

## SECTION 4

### BOOM

#### DESCRIPTION

The crane is equipped with a four section 6.6 m (21.6 m (70.7 ft)) telescopic boom (boom extension boom).

The boom is rectangular in design and utilizes one telescopic double-acting, rod pinned telescopic cylinder. The telescoping sections are supported on graphite impregnated nylon roller pads. Adjustable roller pads prevent wear in metal contact between the sections.

Boom assembly (B) is provided by a single lift cylinder. Boom elevation range is from -3 to 75 degrees.

An optional auxiliary boom raise (lower) device is available for the boom to simplify single part cable usage. The roller device is installed on the main boom raise and is secured by pins that pass through the roller device.

The boom has a 7.52 m (24.6 ft) offset or a 7.52 m (24.7 m (81.0 to 82 ft)) telescoping offset/telescoping boom extension provided to allow additional boom reach. The boom extension mounts directly to the boom raise along a four point attachment. The boom extension may be offset 0 to 30 degrees. In addition, the telescoping can be stored on the right side of the boom raise section.

#### Safety

Do not attempt to work on the boom without experienced experience.



#### ⚠ DANGER

To prevent serious injury or death, always wear personal protective equipment (i.e., a hard hat, eye protection, gloves and restricted loads).

#### BOOM SYSTEM COMPONENTS

##### Telescopic Cylinder

The telescopic cylinder is attached to the boom in three places. Refer to Figure 4-1 for boom location.

- The outer rod end (7) of the telescopic cylinder is secured to the boom base section (B).
- The inner rod end (8) is secured to the inner rod section (A).
- The cylinder barrel (5) is secured to the outer rod section (6).

##### Fly Section Extension Cables

The fly section has the extension cables (7) attached to it. Refer to Figure 4-1 for boom location.

The extension cables (7) are secured to the inner rod section (B) and are routed around a free groove sheave assembly (9) at the barrel end (lower end) of the telescopic cylinder (10). These cables are secured at the base end of the fly section (11).

##### Extend Synchronizing Cable

Refer to Figure 4-1 for boom location. The long extend synchronizing cables (12) are connected to the rear of the outer rod section (B) and is routed around two sheaves (13) on the top front of the inner rod (A), and secured to the rear of the boom section (14).

##### Fly Retraction Cables

Refer to Figure 4-1 for boom location. The two retraction cables (14) are secured at the outside front of the inner rod section (A), are routed around sheaves (15) mounted on the end of the outer rod section (B) and are secured at the opposite end (16) to the fly section (11).

##### Outer Rod Retract Cables

Refer to Figure 4-1 for boom location. The four retraction cables (16) are secured at the outside front of the boom section (B), are routed around sheaves (18) mounted on the end of the inner rod section (A) and are secured (19) at the opposite end to the outer rod section (B).

#### BOOM EXTENSION SEQUENCE

Refer to Figure 4-1 for boom location. As the telescopic cylinder extends, the cylinder barrel (5), which is attached to the outer rod section (B), and the inner cylinder rod (7) which is attached to the inner rod section (A), pulls the rod sections out along with it.

At the same time, the free groove sheave assembly (9) at the rear end of the telescopic cylinder pulls on the free fly extension cables around 1. This causes the fly section (11) and rod sections (B, A) to deploy at the same time and rate.

The long extend synchronizing cable (12) ensures the rod sections and the telescopic cylinder extend in synchronization.

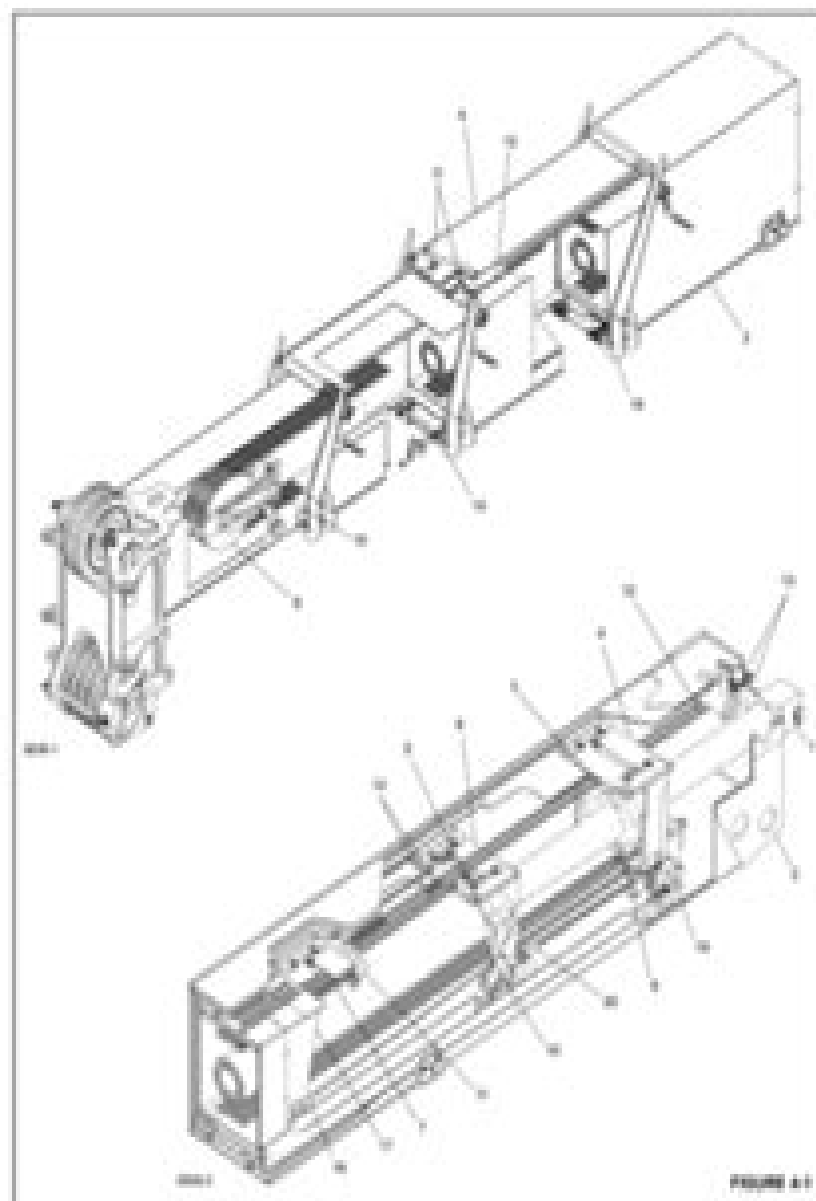


FIGURE 4-1

# Grove Rt540 Service Manual

**Penton Staff**



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