

#18088

Heartland

Pat Taylor

From: Eldridge, Justin <jeldridge@dtsfluidpower.com>
Sent: Wednesday, April 18, 2018 1:19 PM
To: 'Pat Taylor'
Subject: FW: rear steering measurments

Good afternoon Pat. I forgot to CC you on this.

From: Eldridge, Justin
Sent: Wednesday, April 18, 2018 8:36 AM
To: 'Mitchell Merrihew' <mcmerrihew@icloud.com>
Cc: Drew, Scott <sdrew@dtsfluidpower.com>
Subject: RE: rear steering measurments

LEFT PEDAL RT PEDAL
1562 4760

I just realized I never explained the calibration procedure.

- On the display there is a screen with adjustable settings.
- There is a rectangle shaped touch button that turns on calibration mode. The current scheme is to turn the rear wheels all the way in each direction while the calibration button is active and the controller will record the smallest and largest voltages seen.
- Turn off the calibration mode and the controller will calculate the center voltage and use that as the target.

If you don't mind if would tell me the values you end up with for min and max I would like to compare it to my calculations.

From: Mitchell Merrihew [<mailto:mcmerrihew@icloud.com>]
Sent: Tuesday, April 17, 2018 4:17 PM
To: Eldridge, Justin <jeldridge@dtsfluidpower.com>
Subject: Re: rear steering measurments

thank you for the updates ill get them loaded in

On Apr 17, 2018, at 10:41 AM, "Eldridge, Justin" <jeldridge@dtsfluidpower.com> wrote:

Just now I uploaded Application_Center_130 which enables this for you. 😊

Also this update should implement the LED speed indicator on the keypads for all the functions that are proportional instead of motorized flow controls.

There is also a new rear program 1.0.8 that should make the steering angle sensor a little more accurate.

Display version r014 should now show the fuel level as well as an icon on the main screen when the steering centering function is actively turning the rear wheels.

From: Mitchell Merrihew [<mailto:mcmerrihew@icloud.com>]
Sent: Tuesday, April 17, 2018 12:46 PM
To: Eldridge, Justin <jeldridge@dtsfluidpower.com>
Subject: Re: rear steering measurments

yes the link worked thank you. if we added a circuit to mVec #1 in the A1 what needs to be done to activate that with just key on power? the circuit we added is just +12vdc supply power to our engine reversing fan.

any questions please call my shop at (989) 268-5711

thanks,

Mitchell Merrihew AFE

On Apr 17, 2018, at 09:22 AM, "Eldridge, Justin" <jeldridge@dtsfluidpower.com> wrote:

Did the new link help at all?

From: Eldridge, Justin
Sent: Tuesday, April 17, 2018 9:20 AM
To: Mitchell Merrihew <mcmerrihew@icloud.com>; Pat Taylor <patrick.t@lenco-harvesters.com>
Subject: RE: rear steering measurments

I don't think Corporate IT will let us. Could you have Pat try on his computer and see if he has any better luck?

Also, does using this link help any?
<ftp://dtsguest@ftp.appliedfluidpower.com/AFE/Heartland%202018/> It should prompt you for a password which is dtsfluid

From: Mitchell Merrihew [<mailto:mcmerrihew@icloud.com>]
Sent: Tuesday, April 17, 2018 6:57 AM
To: Eldridge, Justin <jeldridge@dtsfluidpower.com>
Subject: Re: rear steering measurments

can u send the new program over on a google doc or as a file? my computer will not allow the FTP load

On Apr 16, 2018, at 02:02 PM, "Eldridge, Justin" <jeldridge@dtsfluidpower.com> wrote:

There is a new program for the display (r013) on our FTP
<ftp://ftp.appliedfluidpower.com/AFE/Heartland%202018/>

This should give a button on the settings screen that turns on calibration mode and another that allows the driver to swap left and right rear steering (apparently that is something that is requested often)

From: Mitchell Merrihew [<mailto:mcmerrihew@icloud.com>]
Sent: Monday, April 16, 2018 2:06 PM
To: Eldridge, Justin <jeldridge@dtsfluidpower.com>
Subject: Re: rear steering measurments

my bad on the math. yes the pedals controlled the wheels in the proper direction.

we just noticed two more things on our last walk around of testing, we found that the hyd. tank temp is reading 5 degrees F. and that work lights still do not work. I believe we are controlling all of the work lights with the John Deere light switch on steering column.

I wasn't sure if you knew about these two things or not.

thanks,

Mitchell merrihew AFE

On Apr 16, 2018, at 10:47 AM, "Eldridge, Justin" <jeldridge@dtsfluidpower.com> wrote:

Good to hear you got the rear steering working.

Your math had an error in it...

$4885 - 2164 = 2721$, but this is the difference between the two.

To find the center you next need to divide the 2721 in half and add it to the small value.

$$2721/2=1360.5 + 2164 = 3524.5$$

Or going from the other direction $4885 - 1360.5 = 3524.5$

This is much closer to the actual reading you saw of 3268.

The next screen update will have a "calibrate" button that will allow the user to turn the rear wheels all the way left and right and it will record the minimum and maximum voltages. Until that screen update is ready the centering will not work.

When the centering is ready it will work just like you are thinking by aiming for the middle voltage. I should have the update for you in an hour or so.

P.S. did the left and right pedal turn the wheels in the correct directions?

