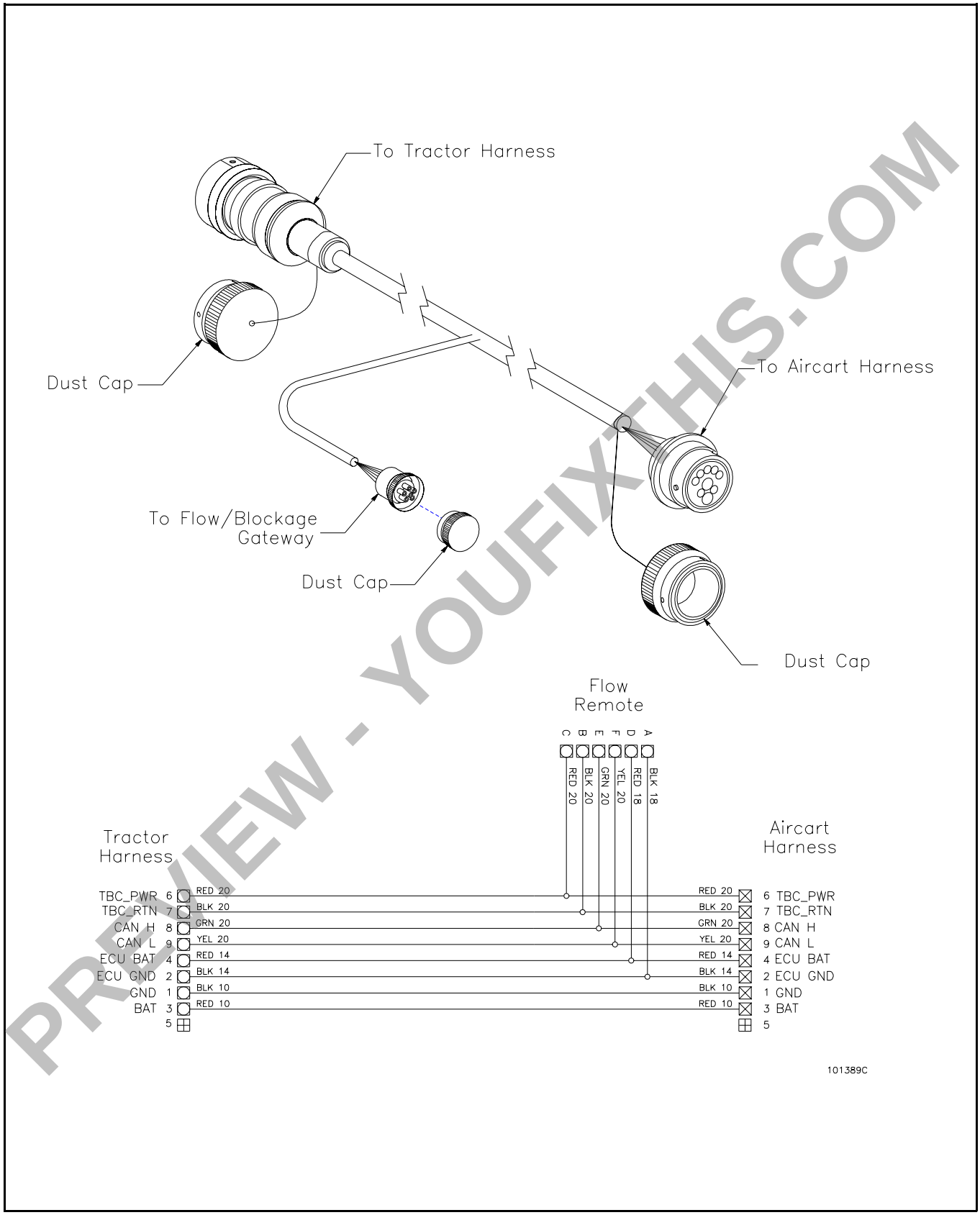
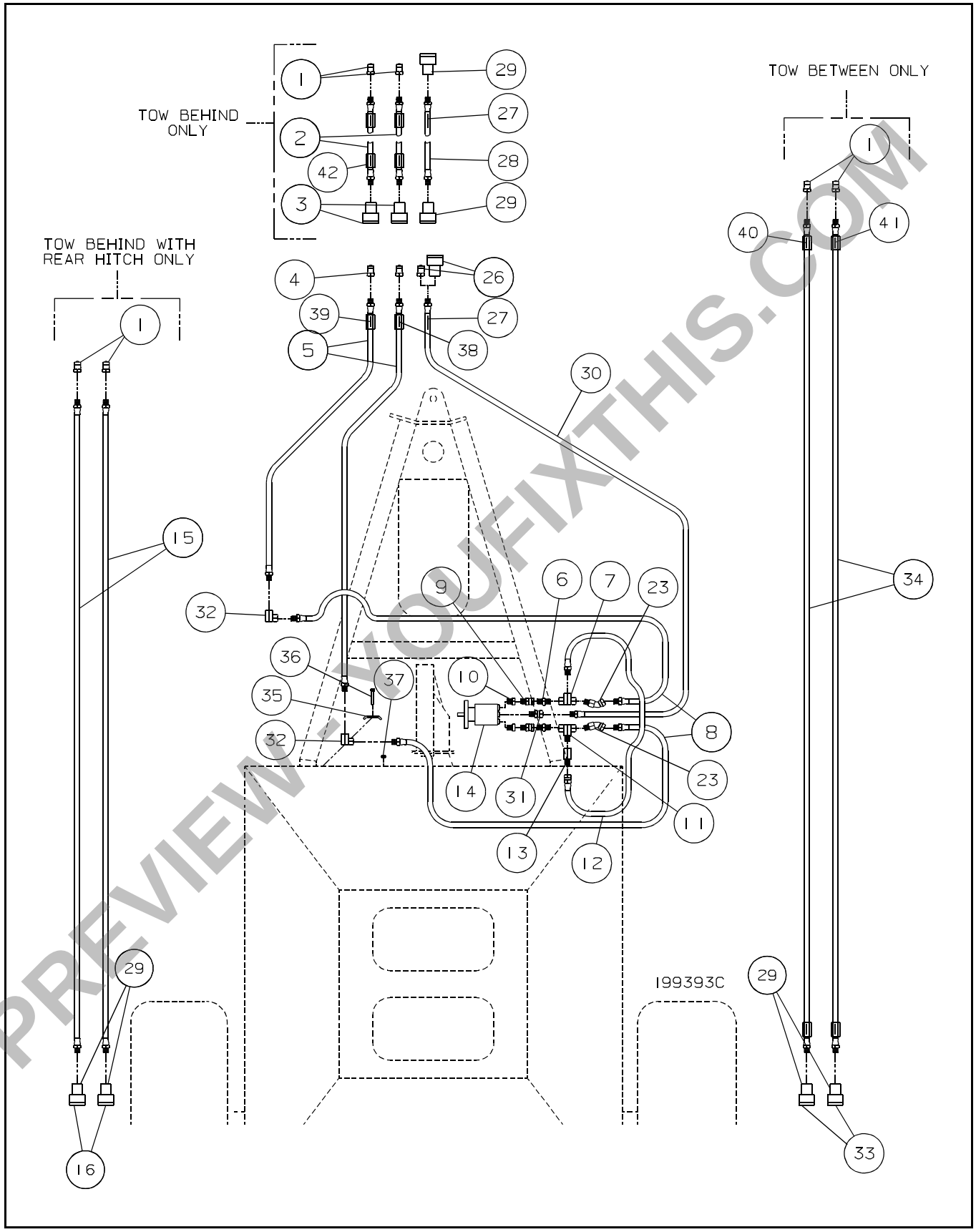


Tow Behind Seed Tool Harness - Harness may contain additional connections depending on configuration

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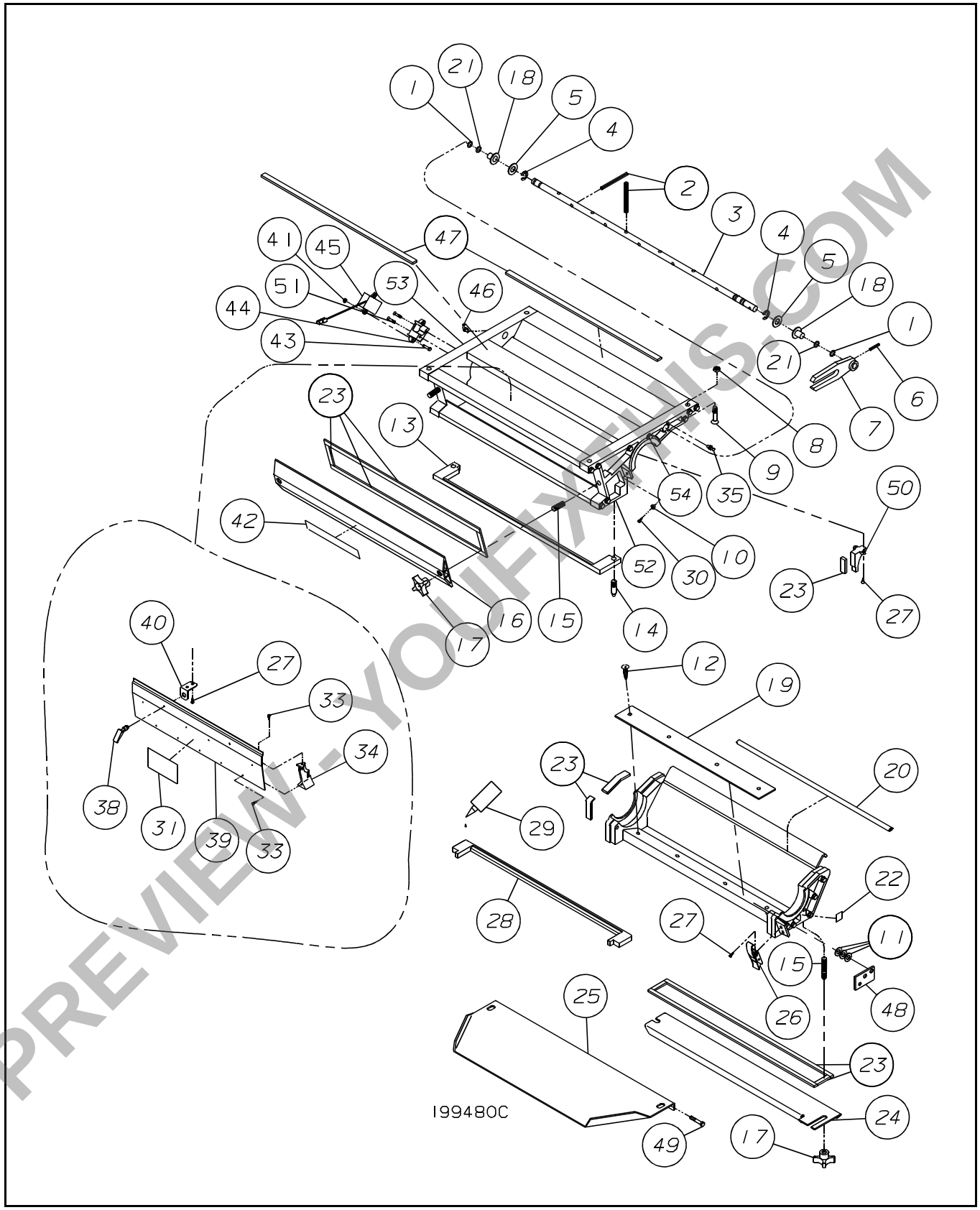
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Main Frame Hydraulics

