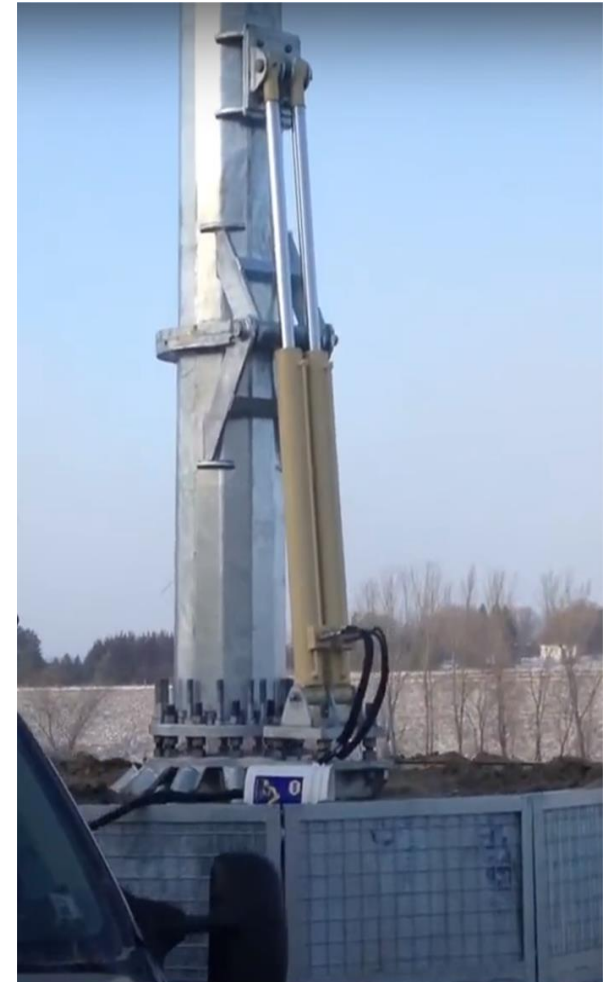


## 30T Hydraulic Raising System Product Manual

AFS 550-1100-1300



### **ARE Telecom & Broadband**

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## 30T Hydraulic Raising System Product Manual



30T RAM (includes 2 Pins) and Gas Power Unit

## Applicable AFS Systems

AFS System	Pole Weight /lbs	Maximum Additional Payload /lbs	Ram Qty	Power Unit
AFS-550_60' Pole	2549	517	1	GPU
AFS 1100_80' Pole	6120	1782	2	GPU
AFS-1300_90' Pole	6338	1386	2	GPU

## Ram Specifications (HY-30)

Overall Dimensions: L72" x W14" x H12"

Cylinder Dimensions: 5.00" Bore, 47.25" Stroke, 3.00" Rod

Pins Dimensions: L17.125" x D1.625"

Weight: 268 lbs/ram

## Power Unit Specifications (GPU-30T-50T)

Overall Dimensions: L35" x W29" x H41" Reservoir: 25 gal

Recommended Hydraulic Fluid Type: ISO AW-46 Grade Paired

Hoses Length: 7 ft

Weight: 280 lbs

## Installation Steps



### Follow the installation steps below;

- Fully assemble foundation
- Torque bolts to specification
- Add required ballast to ballast trays
- Anchor first pole section to king post
- Connect hoses to ram (1)
- Pin ram to bottom bracket (2)
- Pin second pole section to form a hinge
- Leave pole in horizontal position and pin top of ram (3)
- Connect hoses to power unit and start unit (4)
- Raise first pole section to ensure ram is operating properly and anchor bolts aligned with base flange (5)
- Lower pole and complete assembly of pole
- After pole is raised, add top nuts to top of pole base flange (6)
- Remove ram and pins from pole
- Use nuts to level pole

