the locked / working position.
2. Maneuver the Pull Tower platform into position beneath the loading end of the rack. Make certain that the Pull Tower platform is **not** obstructed by any of the linkage involved with the lift leg.

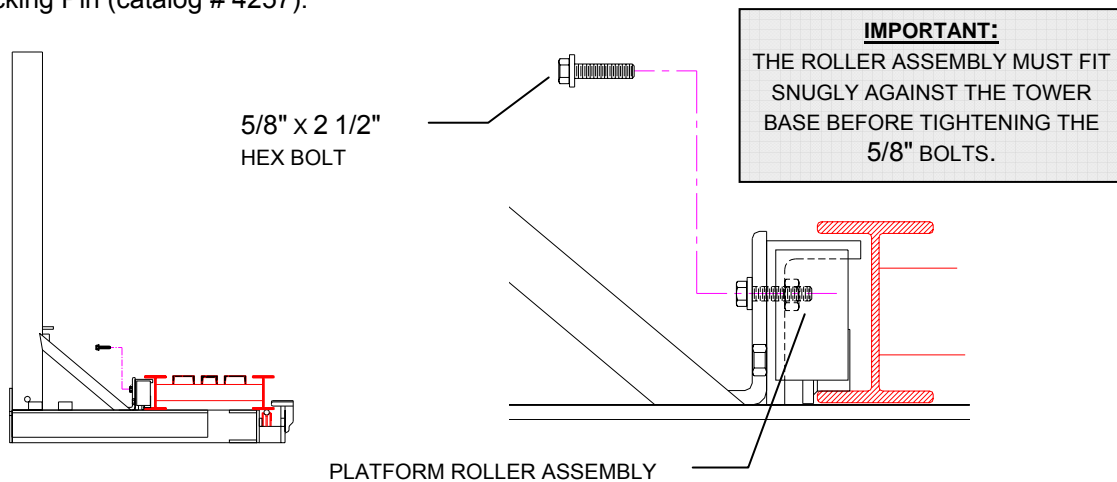


3. Place the hook-end of the Pull Tower on the inside of the rack treadway beam. Make certain that the V-Groove roller mates with the rail on the bottom of the rack platform. The Pull Tower should now be in a position as shown below (diagram on left). The post end of the Pull Tower platform should be resting on the floor.
4. Place the Platform Roller Assembly on the outside flange of the rack treadway beam as shown.



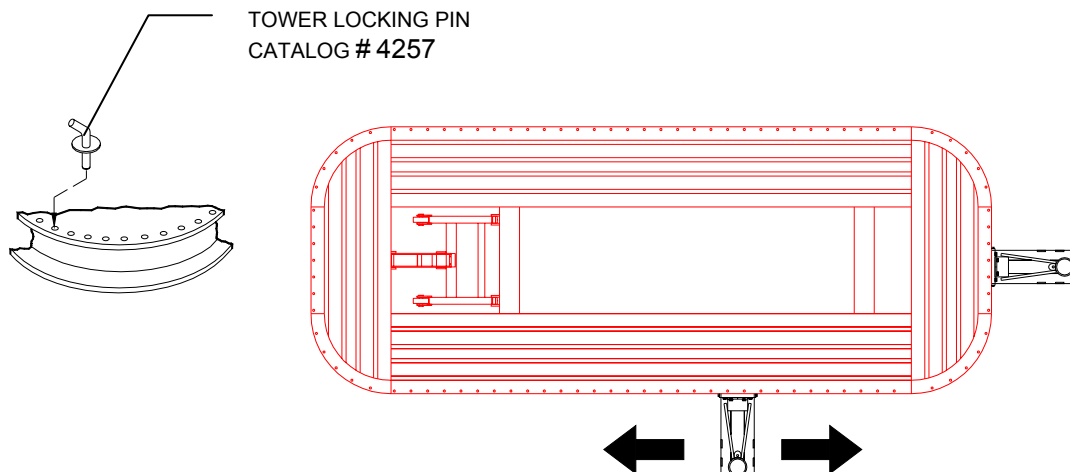
Pull Tower Installation (continued)

5. With the air/hydraulic pump, apply pressure, release the lock, then **slowly** release the pressure on the ram allowing the rack platform to lower to the floor. The roller assembly will remain in place until it can be bolted into position.
6. Align the two holes in the tower flange mount with the two tapped holes on the roller assembly.
7. Insert two 5/8" x 2 1/2" bolts and tighten.
8. Apply pressure to the ram and raise the rack into the locked position.
9. Move the pull towers 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 treadway beam flange.
10. Move the pull tower past the fixed leg end of the rack platform and secure in position with a Tower Locking Pin (catalog # 4257).



