

**PREVENTIVE MAINTENANCE SCHEDULE  
FOR AMERICAN BALERS**

Maintenance Item	Frequency							
Electric Motor (Grease with one pump of grease)[Once a year running 8 hrs per day or once every 4 months if running 24 hours per day] <b>CAUTION: Do NOT over grease motor. (Time to complete 5 minutes)</b>	2920 hours	Due	Completed					
Keep infrareds clean and properly adjusted. "Static Guard" or commercial anti-static spray will keep dust from settling on sensors. <b>(Time to complete 5 minutes)</b>	4 Hours of operation	Day 1 1 2 3 4 5 6	Day 2 1 2 3 4 5 6	Day 3 1 2 3 4 5 6	Day 4 1 2 3 4 5 6	Day 5 1 2 3 4 5 6	Day 6 1 2 3 4 5 6	Day 7 1 2 3 4 5 6
Cleanliness is a must on the tier unit to enable the tier to work at its full capability. Tier should be blown out with compressed air at least once each shift or more if needed to prolong the life of the components. <b>(Time to complete 5 minutes)</b>	4 Hours of operation	Day 1 1 2 3 4 5 6	Day 2 1 2 3 4 5 6	Day 3 1 2 3 4 5 6	Day 4 1 2 3 4 5 6	Day 5 1 2 3 4 5 6	Day 6 1 2 3 4 5 6	Day 7 1 2 3 4 5 6
Grease fluffer blade bearing. (See 1102-DWG. In Manual) <b>(Time to complete 15 minutes)</b>	6 months	Due	Completed					
Check the high pressure reached on each gauge. This should be recorded and if there is a drastic change, baler should be checked. <b>(Time to complete 1 minute)</b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3

Check oil filter indicator when baler is running. Change filter when back pressure filter gauge indicates 10 PSI or higher. <b>(Time to complete 1 minute)</b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
Note temperature of oil in tank. If temperature should increase above 140 degrees, baler should be checked, or cooler added. <b>(Time to complete 1 minute)</b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
Blow dirt and material out of the heat exchanger. Oil-to-Air Heat Exchanger lose efficiency very rapidly if dust is permitted to accumulate in the radiator coils. Steam clean them if collection gets out of control. Do not use pressure above 40 PSI. <b>(Time to complete 5 minutes)</b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
Check oil level. Oil level should be in upper half of sight glass. <b>(Time to complete 1 minute)</b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
Check baler for oil leaks. <b>(Time to complete 1 minute)</b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
Clean floor behind plunger and top of hydraulic tank. <b>CAUTION: Failure to keep the area clean behind the plunger may result in damage to the structure or main cylinder.</b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3

<b><i>(Time to complete 15 minutes)</i></b>								
Check bale dogs. Keep paper from building up between bale dogs and side sheets. <b><i>(Time to complete 5 minutes)</i></b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
All electrical covers must be in place and tightly secured. <b><i>(Time to complete 2 minutes)</i></b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
All safety covers/guards must be in place and tightly secured. <b><i>(Time to complete 2 minutes)</i></b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
All Safety switches must remain functional and never tied back or defeated. <b><i>(Time to complete 2 minutes)</i></b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
Insure wire feed is smooth and unrestricted from wire dispensers or stump stand. Wire should be threaded into the wire guides correctly each time new wire is installed or broken wire is rethread. <b><i>(Time to complete 2 minutes)</i></b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
Keep all tier chains clean. Cleaning can easily be done daily with air without removing guards. <b><i>(Time to complete 5 minutes)</i></b>	8 Hours of operation	Day 1 1 2 3	Day 2 1 2 3	Day 3 1 2 3	Day 4 1 2 3	Day 5 1 2 3	Day 6 1 2 3	Day 7 1 2 3
Check all twister hooks are properly aligned. Ensure hooks are not broken or missing.	8 Hours of operation	Day 1 1 2	Day 2 1 2	Day 3 1 2	Day 4 1 2	Day 5 1 2	Day 6 1 2	Day 7 1 2

