

Lubrication Systems

Automatic Chain Oilers · Grease Systems · Fittings

Lube Minder® Oiler



Brass Manifold with Ferrule and Sleeve Nut



Grease Bank Manifold



Fitting for Grease System

Make Your Maintenance Easier · Convenient · Save Time and Money

¹ Toll Free: 1-800-782-5752 Fax: 763-295-6601
www.gosuburban.com

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Automatic Oiler

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Lube Minder® Kits: Lubrication Systems

Our products are proven in the following industries and equipment:

Agricultural Industry

Round Balers	Square Balers
Combines	Mower-Conditioners
Manure Spreaders	Potato Harvesters
Forage Harvesters	Planters
Discs	Beet Harvesters
Feed Mixers	Grain Carts
Air Drills	Tractors

Commercial Lawn Mowers

Z Trak Mowers

U.S. Military

Air Craft Carriers

Timber Industry

Chain Saw Blades

Many of our systems are factory installed, and we also work with a wide variety of Agricultural companies to supply them aftermarket kits and spare parts.

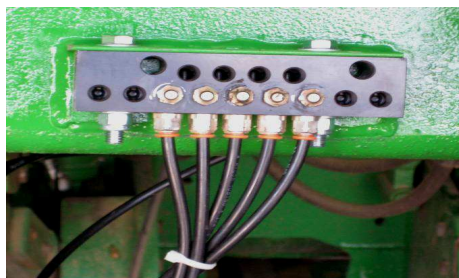
8-Port Pump



Reservoir Tank with Cap



Brush Assembly



Manual Grease System



Automatic Grease System

Lube Minder® Spare Parts

Sorted by Part			Sorted by Description		
Pict #	Part Numbers	Description	Pict #	Description	
1	1019	Screen	34	2 Quart Reservoir Tank	
2	012-2F2F-BT	Ball Valve - 1/8 NPT Female to Female	45	6 quart Reservoir	
3	164PL-5/32	Union Tee 5/32 - used to add a line	2	Ball Valve - 1/8 NPT Female to Female	
4	170-0000	Oiler Pump - No check valve and No Plugs	17	Bracket - 90 Deg Long	
5	170-0000-10	Oiler Pump with 10 ports	30	Bracket - 3 slot brush 90 deg.	
6	170-0000-2	Oiler Pump with 2 Outlets	21	Bracket - Auger Drive Chain	
7	170-0000-3	Oiler Pump with 3 Outlets	20	Bracket - Clean Grain Elevator	
8	170-0000-4	Oiler Pump with 4 Outlets	18	Bracket - Flat Long	
9	170-0000-5	Oiler Pump with 5 Outlets	31	Bracket - Oiler Pump Mounting	
10	170-0000-6	Oiler Pump with 6 Outlets	22	Bracket - Shield Pick-up Drive	
11	170-0000-7	Oiler Pump with 7 Outlets	19	Bracket - Short 90 Deg	
12	170-0000-8	Oiler Pump with 8 Outlets	16	Bracket - Short Angled	
13	170-1014	Orifice, Medium Flow, Silver	28	Bracket-Two Slot 90 deg	
14	170-1015	Orifice, Low Flow, Black	29	Bracket-Two Slot Flat	
15	170-1018	Repair Kit - Seal, Piston, and O-Rings	24	Brush Assembly - Replacement Brush	
16	170-2017	Bracket - Short Angled	23	Cap for two Quart Reservoir	
17	170-2018	Bracket - 90 Deg Long	26	Check Valve 5/32" in line	
18	170-2018-F	Bracket - Flat Long	25	Check Valve Manifold Assembly	
19	170-2018-S	Bracket - Short 90 Deg	27	Counter Top Display	
20	170-2023	Bracket - Clean Grain Elevator	44	Drill Bit 7/32"	
21	170-2024	Bracket - Auger Drive Chain	36	Ferrule Kits 5/32" - (4 pieces)	
22	170-2025	Bracket - Shield Pick-up Drive	33	Hex Nipple - 1/8 NPT Male to Male	
23	170-2553	Cap for two Quart Reservoir	4	Oiler Pump - No check valve and No Plugs	
24	170-4514	Brush Assembly - Replacement Brush	5	Oiler Pump with 10 ports	
25	170-4515	Check Valve Manifold Assembly	6	Oiler Pump with 2 Outlets	
26	170-4516	Check Valve 5/32" in line	7	Oiler Pump with 3 Outlets	
27	170-7515	Counter Top Display	8	Oiler Pump with 4 Outlets	
28	2012	Bracket-Two Slot 90 deg	9	Oiler Pump with 5 Outlets	
29	2012-F	Bracket-Two Slot Flat	10	Oiler Pump with 6 Outlets	
30	2013	Bracket - 3 slot brush 90 deg.	11	Oiler Pump with 7 Outlets	
31	2016	Bracket - Oiler Pump Mounting	12	Oiler Pump with 8 Outlets	
32	2107001U	Plug 1/8" with 0-ring	14	Orifice, Low Flow, Black	
33	216P-2	Hex Nipple - 1/8 NPT Male to Male	13	Orifice, Medium Flow, Silver	
34	2550	2 Quart Reservoir Tank	32	Plug 1/8" with 0-ring	
35	3520	SS Ball	40	Plug 5/32" - Plastic	
36	576894-4	Ferrule Kits 5/32" - (4 pieces)	47	Quick Disconnect, Valved for 5/32 Tubing, Female	
37	576895-4	Sleeve Nut (4 pieces)	48	Quick Disconnect, Valved for 5/32 Tubing, Male	
38	6002	Street Elbow 1/8" NPT	15	Repair Kit - Seal, Piston, and O-Rings	
39	62PL-5/32	Union 5/32 - used to splice line	41	Restrictor Fitting	
40	639PL-5/32	Plug 5/32" - Plastic	1	Screen	
41	6809-4-4NWO-RS	Restrictor Fitting	37	Sleeve Nut (4 pieces)	
42	7010	Tubing Polybraid 5/8" per foot	43	Split Loom Convoluted Polyethy	
43	7840K31	Split Loom Convoluted Polyethy	35	SS Ball	
44	8572	Drill Bit 7/32"	38	Street Elbow 1/8" NPT	
45	FS10628	6 quart Reservoir	42	Tubing Polybraid 5/8" per foot	
46	NYL-5/32-C-50	Tubing Nylon 5/32" 50 ft roll	46	Tubing Nylon 5/32" 50 ft roll	
47	PMCD 130025	Quick Disconnect, Valved for 5/32 Tubing, Female	39	Union 5/32 - used to splice line	
48	PMCD 20025	Quick Disconnect, Valved for 5/32 Tubing, Male	3	Union Tee 5/32 - used to add a line	

