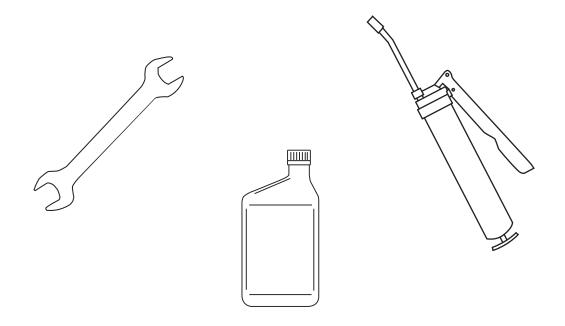


# **Lubrication and Maintenance Schedule Freeman Side Feed Balers**



### Safety

## **WARNING**

To help prevent personal injury caused by unexpected movement, be sure to service the machine on a level surface.

If machine is connected to a tractor, engage tractor parking brake and/or place transmission in "Park", shut off engine and remove key.

If machine is detached from tractor, block wheels to prevent movement.

Before servicing or adjusting baler:

- 1. Disengage all power.
- 2. Shut off tractor engine.
- 3. Wait until all moving parts have stopped.
- 4. Let all components cool.

IMPORTANT: Disconnect power supply to electronic controls when servicing electrical systems or when welding on baler. Over-voltage can damage the electronic controls.

Always disconnect the negative (-) battery terminal before welding on the baler.

See Operator's Manual for complete safety information.

# **Using This Manual**

### **NOTICE**

This document is meant to cover all side feed balers. Parts listed may not apply to your machine.



### **Lubricant Specifications**

## **WARNING**

Disengage all power, shut off engine, and wait until all moving parts have stopped before servicing.

Through timely service, maintenance, and the proper adjustments, you can realize the optimum performance and long life expected from this equipment. Follow the recommended service checks at their suggested intervals to maximize the baler's performance and service life.

#### **HYDRAULIC OIL:**

Hydraulic Oil: Mobil 424 or Mobil DTE 15M or equivalent to a Viscosity greater than 10 centistokes at 180°F and less than 200 centistokes at 60°F.

Use NEW oil when refilling oil tank. Fill to the full mark on the oil tank site gauge located on the oil tank (See Figure 6-1-15). Oil must be filtered 10 micron or less before entering the tank. Clean around the fill area with compressed air before opening the fill port.

#### **GEAR OIL:**

Mobilube HD PLUS 80W-90 Gear Oil

Alllied Part Number: 235720

#### **GREASE FITTINGS:**

(Clean grease fittings before applying grease.) Multi-purpose Lithium base #2, EP grease.

Allied Part Number: LBR0000099

#### **AUTOMATIC KNOTTER LUBER:**

SAE 30 SE, SF, or CD Motor Oil Allied Part Number: LBR0000030

#### **Bull Gear Grease**

Freeman Bull Gear Grease.

Allied Part Number: F000007626

#### Service Intervals

Service intervals listed are for average conditions. If baler is used in extreme conditions, baler should be serviced more often.

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### **LUBRICATION AND MAINTENANCE SCHEDULE\***

