

---

# Service Bulletin

## Maintenance of Way Equipment

---

**Date:** 3.13.2019**RRP Service Bulletin No:** RRP SB343**Title:** Load Sense Conversion Kit**Rating:**☐**ALERT**

(Potential Problem)

☐**INFORMATION**

(Action Is Optional)

☐**DIRECTIVE**

(Action Is Required)

☒**PRODUCT IMPROVEMENT**

(Enhance Product)

**Product Series:** Dual Anchor Adjusters**Serial No:**

DAS-244-14	DAS-251-16	DASP-254-16	DAA-317-14
DAS-245-15	DAS-252-16	DASP-266-18	DAA-318-14
DAS-246-15	DAS-253-16	DASP-267-18	DAA-324-15
DAS-248-15			DAA-325-15

**Summary:** A Load Sense Kit is needed to operate a Dual Anchor Spreader Plate (DASP) in Anchor Adjust (Anchor Squeeze) mode.

**Action:** Install the Kit and convert the DASP to DAA operation.

**Completion:** Continue with normal machine operation after completing this procedure

## Load Sense Conversion Kit / RRP # 793044

### Parts List

NO.	QTY	DESCRIPTION	PART NO.
1	1	ADAPTER, #4 JIC(M) X #4 SAE(M)	459799
2	1	ELBOW, 90°: #4 JIC(M) X #4 SAE(M)	459812
3	1	ELBOW, 90°: #4 JIC(M) X #4 JIC(M) BULK	459887
4	1	UNION, #4 JIC(M) BULK	460155
5	1	HOSE ASSY, #4 X 81 CR	466798
6	1	HOSE ASSY, #4 X 41 CR	469871
7	1	HOSE ASSY, #4 X 131 CR	473074
8	1	CONTROL, LOAD SENSE	473570
9	1	PLACARD, LOAD SENSE OVERRIDE	474053
10	1	PLACARD, LOAD SENSE OVERRIDE LOCATION	474236
11	1	INSTRUCTIONS, LOAD SENSE CONVERSION KIT	800307

## Load Sense Conversion Kit / RRP # 793044

### Instructions



**Make sure the power is disconnected and the machine is secure before performing any adjustments.**

1. Remove existing pressure compensator control from the hydraulic pump.
2. Install the **473570** Load Sense Control.
3. Install the **459799** adapter on the hydraulic pump Load Sense Control port "X".
4. Route the hose **473074** #4 X 131 CR from the Load Sense Control ADAPTER to the frame bulkhead.
5. Route the hose 466798 #4 X 81 CR between the frame bulkhead and the workhead lift cylinder bulkhead.
6. Remove the plug from the CMA Valve Assembly and install **459812** #4 JIC(M) X #4 SAE(M) 90° elbow.
7. Route the hose 469871 #4 X 41 CR between the CMA valve assembly and the workhead lift cylinder bulkhead.
8. Remove the CMA cover. Apply the **474053** placard onto the cover with rivets. Reinstall the cover.
9. Locate the **474236** the Load Sense Override location placard inside the cab,

---

## Load Sense Control Settings

1. Loosen the set screws on the Load Sense Control.
2. Back out of the Load Sense and pressure compensator spools to lower the pump pressure.
3. With a gauge on the pump, start the engine and screw in the Load Sense Spool until the gauge reads 350 psi. Tighten the set screw.
4. Rotate the knob on the CMA valve clockwise to raise the supply pressure to the set manual override.
5. Screw in the pressure compensating spool until the gauge reads 2000 psi. Tighten the set screw.
6. Rotate the knob on the CMA valve counter-clockwise to lower the supply pressure and disengage the override.

### **Note:**

**CMA valve override:** If a work section is not functioning properly, electrical and hydraulic power is not lost. Manual override can be used to move a service.

To power a service, the inlet needs to be commanded to supply high enough pressure to move the service against its weight.