Oiler: Spare Parts Pictures



1. Screen
PN: 1019



2. Ball Valve
PN: 012-2F2F-BT



3. Union Tee for
5/32 tubing
PN: 164PL-5/32



4. 8 Port Pump
PN: 170-0000



5. 10 Port Pump
PN: 170-0000-10



6. 8 Output Pump
PN: 170-0000-2

Other PN:
170-0000-3 (3 outputs)
To



12. 170-0000-8 (8 outputs)



13. Orifice: Medium, Silver
PN: 170-1014



14. Orifice: Low, Black
PN: 170-1015



15. Rebuild kit
PN: 170-1018



16. Bracket
PN: 170-2017
2.66" x 0.94"



17. Bracket
PN: 170-2018
3.87" x 2.0"



18. Bracket
PN: 170-2018-F
5.87" Long



19. Bracket
PN: 170-2018-S
2.125" x 2.0"



20. Bracket
PN: 170-2023
5.25" x 1.25"



21. Bracket
PN: 170-2024



22. Bracket: 11" x 2.75"
PN: 170-2025



23. Cap: 2 qt Reservoir
PN: 170-2553



24. Brush Assembly
PN: 170-4514



25. Manifold showing:
Ferrule and sleeve nut
PN: 170-4515



26. Check Valve
PN: 170-4516



27. Lube Minder
Counter Display
PN: 170-7515



28. Bracket:
PN: 2012
2.83" x 4"



29. Bracket
PN: 2012-F
6.83"



30. Bracket
PN: 2013
5" x 2.75"



31. Bracket for Pump
PN: 2016



32. Plug for top of pump
PN: 2107001U



33. Hex Nipple
PN: 216P-2



34. 2 Quart Reservoir
PN: 2550



35. SS Ball
PN: 3520



36. Ferrules (4 pk)
PN: 576894-4



37. Sleeve Nuts (4 pk)
PN: 576895-4



38. Street Elbow
PN: 6002



39. Union for 5/32" Tubing
PN: 62PL-5/32



40. Plug for 5/32" Tubing
PN: 639PL-5/32



41. Elbow with Restrictor
PN: 6809-4-4NWO-RS



42. 5/8" Polybraid Tubing
PN: 7010



43. Convulated Tubing
PN: 7840K31

44. Drill Bit
PN: 8572



45. 6 quart Reservoir
PN: FS10628



46. 5/32" Nylon tubing
50 Foot Roll
PN: NYL-5/32-C-50



Quick Disconnects:

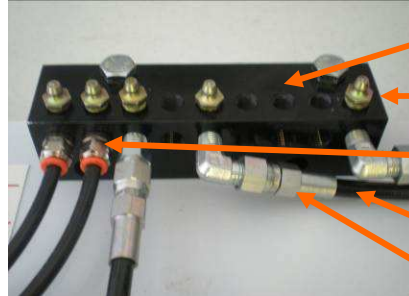


47. PN: PMCD 130025, Female
48. PN: PMCD 20025, Male

Manual Grease Bank System

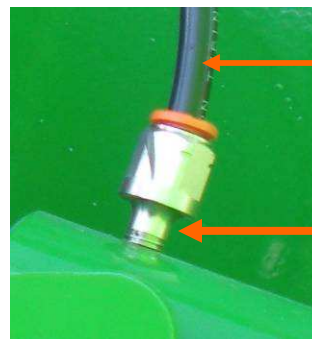
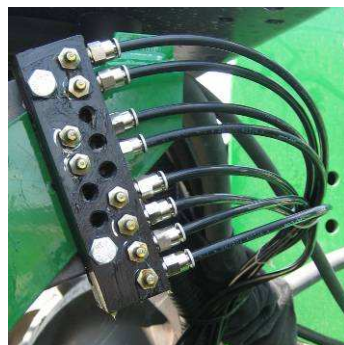
Grease Bank Systems
& Parts Available

Call Today!



Item	PN	Description
8	21999-0413	Manifold
19	36-110	Grease Fitting
21	68PL-4-2	Push-to-Connect, back of manifold
1	100R7	Crimp Style Tubing
3	113CY-2-2	Male Crimp Fitting

	Part Numbers	Description
1	100R7	Grease Tubing
2	106CY-4-2	#4 JIC Female Swivel, 1/8" Hose Ends (Crimp)
3	113CY-2-2	1/8 NPT Male Swivel, 1/8" Hose Ends (Crimp)
4	2U07003	1/4" Tube, Push to Connect
5	2U04003	90 Degree Tube Union, Push to Connect, 1/4" Tube
6	20-068N	90 Degree Fitting, Push to Connect, 1/4 Tube x 1/8 Male Taper Pipe
7	21999-0413	Straight Fitting, Push to Connect, 1/4-28 Taper Male to 1/4 Tube
8	21999-0419	Manifold - Grease Bank Manifold - 13 Ports
9	21999-0433-GF	Tubing Nylon 1/4" OD x 0.0625 (Grease Filled)
10	21999-0433	Tubing Nylon 1/4" OD x 0.0625 (Grease Line)
11	21999-0682	Adaptor, #4 JIC to 1/4-28 Taper Male
12	21999-0683	90° Adaptor, #4 JIC to 1/4-28 Taper Male
13	21999-0684	45° Adapter, #4 JIC to 1/4-28 Taper
14	21999-0686	100R7 Grease Filled Tubing
15	2404-4-2	Adaptor, #4 Male JIC X 1/8" Male NPT (Straight)
16	244054	90° Fitting, Push to Connect, 1/4-28 Taper Male to 1/4 Tube
17	2501-4-2	90° Adaptor, #4 JIC X 1/8 MP
18	2503-4-2	45° Adapter, #4 JIC to 1/8 NPT
19	36-110	Grease Fitting - 1/8-27 NPT (for Front of Manifold)
20	5602-2-2-2	Run Tee, 1/8" Male, Female, Female
21	68PL-4-2	Straight Fitting, Push to Connect, 1/4 Tube X 1/8 NPT - has O-ring
22	68PL-4-2-TP	Straight Fitting, Push to Connect, 1/4 Tube X 1/8 Male Taper Pipe



- 10. Tubing
1/4 OD x 0.0625 Wall
PN: 21999-0433
- 7. 1/4-28 Taper x 1/4
Tube Straight
PN: 21999-0413

Manual Grease Bank Parts

Biggest problem with grease zerks is that they:
 Don't get greased
 Because they are hard to find
 People don't want to take the time and
 Machinery breaks down before it is time