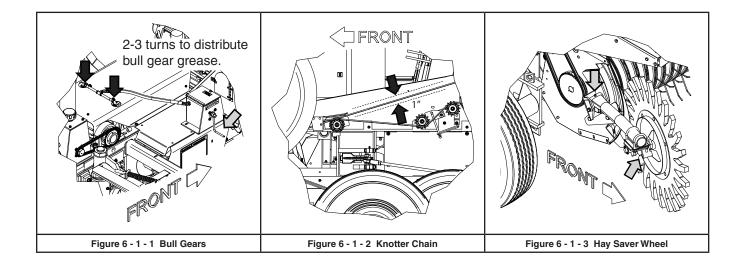
Figure	Item Description	Points	Description	Approved Material	Applies to Model
Every 3	to 4 hours (750 bales) w	hicheve	comes first*		
6-1-1	Bull Gears	2	See Bull Gear Luber in Settings and Adjustments	Freeman bull gear grease F000007626 only.	All
Daily, o	r every 8 hours (1,600 ba	les) which	chever comes first*		
6-1-11	Driveline Clutch	1	Check taper pin torque		All
Daily, o	r every 10 hours (2,000 b	ales) wh	ichever comes first*		
	Engine oil* Air filters*	All	Check daily. See manufacture	Engine Balers	
6-1-32	Gearbox Oil, Baler	1	Check oil level daily (oil should be level with fill plug)		Gearbox Balers
6-1-34	Driveline Gearbox Oil	1	Check oil level daily (oil should be level with lower plug)		Driveline Balers
	Clean Knotters & Engine Cylinders	All	Blow off dust & debris with compressed air		All
	Oil Cooler	1	Check fan and make sure grill is clean		Hydro Balers
	Check for Loose Bolts	All	Especially pay attention to the area around the engine, where there is more vibration		All
	Check Needle Timing		See needle timing in Settings and Adjustments		All
	Check Knife Adjust- ments & Sharpness	2	Plunger knife/stationary knife		All
6-1-2	Check Chain Tight- ness	All	Mid span, total deflection: knotter = 1"; pickup = 2"; tension = 3/4"; auger = 1"; luber = 3/4"		All
6-1-3	Hay Saver Wheel	2	Grease	Multi-purpose grease- LBR0000099	All
6-1-4	Torque Shaft Bushing Housing	1	Grease	Multi-purpose grease- LBR0000099	All
6-1-5	Con Rod Bushing, Bull Gear Side	1	Grease	Multi-purpose grease- LBR0000099	All
6-1-6	Con Rod /Plunger Side	1	Grease	Multi-purpose grease- LBR0000099	All
6-1-7	Con Rod Bearing Mount, Gearbox	1	Grease	Multi-purpose grease- LBR0000099	All
6-1-8	Plunger Rollers	4	Grease	Multi-purpose grease- LBR0000099	All
6-1-9	Plunger Stop Dog	1	Grease/Make sure stop dog moves freely	Multi-purpose grease- LBR0000099	All
6-1-10	Plunger Stop Dog Return Lever	1	Grease	Multi-purpose grease- LBR0000099	All
6-1-12	Needle Yoke Drive Rod Ends	4	Grease	Multi-purpose grease- LBR0000099	All
6-1-13	Knotter Clutch	1	Grease	Multi-purpose grease- LBR0000099	All
6-1-14	Pickup Drive Shaft	2	Grease	Multi-purpose grease- LBR0000099	All
6-1-15	Draw Bar	1	Grease	Multi-purpose grease- LBR0000099	All
6-1-16	Knotter Luber Tank	1	Check level at tank site tube	SAE 30 SE, SF, or CD motor oil	Conventional Kno
6-1-17	Hydraulic Reservoir Hydro Balers	1	Check oil level. See site gauge on tank Capacity: 41 gallons	Hydraulic oil: Mobil 424 or Mobil DTE 15M or equivalent.	Hydro Balers