From: Mitchell Merrihew
[<mailto:mcmerrihew@icloud.com>]
Sent: Monday, April 16, 2018 1:25 PM
To: Eldridge, Justin <jelldridge@dtsfluidpower.com>;
Drew, Scott <sdrew@dtsfluidpower.com>
Subject: rear steering measurments

got rear steering to work and we took some voltage reading that was shown on display. with tires turned all the way to left I got a reading of 2164mv, tires all the way to right I got a reading of 4885mv. we did the math and split the different thinking it would go to center at 2721mv it did not, we took some measurements manually centering rear seer and got it within 1/8in and had a reading of 3268mv. any

questions please call the shop my cell phone is not
working as of right now

thanks,

micthell merrihew AFE

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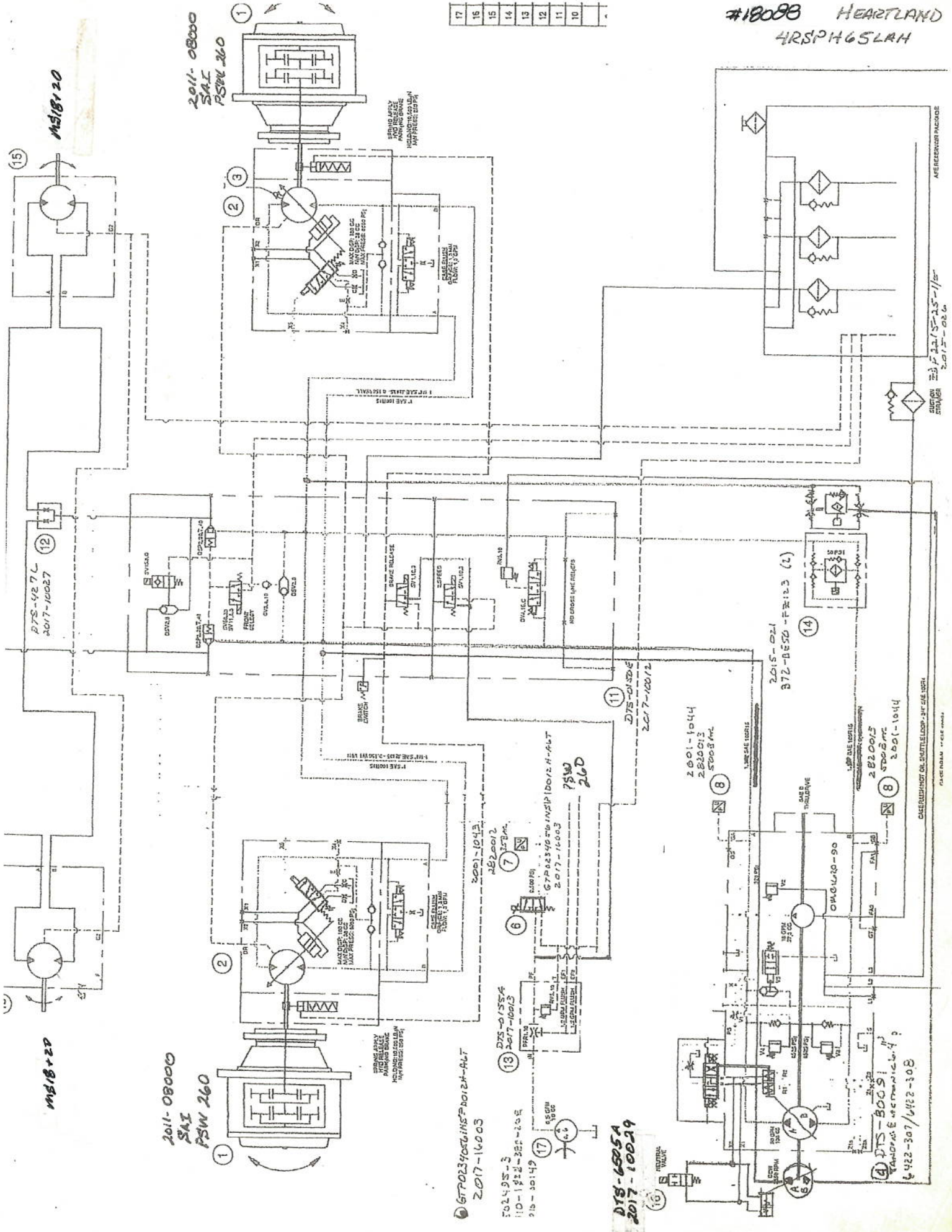
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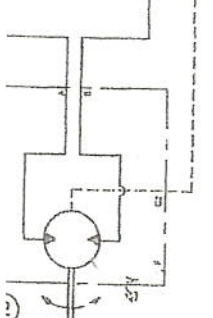
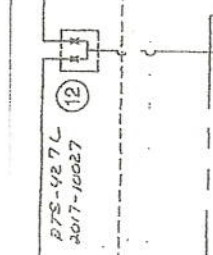
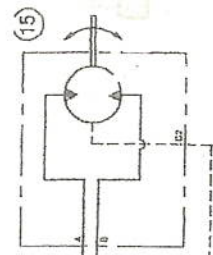
#18088 HEARTLAND
4RSPH65LAH

17
16
15
14
13
12
11
10



M318120

2011-08000
SAI
PSW 260



M318120

2011-08000
SAI
PSW 260



6 GTD234061NEP00124-ALT
2017-16003

502495-3
10-1812-522-20R
215-20149

7
2001-1043
2820012

8
2001-1044
2820013
5003 MC

11
DTS-01554
2017-10012

12
DTS-427L
2017-10027

15

DTS-6005A
2017-10029



8
2001-1044
2820013
5003 MC

14
2015-021
372-0550-FR-12.3 (L)