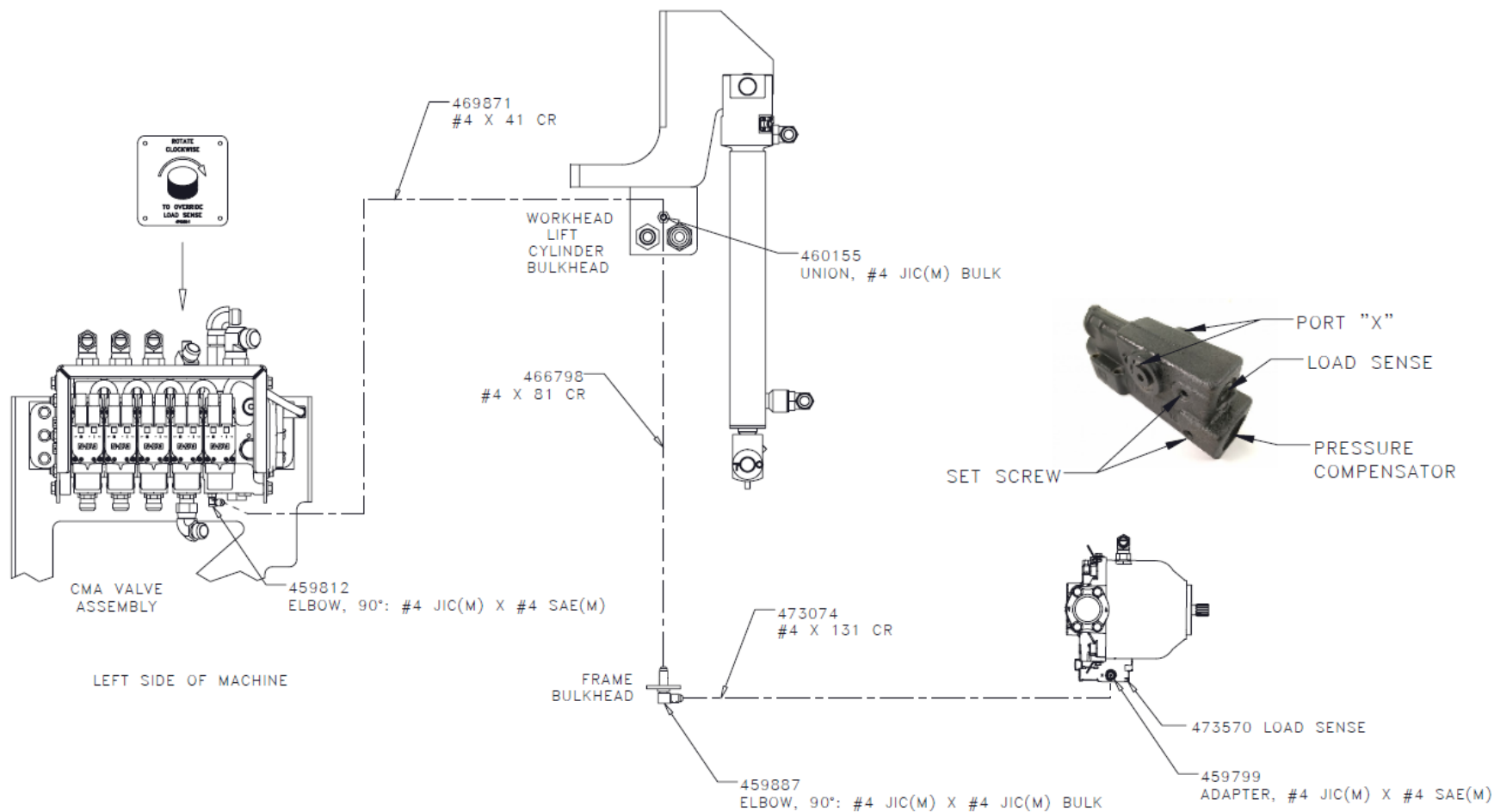
# Updating the IQAN (Touchscreen) and CMA Parameters

**Note:** *The software package is unique to the machine serial number.*


The following procedure must be performed by a technician to ensure the IQAN and CMA parameters have been installed correctly.

