

# BLACKMORE SEEDER TUNEUP CHECK LIST

October 2008

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

### Drive assembly

lubricate - with motor oil (not 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)

### 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 - K247(0522) K223 (0822) K478 (0523) K479(0823)  
replace output filter if necessary - clean filters every 100 hrs

Small pump - remove head cover (four Phillips screws) clean internal/external filters

install rebuild kit (K309) if necessary      **CHECK INSULATION ON WIRING IN HANDY BOX**  
install external filter (AH190) as needed      Maximum psi = \_\_\_\_ (15 preferred, momentary only)

### Vacuum adjust valve

install/lube ¼ turn PV608 as necessary  
install noise suppressor (AH190)

### 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, Green 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



**Blackmore Company Inc.**

10800 Blackmore Avenue, Belleville, MI, USA 48111-2500

USA/Canada (800) 874-8660 • Int'l (734) 483-8661

Fax (734) 483-5454 /2387

www.blackmoreco.com • email: [info@blackmoreco.com](mailto:info@blackmoreco.com)

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