BOURGAULT Persuing Perfection							
	l/16 my Chastelist		Modified last by:	BH			
BOORGAULT INDUSTRIES Pre-delive	ry Checklist						
		Pre-d	eliverv C	hecklist	ł		
		2	220 SED	IES	•		
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FINAL SPECS:					出的 医原子科 医肾白球的 國際	ANNY AND PRODUCT	
Size	3320-30	3320-40	3320-50	3320-60	3320-66	3320-76	3320-86
Spacing		10"		12"			
High Floatation				yes / no	yes / no	yes / no	Standard
Dual Castors (40' & 50' only)		yes / no	yes / no				
Seedboots		BTT		Other			
Blockage		Single - 591	Full ru	un - 591	Sing	le run - X30	L
MRB 3		yes / no	***IF YES I		MRB III PL	AS WELL***	•
Packers Single sheet		4.5 V	4.5 round	5.4 round	4.8	pneumatic	
Single shoot		yes					
Double Shoot Brimany Manifold		yes 6 Port		9 Dort		10 Port	
Auto Section Control				orun		iu Fort	
Poar dron bitch		yes vos / no					
		yes / 110					
Electrical Hardware:							

Item	Part #	Serial #	
EM-24	3132-33		if unit is equipped with blockage
EM-24	3132-33		if unit is a leading equipped with ASC
591 Blockage module	3120-98-09		
CM-40	3132-32		if unit is equipped with down pressure sensing

SHORTAGES:

Opener Assemblies

Opener raising and lowering procedure

It is very important to follow recommended procedures to raise and lower openers. Failure to follow this procedure may cause a sudden drop of the openers!

The **best** procedure for raising and lowering the openers is to use the Bourgault 410 control box.

The second method to raise and lower the openers is to use the tractor remote connected to the depth circuit of the drill. When using the tractor valve to raise and lower the openers you must make sure that the inner wing down-pressure is close to zero psi.

(if there is pressure in the wing lift circuit the opener valve may open and let the openers drop)

*** No matter which method is used always release any residual inner-wing down-pressure***

For checking the locations of the openers use the included drawing that came with the unit.

If any torque's are found to not meet the spec all must be checked.

On Unit Checks	Check Off
Check paint for chips repair as necessary	
BTT openers (if installed) are secured and in the top two holes	
Grease all packers till grease comes past seal	
All fasteners on openers are tight	
Packer wheel lugs are torqued to 85 ft.lbs. +/-10 ft.lbs. (Check 5 wheels)	
Packer shaft 3/4" nut is torqued to 200 ft.lbs (Physically Check 5 and visually verify the rest)	
U-bolts are tightened evenly (Even amount of threads showing past nuts on all u-bolts)	
Hose clamps tightened so that hose is visibly deformed up to a max 1/16" per side (seed-boot) (Check 5)	
Ensure hose clamp screw body on seed-boot is oriented to the rear to increase trash flow	
PHD Opener Only - Tighten 5/8"x6" cast mount bolts until sides of the side plate mount casting (#9305-20-	
01)start to deflect (check 5)	
Correct L/R opener assemblies are used as per drawing (Check 5)	
If unit was a haul opener was installed on trailing hitch	
Air pressure has been confirmed on all pneumatic packer tires. (20 PSI +/-3 PSI)	
Make sure all openers are set the same	