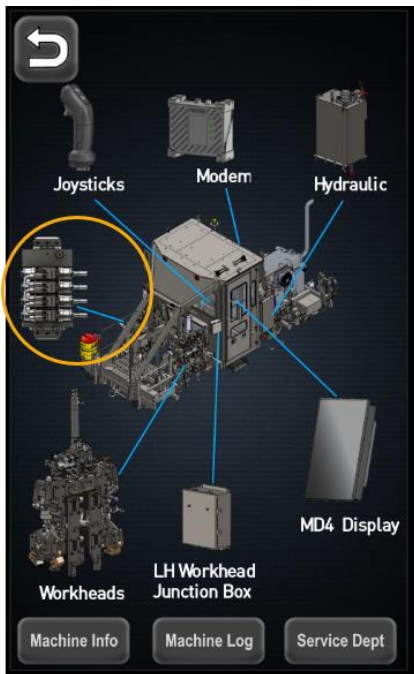
If you are not sure how to upload and load parameters, call RRP Software Department.

1. Service technician emails RRP Programmers ([KGherke@racinerailroad.com](mailto:KGherke@racinerailroad.com) / [PPekala@racinerailroad.com](mailto:PPekala@racinerailroad.com)) with a request for *IQAN and CMA Software Package* for *Machine Name*, *Machine Serial Number*, and *RRP SB343* in the subject field.
2. RRP will email the Service Technician the software package for the specified machine serial number. ***The software package is not to be used on other machines.***
3. Copy the IQAN and CMA parameter files from the machine. Name the files *PreLoad*.
4. Install the software package in the email.
5. Copy again the IQAN and CMA parameter files from the machine. Name the files *PostLoad*. This will verify the parameters have been properly installed and backed up.
6. Email the files to RRP Software Department ([KGherke@racinerailroad.com](mailto:KGherke@racinerailroad.com) / [PPekala@racinerailroad.com](mailto:PPekala@racinerailroad.com)) with the machine serial number and SB343.

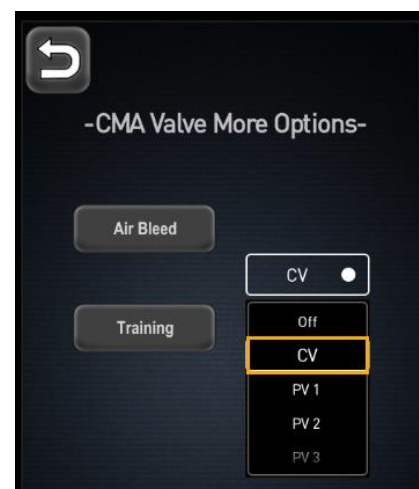


## Training the Valve

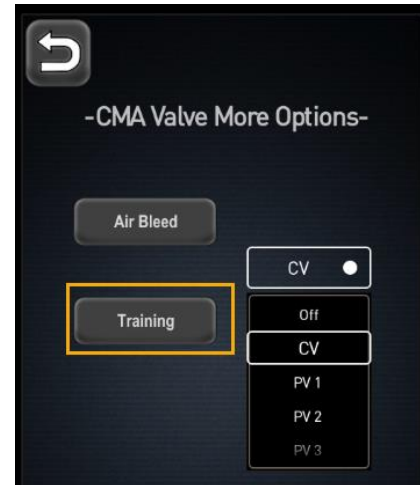
1. Press the Mechanic button on the screen.
2. In the Mechanic screen, press the **CMA** valve.
3. In the CMA Valve screen press the **More Options**  button.



4. The CMA Valve More Options screen will open.
5. In the drop down [Off will be shown] select **CV**.
6. Press the **Air Bleed** button.
7. When prompted, press the **OK** button.



8. When done, **press Training button.**
9. When prompted, press the **OK** button.



**Contact:** If you have any questions or we can be of any service, please contact the Racine Railroad Products service department at (262)-637-9681 or [custserv@racinerailroad.com](mailto:custserv@racinerailroad.com).

## Safety Terms



**DANGER** indicates a hazardous operating procedure, practice, or condition. If the hazardous situation is not avoided death or serious injury will occur.



**WARNING** indicates a hazardous operating procedure, practice, or condition. If the hazardous situation is not avoided death or serious injury could occur.



**CAUTION** indicates a potentially hazardous operating procedure, practice, or condition. If the hazardous situation is not moderate or minor injury could occur.

**Note:** Indicates an essential operating procedure, practice, or condition. No personal injury is possible.