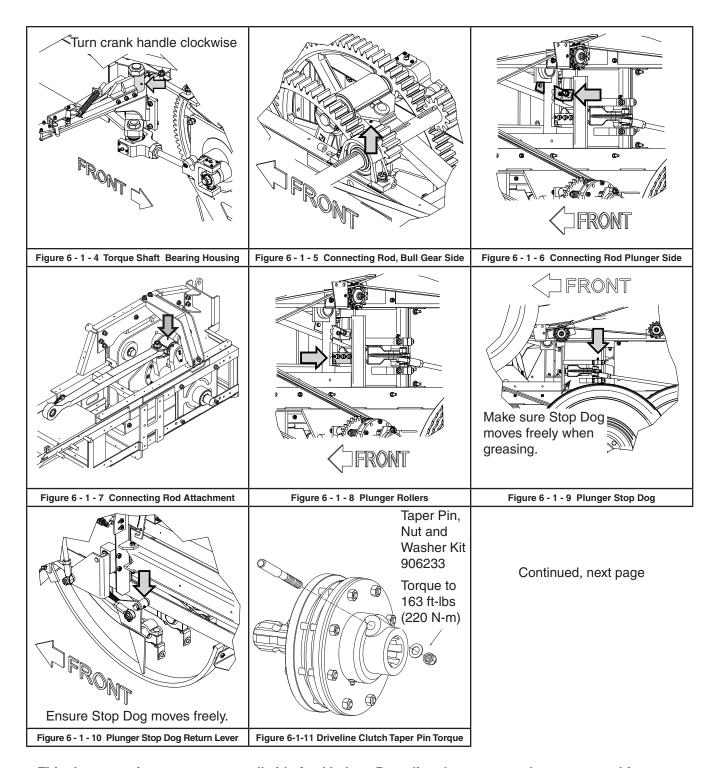
* For engine balers, refer to their respective manufacturers owners manual for maintenance Instructions and Intervals.						
Item	Item Description	Points		Approved Material	Applies to Model	
	r every 10 hours (2,000 ba			ed		
6-1-11	Driveline Clutch	1	Check taper pin torque		All	
6-1-18	Hydraulic Reservoir Engine Balers	1	Check oil level. Capacity: 5 gallons	Hydraulic oil: Mobil 424 or Mobil DTE 15M or equivalent.	280, 285, 380, 385 Engine Balers	
6-1-19	PTO Clutch Throw Out Bearing	1	Grease	Multi-purpose grease- LBR0000099	Engine Balers	
Every 5	60 hours (10,000 bales) w	hicheve	r comes first*			
	Torque Wheel Lug Bolts	All	See Wheel & Tire Setup 2-3	Torque wrench	All	
	Tires	All	Check pressure	See tire sidewall for pressure	All	
	Bull Gears	2	Check and adjust if necessary	See PB00000102 for adjust- ment instructions	All	
6-1-11	Driveline Clutch	1	Check taper pin torque		All	
6-1-20	Belt, Drive	1	Check belt deflection	3/4" belt deflection at 25 to 35 lbs.	All	
6-1-36	Driveline	9	Grease	Multi-purpose grease- LBR0000099	Driveline Balers	
6-3-33	Driveline Clutch	1	Grease	Multi-purpose grease- LBR0000099	Driveline Balers	
6-1-21	Feed Arm Latch	1	Grease	Multi-purpose grease- LBR0000099	All	
6-1-22	Pinion Shaft Bearings	1	Grease	Multi-purpose grease- LBR0000099	All	
6-1-23	Con Rod Bearing Housing, Bull Gear side	1	Grease	Multi-purpose grease- LBR0000099	All	
6-1-24	Feed Arm Yoke's	6	Grease	Multi-purpose grease- LBR0000099	All	
6-1-25	Saddle Lever	1	Grease	Multi-purpose grease- LBR0000099	All	
6-1-26	Knotter Trip Lever	1	Grease	Multi-purpose grease- LBR0000099	All	
6-1-27	Pickup Clutch Dogs	2	Oil	SAE 30 SE,SF, or CD motor oil	All	
6-1-19	PTO Clutch Main & Cross Shaft Bearings.	3	Grease	Multi-purpose grease- LBR0000099	All Engine Balers	
6-1-34	Driveline Gearbox Oil (1st 50 hours only, subsequent changes at seasonal/1000 hour intervals)	1	Change oil (135 oz)	Mobilube HD PLUS 85W-90 gear oil	Driveline Balers	
Every 3	Months or 125 Hours (25	5,000 Ba	ales) whichever comes first*			
6-1-11	Driveline Clutch	1	Check taper pin torque		All	
6-1-35	Gearbox Crank Arm & Feeder Arm	5	Torque bolts	Torque wrench	Gearbox Balers	