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Meter Box Components

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	GRADE 2*				GRADE 5, 5.1, OR 5.2				GRADE 8 OR 8.2				L9 (ALLOY)			
	Dry **		Lubricated**		Dry **		Lubricated**		Dry **		Lubricated**		Head		Nut	
SIZE	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft
1/4 UNF	7.5	5.5	5.7	4.2	10.8	8	8.5	6.3	16.3	12	12.2	9	13.6	10	14.9	11
1/4 UNC	8.5	6.3	6.4	4.7	13.6	10	9.8	7.2	19	14	13.6	10	16.3	12	17.6	13
5/16 UNF	15	11	11	8	23	17	18	13	33	24	24	18	26	19	28	21
5/16 UNC	16	12	12	9	26	19	19	14	37	27	27	20	27	20	31	23
3/8 UNF	27	20	20	15	41	30	31	23	61	45	47	35	41	30	45	33
3/8 UNC	31	23	23	17	47	35	34	25	68	50	47	35	47	35	52	38
7/16 UNF	43	32	33	24	68	50	47	35	95	70	68	50	75	55	81	60
7/16 UNC	49	36	37	27	75	55	54	40	108	80	81	60	81	60	88	65
1/2 UNF	68	50	47	35	102	75	75	55	149	110	108	80	115	85	129	95
1/2 UNC	75	55	54	40	115	85	88	65	163	120	122	90	129	95	142	105
9/16 UNF	95	70	75	55	149	110	108	80	203	150	149	110	163	120	190	140
9/16 UNC	108	80	81	60	163	120	122	90	231	170	176	130	183	135	203	150
5/8 UNF	136	100	102	75	203	150	149	110	285	210	217	160	231	170	251	185
5/8 UNC	149	110	115	85	231	170	176	130	325	240	244	180	258	190	278	205
3/4 UNF	237	175	176	130	353	260	271	200	515	380	380	280	359	265	393	290
3/4 UNC	271	200	190	140	407	300	298	220	570	420	420	310	447	330	481	355
7/8 UNF	231	170	170	125	583	430	434	320	814	600	610	450	644	475	685	505
7/8 UNC	244	180	190	140	637	470	475	350	909	670	678	500	705	520	793	585
1 UNF	339	250	258	190	868	640	651	480	1234	910	922	680	746	550	1051	775
1 UNC	380	280	285	210	976	720	732	540	1383	1020	1031	760	949	700	1220	900
1-1/8 UNF	475	350	366	270	1071	790	800	590	1749	1290	1315	970	1390	1025	1559	1150
1-1/8 UNC	542	400	407	300	1207	890	909	670	1953	1440	1464	1080	1559	1150	1797	1325
1-1/4 UNF	678	500	515	380	1519	1120	1139	840	2468	1820	1844	1360	1898	1400	2170	1600
1-1/4 UNC	746	550	570	420	1681	1240	1261	930	2726	2010	2048	1510	2170	1600	2373	1750
1-1/2 UNF	1180	870	881	650	2644	1950	1980	1460	4285	3160	3214	2370	3932	2900	4407	3250
1-1/2 UNC	1329	980	990	730	2983	2200	2224	1640	4827	3560	3621	2670	4475	3300	4949	3650

Bolt Torque Information

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically. Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

** *"Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.*

* *Grade 2 applies for hex caps (not hex bolts) up to 6" (152 mm) long. Grade 1 applies for hex cap screws over 6" (152 mm) long, and for all other types of bolts and screws of any length.*

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DISPLAY MONITOR ALARMS

Operational Alarm Messages

OPERATIONAL ALARM MESSAGES	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
Console Needs Width! Press SETUP key...	1. The console does not have the implement width entered into it.	1. Press SETUP and select **Monitor Setups**. Set the implement width.
Fan Is Fast!	1. The fan speed is above the operator set limit.	1. Slow down the fan or increase the high fan alarm threshold. It is recommended that you do not run the fan over 5500 rpm.
Fan Is Slow!	1. The fan speed is below the operator set limit.	1. Speed up the fan or decrease the low fan alarm threshold. Running the fan too slow can cause blockages to occur.
Tank<#> Bin Is Low!	1. The product in the indicated tank is low.	1. Fill the tank if the alarm is occurring too soon. 2. Move the sensor to a lower position.
Tank<#> Rate Is Out Of Range!	1. The application rate on the indicated tank is more than the operator specified % different from the intended rate.	1. Check the Meter Switches on the cart, the motors and cables. Also check the hydraulic system on variable drive carts. 2. The 'Tune' setup for the indicated tank may be set too high or too low. The alarm range can be increased or turned off completely. 3. Check that the displayed ground speed is not erratic.

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METER BOX SEAL REPLACEMENT

NOTE: The procedure shown is for 40 and 50 series meter boxes. You will need new seals and a tool, GL-117A (tool for 28" meter box only). The tool is available from the parts department.

1. Remove meter boxes from cart.

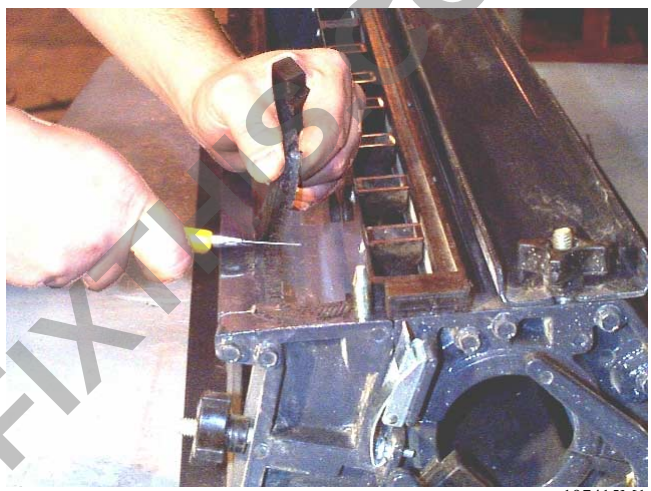
   - Remove the four bolts at each corner of the meter box. Do not remove the bolts that set the distance between the tank and the meter box.

2. Remove the seal from the meter box.

   - Remove the meter box tank drain plate.

   - Remove the seal using a sharp knife as shown.

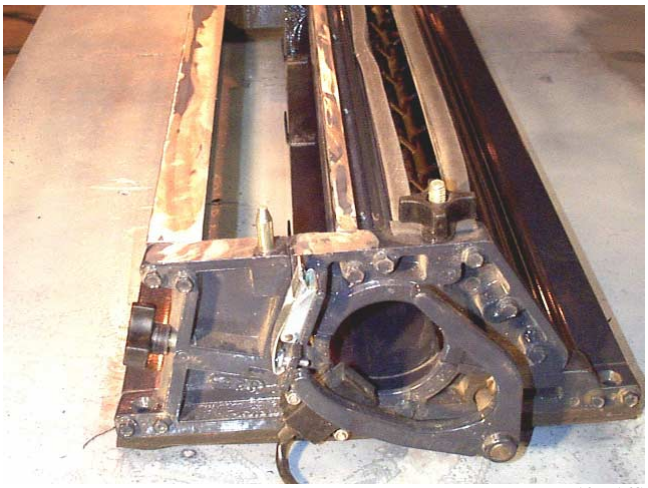
   - After removing the seal remove any remaining patches and glue with sand paper using a sanding block. Use 180 grit sand paper or higher. Take care not to gouge the meter box.



Meter Box Seal Removal 197415M1

CAUTION! When using solvents and glue, be sure to follow the manufacturer's recommended safety precautions.

3. Clean the surface thoroughly with acetone. The surface must be clean for the glue to properly stick. Wipe the acetone off with a clean cloth.