Positioning the Pull Tower

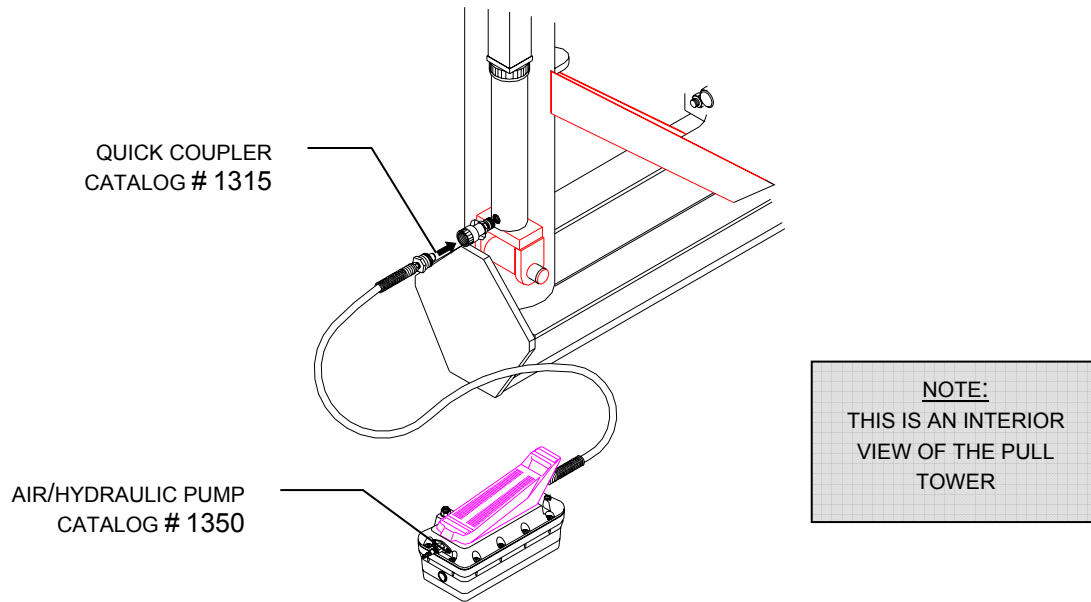
The Pull Tower can be positioned at any point around the perimeter of the rack platform. Move the pull tower into position and secure with at least one Tower Locking Pin (catalog # 4257). The locking pin must be inserted through a hole in the rack platform and into one of the holes on the top of the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



Air/Hydraulic Pump Connection

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

This illustration assumes that the rack system arrived with the pull towers installed. If your towers were not installed, refer to the section titled ***Pull Tower Installation***.

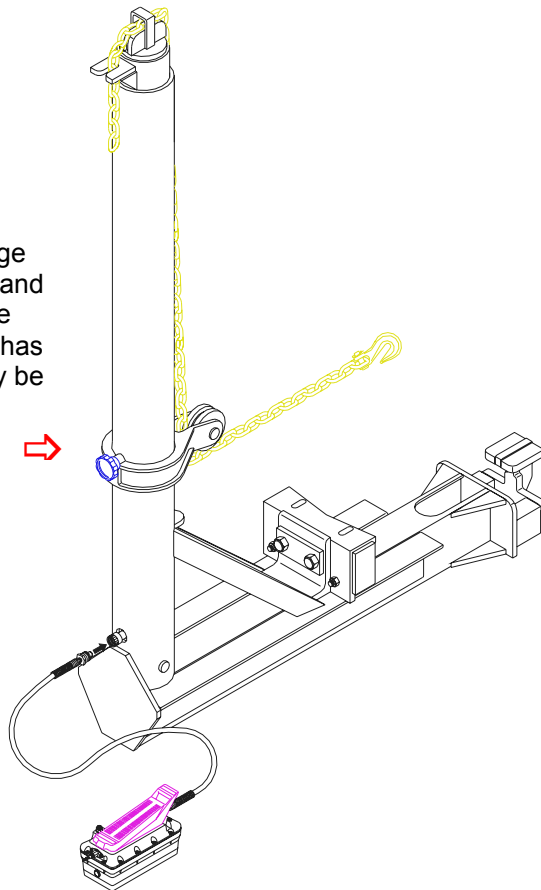


Pulling Procedure

1. Position the pull tower and secure with a locking pin.
2. Positioning the pull collar in place. Tighten the locking knob sets the height of the pull.
3. Thread the plain end of the 3/8" x 14' Heavy Duty Chain (catalog # 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 IN TO 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