<i>(Time to complete 2 minutes)</i>		3	3	3	3	3	3	3
Dual Motors - During startup and between extended shut down periods check or proper priming of the main pumps. To do so start up each motor individually by selecting "RH MTR" then "LH MTR" and noting that baler will operate on each motor.	As required							
Grease fluffer lock bearing. (See 1102-DWG. In Manual) <i>(Time to complete 2 minutes)</i>	Monthly	Due	Completed					
Grease needle drive take-up. (See 1102-DWG. In Manual) <i>(Time to complete 2 minutes)</i>	Monthly	Due	Completed					
Grease needle drive gearbox. (See 1102-DWG. In Manual) <i>(Time to complete 2 minutes)</i>	Monthly	Due	Completed					
Bolts, and oil fittings should be checked for tightness. (Daily first week, thereafter once a month.) <i>(Time to complete 60 minutes)</i>	Monthly	Due	Completed					
Keep limit & proximity switches properly adjusted. <i>(Time to complete 30 minutes)</i>	Monthly	Due	Completed					
Once each month check to see that limit switch arms are tight and properly positioned. <i>(Time to complete 10 minutes)</i>	Monthly	Due	Completed					
Ensure that tier position limit switch is operating properly by removing pin in turnbuckle and swing tier off of limit switch. Plunger should not advance.	Monthly	Due	Completed					

Reposition tier. <i>(Time to complete 2 minutes)</i>								
Check needle alignment by opening the door on the opposite side of tier and after running the needles through plunger slots. The needles should be in center of slots. NOTE: ALL GUARDS MUST BE IN PLACE AND SECURED TIGHTLY! <i>(Time to complete 10 minutes)</i>	Monthly	Due	Completed					
Check motor coupling (s). <i>(Time to complete 5 minutes)</i>	Weekly	Due	Completed					
Check gauges are in proper working order. The gauges can be checked and calibrated by most hydraulic parts/repair shops. Remove gauges from machine during normal operation to prolong life. <i>(Time to complete 1 minutes)</i>	Weekly	Due	Completed					
Electrical boxes should be kept clean inside and out and should be kept closed. (Except for maintenance.) <i>(Time to complete 1 minutes)</i>	Weekly	Due	Completed					
Check for proper drag on the 100 pound wire spools. Insure the friction disc are in good working condition. <i>(Time to complete 5 minutes)</i>	Weekly	Due	Completed					
Lubricate the tier chains with a light coat of light oil or a dry spray lubricant. The dry spray lubricant containing a mixture of Molybdenum Disulfate and Graphite is recommended for	Weekly	Due	Completed					

dusty and dirty applications. Dow Corning 321 and Keystone Lubricants, Safeguard Spray Lubricant Moly 23 are two possible sources. <b>(Time to complete 10 minutes)</b>								
Adjust the twister drive chain. It should be taut. <b>(Time to complete 10 minutes)</b>	Weekly	Due	Completed					
Check that the needle carriage chain has a slight droop. Chain should be adjusted if droop is more than 3/8" at the center. Do not over lubricate chain. <b>(Time to complete 3 minutes)</b>	Weekly	Due	Completed					
Check wire guides (both sides of baler). These should pivot up and down and rollers should turn freely. Rollers should not be severely worn. <b>(Time to complete 5 minutes)</b>	Weekly	Due	Completed					
Needle heads should be checked for loose bolts and stuck or worn rollers. <b>(Time to complete 5 minutes)</b>	Weekly	Due	Completed					
Check each pair of cutter blades to ensure tightness. <b>(Time to complete 2 minutes)</b>	Weekly	Due	Completed					
Check tier cut timing. The timing is correct when the tails of the hopper side knots are within 1/2 inch and little or no hesitation of the twisters takes place. <b>(Time to complete 2 minutes)</b>	Weekly	Due	Completed					
Grease fluffer door hinge. (See 1102-DWG. In Manual) <b>(Time to</b>	Yearly	Due	Completed					

<b>complete 5 minutes)</b>								
Grease retainer dog bearing. (See 1102-DWG. In Manual) <b>(Time to complete 5 minutes)</b>	Yearly	Due	Completed					
Oil should be checked for contamination and serviceability. Test kits may be purchased from AMBACO. <b>(Time to complete 5 minutes)</b>	Yearly	Due	Completed					

Times are based on doing each task separately; the times will decrease when tasks are combined.

A well maintained baler will give years of satisfactory operation with limited down time.

**WARNING**

**Do not put hands in or around twister hook area with baler running!**

**LOCK OUT POWER AND TAG OUT MAIN POWER SOURCE FOLLOWING O.S.H.A. PROCEDURES BEFORE PERFORMING ANY MAINTENANCE ON THIS BALER OR ANY ASSOCIATED EQUIPMENT.**