DTS-5005A
2017-10029

8
2001-1044
2820013
5003 MC

8
2001-1044
2820013
5003 MC

11
DTS-01554
2017-10012

12
DTS-427L
2017-10027

15

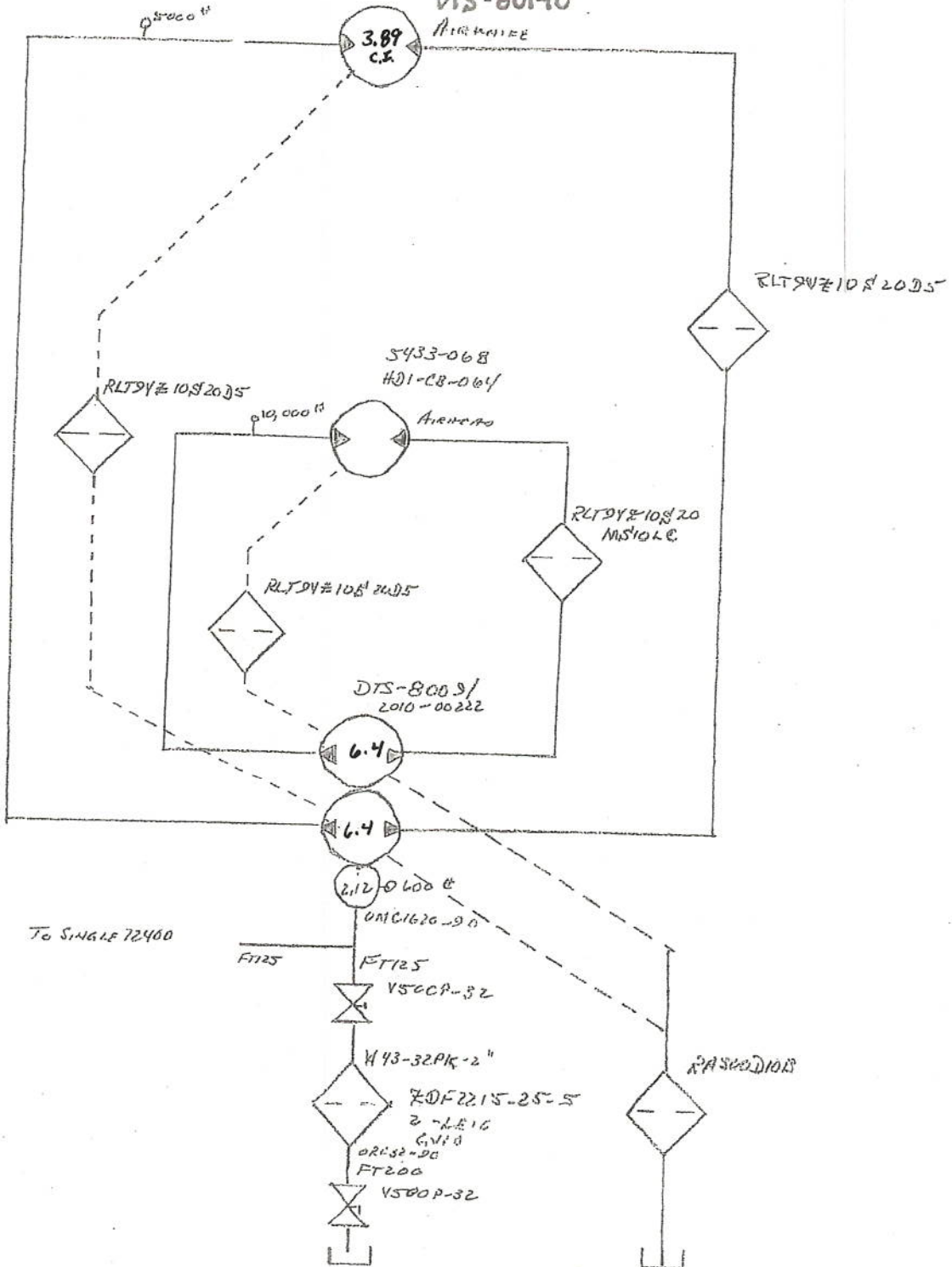
AFR REFRIGERATOR PACKAGE
SUPER STRONGER
2015-021 372-0550-FR-12.3 (L)

#18088
HEARTLAND
4RSPH65LAH

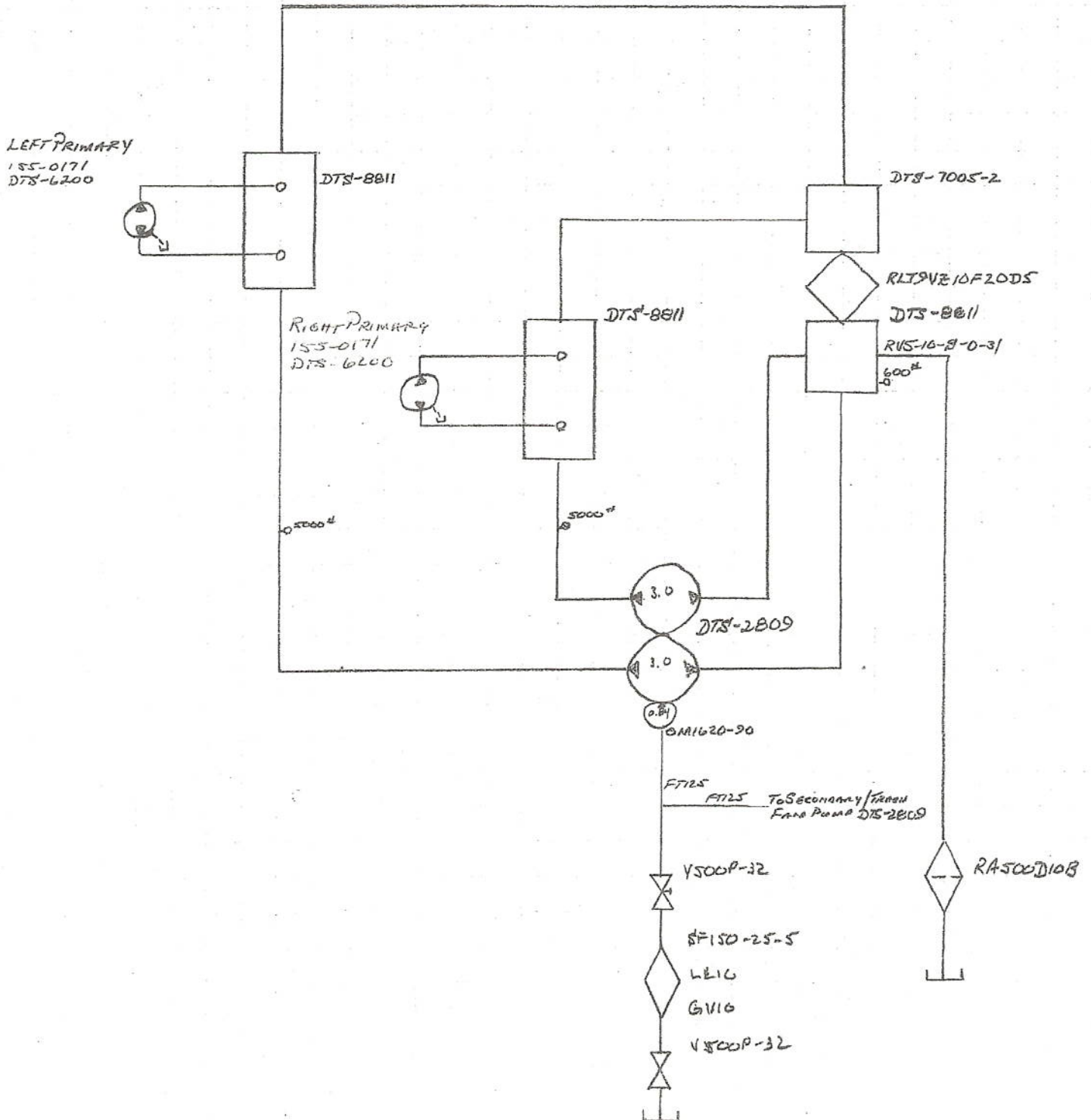
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2011-01010