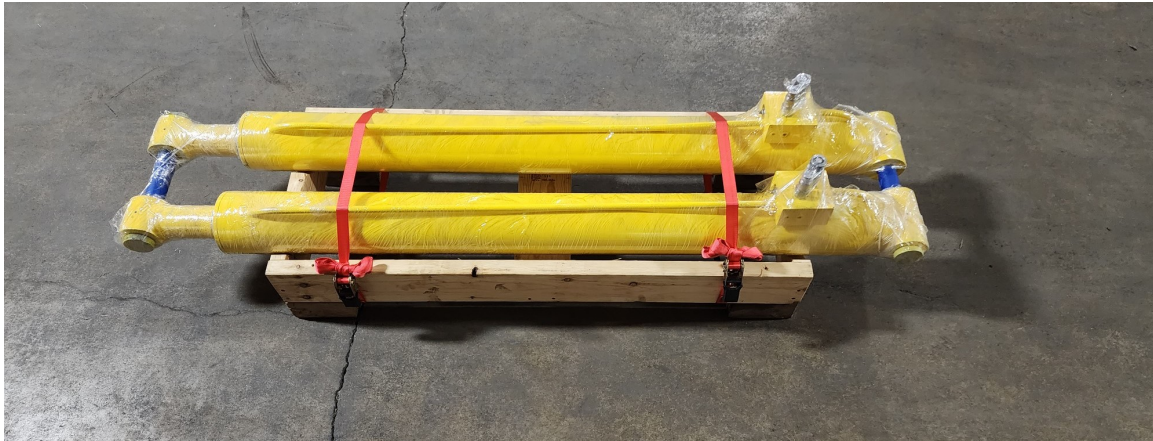
### NOTE:

- Do not use any other power units with ARE Rams. ARE Rams should only be used with ARE Power Units.
- Ram and power unit should be stored in climate-controlled environment
- Do not overload pole to exceed ram capacity, See table on page 1 for maximum payload
- If quick connect couplings are difficult to seat, push in plug to release pressure on quick connect port



### Packaging / Shipping

Both rams and power unit are shipped strapped on pallets and shrink wrapped.



30T Rams: L96" x W40" x H20" 1100 pounds (2 rams)



L45" x W35" x H45", 310 pounds



## Notes

- Do not use any other power units with ARE rams. ARE rams should only be used with ARE power units.
- Do not overload pole to exceed ram capacity. See table on page 1 for maximum payload

## Troubleshooting Ram

- Using a 22mm wrench, turn counter clockwise 3/4 turn, or until pressure is released
- Make connection, then tighten

## Maintenance Guide Ram

- Store ram system in a safe and dry place away from moisture
- Inspect lubrication regularly
- Keep oils clean and uncontaminated
- Regularly check cylinder and rod for corrosion and uneven wear. This indicates dampness or moisture
- Rams are to be operated every month
- Rams should be stored in a vertical position or rotated 180 degrees every 3 months

## Maintenance Guide Power Unit

- Store system in a safe and dry place away from moisture
- Maintain hydraulic fluid levels



## Maintenance

### Notes

- Do not use any other power units with ARE rams. ARE rams should only be used with ARE power units.
- Do not overload pole to exceed ram capacity. See table on page 1 for maximum payload

### Maintenance Guide

#### Ram

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### Maintenance Guide

#### Power Unit

- Store system in a safe and dry place away from moisture
- Maintain hydraulic fluid levels

**Dimensions:** 96" x 40" x 20"

**Weight:** 1100 pounds

If the following happens, please follow the troubleshooting instructions below:

- Ram operates sporadically or not at consistent speed
- Ram stalls after partial raising
- Pump gets hot

### Troubleshooting Instructions

1. Safely lower the device/pole if needed
2. Disconnect the lines from the cylinder
3. Remove the cylinder from the device/pole
4. Check oil in the reservoir, and add if needed until it is within 1.5" of the top of the inside of the fill hole  
**NOTE:** The correct fluid is Dexron III ATF fluid
5. Connect the hydraulic lines to the cylinder. Do not connect the cylinder to the device/pole at this time.
6. Completely cycle the cylinder one time, fully retracted to fully extend and back to fully retracted.
7. Check the oil level in the reservoir again, and add if needed to get the oil level within 1.5" of the inside of the fill hole.
8. Completely cycle the cylinder again, fully retracted to extended and back to fully retracted.
9. If oil level is not within 1.5" of the top of fill hole, add oil and repeat cycling the ram until oil level remains at 1.5" below fill hole when ram is retracted.
10. If oil level is still within 1.5" of the top of fill hole, reconnect the ram to the device and try to lift again.

### Troubleshooting Ram

- Using a 22mm wrench, turn counter clockwise 3/4 turn, or until pressure is released
- Make connection, then tighten