### **LUBRICATION AND MAINTENANCE SCHEDULE\***

* For er	* For engine balers, refer to their respective manufacturers owners manual for maintenance Instructions and Intervals.							
Item	Item Description	Points	Description	Approved Material	Applies to Model			
Each season or 250 hours (50,000 bales) whichever comes first*								
6-1-11	Driveline Clutch	1	Check taper pin torque		All			
6-1-32	Gearbox Oil, Baler	All	Change oil (aprox 1.5 gallons)	Mobilube HD PLUS 85W-90 gear oil	Gearbox Balers			
Each se	Each season or 1000 hours (200,000 bales) whichever comes first*							
	Wheel Bearings	All	Clean & repack	Multi-purpose grease- LBR0000099	All			
6-1-11	Driveline Clutch	1	Check taper pin torque		All			
6-1-27	Pickup Clutch	1	Before use each season, completely loosen clutch springs and assure that clutch will slip. Adjust so that clutch almost slips.		All			
6-1-28	Feed Arm Bearing Housing	1	Grease	Multi-purpose grease- LBR0000099	All			
6-1-29	Side Plate Bearings	2	Grease	Multi-purpose grease- LBR0000099	All			
6-1-30	Hydraulic Reservoir Hydro Balers	1	Change oil and filter Capacity: 41 gallons	Hydraulic oil: Mobil 424 or Mobil DTE 15M or equivalent to a viscosity greater than 10 centistokes at 180°F and less than 200 centistokes at 60°F	All Hydro Balers			
6-1-18	Hydraulic Reservoir, Engine Balers	1	Change oil and filer Capacity: 5 gallons	Hydraulic oil: Mobil 424 or Mobil DTE 15M or equivalent.	280, 285, 380, 385 Engine Balers			
6-1-34	Driveline Gearbox Oil	1	Change oil (135 oz)	Mobilube HD PLUS 85W-90 gear oil	Driveline Balers			
6-1-31	Tension Control Pump	1	Change oil and filter	Hydraulic oil: Mobil 424 or Mobil DTE 15M or equivalent.				
6-1-16	Automatic Knotter Luber	1	Change oil, clean tank & filter	SAE 30 SE,SF, or CD motor oil	Conventional Knot			