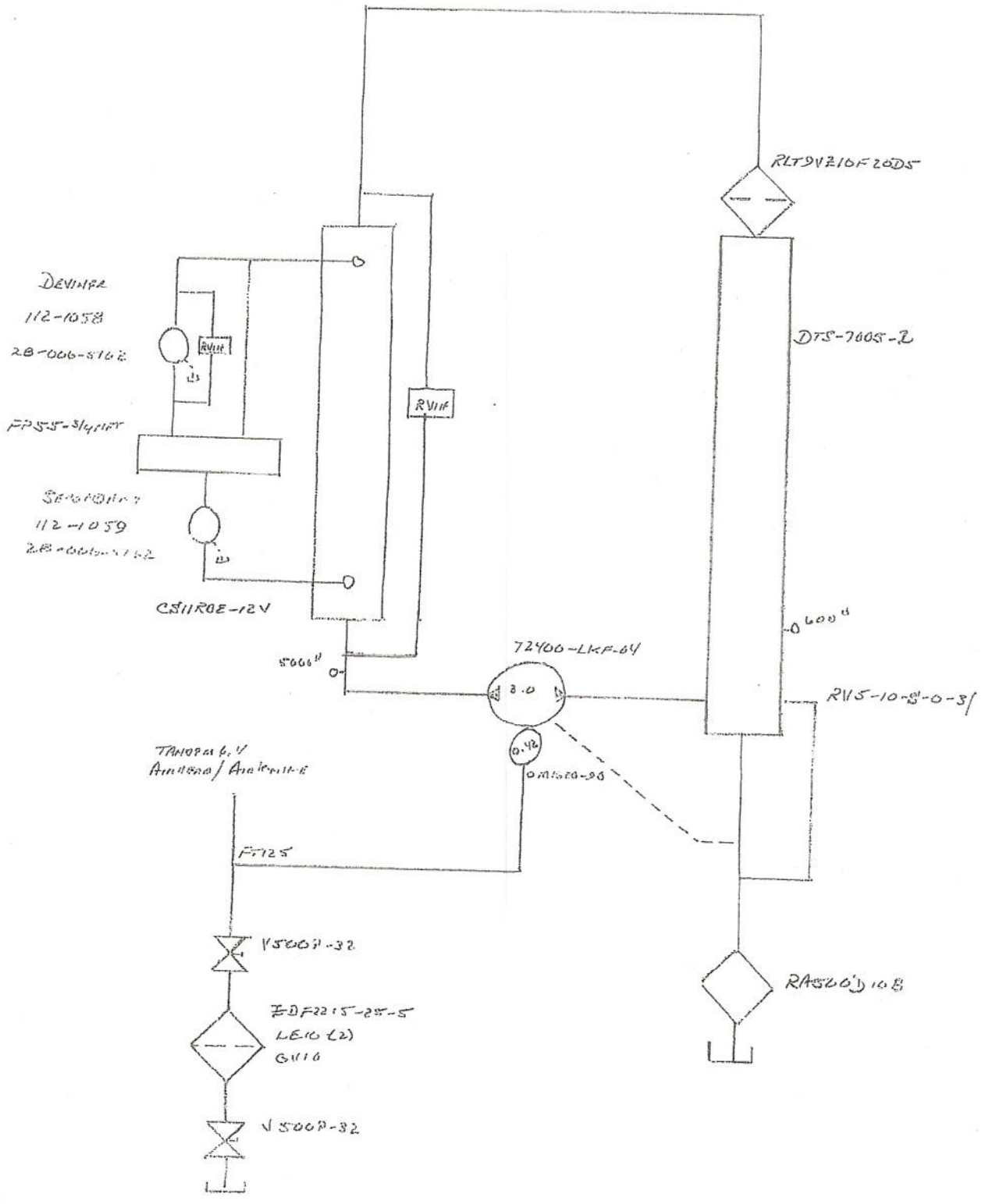
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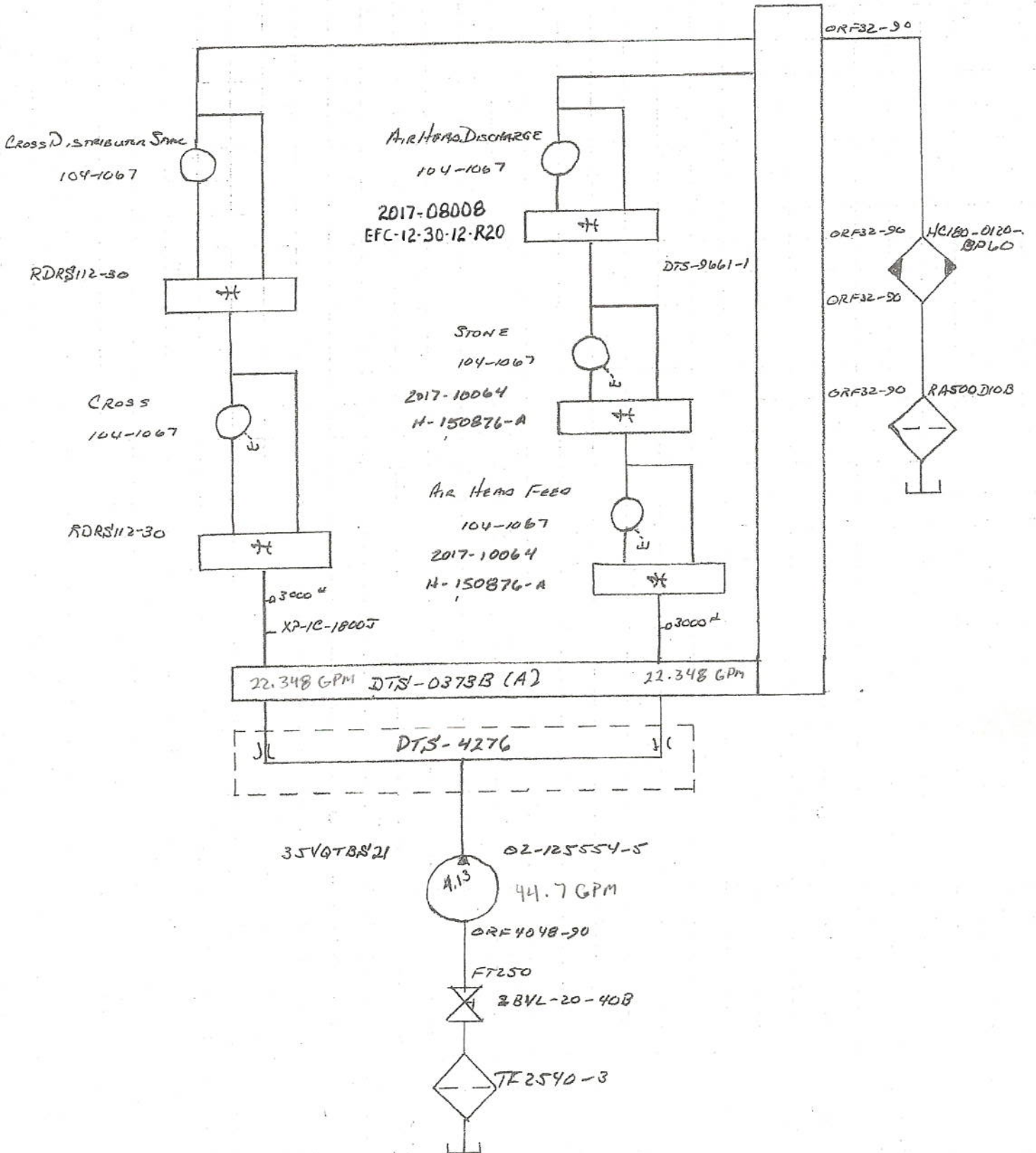
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4RSPH 652AM



