

# Models 94412, 94424 CHASSIS LUBE ELECTRIC GREASE PUMP Series "A"

# **OWNER/OPERATOR MANUAL**



### SPECIFICATIONS

Electrical Requirements	
Model 94412	12 VDC @ 3.5 amps
Model 94424	24 VDC @ 2 amps
Enclosure Rating	IP 54 - Protected from water
-	sprayed in all directions.
On Time	2 minutes minimum
	30 minutes maximum
	in 2 minute increments
Off Time	1 hour minimum
	15 hours maximum
	in 1 hour increments
Pump Output	0.146 cu. in./min (2.4 cm/min)
Outlet Connection	1/8" NPT (female)
Maximum Recommended	
Operating Pressure	3600 psi (248 bar)
Reservoir Capacity	244 cu. in. (4000 cc)
Lubricant	Greases up to NLGI grade 2
	(depending on the operating
	temperature and type of lubricant)
Temperature Range	- 13°F(-25°C) to +158°F(+70°C)
Pressure Relief Valve	4000 psi +/- 250 psi
	(276 bars) +/- (17 bars)



#### DESCRIPTION

The chassis lube pump is electrically operated and used in a progressive type centralized lubrication system. The pump consists of a pump housing, electric gear motor, a timer and a plastic reservoir with stirring paddle. The high operating pressure allows the pump to supply lubricant up to NLGI #2 grease.

#### **MOUNTING THE PUMP**

Select an easily accessible place of installation which allows access to the timer and lubricant reservoir filler fitting. The pump must be mounted vertically on an even surface by means of three bolts.

#### **TO FILL RESERVOIR**

Fill the reservoir through the grease fitting located at the base of the reservoir, using a hand operated grease pump. Refill reservoir when grease reaches "MIN" mark located on the reservoir. Fill the reservoir up to the "MAX" mark located on the reservoir.

#### **TO PRIME SYSTEM**

**Pump & Supply Line:** After reservoir has been filled with recommended lubricant, loosen the supply line fitting. Operate the pump until lubricant flows from outlet, then tighten fitting.

Feed Lines: Pre-fill each feed line with lubricant before connecting to outlet of divider valve and bearing.



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FORM 402791



#### ELECTRICAL CONNECTIONS

Connect black power cord as follows:

**Red wire** connects to Off/On switch, to 8 amp fuse then to Battery (+).

White wire connects to Battery (-).

Green wire connects to grounding wire.



# PARTS LIST

ITEM	DESCRIPTION	QTY.	PART NUMBER
NO.			/KIT NUMBER
1	Reservoir	1	247673
2	Hose	1	247676
3	Stirring paddle	1	247675
4	Washer	1	24/6/9
5	Bearing ning	2 1	part of kit 246434
7	O-ring	2	246424
8	Intermediate plate	1	246425
9	Shim	1	part of kit 246434
10	Snap ring	2	part of kit 246434
11	Inner ring	1	part of kit 246434
12	Eccentric cam	1	246427
13	Screw	3	part of kits 246435& 246436
14	Oring	2	part of kits 246435 & 246436
15	O-mig	3	& 246437
16	Pump housing	1	246426
17	Closure plug	2	246422
18	Socket with cord	1	part of kits 246429
19	Flat packing	1	part of kits 246429, 246440,
20	Serence		246441, & 246431
20	Plug	4	part of kits 246440 & 246441
22	Sealing plug	1	246423
23	Nipple	1	226141055
24	Screw	2	206137967
25	Grease fitting	1	5050
26	Printed circuit board	1	246420
27	Woodruff key	1	part of kits 246435 & 246436
28	Radiai seal	1	part of Kits 246435, 246436 & 246437
29	12 VDC motor	1	nart of kit 246435
29	24 VDC motor	1	part of kit 246436
30	Housing cover	1	246421
31	Hose	1	not sold
32	Plug	1	part of kit 246441
33	Socket	1	part of kit 246431
34	Check valve	1	part of kit 600268762
35		1	part of kit 600268762
37	Pressure relief assembly	1	246321
38	Plug for motor	1	part of kits 246435 & 246436
39	Grease cap	1	242125
40	Grease fitting	1	5045
41	Adapter for relief assembly	1	246428
42	Lid	1	247671
43	Fixed paddle		24/664
44	O-ring Adaptor	1	24/0//
40 46	O-ring	1	247070
-0-			210141002
		1	

## REMOTE MANUAL LUBE PUSHBUTTON

If a remote manual lube pushbutton is required, order a 246322 Manual Lube Kit (consisting of a 32 ft. cord and plug) and:

for a 12 volt pump, order 241419 - Lighted Manual Lube Switch

for a 24 volt pump, order 241484 - Lighted Manual Lube Switch

#### **IMPORTANT:**

When using a Model 94412 or 94424 to replace an old style 103 pump with remote manual lube switch, only the 246322 Manual Lube Kit is required.