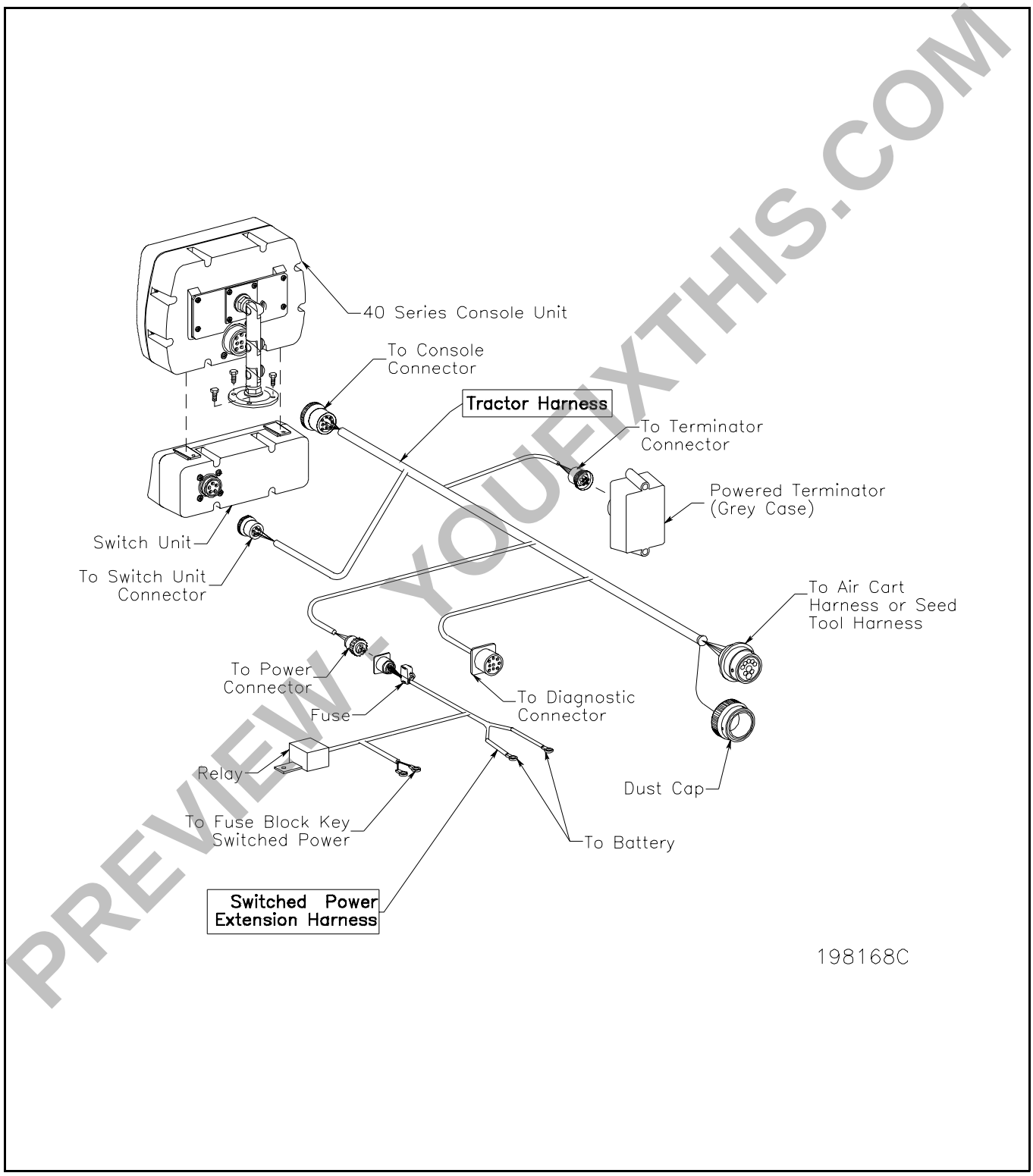
Meter Box - Clean 197716S

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SYSTEM DIAGRAMS

COMMON COMPONENTS



Console, Tractor Harness, and Optional Switched Power Extension Harness

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TROUBLESHOOTING

METERING SYSTEM

PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
Product flows when not being metered.	1. Transition plugs are not in place on unused runs.	1. Snap plugs into unused manifold transitions.
	2. Leakage around the roller from damage or poor fit.	2. Check the roller installation.
	3. Extreme machine vibration.	3. Determine and correct source of vibration.
	4. Meter box baffle panel is not in place or improperly mounted.	4. Check baffle panel and baffle mounts for damage. Replace in proper position.
	5. Excessive air velocity.	5. Reduce the fan RPM.
No product is being metered.	1. No product is in the tank.	1. Place sufficient product in the tank to cover the meters.
	2. Agitator is blocked.	2. Clear the blockage of product around agitator. Screen the product before filling tanks.
Meters not turning.	1. Master Switch is OFF.	1. Turn the Master Switch to ON.
	2. Tillage out of the ground.	2. If connected, the Work Switch is activated.
	3. Work Switch out of adjustment.	3. Adjust the Work Switch.
	4. Faulty Work Switch.	4. Service or replace.
	5. Tank Switches are OFF.	5. Turn the switch to ON.
	6. Power is not connected.	6. Check all power connections.

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TANK CAPACITIES AND AIR CART DIMENSIONS AND WEIGHTS

1330 PLUS AIR CARTS

Type	Tow Behind	Tow Between	Tow Between 3-Point
Length (With Auger)	5.66 m (18' 7")	5.59 m (18' 3")	
Height	2.87 m (9' 5")	2.87 m (9' 5")	
Volume- 95% Full			
Front	1,832 L (52 bu)	1,832 L (52 bu)	
Rear	2,749 L (78 bu)	2,749 L (78 bu)	
Weight - Empty	2,000 kg (4400 lb)	1,900 kg (4200 lb)	
Weight - Loaded (Wheat @ 48lb/ft^3)	3,450 kg (7800 lb)	3,450 kg (7800 lb)	
Rear Axle - Empty	1,513 kg (3,335 lbs)	1,513 kg (3,335 lbs)	6,700 kg (14,771 lbs)
Rear Axle - Loaded (Estimate)	4,090 kg (9,018 lbs)	4,330 kg (9,547 lbs)	9,518 kg (20,983 lbs)
Front Hitch/axle - Empty	490 kg (1,080 lbs)	408 kg (900 lbs)	-1,123 kg (-2,476 lbs)
Front Hitch/axle -Loaded (Estimate)	1273 kg (2,807 lbs)	951kg (2,097 lbs)	-580 kg (-1,278 lbs)

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TANK SERVICE

MAINTENANCE

1. Be certain the hatch lid seals seat properly.
2. Keep the hatch seal lid contact surface clean.
3. Wipe the sight windows clean with a soft cloth as required.

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METER BOX COMPONENTS

1330 PLUS

REF	DESCRIPTION	REF	DESCRIPTION
1	O-RING .375 ID .563 OD .0938	26	LATCH CLAMP OVER CENTER
2	ROLL PIN .188 X 3 BLK	27	SCRW TAP #8-32X.375 PH D PI
3	AGITATOR SHAFT 130BU METER BOX	28	POLY SEAL REAR HALF METER BOX
4	SNAP RING 'E' .39 ID .042 TK	30	SCRW TAP #8-32X.75 FH D PI YZD
5	BRG THRUST .5 ID .82 OD .09	31	DECAL BAFFLE PLATE
6	ROLL PIN .188 X 1 BLK REG	33	SCRW MCH #6-32X.375 PH YZD
7	AGITATOR CAM FOLLOWER	34	DIVIDER BLD .75BAF 130BU M BOX
8	LOCKNUT .313 UNC GR B YZD	35	GREASE ZERK STR .25NF TAPER ^ YZD
9	SCRW CAP .313-18X1.75 YZD FH ^ HX-SKT	38	LATCH SWELL SOUTHCO SERIES 81
10	LATCH BUTTON KEEPER SOUTHCO	39	BAFFLE PNL 3/4" CHR 130B MTR
11	P.WASHER .313 ID YZD	40	LATCH BRACKET SOUTHCO(FOR8192)
12	SCRW TAP #8-32X.5 PH D PII SS	41	LOCKNUT #10-32 SS NYLON LOCK
13	POLY SEAL METER BOX FRONT HALF	42	DECAL INSPECTION PORT
14	STUD .375 X 1.59 UNC GR5 SS	43	SCRW MCH #10-32X.625 HH SS
15	STUD .375 X 2 UNC GR5 SS	44	BRACKET SNSR MOUNT INJMLD LT
16	AIR INSPECTION COVER, 19" MTR	45	SENSOR HALL EFFECT DIFF
17	KNOB PLSTC 4-PRONG .375 UNC	46	GREASE ZERK 45DEG .25NF TAPER
18	BUSHING FLANGED IGLIDE CHMF ID	47	SPONGE .75W X .5 THICK
19	WEAR PLT/SPCR 1/4" MTR 19"	48	PIVOT PLATE CLEANOUT 130BU
20	SEAL METER BOX BULB TYPE	49	SCRW TAP .25-20X1 HWH D YZD
21	O-RING .375 ID .5 OD .063	50	POLY DRAFT STOP METER BOX MOUNT
22	DECAL TANK DRAIN	51	SCRW TAP #8-32X.75 FH D PI YZD
23	SPONGE .5W X .375 THICK	52	MTR BOX SIDE PANEL TOP LHS
24	CLEANOUT COVER, METER BOX 130B	53	MTR BOX SIDE PNL TOP RHS 50SER
25	CLEANOUT DOOR LONG 130 BUSHEL	54	SCRW TAP #14X2 HWH AB SQ YZD

