AIR CART

SERVICE MANUAL

GI-043V2



Canada: (Head Office)
CNH Canada Ltd.
1000 - 71 St. E.
P.O. Box 1928
Saskatoon, Sask.
S7K 3S5

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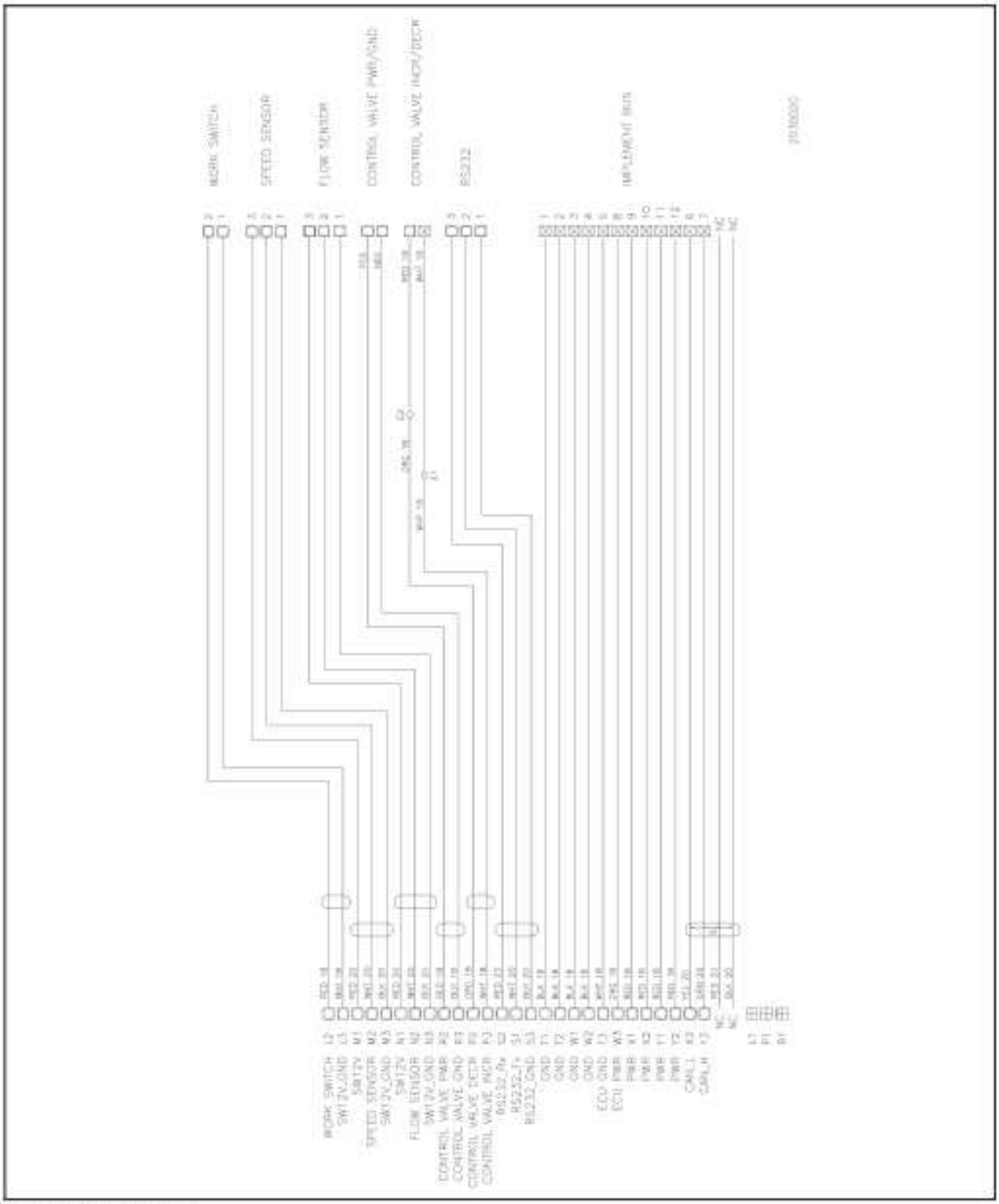
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PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
Meters not turning - variable drive.	1. Intended rate is not entered.	1. Enter the intended rate.
	2. Drive coupler is not connected.	2. Connect the drive to roller end.
	3. No hydraulic pressure.	3. Check the hydraulic pressure switch. Turn on the fan to create oil pressure. Inspect and clean the hydraulic filter.
	4. The calibration number is not entered or is set to zero.	4. Do calibration.
	5. Electronic problem.	5. Electronic Service, Section 4.
	6. Fuse has blown.	6. Replace the fuse and check for cause of shorting.
	7. Fuse has blown.	7. Check for restricted hydraulics flow (plugged filter, faulty flow control valve).
	8. Wrong meter roller causes fuse to blow. Meters turning too fast.	8. Install new meter roller, next size up.
	9. Motor seized.	9 Check motor bearing. Repair as required.
	10. No speed input.	10. Check sensor is clean and working correctly.
	11. Meter box shaft sensor is not installed correctly.	11. Check meter shaft sensor, reinstall if incorrectly installed.
	12. Meter roller is seized in housing. This may occur when treated canola seed is left in the tank during a prolonged period of damp rainy weather.	12. Dump the contents of the tank, and remove the meter roller. Allow the roller to dry out (1 to 2 days) and reinstall.

