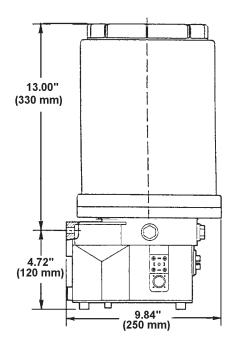


# Models 94812, 94824 **CHASSIS LUBE ELECTRIC GREASE PUMP** Series "B"

#### **OWNER/OPERATOR MANUAL**





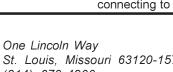
# WARNING

Do Not use pump without pressure relief valve.

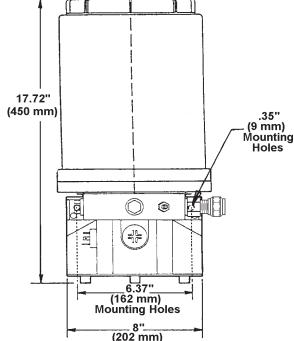
## **SPECIFICATIONS**

Electrical Requirements	
Model 94812	12 VDC @ 3.5 amps
Model 94824	24 VDC @ 2 amps
©Enclosure Rating	IP 6K9K - 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	
Reservoir Capacity	488 cu. in. (8000 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	, , , , , , , , , , , , , , , , , , , ,

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## **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. (See Fig. 1 on page 3.)

## 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.

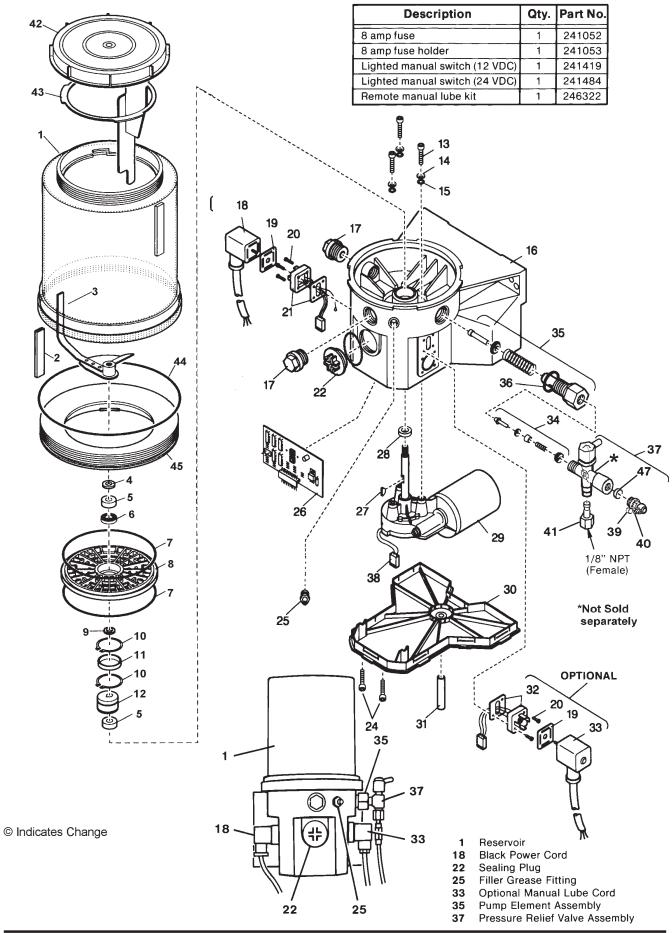
## TO PRIME SYSTEM

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.



# **SYSTEM ACCESSORIES**



#### **ELECTRICAL CONNECTIONS**

Connect black power cord as follows:

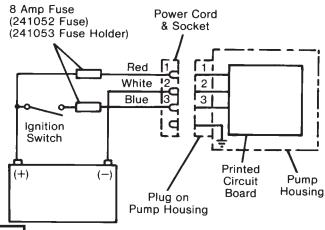
Red wire connects to 8 amp fuse then to Battery (+).

White wire connects to Battery (-).