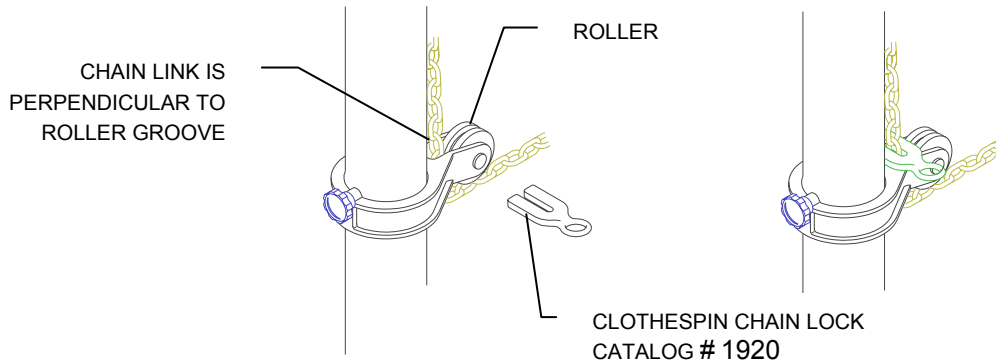
6. Attach the Safety Cable (catalog #1612) to the chain and the vehicle.

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 (catalog # 1920) around this link and on top of the Pull Collar.



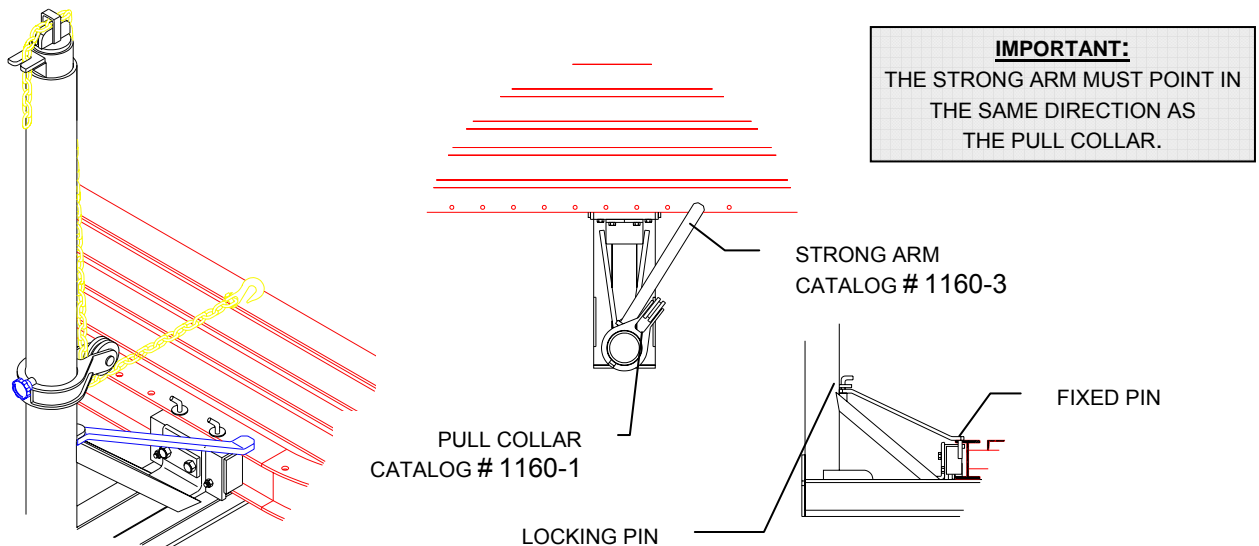
4. Release pressure on the ram.
5. Remove slack from the chain and reset into locking notch.
6. Apply pressure to the ram.
7. Remove Clothespin Chain Lock.
8. Continue as needed.