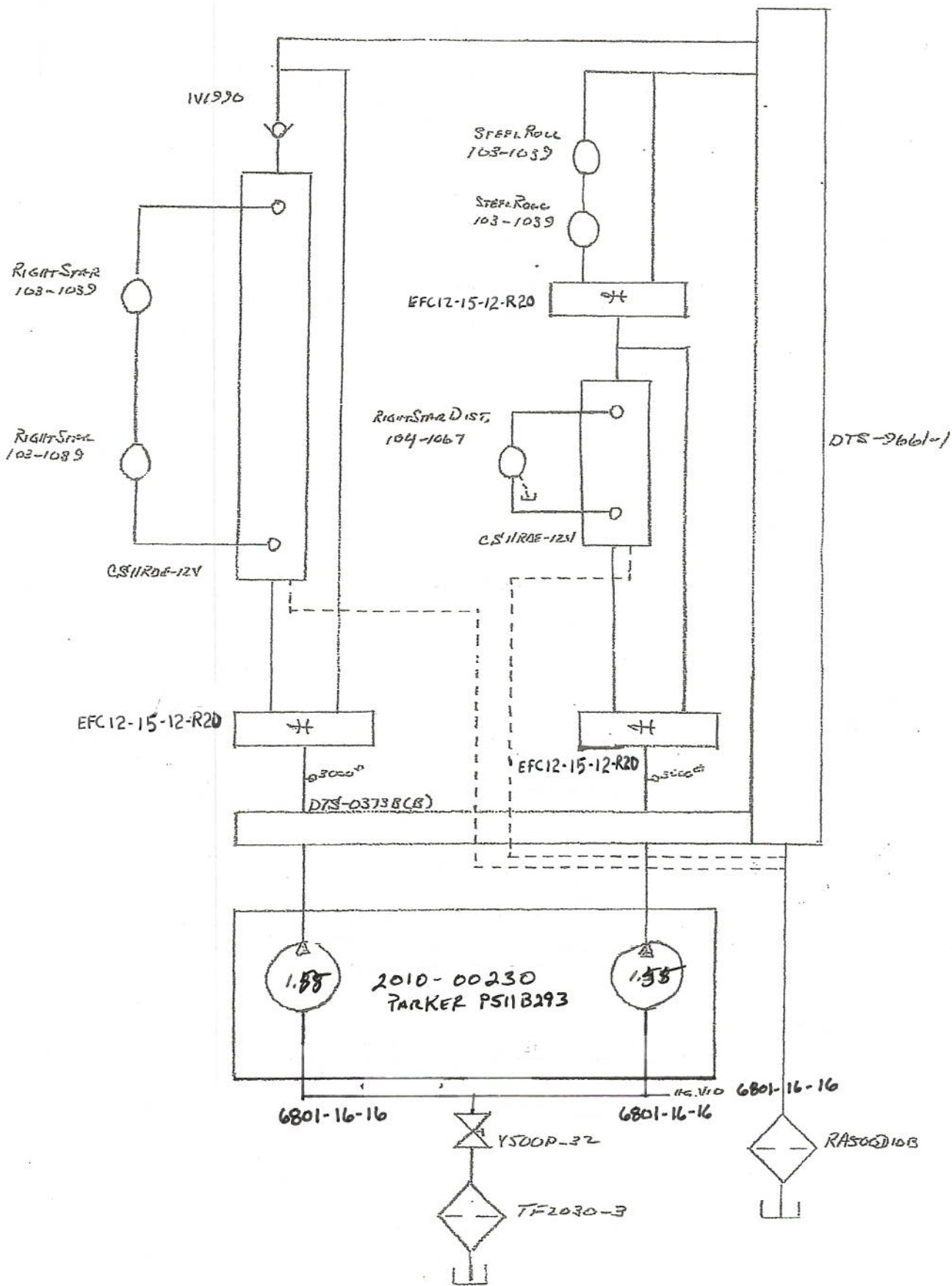
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 HEARTLAND
 4RSPH66L4H