MRB III INSPECTION (IF INSTALLED)	
PRINT SEPARATE PDI FORM FROM THE WEB SITE	

Standard - Wheel Torques and Wheel Pressures

Tolerance (Pressure) = \pm 3 psi Tolerance (Torques) = \pm 15 ft-lb

7/8" Socket & 15/16" Socket

Load Range B - C - D - E - F

		33	20-40		For the tire	e pre	ssure	s refe	r to	
Right Wing Outer Tire	11L x 15FI- C	psi	ft/lbs							
Right Wing Inner Tire	11L x 15FI- C	psi	ft/lbs		the decal o	on th	ne fror	nt hitch	۱ Of	
MF Right Outer Tire	13.5L X 15FI - F	psi	ft/lbs		للم ما ينا ا	14				
MF Right Inner Tire	13.5L X 15FI - F	psi	ft/lbs		the arill. U	Jse t	ne spa	aces		
MF Left Inner Tire	13.5L X 15FI - F	psi	ft/lbs		nrovidad k	onein		h tira t	`	
MF Left Outer Tire	13.5L X 15FI - F	psi	ft/lbs	I	Here here here each the to					
Left Wing Outer Tire	11L x 15FI- C	psi nsi	ft/lbs		Trecord the pressure and wheel					
Left wing outer fire	11L x 15FI- C	nsi	ft/lbs	· · · · · ·						
Left wing rear Dual	11L x 15FI- C	psi	ft/lbs		toraue fro	m ea	ich wh	neel.		
Left Outer Transport	11L x 15FI- C	psi	ft/lbs							
Left Inner Transport	11L x 15FI- C	psi	ft/lbs							
Right Inner Transport	11L x 15FI- C	psi	ft/lbs							
Right Outer Transport	11L x 15FI- C	psi	ft/lbs							
Right wing rear tire	11L x 15FI- C	psi	ft/lbs							
Right wing rear Dual	11L x 15FI- C	psi	ft/lbs							
		33	20-50			33	20-60			
Right OW Outer Tire	11L x 15FI- C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
Right OW Inner Tire	11L x 15FI- C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
Right IW Outer Tire	11L x 15FI- C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
Right IW Inner Tire	11L x 15FI- C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
MF Right Outer Tire	13.5L X 15FI - F	psi	ft/lbs		16.5 x 16.1FI- E	psi		ft/lbs		
MF Right Inner Tire	13.5L X 15FI - F	psi	ft/lbs		16.5 x 16.1FI- E	psi		ft/lbs		
MF Left Inner Tire	13.5L X 15FI - F	psi	ft/lbs		16.5 x 16.1FI- E	psi		ft/lbs		
MF Left Outer Tire	13.5L X 15FI - F	psi	ft/lbs		16.5 x 16.1FI- E	psi		ft/Ibs		
Left IVV Inner Tire	11L X 15FI- C	psi	TV/IDS		13.5L X 15FI - C	psi		ft/IDS		
Left IVV Outer Tire	11L X 15FI- C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
Leit OW Inner Tire	11L x 15FI- C	nsi	ft/lbs		13.5L X 15FL- C	psi		ft/lbs		
Left OW Rear Tire	11L x 15FI- C	psi	ft/lbs		111 x 15EI- D	psi		ft/lbs		
Left OW Rear Dual	11L x 15FI- C	psi	ft/lbs		11L x 15FI- D	poi		ft/lbs		
Left IW Rear Tire	11L x 15FI- C	psi	ft/lbs		11L x 15FI- D	psi		ft/lbs		
