

**KNOWLEDGE BASE**Article Type: **Instructions**

Cable Reel Tension Adjustments Instructions for; RTS Upcar

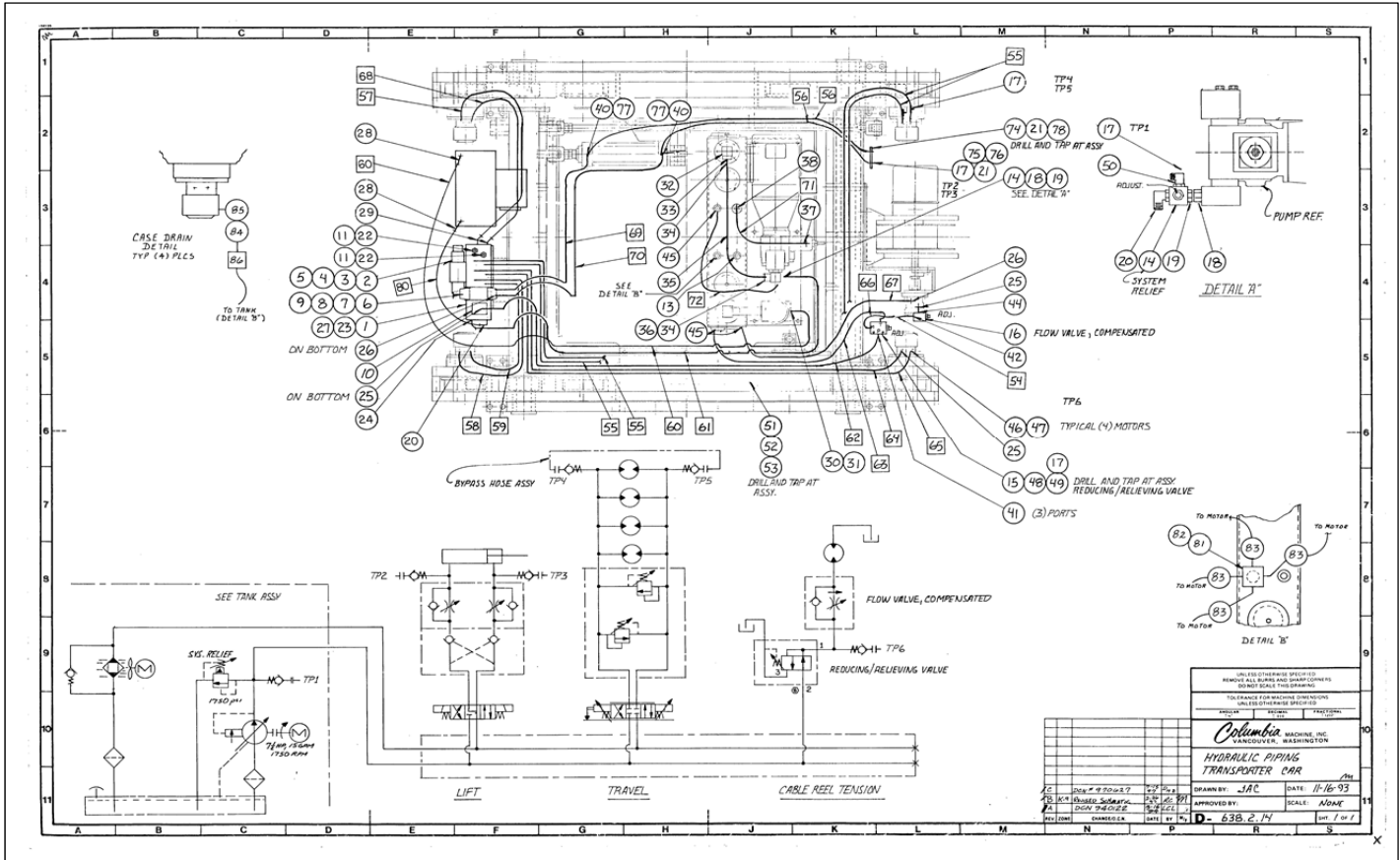
Description:

Instructions on “How to” properly adjust cable reel tension on a Columbia Machine RTS Upcar reel. Reference drawing # D-638.2.14

WARNING

Never work on, clean or service this unit, control panel or any machine or open or remove any protective cover, guard, grate, door, or maintenance panel until the power or energy sources has been turned off, locked out / tagged out, and all moving parts have come to a complete stop and or blocked to prevent movement. Machinery is dangerous - avoid personal injury and or death by following manufacture, Local, and OSHA safety procedures. Contact Columbia Machine for safety decals, guards, horns and beacons.