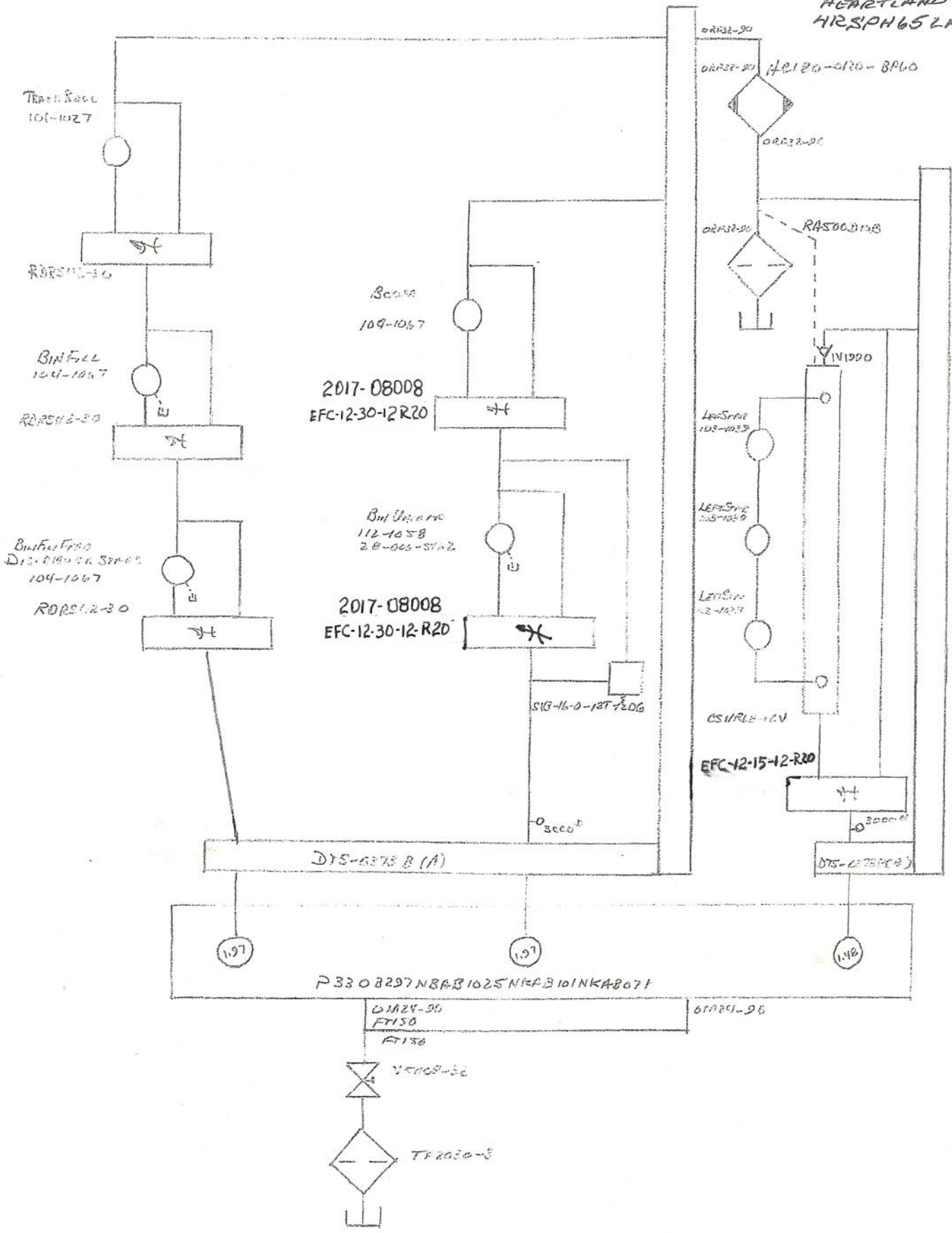
18083
 HEARTLAND
 HRSPH65LWH



#18088
HEARTLAND
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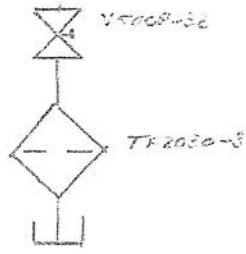


