Universal Anchoring

(Metric – Single Bolt Jaw)

Users Manual

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Installation

The installation procedures for Universal Anchoring System begin when positioning vehicle on pulling system. Technicians must allow adequate pulling room between machine’s towers and vehicle (18 to 24 inches) and allow enough room for vehicle’s length once corrected. This positioning, coupled with flexibility of the anchoring system, allows for repairing specific types of damage. For example: center vehicle on mainframe when repairing ‘front hits’ or ‘rear hits’; position vehicle to side of mainframe when repairing ‘side hits’.

**CAUTION:** Set vehicle’s parking brake and block its wheels to prevent vehicle movement during installation of anchoring system.

1. Attach two clamp jaws to the vertical plate of the adapter tube, install tube in anchoring stand base (see Figure 1) and position stand at front of center section on side of vehicle that must not move with pull.

2. Prepare a second anchoring stand (as required) and position it on same side of vehicle at rear of center section.

3. Position lifting device under subrail (or other structurally sound component). Lift entire side of vehicle high enough to install anchoring stands at both front and rear of center section.

4. Position anchoring stands directly below anchoring locations on pinchweld. Prior to positioning, observe pinchwelds to determine where clamp jaws should be attached. If possible, select reinforced pinchwelds that are free of obstructions (lines, etc.). Select locations in corners of center section and avoid locations in center of rocker. If pinchweld configuration requires use of optional accessory, see page 2.

   Center locating plate in most convenient rectangular tie down hole below attachment point on pinchweld. Anchoring stand installs more easily with locating plate positioned in tie down hole 3 to 4 inches outboard of attachment points.

5. Adjust front and rear anchoring stand height so clamp jaws engage (or are just below) rocker panel pinch weld and insert height adjustment pins in pinning holes.

6. Lower entire side of vehicle to engage pinchweld in the clamp jaws. Then tighten clamp jaw bolts. **IMPORTANT:** Rocker must rest firmly on top of clamp jaw assembly prior to tightening.

7. Install anchoring stands on opposite side of vehicle. Repeat Steps 1 - 6.

8. Secure anchoring stands to mainframe using tie down plates and bolts.

9. Tighten clamp jaws and locking collars. **IMPORTANT:** Clamp jaws must be retightened after initial pulls are made. Clamp jaws will seat themselves during initial pull, resulting in a loosening of the clamp jaws. Clamp jaws may slip if not retightened.

![Figure 1](image-url)
Flexibility Of Anchoring Systems

UAS components are capable of height adjustment, vertical movement and lateral movement.

Height Adjustment

Adapter tubes adjust to varying heights dependent upon repair and/or measuring needs. This adjustment allows for vehicle placement at identified locations or at a different level that’s more conducive to pulls required.

Vertical Movement

When correcting twist, anchoring stands at low and high corner of center section are secured to vehicle and mainframe, however, anchoring tubes are not pinned to the anchoring stands. This setup allows vertical movement when pulls are applied to correct the twist. Once corrected, adapter tubes are pinned to the stands and remaining repair work addressed.

Lateral Movement

When correcting either diamond or a direct side hit, one or both anchoring stands on the damaged side of the vehicle can be attached to the vehicle but not secured to the mainframe. This setup allows for lateral movement when pulls are applied to remove center section damage. Once the damage is corrected, anchoring stands are secured to the mainframe and remaining repair work addressed.

Optional Accessories

A variety of optional accessories are available for vehicles that are difficult to anchor. Such vehicles have unique pinchweld or frame rail configurations that may require specially designed pinchweld clamp bars, brackets, pins, adapters, adapter tubes or crossmembers.

Some of the optional accessories are in a tube design (for insertion in anchoring stands), whereas other accessories mount directly to the Universal adapter tubes identified in this manual.

For information on all anchoring accessories, contact Chief Automotive Technologies, Inc., 800-445-9262. (If located outside the United States, contact the nearest Chief Automotive Technologies, Inc. representative.)
Parts Information
To order replacement parts for Universal Anchoring Systems, contact Chief Automotive Technologies, Inc. 800-445-9262. (If outside the United States, contact nearest Chief Automotive Technologies, Inc. representative.) When contacting Chief Automotive Technologies, Inc. by telephone or mail, provide the following information: name, name of shop, shop telephone number, shop address, description of part(s) and part number(s).

NOTE: Illustration and list reflect replacement parts for Universal Anchoring Systems. Some parts may not pertain to system purchased.

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