1. Grease Tubing
PN: 100R7



2. #4 JIC Female Swivel
PN: 106CY-4-2



3. 1/8 NPT Male Swivel
PN: 113CY-2-2



4. 1/4" Tube Union Straight
PN: 2U07003



5. 1/4" Tube Union 90°
PN: 2U04003



6. 90°, 1/8" NPT Taper x 1/4 Tube
PN: 20-068N



7. 1/4-28 Taper x 1/4
Tube Straight
PN: 21999-0413



8. 13 Port Standard
Grease Bank
PN: 21999-0419



9. Tubing—Grease filled
1/4 OD x 0.0625 Wall
PN: 21999-0433-GF



10. Tubing
1/4 OD x 0.0625 Wall
PN: 21999-0433



11. Adaptor, #4 JIC to 1/4-28, Male
PN: 21999-0682



12. 90° Adaptor, #4 JIC to 1/4-28, Male
PN: 21999-0683



13. 45° Adaptor, #4 JIC to 1/4-28, Male
PN: 21999-0684



14. 100R7 Tubing - Grease Filled
PN: 21999-0686



15. Adaptor, #4 JIC to 1/8 NPT Male
PN: 2404-4-2



16. 90° Fitting, 1/4-28 Taper x 1/4 Tube
PN: 244054



17. 90° Adaptor, #4 JIC x 1/8 NPT
PN: 2501-4-2



18. 45° Adaptor, #4 JIC x 1/8 NPT
PN: 2503-4-2



19. Grease Zerk 1/8 NPT



20. Running Tee, 1/8 NPT, Male, Female (2)



21. Straight Fitting, 1/8 NPT x 1/4 Tube
PN: 68PL-4-2



22. Straight Fitting, 1/8" NPT Taper x 1/4 Tube
PN: 68PL-4-2-TP

Lube Minder® Pump

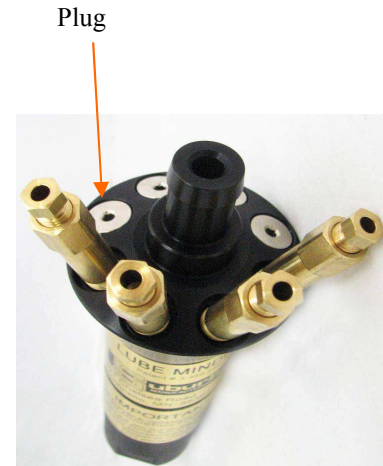
Lube Minder®—How to Prime Pump at Start-up

TO PRIME THE LUBE MINDER PUMP AT START-UP

IMPORTANT: If oil does not cycle through pump you may have an air lock. To get rid of air lock, you need to:

- A. Remove plug
- B. Wait about 3 seconds for oil to come up to top
- C. Replace plug

Cycle Auger and verify oil is going through the lines.