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HEARTLAND
HRS PH 65 LPH

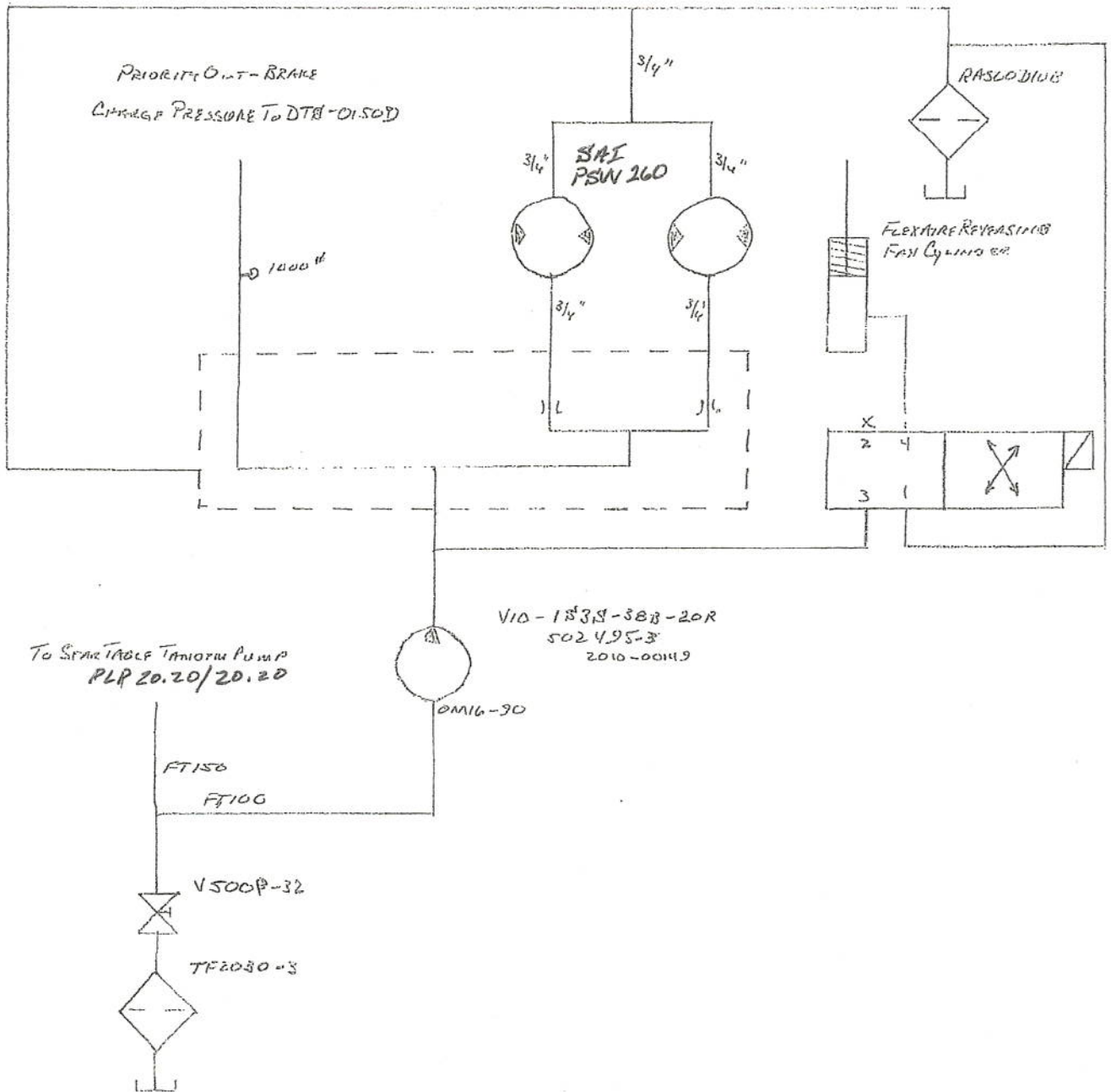


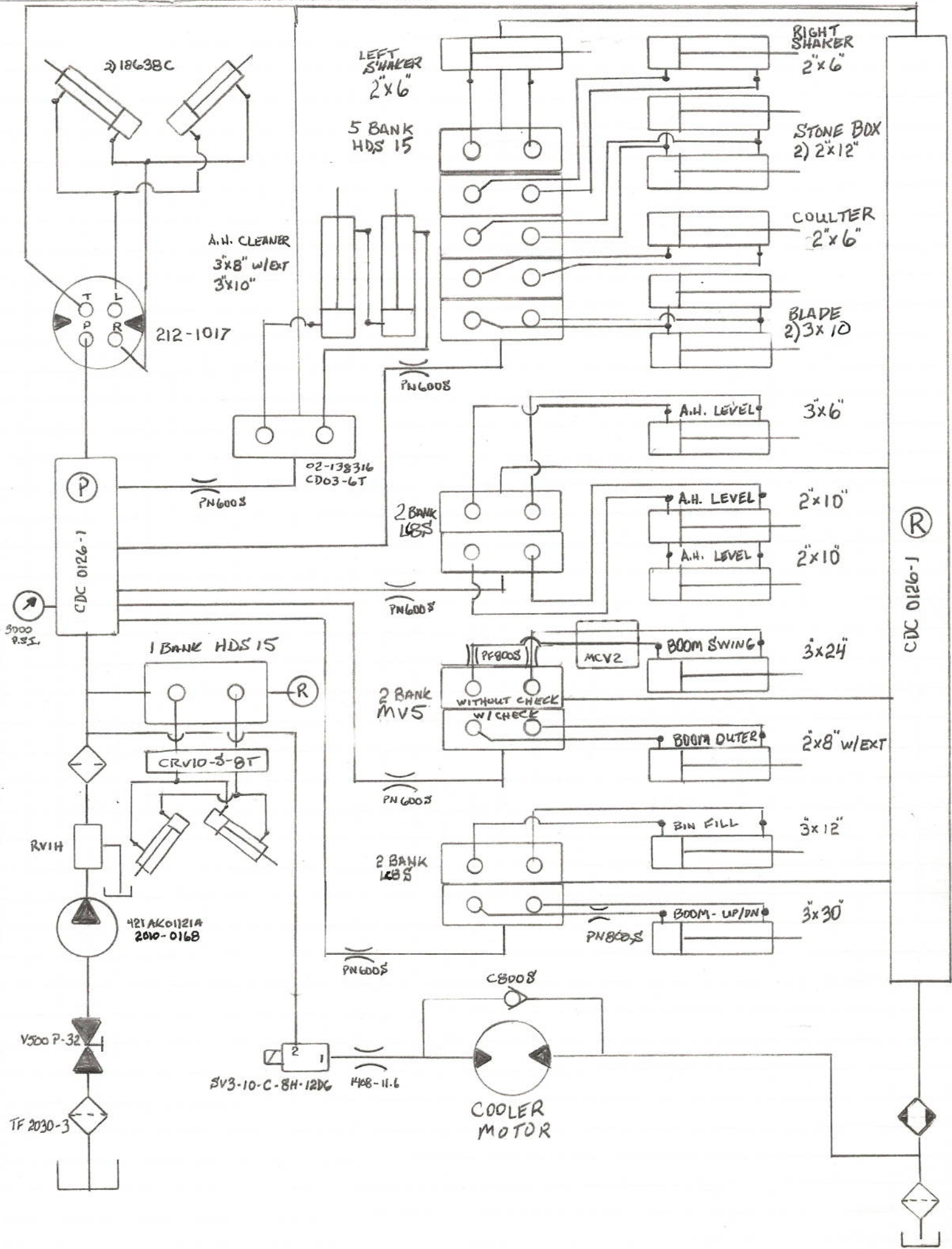
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DMZ-90
FT150
FT150



1808B
 HEARTLAND
 4RSPH65LAH







4" FWM
 TF2540-3
 2 1/2" 90 ST EL
 2 1/2" CLS NIP
 2 BVL20-40B
 FT 250
 35VQTBS

3" x 2" BUSH
 2" CLS NIP
 V500P-32
 FT 200
 ORF32-90
 ZDF2215-25-5
 W43-32PK
 2" 90 ST EL
 2" CLS NIP
 V500P-32
 2" CLS NIP
 2" TEE