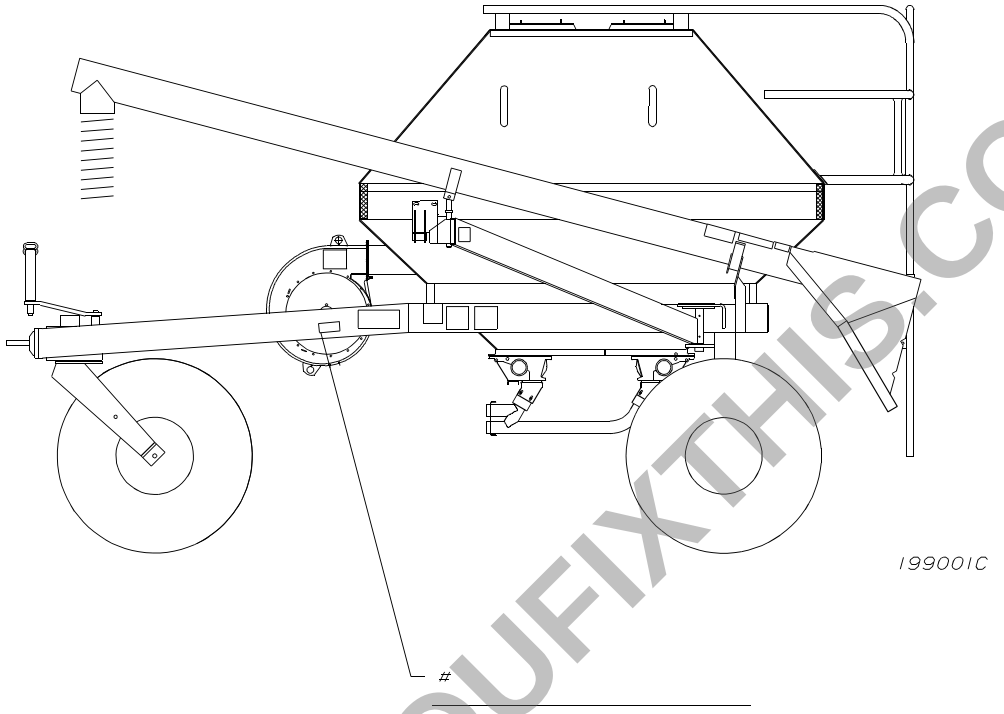
Meter Box Components

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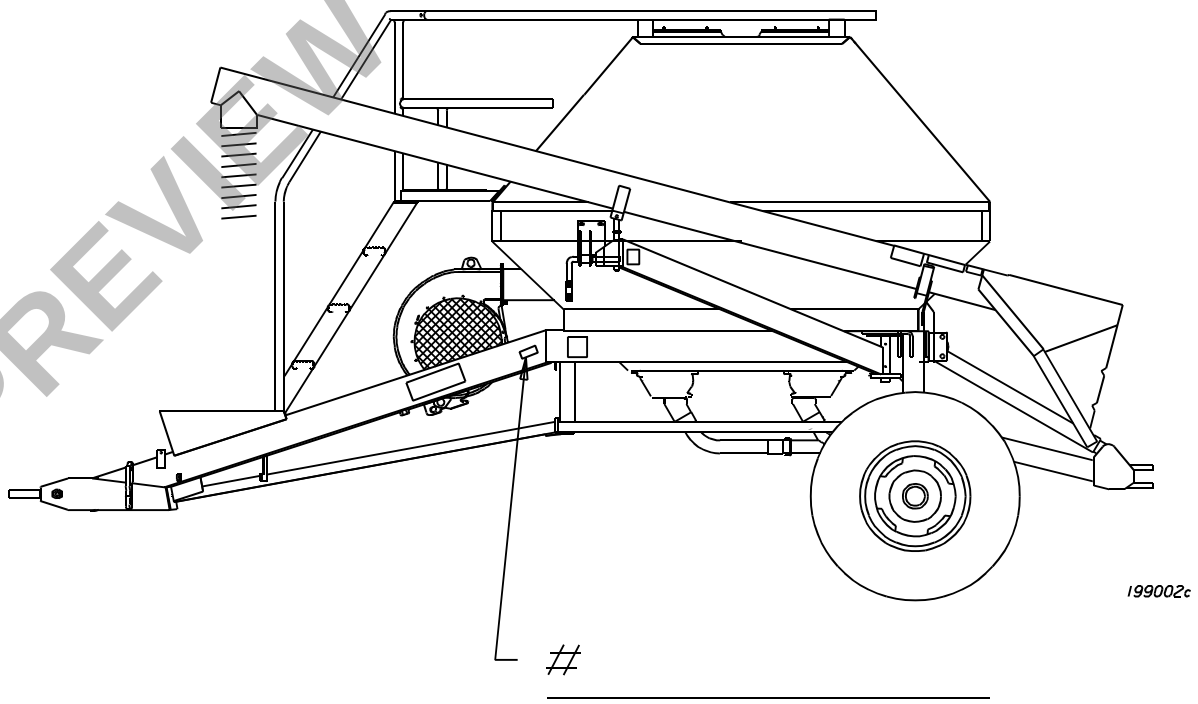
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1330 Plus

TOW BEHIND AIR CART



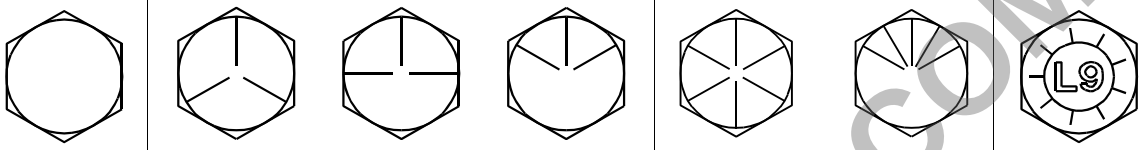
TOW BETWEEN AIR CART



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BOLT TORQUE INFORMATION

	GRADE						
	1 OR 2	5	5.1	5.2	8	8.2	L9 (ALLOY)
SAE MARKINGS FOR BOLTS AND CAP SCREWS							
SAE MARKINGS FOR HEX NUTS	**2**	**5**			**8**		**L9 (ALLOY)**
							

Bolt and Nut Grade Information

1. Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.

2. Make sure the fasteners threads are clean and that thread engagement is started. This will prevent them from failing when being tightened.

3. Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

4. The L9 (Alloy) fasteners torque values are for a bolt, nut, and two washers.

NOTE: When using L9 (Alloy) fasteners, do not use the values in this table for tapped holes.

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MECHANICAL DRIVE

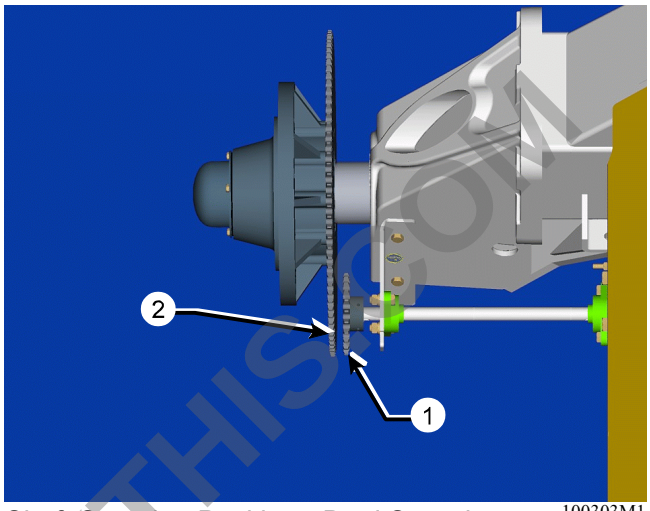
GENERAL INFORMATION

1. Check alignment of Drive 1 and Driven 1 sprockets. If the sprockets are not alignment, premature master clutch failure may result.

   - To align the sprockets, loosen the locking collars and slide along the drive shaft. Once the alignment has been achieved, re tighten the locking collars.

Dual Stranded Chain Only:

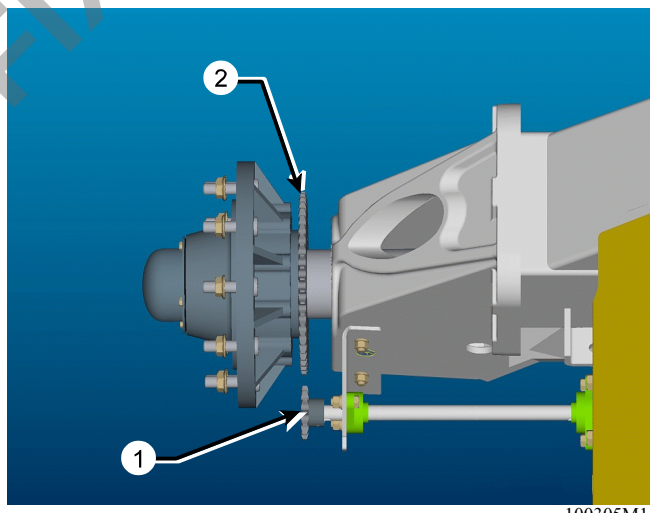
Position the drive shaft sprocket (1) against the wheel drive sprocket (2) so it will engage the drive chain.



Shaft Sprocket Position - Dual Strand 100303M1

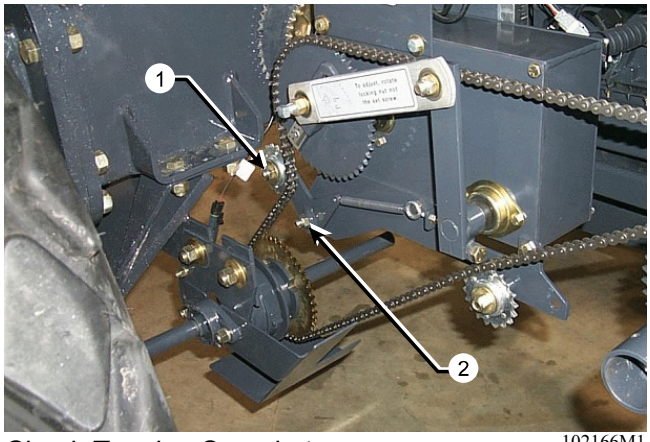
Single Stranded Chain Only:

Position the drive shaft sprocket (1) so that it aligns with the wheel drive sprocket (2).



Shaft Sprocket Position - Single Strand 100305M1

2. Check that the tension sprocket (1) has free movement, and is not corroded or bent. A damaged or misaligned tension arm and sprocket will also cause unnecessary stress on the drive system. If the tension sprocket is not in line with the drive chain, use washers on the main mount bolt (2) to position it correctly.