Lube Minder®—How to Adjust the Output

TO ADJUST THE LUBE MINDER PUMP FOR PROPER OIL OUTPUT

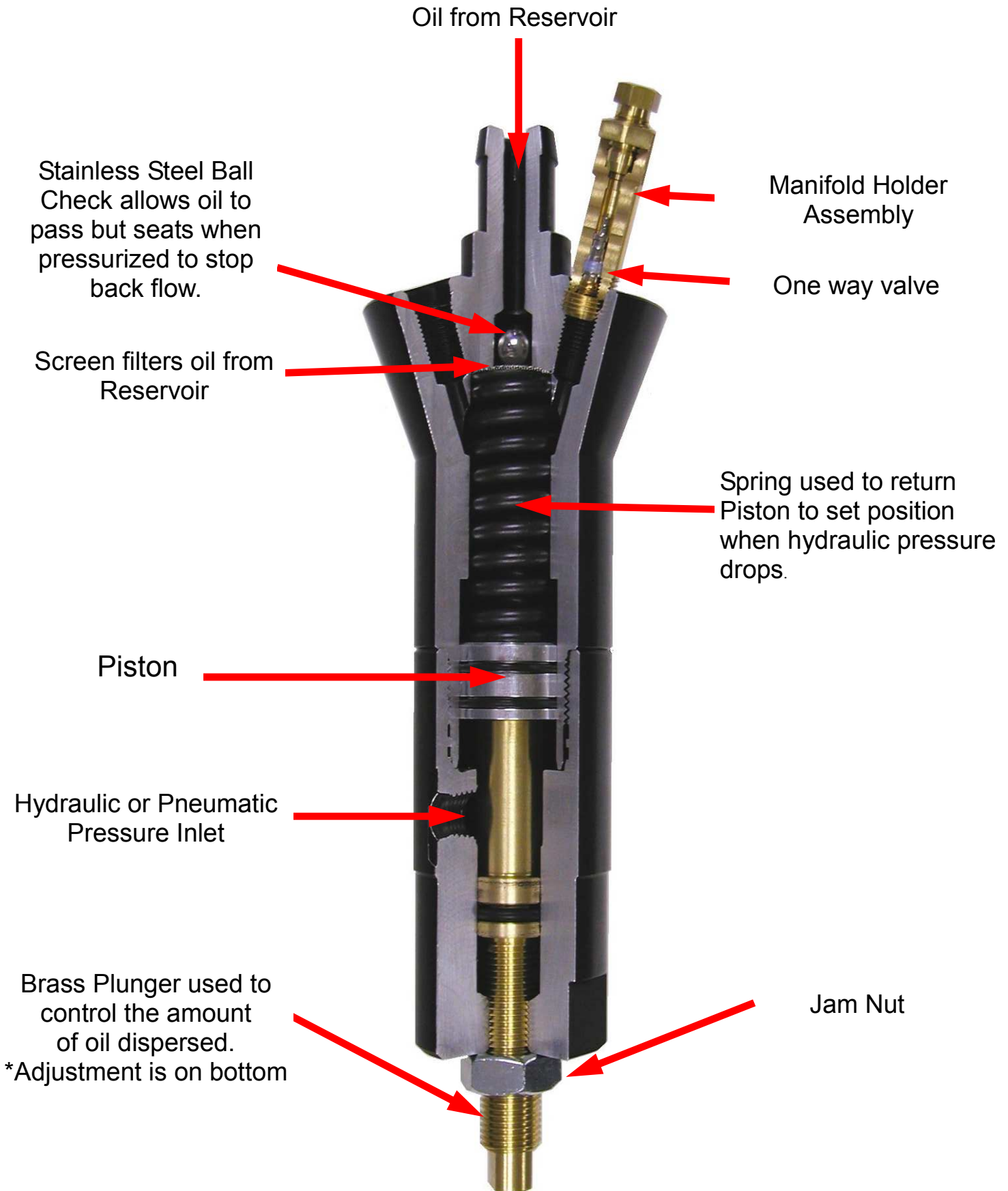
IMPORTANT - USE TWO WRENCHES

- A. One on the bottom flat part of pump
 - B. The other on the brass threaded screw
1. First, loosen the jam nut on the bottom of the oiler and
 2. For Less Oil – Turn Screw up
 3. For More Oil – Turn Screw down

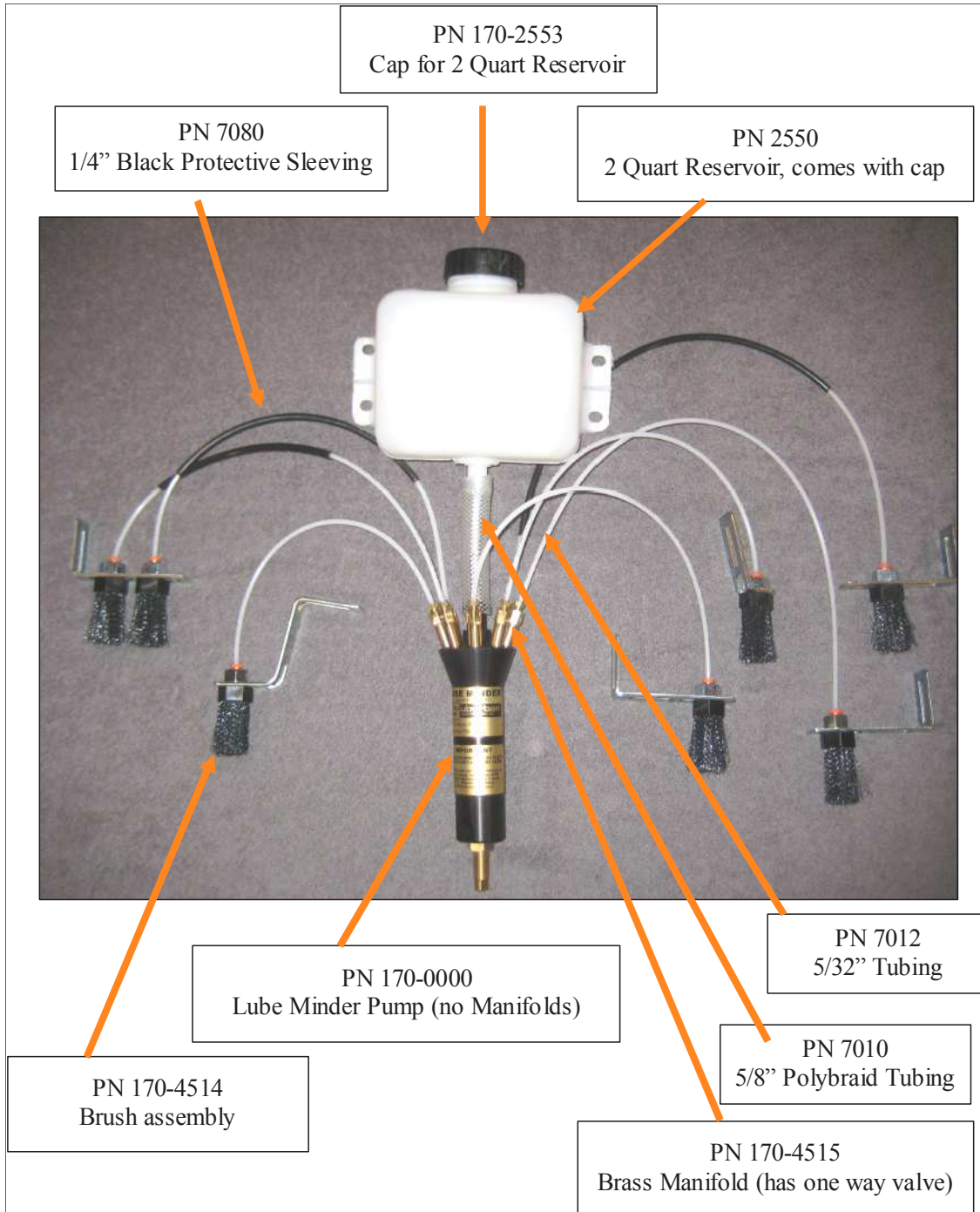
Note: Do not exceed 15 turns in any one direction!