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 Tower Locking Pin (catalog # 4257).
2. Position the Pull Collar turning it to the direction of the pull and secure with the locking knob.
3. **Place the fixed pin end of the Strong Arm (catalog # 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 (catalog # 4257).
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 towers at front of rack platform with tower locking pins.
3. Loosen all pinchweld clamp bolts.
4. Raise one side of vehicle.
5. Remove the pin and collapse the unibody clamps.
6. Lower the vehicle.
7. Repeat procedure for other side of vehicle.

IMPORTANT:
MAKE CERTAIN THAT BOTH PULL TOWERS ARE SECURED WITH THE TOWER LOCKING PINS BEFORE LOWERING THE RACK.



IMPORTANT:

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

8. Lower the rack platform:
 - insert release handle into socket and loading end of rack
 - apply pressure to the lift ram and rotate handle to disengage lock
 - continue to hold handle and relieve pressure to the lift ram
 - let rack platform settle to the floor
9. If ramps were removed during repair, re-install at this time.
10. Unload the vehicle.

ROUTINE MAINTENANCE

Collapsible Unibody 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.

Air/Hydraulic Pump

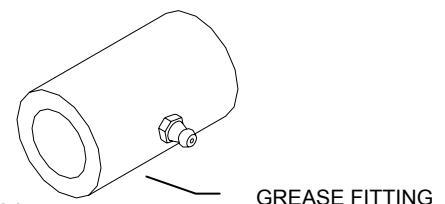
Refer to the Air Pump Instruction Sheet for pump maintenance procedures.

Grease Fittings

All grease fittings on the lift leg should be lubricated with a multi-purpose lithium grease on a quarterly basis.

Removable Crossmember Locking Pins

Check to see that the Automatic Locking Pins fall into position when the Removable Crossmember is taken out of the rack platform. Apply a penetrating spray lubricant as necessary.

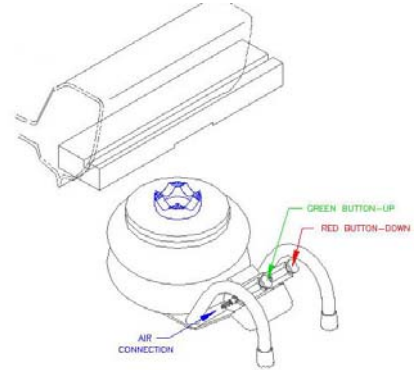


OPTIONAL ACCESSORIES

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

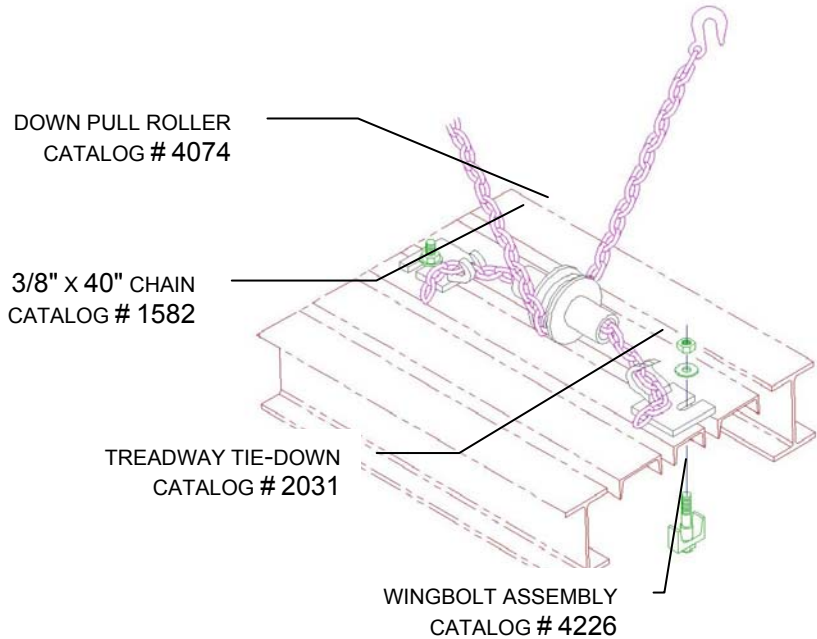
The 3-Bag Air Jack (catalog # 5004U) is used in conjunction with the Oak Pinchweld Block (catalog # 5006) to raise the vehicle into the unibody clamps. The green button raises the jack and the red button lowers the jack.