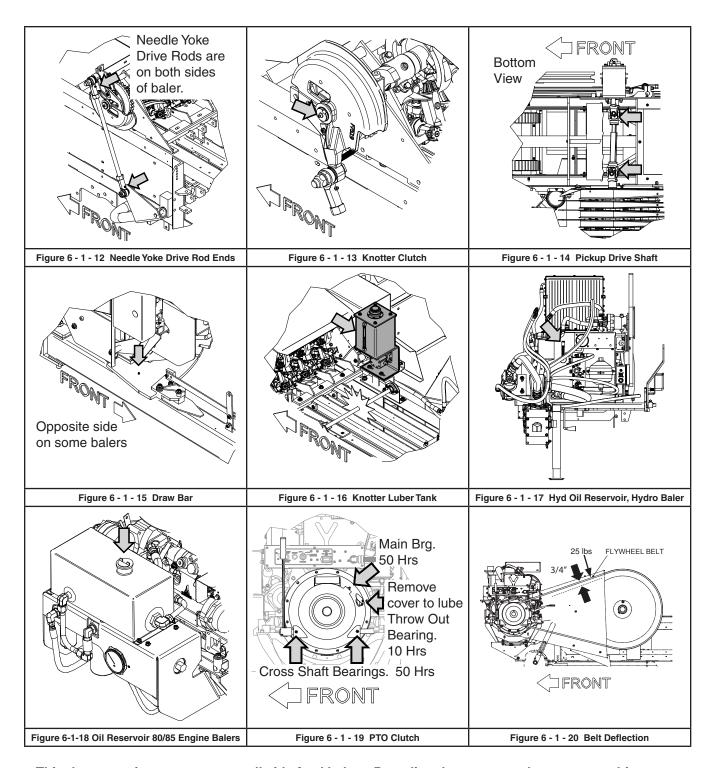






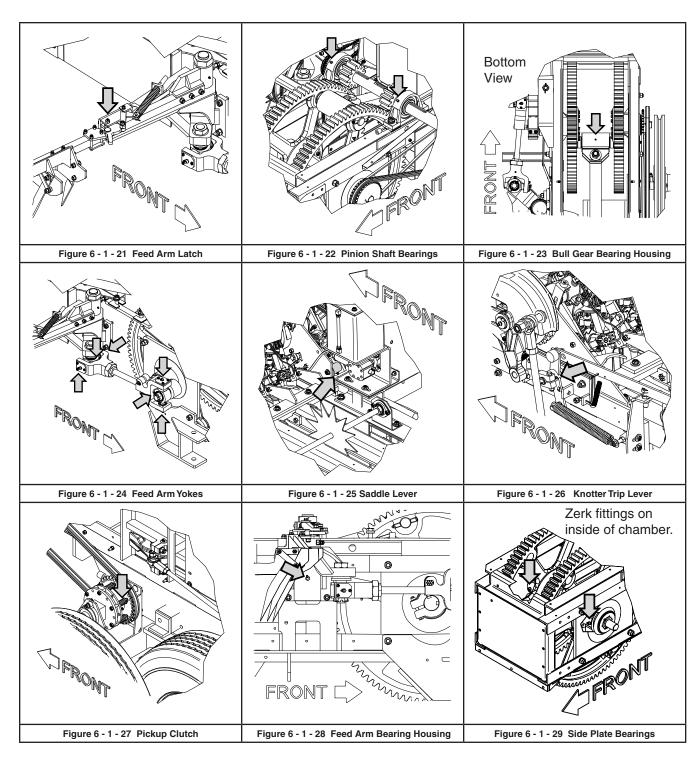
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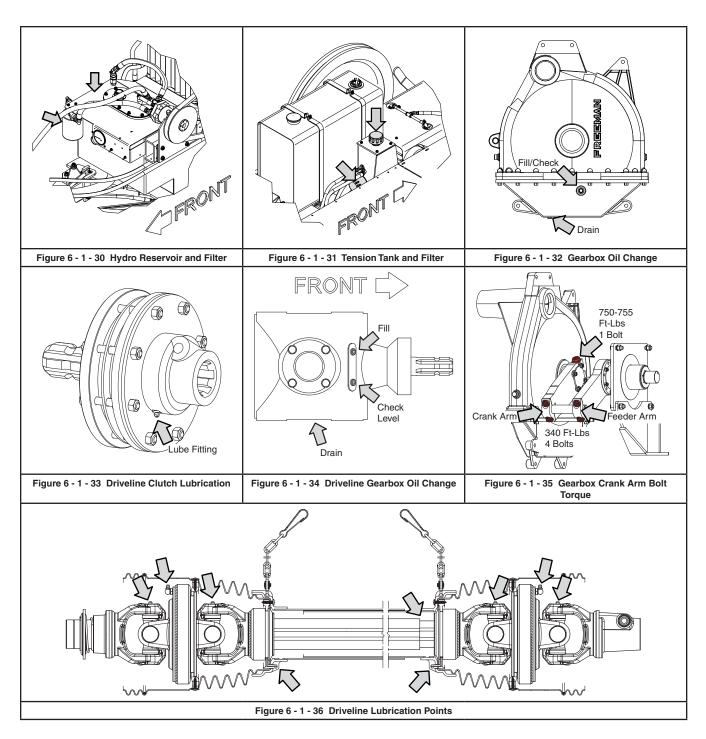


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