How Does The Pump Work?



Basic Parts of the Lube Minder® System



Frequently Asked Questions with Answers

Why is it necessary to oil my chains and sprockets?

You should consistently lubricate your chain drives for six important reasons.

1. To resist friction and wear between moving parts.
2. To flush away dirt and foreign material.
3. To lubricate chain-sprocket contact surfaces.
4. To slow rust and corrosion.
5. To carry heat away from bearings.
6. To cushion load impact areas of running parts.

If I manually oil my chains every day, why do I need the Automatic Lube Minder®?

A chain assembly is a series of traveling metal bearings requiring proper lubrication to give maximum service. The lubrication forms a separating wedge between the pins and bushings in the chain joints—much like that formed in journal bearings. Oil applied manually to the rollers will not flow between the chain link plates and fill the critical pin bushing joints—ultimately causing constant metal-to-metal contact and debris build-up. As a result of this build-up, chain elongation or “stretch” occurs. Metal wear and debris build-up cause a small distortion at the load area on every pin bushing. A #60 chain has 36 pin bushings per foot. Over a 15 foot length—that equals 540 potential distortion points. This condition directly affects your equipment. As the chain gets longer—it rides too high on the sprocket and often the sprocket teeth begin to look like a wheat sickle. The affected sprockets can cause timing problems or chain and teeth breakage—resulting in costly down time for you and your equipment.

How can the Lube Minder® increase the life of my chains and sprockets?

The Lube Minder® applies oil when the chain is warm and running. This is the best time to apply lubricant because you get the proper lubrication. Consistent oiling minimizes metal-to-metal contact and provides cooling. Oil pumped to a brush located next to the chain maximizes the amount of debris cleaned off the chain while it disperses the oil to the pin bushing joint to help eliminate chain stretch.

Is the Lube Minder® adjustable?

YES. We preset the Lube Minder® at the factory to deliver the maximum amount of oil, which is 0.5 oz (15 ml) per stroke. The Lube Minder® can be adjusted all the way down to zero. This is done by simply turning the brass adjusting screw on the bottom of the pump. This will modify the oil dispensing rate to fit your specific operating conditions.

How long does a full reservoir last?

The standard reservoir is 64 oz, which is 2 quarts (1892 ml = slightly less than 2 liters). The length of time a full reservoir will last varies. The dispensing rate and the number of cycles your equipment uses will determine how long it lasts.

What does a Lube Minder® kit contain?

The Lube Minder® Kit contains a complete system (reservoir with cap, pump, tubing, and brushes). You will need two quarts of new oil to fill the reservoir. Never use “used” oil.

How long will it take to install a Lube Minder® on my equipment?

A dealer will require about 2 hours to install the Lube Minder® Kit.

What type of oil should I use?

SAE 30 is the most common oil used. Most chain manufacturers recommend a good grade of clean petroleum chain oil without additives. Additives generally leave a varnish or gum residue which prevents oil from penetrating the chain joints. The highest viscosity oils flow best between the chain link plates, filling the pin-bushing areas – providing the best wear life.

How does the Lube Minder® cycle?

Lube Minder® pump cycles by tying into any double-acting hydraulic cylinder on your equipment. For example, on a combine, you would use the cylinder which swings the unloader auger back and forth. On a round baler, use the cylinder which opens and closes the tailgate. On a mower-conditioner, use the cylinder which raises and lowers the cutting head.

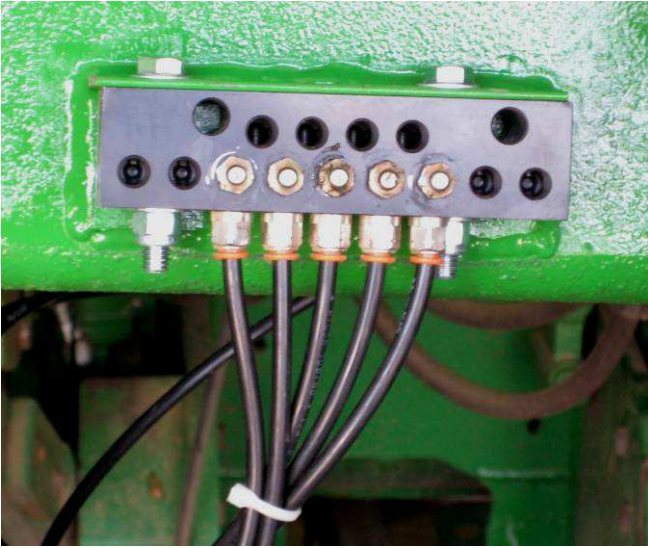
What pressure is required to cycle the Lube Minder® pump?