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WIRING DIAGRAMS



NH3 Wiring Diagram

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4. Determine the Recommended Application Rate Range for Peas from table on page 8-11.

Recommended Application Rate Range = $\frac{50 - 66 \text{ mL}}{10 \text{ kg}}$

5. Determine the Treatment Rate.

Add water to bring the application rate within the upper end of the Recommended Application Rate Range.

Converted Label Rate of Flowable Fungicide & Seed Colorant (Step 3) + Water = $\frac{50 - 66 \text{ mL}}{2720 \text{ kg}}$ Recommended Application Rate Range

$\frac{1.80 \text{ mL}}{10 \text{ kg}} + \frac{54 \text{ mL}}{10 \text{ kg}} = \frac{55.80 \text{ mL}}{10 \text{ kg}}$

This number was selected because it is within the recommended application rate range and it gives a 1:30 treatment to water ratio for easy mixing. Enter this Treatment Rate Number into FlexControl

NOTE: This treatment number is in units of mL/10 kg.

6. Convert the amount of water needed for dilution into mL/2720 kg.

Divide mL and kg by 10 to obtain mL/1 kg.

$\frac{54 \text{ mL}}{10 \text{ kg}} \div \frac{10}{10} = \frac{5.4 \text{ mL}}{1 \text{ kg}}$

Multiply mL and kg by 2720 to obtain mL/2720 kg.