Left IW Rear Dual	11L x 15FI- C	psi	ft/lbs		11L x 15Fl- D	psi		ft/lbs		
Left Outer Transport	11L x 15Fl- D	psi	ft/lbs		13.5L X 15FI - F	psi		ft/lbs		
Left Inner Transport	11L x 15FI- D	psi	ft/lbs		13.5L X 15FI - F	psi		ft/lbs		
Right Inner Transport	11L x 15FI- D	psi	ft/lbs		13.5L X 15FI - F	psi		ft/lbs		
Right Outer Transport	11L x 15FI- D	psi	ft/lbs		13.5L X 15FI - F	psi		ft/lbs		
Right IW Rear Tire	11L x 15FI- C	psi	ft/lbs		11L x 15FI- D	psi		ft/lbs		
Right IW Rear Dual	11L x 15FI- C	psi	ft/lbs		11L x 15FI- D	psi		ft/lbs		
Right OW Rear Tire	11L x 15FI- C	psi	ft/IDS		11L x 15FI- D	psi		ft/IDS		
Right OW Rear Dual	11L X 15FI- C	psi	TUDS		11L X 15FI- D	psi		TT/IDS		
		33	20-66			33	20-76	61/II		
Right OW Outer Tire	13.5L X 15FI - C	psi	ft/IDS ft/lbp		13.5L X 15FI - C	psi		ft/IDS		
Right OW Inner Tire	13.5L X 15FI - C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
Right IW Inner Tire	13.5L X 15FL- C	psi	ft/lbs	┣───┤	13.5L X 15FI - C	psi		ft/lhs		
MF Right Outer Tire	16.5 x 16 1FI- F	psi	ft/lbs		16.5 x 16 1FI- F	psi		ft/lbs		
MF Right Inner Tire	16.5 x 16.1FI- E	poi	ft/lbs		16.5 x 16.1FI- E	poi		ft/lbs		
MF Left Inner Tire	16.5 x 16.1FI- E	psi	ft/lbs		16.5 x 16.1FI- E	psi		ft/lbs		
MF Left Outer Tire	16.5 x 16.1FI- E	psi	ft/lbs		16.5 x 16.1FI- E	psi		ft/lbs		
Left IW Inner Tire	13.5L X 15FI - C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
Left IW Outer Tire	13.5L X 15FI - C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
Left OW Inner Tire	13.5L X 15FI - C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
Left OW Outer Tire	13.5L X 15FI - C	psi	ft/lbs		13.5L X 15FI - C	psi		ft/lbs		
Left OW Rear Tire	11L x 15FI- D	psi	ft/lbs		11L x 15FI- D	psi		ft/lbs		
Left OW Rear Dual	11L x 15FI- D	psi	ft/lbs	$ \downarrow $	11L x 15FI- D	psi		ft/lbs		
Lett IW Rear Tire	11L x 15FI- D	psi	ft/lbs	\vdash	11L x 15FI- D	psi	ļ	tt/lbs		
Lett IW Rear Dual	11L x 15FI- D	psi	ft/IDS	┝──┤	11L x 15FI- D	psi		TVIDS ft/lbo		
Lett Outer Transport	13.5L X 15H - H	psi psi	TI/IDS	┣───┤	13.5L X 15FI - F	psi		IVIDS ft/lbc		
Len Inner Transport	13.5L A 15F1 - F	psi	IVIDS ft/lbc	┝───┤	13.5L A 15FI - F	psi		ft/lbc		
Right Outer Transport	13.5L X 15FL- F	psi	ft/lbs	┝──┼	13.5L X 15FL F	psi		ft/lhs		
Right IW Rear Tire	111 x 15FI- D	nsi	ft/lbs	├── ┼	11L x 15FI- D	nsi		ft/lbs		
Right IW Rear Dual	11L x 15FI- D	psi	ft/lbs	├── ┼	11L x 15FI- D	psi		ft/lbs		
Right OW Rear Tire	11L x 15FI- D	psi	ft/lbs		11L x 15FI- D	psi		ft/lbs		
Right OW Rear Dual	11L x 15FI- D	psi	ft/lbs		11L x 15FI- D	psi		ft/lbs		