The most common Lube Minder® pump sold with kits for round balers and combines requires about 300 PSI (21 BAR).

Does the Lube Minder® use hydraulic fluid?

It uses hydraulic fluid only to actuate the Lube Minder® pump within a closed system.

Manual Grease Systems



These are all systems installed by our customers

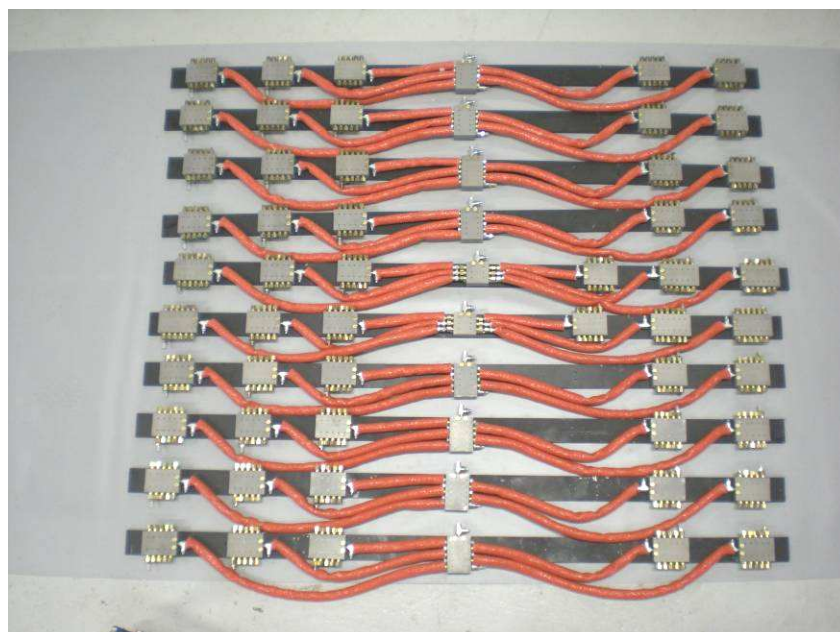
Each customer wanted a system to make greasing their specific equipment easier.

Each customer purchased the fittings, tubing, and grease banks and installed these themselves