The wiring for the remote light used on the 103 pump must be changed for the new Models 94412 and 94424. The existing wire that connects the light to the Battery (-) must be disconnected. Reconnect it to the Battery (+).

#### **MOUNTING HOLE LOCATIONS**



Fig. 1

Form 402791

# TIMER OPERATION

The Off timer begins accumulating time when the ignition switch closes. When the Off timer reaches the preset value, the pump will turn on. The pump remains activated for the period of time that is preset on the On timer.

When the ignition switch opens, the Off timer will retain its accumulated time for a period of five days. When the ignition switch closes during the five dayperiod, the Off timer will resume timing from the accumulated time it reached prior to the ignition switch opening. If ignition switch is not closed before the end of five day period, timer will begin with an On period.

Remove Sealing Plug (Item 22) to access manual lube switch, timer adjustments or to view the system LED's.



- 1. The LED marked "battery" lights when power is applied to the PC board.
- 2. The LED marked "motor" lights when pumping lubricant.
- 3. Depressing pushbutton for 2 seconds will initiate a manual lube event.
- 4. Off time rotary switch. Can be adjusted to 15 values (see chart below).
- 5. On time rotary switch. Can be adjusted to 15 values (see chart below).

IMPORTANT:	Do	Not	use	the Z	Zero	positi	ion	located	on
	the	Off	time	and	On	time	sw	itches.	

ORTANT:	<b>RIANI:</b> Do Not use the Zero position located on the Off time and On time switches.			on		1	Woodruff key		
						1	Radial seal		
Off-Time	Interval	On-Time				1	24 VDC motor		
Rotary	Between	Rotary	Pump will			1	Plug for motor		
Switch	Lube	Switch	run for:		246437		Housing Seal Kit contains:		
Setting	Cycles	Setting				3	O-ring		
0	Will not run	0	Will not run			1	Radial seal		
1	1 hour	1	2 minutes		246440	1	Power Plug Kit contains:		
2	2 hours	2	4 minutes				Flat packing		
_	0 h	_	0	-		4	Screws		
3	3 nours	3	6 minutes		040444	1	Plug		
4	4 hours	4	8 minutes		246441		Optional Manual Lube Plug Set contains:		
5	5 hours	5	10 minutes			1	Flat packing		
6	6 hours	6	12 minutes			1	Plua		
-	7	-	4.4	-	247664	1	Fixed paddle		
1	7 nours	1	14 minutes	4	247671	1	Lid		
8	8 hours	8	16 minutes		247673	1	Reservoir		
9	9 hours	9	18 minutes		247675	1	Stirring paddle		
Α	10 hours	Α	20 minutes		247676	1	Hose		
B	1 1 hours	в	22 minutes		247677	1	O-ring		
	1 1 Hours		ZZ minutes	- 1	247678	1	Adapter		
С	12 hours	C	24 minutes		247679	1	Washer		
D	13 hours	D	26 minutes		219141382	1	O-ring		
E	14 hours	E	28 minutes		226141055	1	Nipple		
F	15 hours	F	30 minutes		000268762	1	Chock value		
			1	-		1	Dump element		
							Caskat		
RETAIN THIS INFORMATION FOR FUTURE REFERENCE _									
	When ordering replacement parts, list: Part Number, Description, Model Number and Series Lette								

#### SERVICE PARTS/KITS DESCRIPTION

Pressure relief assembly

Adapter for relief assembly

Bearing & Seal Kit contains:

12 VDC Motor Kit contains:

24 VDC Motor Kit contains:

Optional Manual Lube Cord Set contains:

Power Cord Kit contains:

Printed circuit board

Grease fitting

Grease fitting

Housing cover

Intermediate plate

Socket with cord

Socket with cord

Flat packing

Flat packing

Bearing ring

Washer

Bearing

Snap ring

Inner ring

Screw

Washer

Woodruff key

12 VDC motor

Plug for motor

Radial seal

O-ring

Screw

Washer

O-ring

Shim

Pump housing

Eccentric cam

Closure plug

Sealing plug

O-ring

Grease cap

ITEM

NO.

PART NO.

QTY.

tter. LINCOLN provides a Distributor Network that stocks equipment and replacement parts.