Comments :

Sheet is Complete:

High Floatation - Wheel Torques and Wheel Pressures

Tolerance (Pressure) = ± 3 psi Tolerance (Torques) = ± 15 ft-lb

7/8" Socket & 15/16" Socket

Load Range B - C - D - E - F

Use the spaces provided beside each tire to record the pressure and wheel torque from each wheel. Do not adjust pressure if it matches decal, the drill has been leveled at the factory.

	3320-60			3320-66					
Right OW Tire	540/65R24	psi	torque		540/65R24	psi		torque	
Right IW Tire	540/65R24	psi	torque		540/65R24	psi		torque	
MF Right Tire	800/65R32	psi	torque		800/65R32	psi		torque	
MF Left Tire	800/65R32	psi	torque		800/65R32	psi		torque	
Left OW Tire	540/65R24	psi	torque		540/65R24	psi		torque	
Left OW Tire	540/65R24	psi	torque		540/65R24	psi		torque	
Left OW Rear Tire	11L x 15Fl- D	psi	torque		11L x 15FI- D	psi		torque	
Left OW Rear Dual	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Left IW Rear Tire	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Left IW Rear Dual	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Left Outer Transport	13.5L X 15FI - F	psi	torque		13.5L X 15FI - F	psi		torque	
Left Inner Transport	13.5L X 15FI - F	psi	torque		13.5L X 15FI - F	psi		torque	
Right Inner Transport	13.5L X 15FI - F	psi	torque		13.5L X 15FI - F	psi		torque	
Right Outer Transport	13.5L X 15FI - F	psi	torque		13.5L X 15FI - F	psi		torque	
Right IW Rear Tire	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Right IW Rear Dual	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Right OW Rear Tire	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Right OW Rear Dual	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
		33	320-76			33	20-86		
Right OW Tire	540/65R24	psi	torque		540/65R24	psi		torque	
Right IW Tire	540/65R24	psi	torque		540/65R24	psi		torque	
MF Right Tire	800/65R32	psi	torque		800/65R32	psi		torque	
MF Left Tire	800/65R32	psi	torque		800/65R32	psi		torque	
Left IW Tire	540/65R24	psi	torque		540/65R24	psi		torque	
Left OW Tire	540/65R24	psi	torque		540/65R24	psi		torque	
Left OW Rear Tire	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Left OW Rear Dual	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Left IW Rear Tire	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Left IW Rear Dual	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Left Outer Transport	13.5L X 15FI - F	psi	torque		13.5L X 15FI - F	psi		torque	
Left Inner Transport	13.5L X 15FI - F	psi	torque		13.5L X 15FI - F	psi		torque	
Right Inner Transport	13.5L X 15FI - F	psi	torque		13.5L X 15FI - F	psi		torque	
Right Outer Transport	13.5L X 15FI - F	psi	torque		13.5L X 15FI - F	psi		torque	
Right IW Rear Tire	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Right IW Rear Dual	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Right OW Rear Tire	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	
Right OW Rear Dual	11L x 15FI- D	psi	torque		11L x 15FI- D	psi		torque	

Comments :

Sheet is Complete:

	CHECK OFF			
CASTORS	LOW	LIW	RIW	ROW
Walking castor wheels have short offset to the rear of the machine				
Walking castors have the leading tire assembled towards the inside of the unit				
All castors are greased				
All bolts on castor assemblies are tight				
All Dustcaps installed on hubs				
No excess gap between castor pivot axle wear plates (.060" max)[approx. thickness of a quarter]				

Section is Complete:

Running Gear mounting hardware				
	CHECK OFF			
Rear arms that are weighted are on the outer wings				
MF Caster/Rear Transport Extension 1" bolts torqued to 400 ft.lbs (-0/+20) 1-1/2 socket				
MF Caster/Rear Transport Extension 3/4" bolts torqued to 200 ft.lbs (-0/+20) 1-1/8 socket				
Wing Caster/Rear Transport Extension 1" bolts torqued to 400 ft.lbs (-0/+20) 1-1/2 socket				
Wing Caster/Rear Transport Extension 3/4" bolts torqued to 200 ft.lbs (-0/+20) 1-1/8 socket				

Section is Complete:

Safety Lights					
All Safety Lights work					

AIR KITS & GRANULAR KITS

Primary Stand Check	
	CHECK OFF
Ensure that the Quick Coupler can be easily removed by hand	
Over center latches installed correctly, move freely, lock pin fits (6000 series air kits or L7000)	
Left side primary manifold feeds shanks not MRB's (if so equipped)	
Band clamps are tightened on Kanaflex hose (Primary stands)	
Ensure that excessive kanaflex hose is trimmed to ensure that there are no large droops	
Section is Complete:	-

Secondary Stands Check				
	CHECK OFF			
Ensure the labels on the 2.5" hose matches the manifold that it is attached too. (7000 series)				
Quick Inspection Manifolds are seated properly in the manifold head, with spring clips installed properly.				
Band clamps are tightened on Kanaflex hose (all 2-1/2" hoses)				
All muffler clamps have been tightened evenly on secondary manifold stands				
Tertiary hoses for M.R.B.s have been hose clamped onto the seedboot/fertilizer boot				
Tertiary hoses are fully seated in secondary manifold (open caps and visually inspect)				
Tertiary hoses have hose clamps installed and tightened at seed boots and manifolds				
All band clamps are tight on poly manifolds				
Shorten any secondary 2-1/2" hoses that have excessive length.				
Ensure with the openers and banders on the ground that there is no uphill run in the tertiary hoses going to the secondary manifolds (should look like the canopy of an umbrella)				