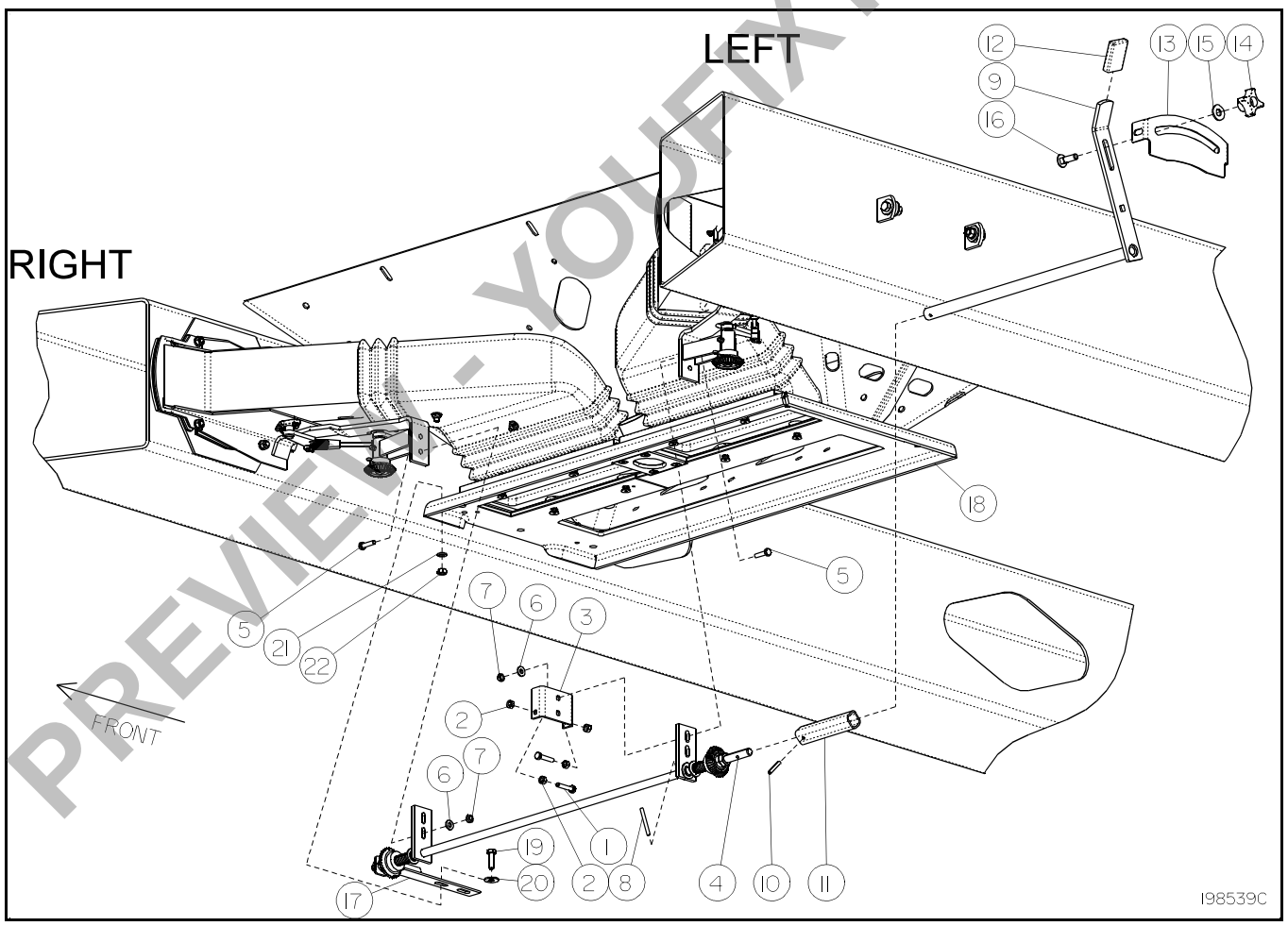
Check Tension Sprocket 102166M1

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

- Insert the roll pin (8) a distance of 13 mm (1/2") into the damper control rod (4). The roll pin will be used as a position stop in between the two stop bolts (1).
- Bolt the right side of the damper control rod (4) to the air cart. The end with the longest threads goes to the left side of the cart. Use two 1/4" x 1" bolts (5), washers (6), and locknuts (7).
- Install the two 1/4" x 1 1/4" all-thread bolts (1) and four nuts (2) into the shaft rotation adjustment bracket (3). These bolts will be adjusted later. The roll pin should be placed vertically between the bends in bracket (3).
- Bolt the shaft rotation adjustment bracket (3) and the left side of the damper control rod (4) to the air cart. Use two 1/4" x 1" bolts (5), washers (6), and locknuts (7).
- Insert the new damper adjustment lever (9) through the coupling tube (11). Attach the coupling tube (11) and the adjustment lever (9) to the control rod (4). Use a 3/16" x 1 1/4" roll pin (10).
- Install the rubber handle (12) onto the new adjustment lever (9).
- Bolt the original air damper gauge (13) to the new damper adjustment lever (9). Use the original thumb screw (14), washer (15), and bolt (16), that were removed earlier.
- Bolt the shaft retainer (17) to the meter box mount plate (18). Use two 5/16" x 1" bolts (19), plate washers (20), lockwashers (21), and nuts (22).
- Fasten the original air damper gauge (13) to the frame.
- Repeat this procedure for each tank.

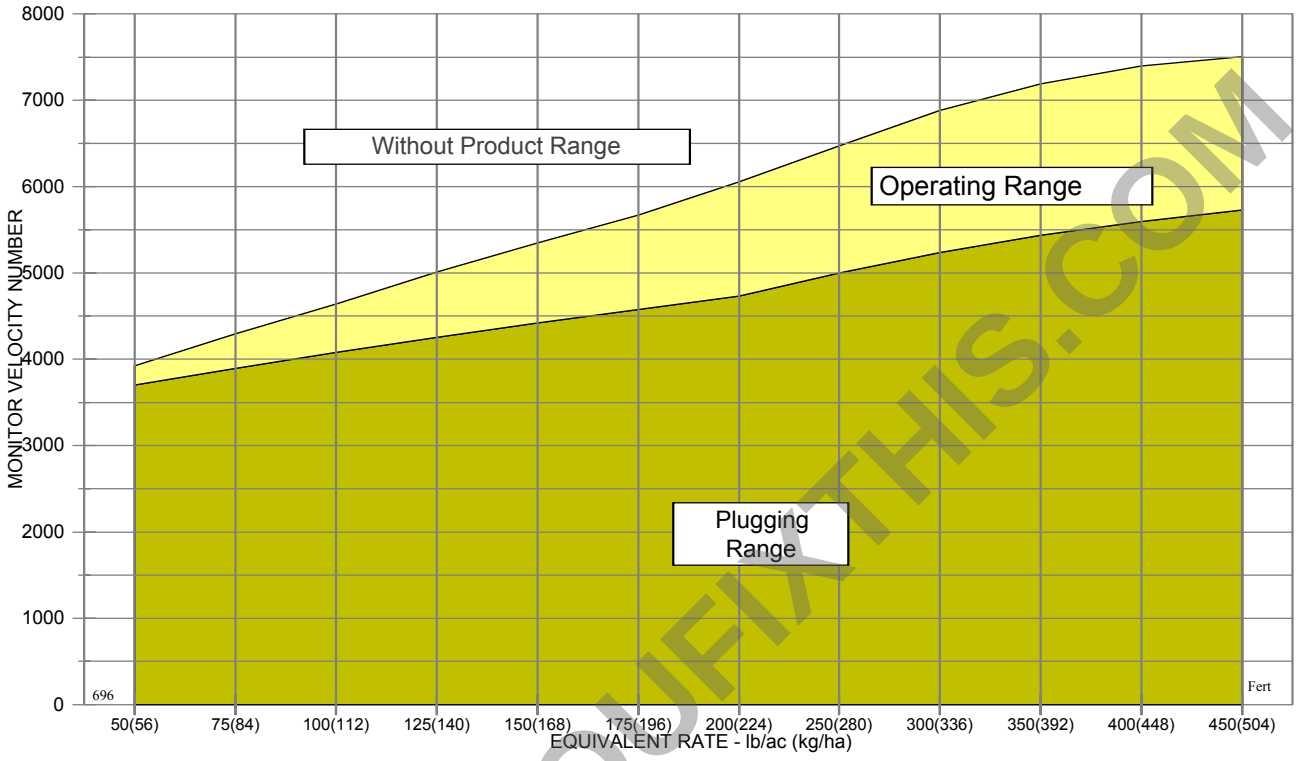


Installing the Baffle Control (Tank not Shown for Clarity)

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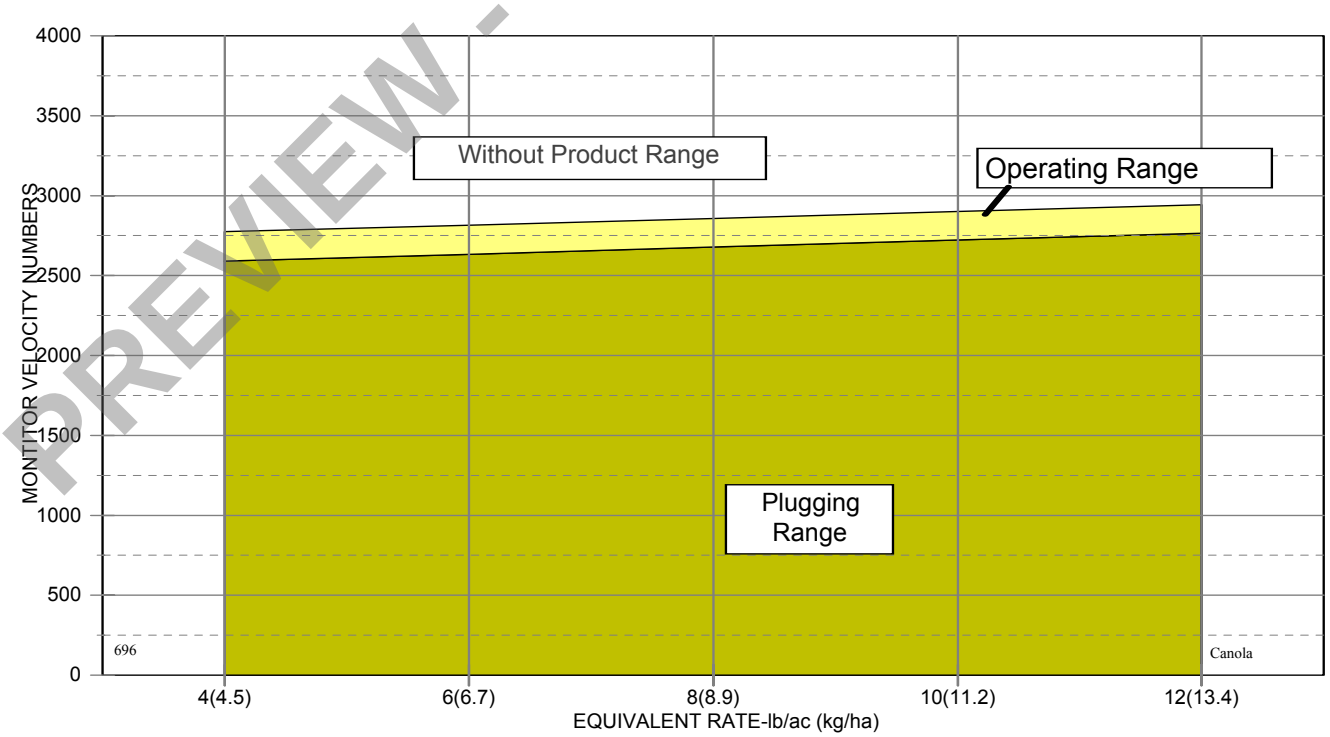
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AIR VELOCITY CHARTS