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



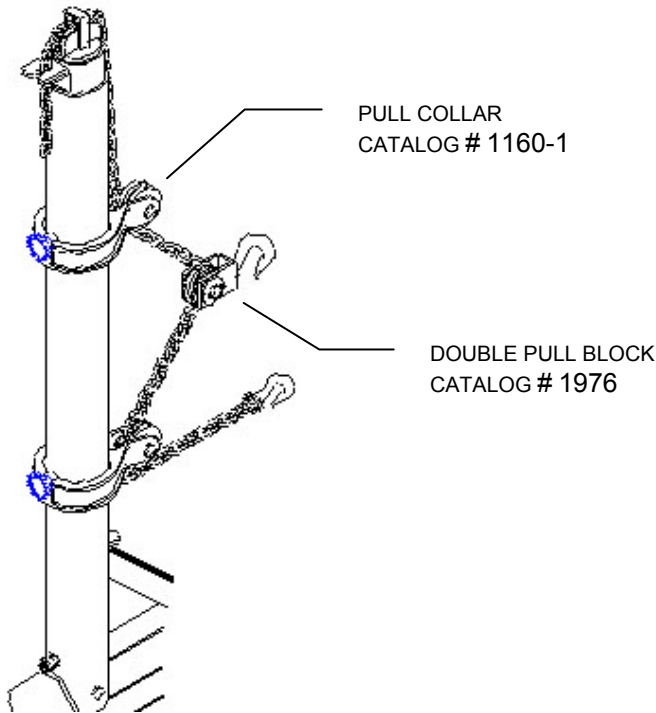
Treadway Down Pull (catalog # 4073)

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.



Double Pull Block (catalog # 1976)

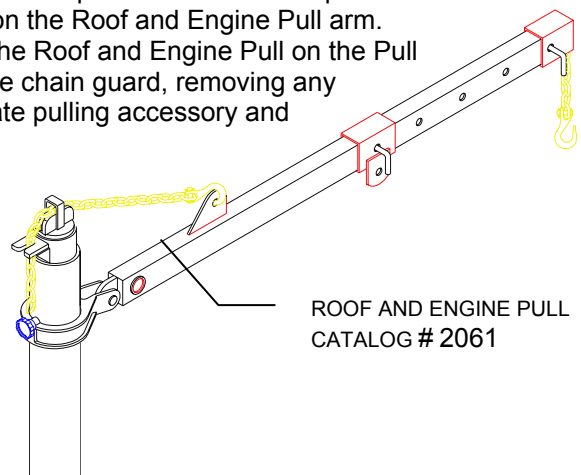
To make a double pull, it is necessary to use the Double Pull Block (catalog # 1976) and an additional Pull Collar (catalog # 1160-1). Follow the illustration below for threading the chain through the rollers. Make certain that the chain does not have any twists.



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)

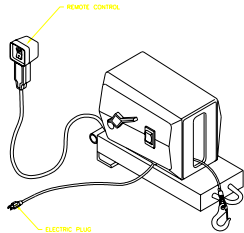
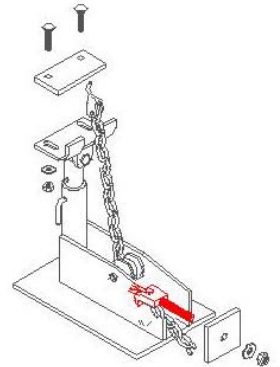
The Roof and Engine Pull (catalog # 2061) may be used to lift the engine from the vehicle or to make upward pulls. Move the Pull Collar to the top of the pull tower post and secure into position with the locking knob. Place the hook of the chain into the eye on the Roof and Engine Pull arm. Remove the 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

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. Set of 4 stands.

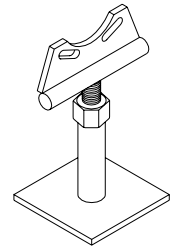


Electric Winch (catalog # 1446)

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

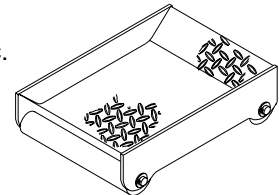
Wheel Stands (catalog # 2043)

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 Winner rack. UltraSpec 2000 Deluxe Mechanical Measuring System (catalog # 8005). Align-O-Lite Laser Measuring System