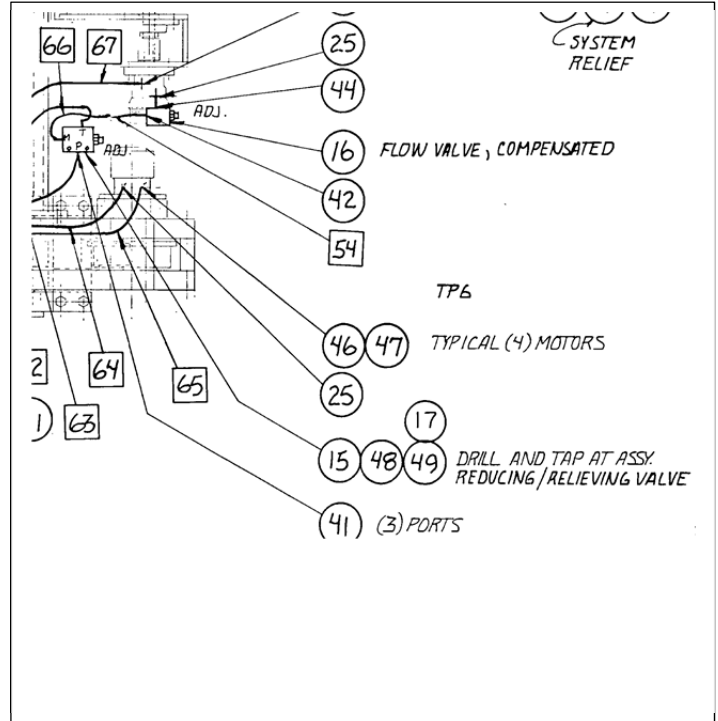
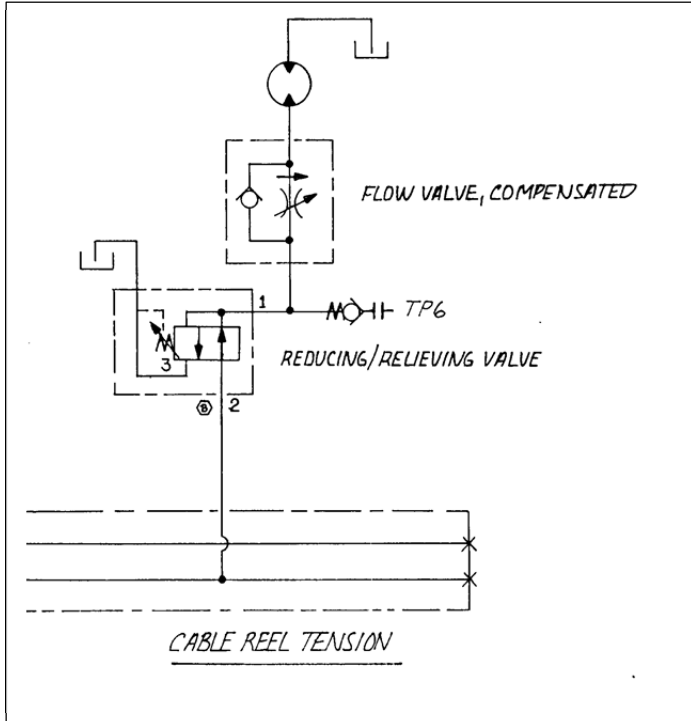
Cable Reel Tension Adjustment RTS Up Car



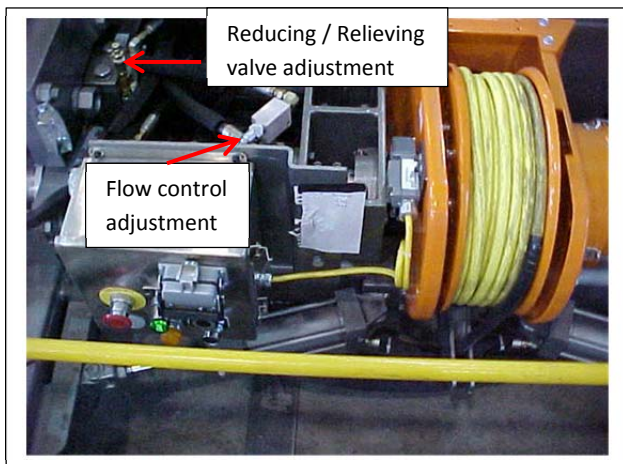
Above drawing number D-638.2.14

1. Adjust flow valve so that the cable reels back up as the car is traveling back and not spooling up on the floor.
2. Reducing / relieving valve have enough hydraulic pressure such that you have tension on the cable, approximately 300 to 400 psi., but may need to go as high as 750 psi. Once you have the setting adjusted you should be able to pull on the cable with some resistance, but still be able to pull the cable off the reel. If there is too much tension or pressure that you cannot reel some of the cable off by hand then you have the pressure reducing valve set to high. Reduce setting and test again.

In the event you have problems setting the flow valve or reducing / relieving valve contact Columbia Machine Concrete Products Service Department at 360-694-1501



Reducing /Relieving Valve (1) To Motor /Flow Control, (2) Pressure, (3) Tank (See above)



It may be necessary to remove hydraulic motor and check to insure reel turns freely without binding, check bearings if rough when rotating either grease or replace.

After making all adjustments manually run up car down kiln and back checking tension and reel of cable. Cable should not lay slack on floor when car is returning to low car and reel should be smooth rolling up on return.

Remember when making hydraulic adjustments if the oil is cold you may need to make additions adjustments when the oil warms up. You should check pressures at the following locations (PT1, PT2, PT3, PT4, PT5, and PT6 all noted on the hydraulic piping schematic print 638.2.14 shown on page 1.

For assistance with hydraulic setup on the cable reel or other hydraulic adjustments call Columbia Machine Inc. 1-800-628-4065 and ask for CP Service Department.