Suggested Velocity Numbers for Fertilizer

196105C

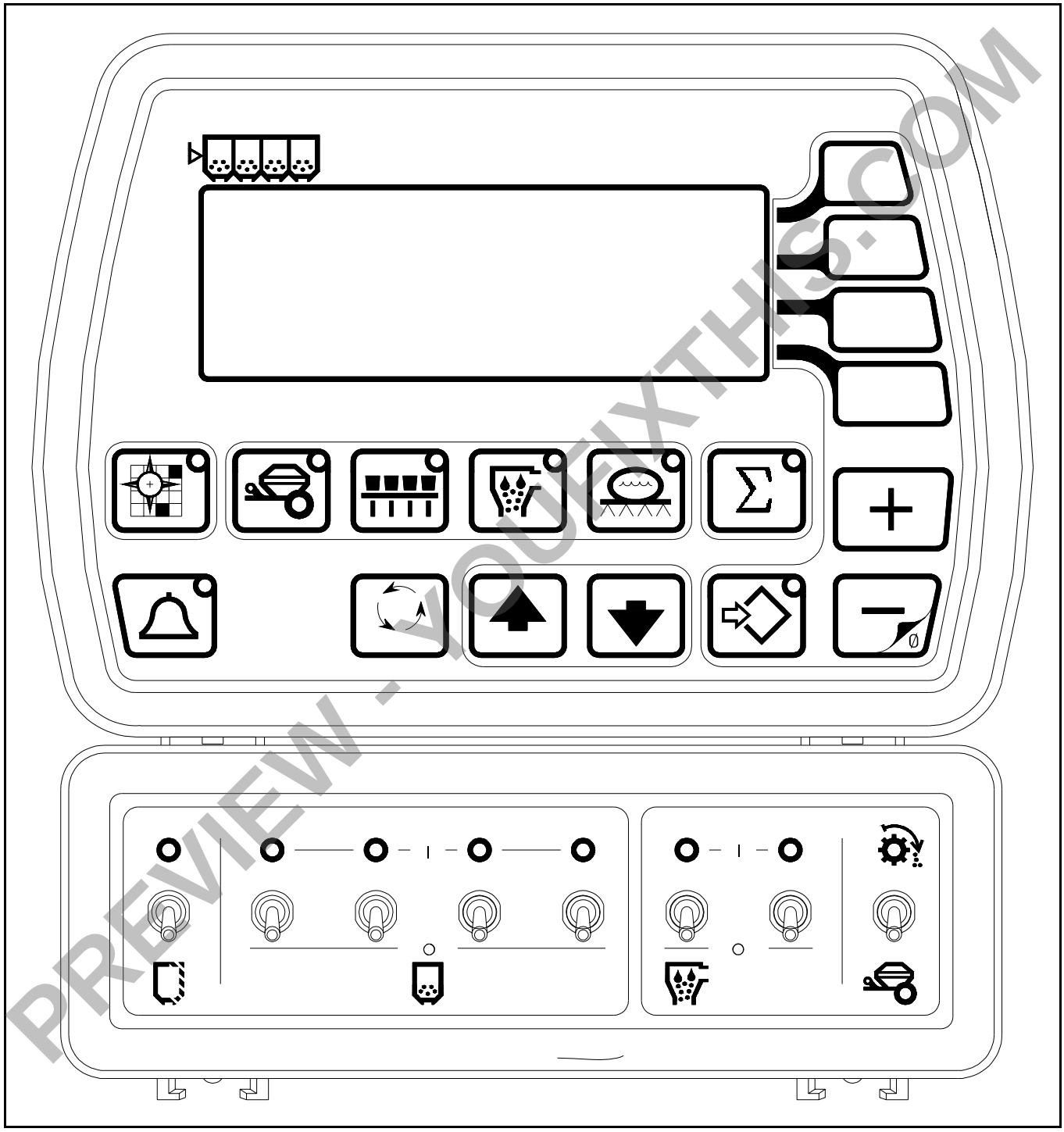


Suggested Velocity Numbers for Canola

196106C

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This console was supplied with the 40 Series Air Carts starting at PIN Range: 117100B-10001, 117110B-10001
This console was supplied with the 50 Series Air Carts staring at PIN Range: 114132B-10001, 114133B-10001, 114134B-10001, 114135B-10001

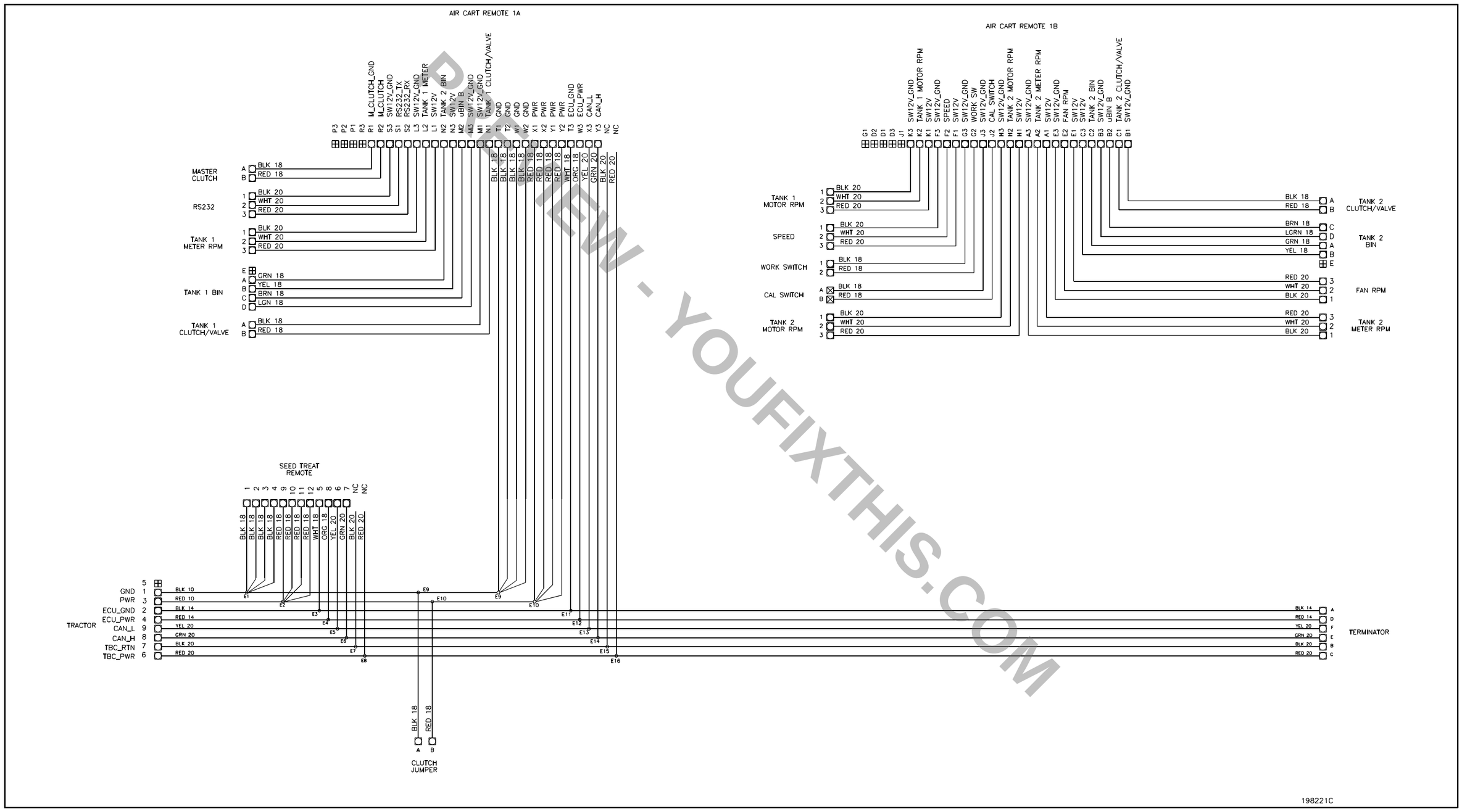


Console and Switch Unit

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1330 PLUS



1330 Plus Tow Behind Mechanical Drive Wiring Diagram

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OPTICAL - No Flow At Flow Remote X Sensor Y

Potential Failure Mode(s):
Sensor Y connected to Flow Remote X is not providing signals at a high enough rate to be considered "flowing", material may not be delivered to it's intended destination.

Potential Cause(s):
Empty tank
Obstruction or air leak in delivery system
Flow sensor internal fault
Sensor harness wiring fault
Flow Gateway Remote internal failure
Flow Remote internal failure
Incorrect flow monitoring system setup

Background:
The Flow Monitoring System calculates the rate of material flowing in each shoot and expects each flow sensor to provide signals at a rate proportional to the material flow rate of the shoot it is mounted in.
Each flow sensor receives power and provides signals on two wires.

Solution:

1.0 Empty tank:
- 1.1 As a tank nears empty, not all runs empty at the same time.
- 1.2 If a tank (or tanks) supplying the shoot which sensor Y is mounted in is empty, turn off the meter switch for that tank or fill the tank with material (Cause = Empty tank).

2.0 Check for obstructions and/or air leaks in the delivery system:
- 2.1 Check for obstructions or air leaks in the delivery system supplying material to sensor Y. Obstructions may not cause the flow of material to stop completely, but may reduce the flow enough to cause a "no flow" alarm. Compare the relative amounts of material being delivered to each opener. Specific areas to check for obstructions and/or air leaks are listed below:
  - 2.1.1 Ground opener.
  - 2.1.2 Secondary distribution hose.
  - 2.1.3 Secondary header.
  - 2.1.4 Primary distribution hose.
  - 2.1.5 Primary manifold and/or metering system.
- 2.2 If there are no obstructions and/or air leaks in the delivery system, go to step 3.0.
- 2.3 If there are obstructions and/or air leaks, remove the obstruction(s) and/or repair the air leak(s) (Cause = Obstruction and/or air leak in delivery system).