Automatic Grease Systems



Suburban Manufacturing Inc is a Bijur distributor

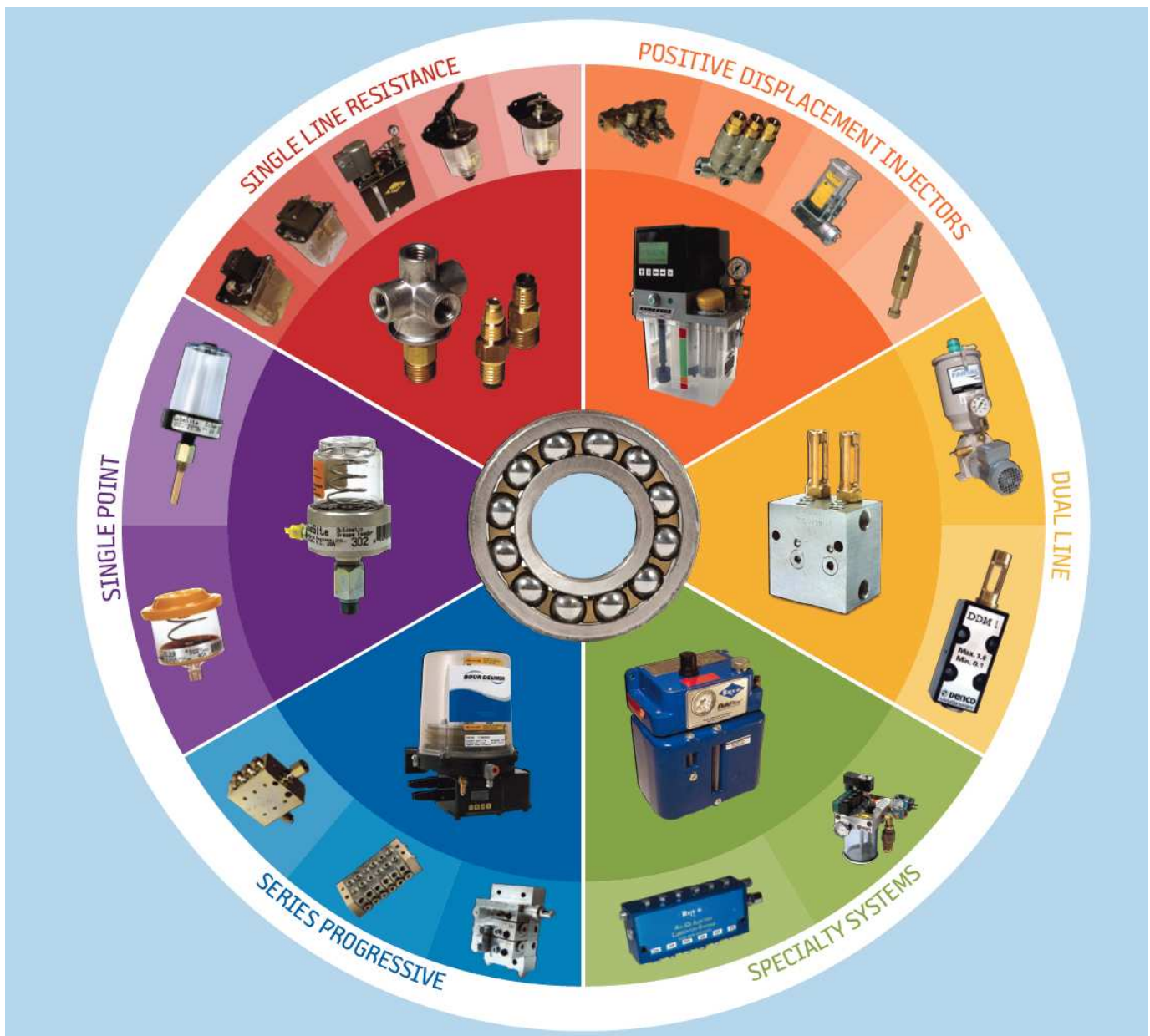


Any Type of Grease System

We can provide any system you desire!

From simple to complex - No system too small - No system to big!

Tell us your needs and we will provide a solution!



Farm • Shop • Garage • ATV • Boat

Systems at a Glance

SYSTEM TYPE	DESCRIPTION
Single Line Resistance	Low-priced, small-sized, low pressure oil systems for use with meter and control units on small to medium machinery.
Positive Displacement Injectors	Precise outputs and flexible design for oil and fluid grease systems on a wide variety of industrial and mobile machinery.
Series Progressive	Positive displacement non-adjusting divider valves with fail-safe monitoring and robust lubricators handle oil and grease applications.
Dual Line	The most respected name in the industry for dual line divider valves now features high-pressure central pumping stations.
Specialty	Air/oil, spray mist and fluid recovery systems give you total control over your lubrication requirements.
Single Point	Football helmet-tough polycarbonate reservoirs and spring-driven greasers, along with wick oilers for individual bearing lubrication.

Industries

INDUSTRY	APPLICATIONS	SLR	PDI	S PRDG	DL	SPECIAL	S POINT
Machine tools	Mills, lathes, VMC, HMC, transfer lines	★	★	★		★	★
Metal forming	Stamping, punch presses, shears, brakes	★	★	★			
Printing machinery	Newspapers, magazines, book bindery, folders, presses	★	★	★	★		★
Packaging/ processing equipment	Breweries, bottlers, personal care, food, pharmaceuticals, home care, boxed/ canned/bottled products		★			★	★
Automotive	Assembly lines, conveyor, storage retrieval, warehousing	★	★	★			★
On-road mobile	Tractor-trailer, garbage, fire truck, street sweepers, concrete mixers		★	★			
Off-road mobile	Dump trucks, loaders		★	★			
Metal processing/ primary metals	Steel, aluminum, brass		★	★	★	★	
Wind energy	Wind turbines		★	★			
Sewage/ water treatment	Vacuum filter, belt press, food pumps		★	★			★
Pulp/paper mills	Woodyard, wet end, dry end		★	★		★	★
Cement works/ brick making	Rock crushers, ball/rod mills, kilns		★	★	★		
Sugar refineries	Cane press		★	★	★		
Power stations/ turbines	Feeder, pulverizer, coal handling, rolling stock		★	★	★		
Cranes	Mobile cranes, piggy packers		★	★			
Material handling	Conveyors, chain belts		★	★		★	★
Glass forming equipment	Bottle and flat (window/windshield)		★	★			
Forestry processing equipment	Debarking, chipper, saw		★	★			
Mining/excavation	Shovels, draglines, drills, haul truck, front end loader		★	★			
Plastics machinery	Injection molding, blow molding, thermal forming	★	★	★			
Farming/agriculture equipment	Balers, tractors		★	★			
Rubber/tire	Goodyear, tire press, Banbury mixer		★	★			
Aerospace/aviation	Component manufacturers	★	★			★	★
Textiles	Weavers, looms	★	★				★

**Suburban Sidewinder Sleeve® • Diamondback Sleeve® • Python Cinch Straps®
Lube Minder® The Automatic Oiler • Grease Systems**



**Suburban Manufacturing Inc.
Toll Free: 1-800-782-5752
www.gosuburban.com**