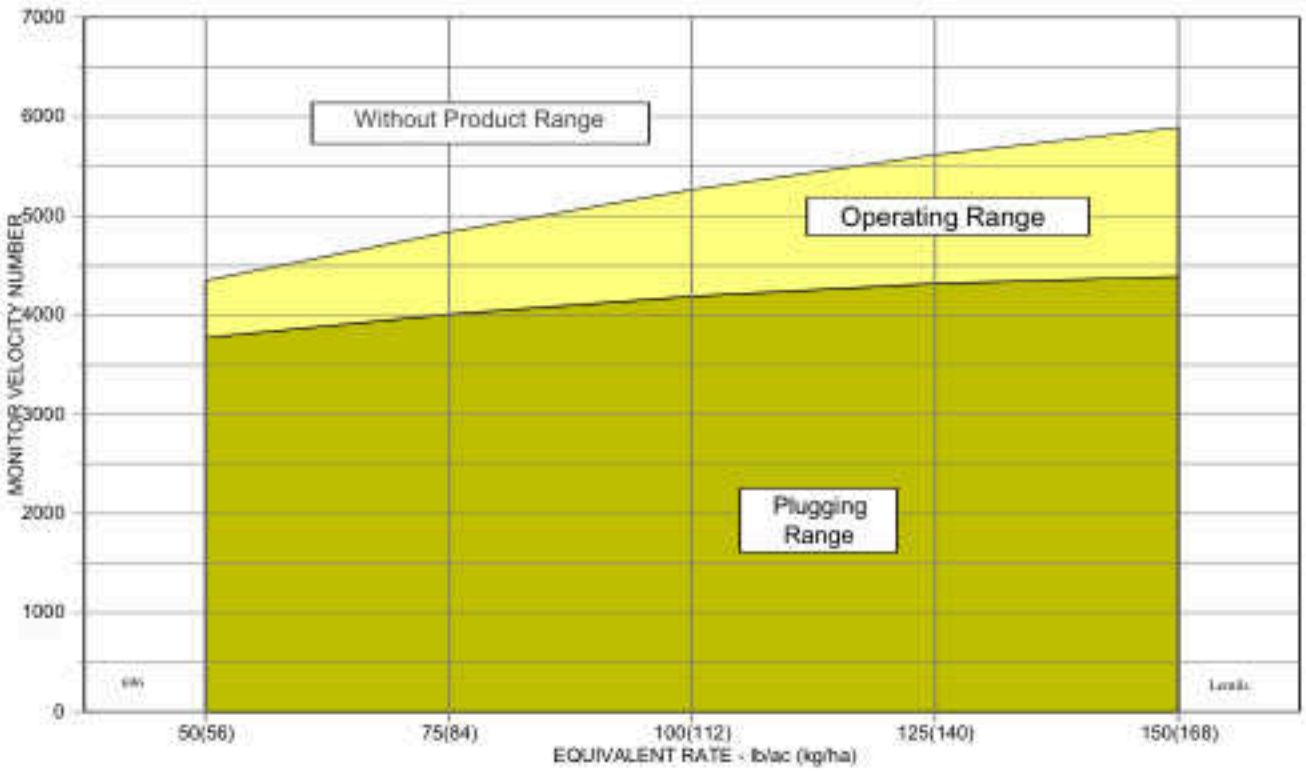
$\frac{5.4 \text{ mL}}{1 \text{ kg}} \times \frac{2720}{2720} = \frac{14{,}688 \text{ mL}}{2720 \text{ kg}}$ Amount of water needed for dilution. This number will be used in Step 7.

7. Determine dilution.

Determine how much treatment is needed.