Section is Complete:

Blockage Monitors (If Installed)				
	CHECK OFF			
For units with Blockage Modules, ensure that the optical sensor is mounted on the longest hose.				
Labels are installed on Optical Sensor Extension Cable (1 near Optical Sensor and 1 near Module Box)				
For 1" hose ensure hose clamps are orieteted correctly on blockage, refer to picture below, threads between tabs. For sensors on 7/8" hose ther eshould be a second clamp for the insert and the sensor over the insert.				
Module Boxes are properly labeled				
Sensor wires are not installed by Quick Inspection Manifold handles and secured with zip ties.				

COMMENTS



HYDRAULICS	
	Check Off
Ensure that wire ties attaching Case Drain Line to others does not pinch off oil flow	
Identification tags have been attached to the front of the steel lines	
Steel hyd lines are not bent or kinked	
Hydraulic hoses meet minimum bend specifications - refer to diagram below	
All plastic line hold downs are tight and fastened with a lock nut	
Complete a visual inspection for hydraulic leaks.	
If leaks are detected loosen the fitting and retighten as per the procedure in the operators manual	

Section is Complete:

QDA Hydraulic System Valve

Check QDA valve operation (Quick Depth Adjust)

Ensure that all QDA Depth adjustments are the same,

Section is Complete:

HYDRAULIC HOSE MINIMUM BEND SPECIFICATIONS



High Flotation Option	
All high floatation drills are frame leveled at the factory.	
DO NOT adjust the pressure in HF tires unless the frame is not level or p does not match decal.	ressure
(Tire pressure as well as the RED shims (QDA units) are used for leveling f	rame)
Drills being shipped now should have a decal on the caster indicating the factory	/
setting for that tire. (see Picture below) If missing, these can be ordered from factory.	
	Check Off
Castors are in correct locations (arm toward hitch and tires with lower pressures on outer wings)	
Test function of ball valve and hydraulic cylinders	
Open steering cylinder ball valve raise openers using 410 control box steering cylinders should retract, lower openers steering cylinders should extend	
With openers down ,Check that initial pressure is correct for size of drill. Table 5.30 in operators manual or below.	
Check mainframe tire toe-in at center of tire. Front should be approximately 1" closer than the rear. (+/- 1/2") Picture on next page	
Check hammer clearance with openers lowered and hitch centered, should have 1/8" of clearance between hammer and stop on each side, or 1/4" in total. Remove bolt and adjust clevis if required.	

Steering axle cylinder pressure

Table 5.30		
3320-60	1800 psi	
3320-66	1800 psi	
3320-76	2050 psi	
3320-86	2300 psi	



Record the HF front caster wheel pressures that are on the decals below	PSI
Left outer wing	
Left inner wing	
Right inner wing	
Right outer wing	





FINAL CHECK OFF

Hydraulics	CHECK OFF
Ensure there are no hydraulic leaks Test control box 3130-60 raise/lower and pressure functions. Attach box.	
tractor harness 3120-57-01, and power harness 3120-65-21 to drill frame in weatherproof packaging.	
Verify and test that the control box toggle pressure adjustment increases and decreases pressure in 50 psi \pm 10 psi increments from 750 psi min to 2250 psi max.	
Ensure wing downpressure valve is set @ 200 psi when openers are engaged.	

Various	CHECK OFF
Any oil, dirt, footprints, etc on unit is cleaned up	
Air kit hoses do not kink, when unit is in transport position	
Primary manifolds, elbows and secondary hose do not interfere with trips or packers when unit is in transport position.	
The wing lock pins are installed	
0252-97 OPERATORS MANUAL - BLOCKAGE (if equipped)	
0250-59-10 AIR KIT INSTALLATION INSTRUCTIONS	
0256-10-02 OPERATORS MANUAL if equipped with MRB3	
0256-07 OPERATORS MANUAL 3320 PHD	

COMMENTS:

Sheet is Complete: