

## 1. Ordering Instructions

**1.1 Part Numbers** – The complete TMA system is ordered using part number 10,000. A model designation of A, B, or C is used to distinguish the TL-2, the TL-3 with 10° strut tilt, and the TL-3 with 90° strut tilt. Fig. 9 is an exploded isometric view showing a TL-3 TMA.

## 2. Truck Frame Inspection

**2.1 Pre-installation** – The truck frame should be inspected for rust prior to any assembly. If there is any noticeable reduction in the structural integrity of the frame, the TMA should not be installed. The truck should also be checked for any portion of the bed that might overhang the frame. For the strut to raise to 90° the end of the frame cannot have any interference above it.

## 3. Installation

**3.1 Manual** – Refer to the manual before starting to install the TMA. The manual tries to cover the different frame types and their custom mountings. Customer service is available for particular installation problems.

## 4. Maintenance

**4.1 Manual** – Refer to the manual for periodic maintenance and periodic inspection.

**4.2 Warning Sticker** – The following warning label will appear on all TMA's.

## 5. Repair

**5.1 Inspection** – After a system has been impacted or damaged inspect the TMA completely. Usually in low speed impacts the front energy-absorbing cartridge will be crushed and the cartridge tube frame will be bent and will need replacement. In higher speed impacts, the whole cartridge section will need replacement. After a high-speed impact the cartridge and strut sections will both need replacement. It is important to inspect the total system to assess the level of damage and order all of the necessary replacement parts.

## 6. Shipping

**6.1 Unloading** – TMA systems are palletized with the cartridge section and the strut section mounted vertically in order to maximize the number of TMA's per truckload. It is important to use extended forks on the forklift when unloading because the load is tall and top heavy. A pallet jack can also be used when loading dock is available.