2" x 1 1/4" BUSH
 FT125
 TANDEM 6.4

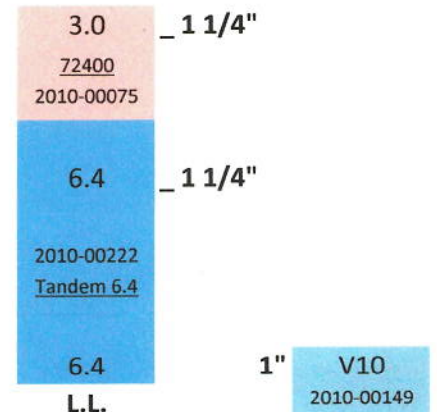
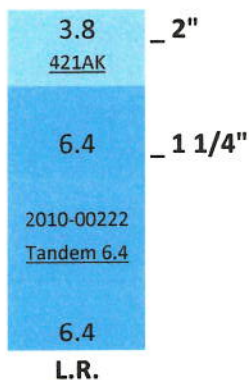
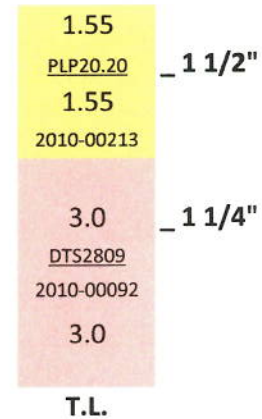
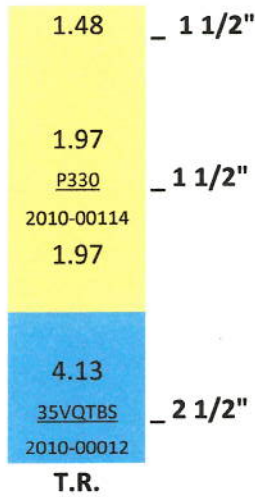
2" 90 ST EL
 2"x1/14" BUSH
 FT125
 TANDEM 3.0

3" FWM
 TF2030-3
 2" CLS NIP
 V500P-32
 2" 90 ST EL
 FT 200
 421 AK

3" FWM
 TF2030-3
 2" 90 ST EL
 2" CLS NIP
 V500-P32
 2" CLS NIP
 2" TEE
 2" x 1 1/2" BUSH
 FT 150
 P330
 2" 90 ST EL
 2"x1 1/2" BUSH
 FT 150
 P330

3" FWM
 TF2030-3
 2" 90 ST EL
 2" CLS NIP
 V500P-32
 2" CLS NIP
 2" TEE
 2"x1 1/2" BUSH
 FT 150
 PLP20.20
 2" 90 ST EL
 2"x1" BUSH
 FT 100
 V10
 TANDEM 6.4

4"x2" BUSH
 2" CLS NIP
 V500P-32
 FT 200
 ORF32-90
 ZDF2215-25-5
 W43-32PK
 2" 90 ST EL
 2" CLS NIP
 V500P-32
 2" CLS NIP
 2" TEE
 2"x1 1/4" BUSH
 2"x11/4" BUSH
 FT 125
 72400
 TANDEM 6.4



Durst 4PD09 2023-0207 4 Hole G.B.
 19310 2023-0192 Drive plate

Cummins QSX15 520 H.P. Tier 3

Heartland #17083

4" FWM
 TF2540-3
 2 1/2" 90 ST EL
 2 1/2" CLS NIP
 2 BVL20-40B
 FT 250
 35VQTBS

3" x 2" BUSH
 2" CLS NIP
 V500P-32
 FT 200
 ORF32-90
 ZDF2215-25-5
 W43-32PK
 2" 90 ST EL
 2" CLS NIP
 V500P-32
 2" CLS NIP
 2" TEE

2" x 1 1/4" BUSH 2" 90 ST EL
 FT125 2" x 1/4" BUSH
 FT125
 TANDEM 6.4 TANDEM 3.0

3" FWM
 TF2030-3
 2" CLS NIP
 V500P-32
 2" 90 ST EL
 FT 200
 421 AK

3" FWM
 TF2030-3
 2" 90 ST EL
 2" CLS NIP
 V500-P32
 2" CLS NIP
 2" TEE
 2" x 1 1/2" BUSH
 FT 150
 P330
 2" 90 ST EL
 2" x 1 1/2" BUSH
 FT 150
 P330

3" FWM
 TF2030-3
 2" 90 ST EL
 2" CLS NIP
 V500P-32
 2" CLS NIP
 2" TEE
 2" 90 ST EL
 2" x 1" BUSH
 FT 100
 V10
 2" x 1" BUSH
 2" x 1" BUSH
 2" x 1 1/4" 45 ST EL
 FT 125
 FT 125
 72400
 TANDEM 6.4
 TANDEM PARKER

1.48 - 1 1/2"
 1.97
 P330 - 1 1/2"
 2010-00114
 1.97
 3/8 - 13T
 4.13
 35VQTBS - 2 1/2"
 2010-00012
 T.R.

3.8 - 2"
 421AK
 7/8 13 TOOTH
 6.4 - 1 1/4"
 2010-00222
 Tandem 6.4
 6.4
 L.R.

1.55
~~P330~~ - 1 1/2"
 1.55
 2010-00213 3/4" - 11T
 3.0 - 1 1/4"
 DTS2809
 2010-00092
 3.0
 T.L. 1" 15T

V10 - 1" → SHOULD HAVE BEEN SEEN 2010-00148
 2010-00149
 3.0 - 1 1/4"
 72400
 2010-00075 (3/8 - 13tooth REMOVE COUPLER USE
 6.4 - 1 1/4" 1-2013-0391 COUPLER
 (1" 15 TOOTH)
 2010-00222
 Tandem 6.4
 6.4
 L.L. 1-2013-0392 COUPLER PIN

Durst 4PD09 2023-0207 4 Hole G.B.
 19310 2023-0192 Drive plate

Cummins QSX15 520 H.P. Tier 3

Heartland #17083

V10 2010-00149