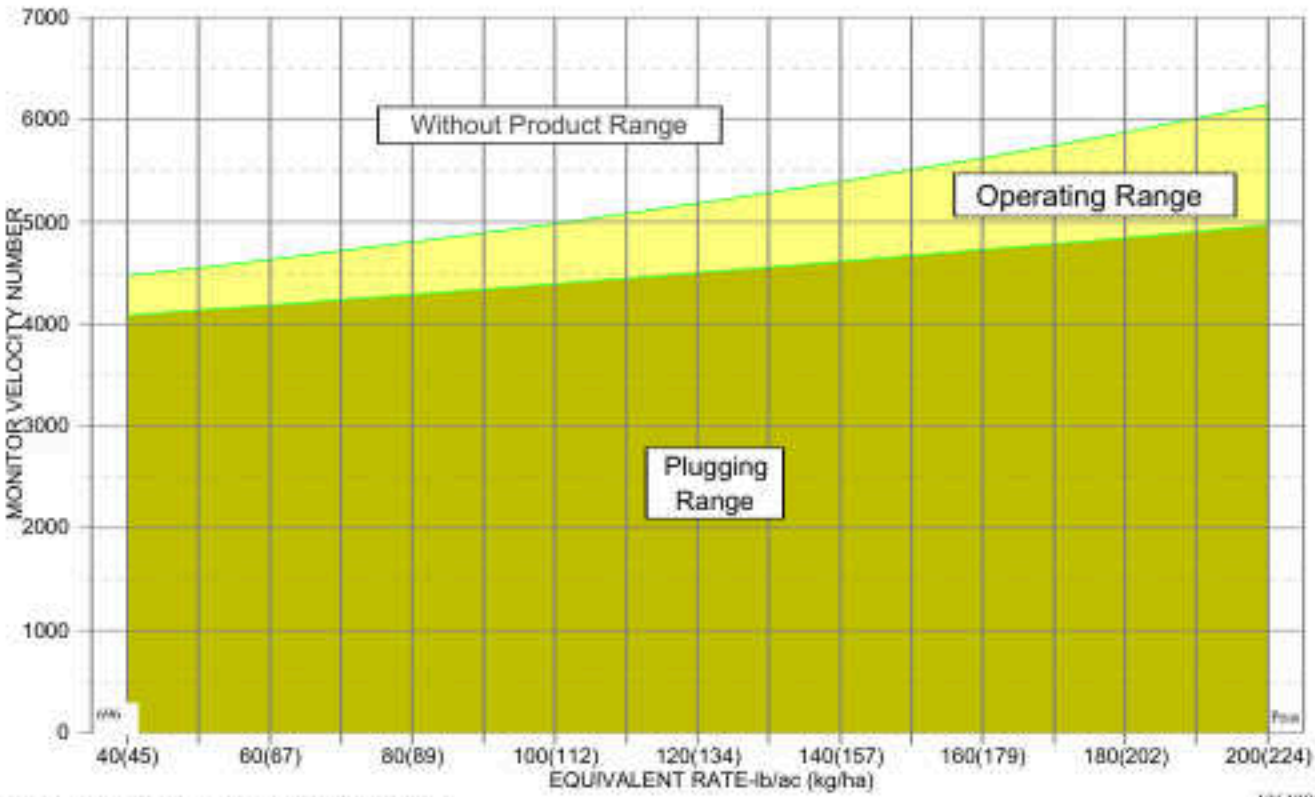
The following amount of water, Seed Colorant, and the Flowable Fungicide should be added to 1 container (80 g) of the Powdered Inoculant.	Flowable Fungicide	435 mL (from Step 1)
	Powdered Inoculant	1 container
	Water	14.69 liters (14,688 mL) (from Step 6)
	Seed Colorant	54.4 mL (from Step 1)

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Suggested Velocity Numbers for Lentils

