

BLACKMORE SEEDER TUNEUP CHECK LIST

January 2011

Items/systems checked on seeders during factory authorized service/tune up. Please call Blackmore with any questions.

CHECK LIST

Clean machine as necessary – machine should be covered when not in use (extra charges apply if Blackmore technician deems it necessary to clean the machine to start or complete the tune up)

Drive assembly

lubricate - with motor oil (not normally necessary for gray or white plastic blocks)
replace assembly if shaft worn or bearings bad
springs- replace if any end play

Solenoid valves - check/replace

Install new DIN connector, coil and V-7 series valves as required
2 way - plunger and spring, check for wear
install water separator (if needed)
3 way - plunger and spring, check for wear
indicate date on valve bodies

Low pressure adjust valve

clean – replacement unit is gold #AA600 (includes poppet and spring)
- cut ½ turn off spring if valve is noisy at low vacuum
Install air quick-disconnect as required

Needle cleaner assembly

Install as required

Vacuum gauge - should read "zero" with pumps off

shut-off valve - install/lube PV608 as necessary,

Switches - check/replace if don't click "cleanly"

toggles - replace if feel loose or don't have "solid" snap action (# 4X849 dbl pole, # 4X846 sgl pole)

container limit- # 6X290 paddle or # 6X289 w/ roller
install adjustable bracket as required (gear model)

gear limit (low pressure blow-off) # 6X290
check that adjust screw is hitting switch arm

cam limit (high pressure blow-off) # 6X289
move to new position (factory only)

manual pressure (#3XG30)

Motor

brushes - check for wear
gearbox gasket - check for leak

Large gear - check bearing play and tooth wear

Small gear - check

shaft should be straight- replace if bent or gear not welded on shaft
tooth wear - tops of teeth should be flat

Manifold mounting bar

set screws - tighten
check manifold alignment in seed tray - adjust with collars on far side
file manifold mounting surface to remove high spots

Pumps

Vacuum pump model # _____ - clean filters and flush unit

install vacuum pump rebuild kit if necessary Maximum vacuum = ____ in. Hg (20+ preferred)
circle type of kit installed GAST - K247(0522) K223 (0822) K478 (0523) K479(0823)
replace output filter (AC 393) if necessary - **clean filters every 100 hrs** Felt filters (B344A, two req'd)

Small pump - remove head cover (MOA) clean internal/external filters

install rebuild kit GAST MOA model (K309) if necessary **CHECK INSULATION ON WIRING IN HANDY BOX**
install external filter (AH190) as needed Maximum psi = ____ (15 preferred, momentary only)
install rebuild kit Thomas 617CA32 (???) this unit supplied after Feb 2009 and for 50 Hz overseas

Vacuum adjust valve

install/lube ¼ turn PV608 as necessary
install noise suppressor (AH190) Replace felt filters (AA 192) or blow clean as needed

Air hoses - replace as needed

Manifold cleaning wires - replace as needed

Small – begonia manifold only
Medium – rubber tips (#2, #2½), Needles (Lavender, Clear, Red), Multi-hole manifolds
Large – Needles (Orange, Blue, Purple, Pink, Green, Olive, Amber etc)

Seed wipe-off brush

- replace if dirty or worn
- set brush height - should almost touch surface of seed inventory tray at "zero height" , tilt = 6
- install pad on holding bracket to prevent "rattling"

Update manifolds and drop tubes as necessary - factory only

- medium hole drop tube bottom

Vibrator - re-calibrate if necessary (factory only)

Calibrate -

- zero point - #1 manifold should just touch seed tray surface at height = 0, tilt = 6
- seed tray level - measure gap at each end from mounting plate to ½" plate
- stop point seed tray - check rubber stop
- stop point drop position - check rubber stop ("half-way" into drop tube top slot)

Tighten loose screws, nuts and bolts

Check seed tray clamps - should "snap" in place

- install GROUNDING STRAP as needed

New plastic base as required

Leveling bubble - install as needed

Light kit - install as needed

Riser kit - install as necessary (factory only)

BELT MODEL ONLY (turbo, needle)

Clutch - inspect

- check tension, backlash
- verify (2) thrust-spring washers

Install screw through frame to prevent top pusher twisting (factory only)

Install full-length double bushing block (factory only)

Top pushers- install as required, check for half moon cut on bottom edge

Update motor to 109 RPM- (factory only)

Lube bearing blocks for tray indexing system- (motor oil)

- check for wear - little if any side "slop"
- install new sleeve bearings if necessary

Check timing belt and timing pulley wear

Numbers on drive wheel and rod connector block (1-5 per beginning of instruction manual)

Adjustable rails, side read switch - (factory only)

Punch 'N Grow tray – install conversion kit as required (factory only)

GEAR MODEL ONLY

Idler gear assembly - check bearings and gear wear

56 tooth gear - check for 200/128 holes

Install top pusher kit – as required

Lube slider blocks - anti-seize

Adjustable switch block- install as required

TEST SOW SEED

SEEDER COVER

performed by: _____ date: _____ ser. # _____
Blackmore technician customer



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This list is also on the Blackmore web site under technical tips section