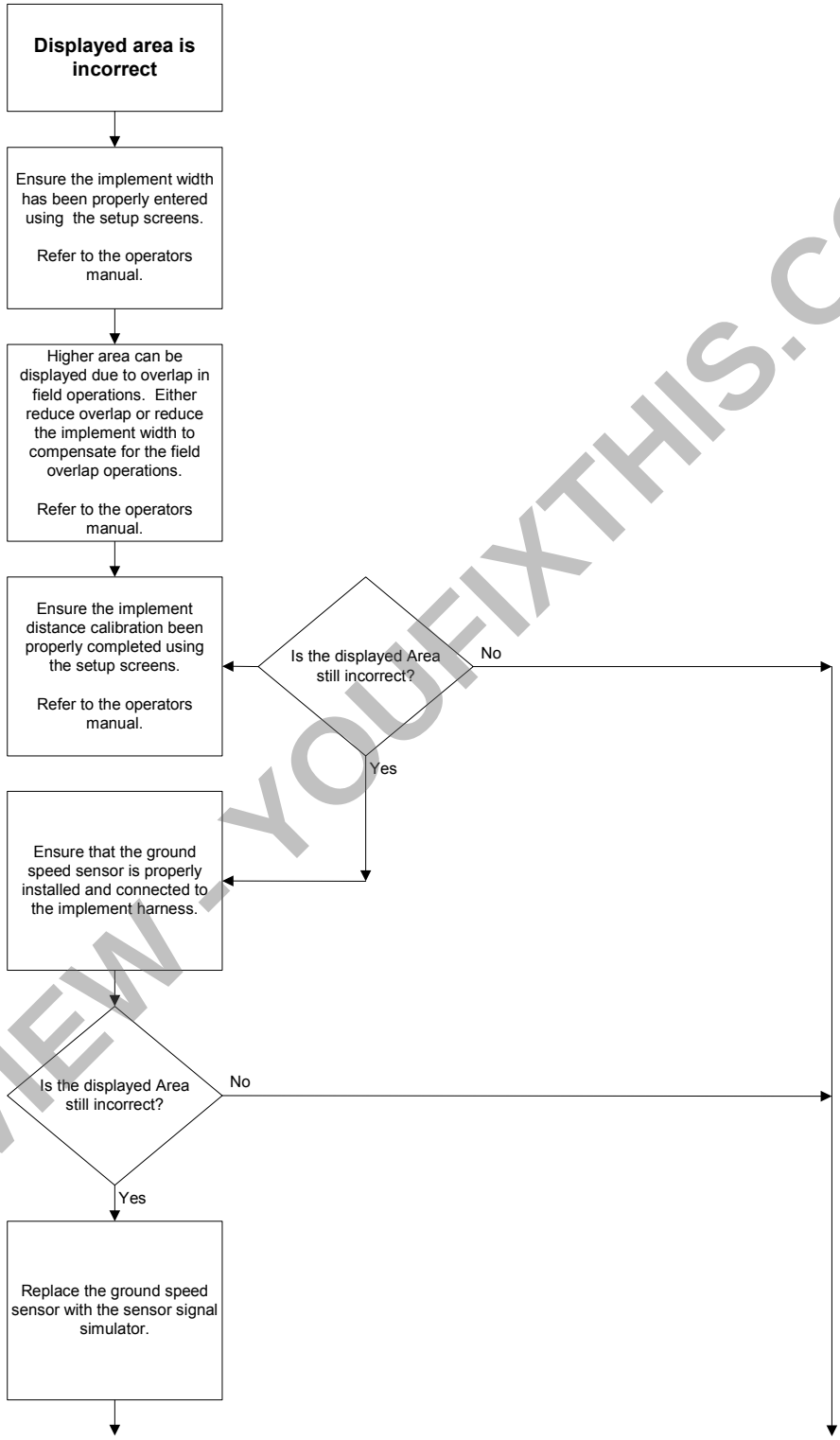
3.0 Verify remote X is operating properly:
- 3.1 Check the alarm queue to see if there are any alarms related to remote X. Refer to the service manual about checking the alarm queue.
- 3.2 If there is an alarm in the alarm queue for remote X, go to the troubleshooting for that particular alarm.
- 3.3 If there is no alarm for remote X, go to 4.0.

4.0 Verify sensor operation:
- 4.1 Refer to the service manual for instructions on how to verify sensor operation (perform the sensor test in tests and diagnostics).
- 4.2 If the sensor is operating satisfactorily, go to step 10.0.
- 4.3 If the sensor is not operating satisfactorily, go to step 5.0.

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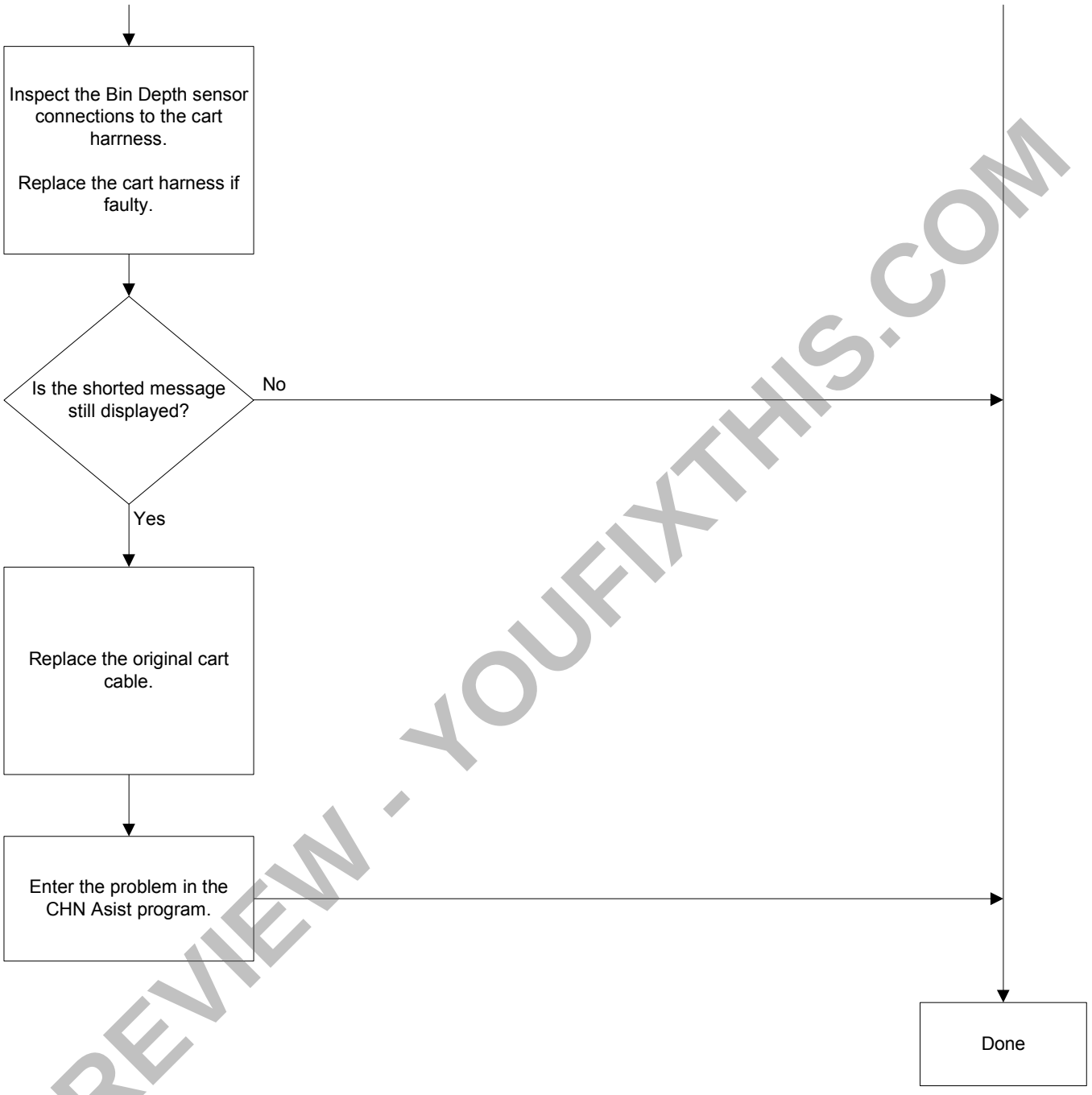
DISPLAYED AREA IS INCORRECT



102069V1

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102090V2

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TOW BEHIND MAIN FRAME (Mechanical Drive)

REF	DESCRIPTION
1	NUT .25 UNC GR2 YZD
2	LOCKNUT .375 UNC GR B YZD 1-WAY, ALL METAL
3	P.WASHER .438 ID 1.0 .083 YZD .375 BOLT SIZE
4	LOCKWASHER .250 YZD
5	BOLT .375 X 2.5 UNC GR5 YZD
6	BOLT .25 X 2 UNC GR5 YZD
7	LOCKWASHER .375 YZD
8	KNOB PLSTC ROUND .375UNC STUD
9	FIT PIO CPLR .75M-TIP .75FP BALL STYLE; #4110-5
10	FIT STL 90DEG .5MJ .5MJ
11	FIT STL .75MB .5MJ
12	FIT STL .75MB .75MJ
13	FIT PIO CPLR .5M-TIP .5FP POPPET STYLE
14	FIT STL T .75MJ .75 MJIC X .75 MJIC X .75 MJIC
15	FIT STL CAP .5FJ
16	FIT STL .5MJ .75FJ
17	HOSE HYD .75 X 253 FL
18	HOSE HYD .75 X 237 FL
19	HOSE HYD .5 X 235 FL
20	VALVE TWO WAY SELECTOR .75 ORB
21	HOSE CLAMP FOR 4 HOSES
22	DECAL ATTENTION HYD FLOW
23	CLAMP FLAT , HYD. LINES
24	PLATE DECAL FAN/AUGER CNTRL
25	HYD HOSE LABEL COVER 2"
26	CASE DRAIN HYD LABEL COVER 1"
27	DECAL FAN PRESSURE
28	DECAL FAN RETURN
29	DECAL DRAIN
30	S50 SELECTOR SEAL KIT

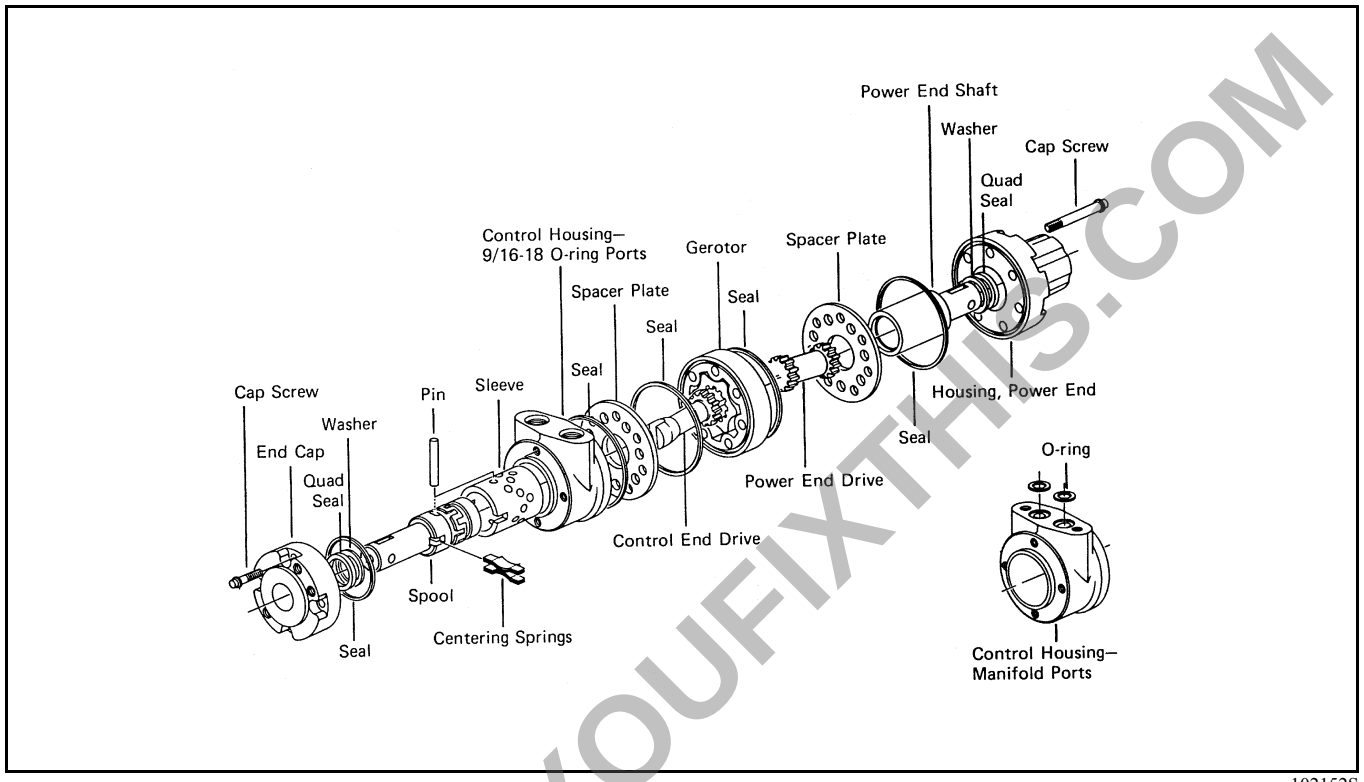
Mechanical Drive Main Frame Hydraulics

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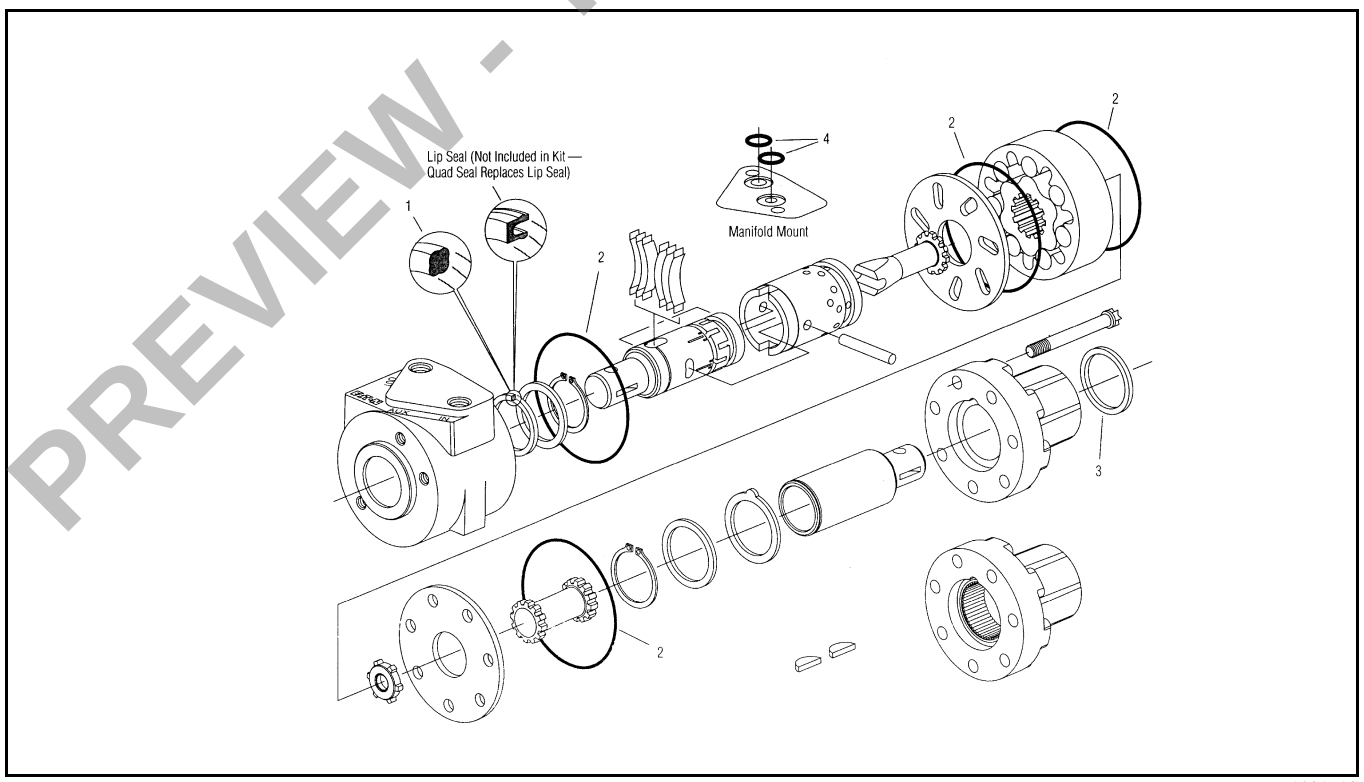
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HYDRAULIC TORQUE GENERATOR

SEAL REPLACEMENT



3.0 cu in Torque Generator - Supplied on 50 Series Manufactured to June 1999 102152S



2.2 cu in Torque Generator - current from June 1999 102151S

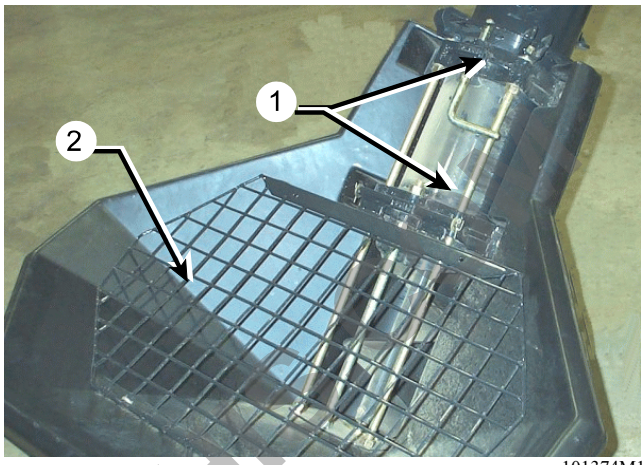
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Hopper Adjustment

1. If the hopper binds:

   - Work the hopper from side to side when auger is in transport position to loosen the hopper.
   - If the cast pieces (1) are too tight on the auger, remove and add a shim between the wear strip and the hopper.
   - Check gap between cast pieces and auger for debris and clean if required.

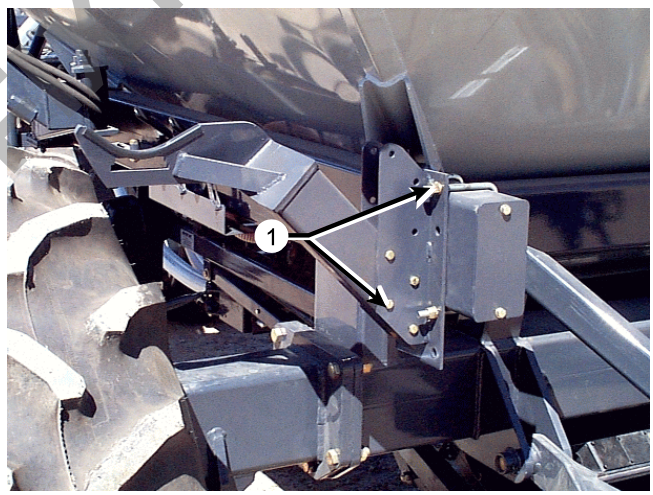
CAUTION! If you are going to lift the debris screen (2) to clean an obstruction in the intake area, turn off the hydraulics to avoid possible injury.



Hopper Adjustment 101374M1

Rear support adjustment.

1. Loosen the rear auger support hardware (1).

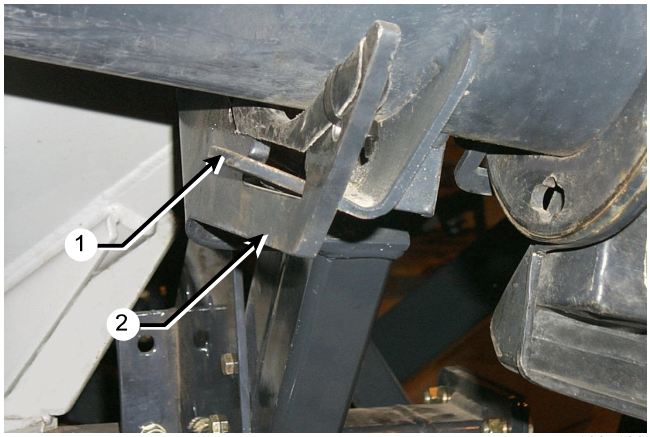


Front Lock Arm

2. Adjust the rear auger support (2) so that the rear auger support catch (1) bottoms out in the rear auger support.

3. Tighten the rear auger support hardware.

NOTE: Front transport lock lever should be approximately twenty degrees away from chassis to create enough pressure to ensure tight operation.



Front Lock Arm 198719S

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EXAMPLE #2: Flowable Fungicide onto Wheat

Label Rate: $\frac{180\text{ mL}}{100\text{ kg}}$

1. Convert the label rate to standard units (mL/10 kg).

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

$$\frac{180\text{ mL}}{100\text{ kg}} \div \frac{10}{10} = \frac{18\text{ mL}}{10\text{ kg}} = \text{Converted Label Rate of the Flowable Fungicide}$$

2. Determine the recommended application rate range for wheat from Recommended Application Rate Range Table.

Recommended Application Rate Range = $\frac{70\text{-}100\text{ mL}}{10\text{ kg}}$

3. Determine the treatment rate.

Add water to bring the application rate within the Recommended Application Rate Range. Try to keep the amount of water you add as simple as possible (for example, 1:1 chemical to water ratio) for easy mixing.

Converted Label Rate (From Step 1) + Water = $\frac{70\text{-}100\text{ mL}}{10\text{ kg}}$ Recommended Application Rate Range (From Step 2)

$$\frac{18\text{ mL}}{10\text{ kg}} + \frac{54\text{ mL}}{10\text{ kg}} = \frac{72.0\text{ mL}}{10\text{ kg}}$$

This number was selected because it is within the recommended application rate range and it gives a 1:3 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.

4. Determine dilution.

First determine how much treatment is needed.

In Step 3 it was determined that a 1:3 treatment to water ratio would be used.
Therefore, for every 1 L of Flowable Fungicide add 3 L of water to achieve a total 4 L slurry.

The following amount of water should be added to the Flowable Fungicide.	Flowable Fungicide	10 L
	Water	30 L

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