196107C



Suggested Velocity Numbers for Peas

196108C

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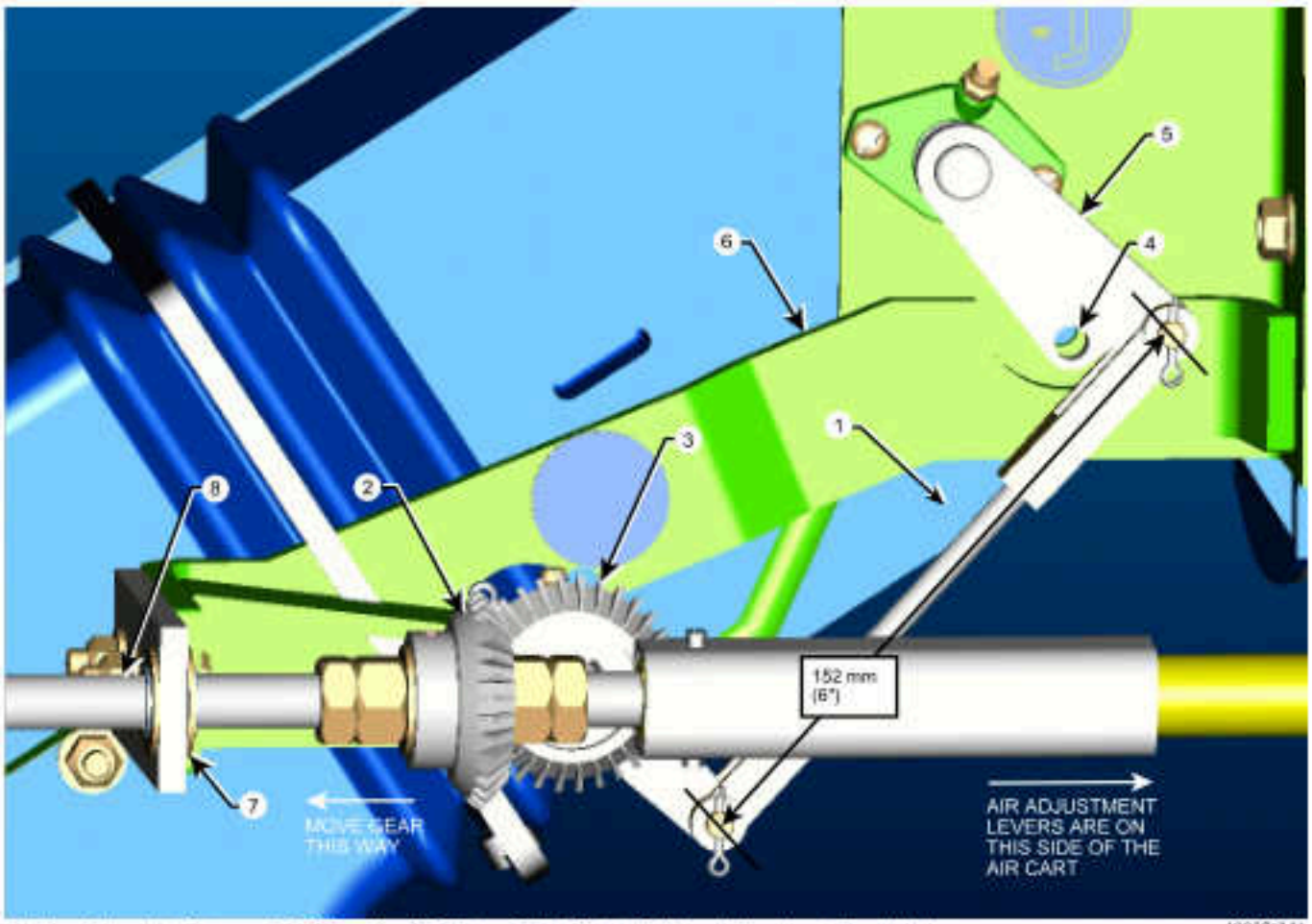
12. Refer to the figure below for each tank and follow these steps:

- Ensure the dimensional length of the drive linkage is 152 mm (6").
- Remove 'E' clip (7) from damper control rod (8) and loosen adjustment bolts (1). Pull the drive gear (2) away from the driven gear (3).
- Move the air adjustment lever on the left side of the cart to the setting number '2'.
- Line up the hole (4) in the linkage arm (5) with the hole in the mount plate (6). This will ensure the air damper is fully closed.
- Engage the drive gear (2) and reinstall 'E' clip (7) on the damper control rod (8).
- Check that the air adjustment lever is still at '2'.

NOTE: If additional tension is required to keep the miter gears engaged, use the groove closest to the drive gear and tighten the adjustment bolts.

- Without disturbing the position of the air adjustment lever, repeat this procedure for the right air damper.

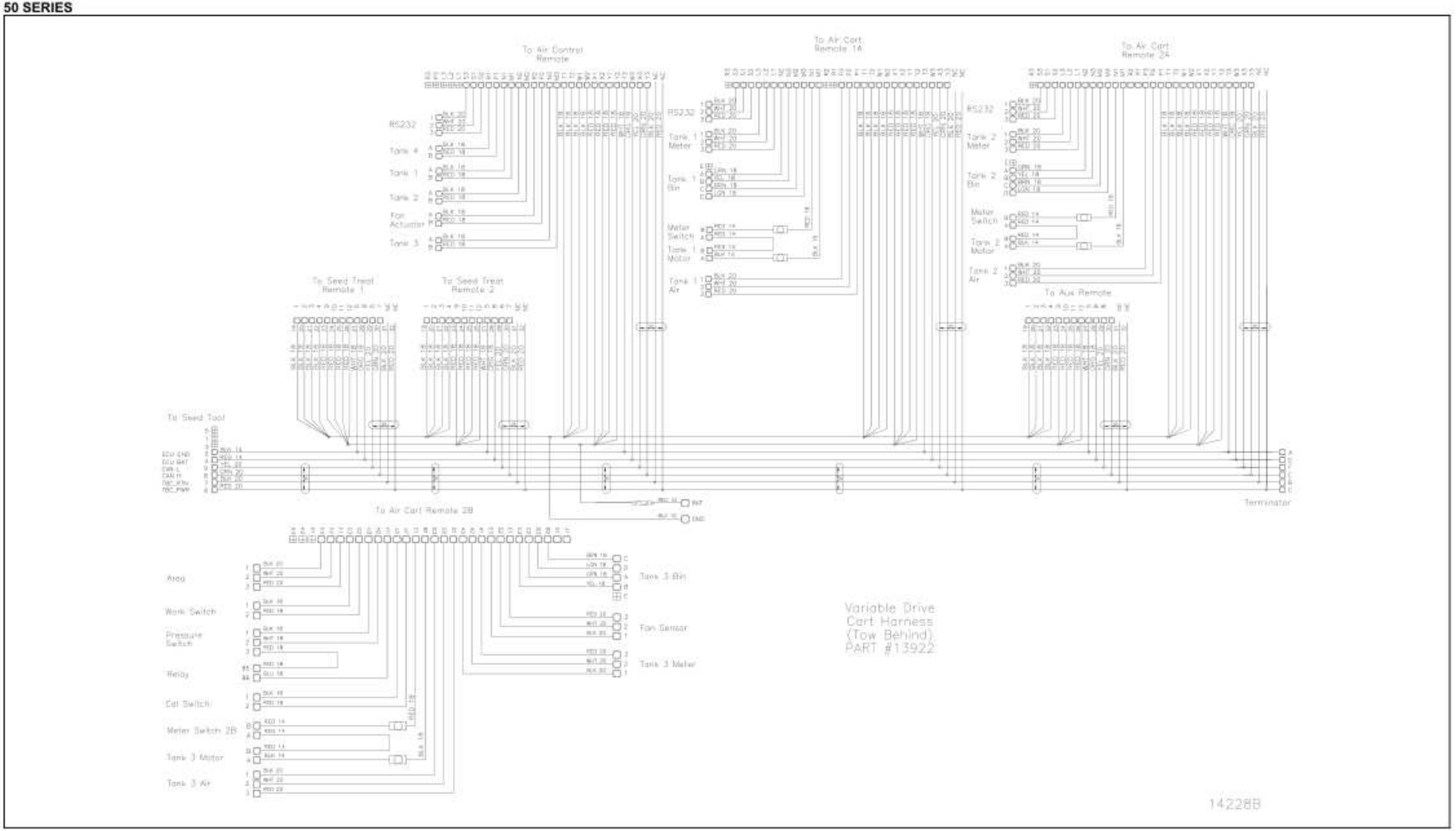
- Repeat this procedure for each tank.



Timing the Air Plenum Baffles (Left Side of Air Cart, Bottom View Looking Up) 198576M1

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50 SERIES



50 Series Tow Behind Variable Drive Wiring Diagram Showing Old Relay Connections

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