**Blue wire** connects to 8 amp fuse, to ignition switch, then to Battery (+).

# **PARTS LIST**

1	ITEM NO.	DESCRIPTION	QTY.	PART NUMBER /KIT NUMBER
2			,	0.47074
3 Stirring paddle 4 Washer 5 Bearing ring 6 Bearing 7 O-ring 7 O-ring 8 Intermediate plate 9 Shim 1				
4 Washer 5 Bearing ring 6 Bearing 7 O-ring 1 2 246424 8 Intermediate plate 1 246425 9 Shim 1 1 part of Kit 246434 10 Snap ring 2 2 part of Kit 246434 11 Inner ring 1 1 part of Kit 246434 11 Inner ring 1 1 part of Kit 246434 12 Eccentric cam 1 246427 13 Screw 3 part of Kits 246435 & 246436 14 Washer 13 Screw 3 part of Kits 246435 & 246436 15 O-ring 1 246426 17 Closure plug 2 246422 18 Socket with cord 1 part of Kits 246435 & 246436 19 Flat packing 1 246429 19 Flat packing 1 part of Kits 246429 246441, & 246441 22 Sealing plug 1 part of Kits 246440 & 246441 22 Sealing plug 1 part of Kits 246440 & 246441 22 Sealing plug 1 246423 23 Nipple 1 226141055 24 Screw 10 206137967⊚ 25 Grease fitting 26 Printed circuit board 27 Woodruff key 28 Radial seal 29 12 VDC motor 20 Housing cover 21 Hose 21 Hose 22 Plug 23 Socket 24 Plug 24 To Kits 246435 246437 29 12 VDC motor 21 part of Kits 246436 246421 31 Hose 1 part of Kits 246436 32 Plug 33 Socket 1 part of Kits 246436 34 Check valve 1 part of Kits 246431 34 Check valve 1 part of Kits 246431 35 Pump element 36 Gasket 1 part of Kits 246431 37 Pressure relief assy. 38 Plug for motor 39 Grease cap 1 247677 43 Fixed paddle 1 247677 44 O-ring 1 247677 45 Adapter 46 O-ring 1 247678 2191141382		1		
5         Bearing ring         2         part of Kit 246434           6         Bearing         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         1         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         Washer         3         part of Kits 246435 & 246436           15         O-ring         3         part of Kits 246435 & 246436           16         Pump housing         1         246426           17         Closure plug         2         246426           18         Socket with cord         1         part of Kits 246429           19         Flat packing         1         part of Kits 246429           20         Screws         4         part of Kits 246440         246441           21         Pilug         1         part of Kit 246440				
6 Bearing				=
7 O-ring 8 Intermediate plate 9 Shim 10 Snap ring 11 part of Kit 246434 11 lnner ring 11 part of Kit 246434 12 Eccentric cam 11 246427 13 Screw 13 part of Kits 246435 & 246436 14 Washer 15 O-ring 16 Pump housing 17 Closure plug 18 Socket with cord 19 Flat packing 19 Flat packing 10 Screw 10 Screws 11 part of Kits 246435 & 246436 17 Closure plug 19 Flat packing 10 part of Kits 246429 19 Flat packing 10 part of Kits 246429 19 Flat packing 10 part of Kits 246429 19 Plug 10 part of Kits 246440, 246441, & 246441 24 Plug 11 part of Kits 246440 & 246441 25 Sealing plug 16 Printed circuit board 27 Woodruff key 28 Radial seal 29 12 VDC motor 29 12 VDC motor 29 12 VDC motor 20 11 part of Kits 246435 & 246436 246437 29 12 VDC motor 20 11 part of Kits 246435 & 246436 246437 29 12 VDC motor 20 11 part of Kits 246435 & 246436 246437 29 12 VDC motor 20 11 part of Kits 246435 & 246436 246437 29 12 VDC motor 20 11 part of Kits 246435 & 246436 246437 29 12 VDC motor 20 11 part of Kit 246431 20 part of Kit 246435 21 part of Kit 246436 22 part of Kit 246435 & 246436 246437 29 12 VDC motor 20 11 part of Kit 246436 246437 29 12 VDC motor 20 11 part of Kit 246431 20 part of Kit 246431 21 part of Kit 246431 22 part of Kit 246431 23 part of Kit 246436 246437 24 part of Kit 246436 246437 25 part of Kit 246436 246437 26 part of Kit 246436 246437 27 part of Kit 246436 246437 29 12 VDC motor 20 11 part of Kit 246436 246437 29 12 VDC motor 20 11 part of Kit 246436 246437 24 Plug 25 part of Kit 246441 26 part of Kit 246436 246437 29 12 VDC motor 20 12 part of Kit 246436 246437 246437 25 part of Kit 246436 246437 26 part of Kit 246441 27 part of Kit 246436 246437 29 12 VDC motor 20 12 part of Kit 246436 246437 249 part of Kit 246436 246437 246430 246441 246420 246441 246420 246441			I	
8				
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10		1		
11	10	Snap ring	2	
13   Screw   14   Washer   3   part of Kits 246435 & 246436   part of Kits 246436   part of Kits 246437   246426   246422   part of Kits 246429   part of Kits 246440 & 246441   part of Kits 246436   part of Kits 246435 & 246436   part of Kits 246435   part of Kits 246436   part of Kits 246431   part of Kit 600268762   part of Kit 824335 & 246436   part of Kits 824	11		1	part of Kit 246434
14	12	Eccentric cam	1	246427
15	13	Screw	3	part of Kits 246435 & 246436
\$ 246437  16 Pump housing	14	Washer	3	part of Kits 246435 & 246436
16	15	O-ring	3	part of Kits 246435, 246436
17				& 246437
18	16		1	246426
19	17		2	246422
246441, & 246431   part of Kits 246440 & 246441   21   Plug			· .	
20   Screws   4   part of Kits 246440 & 246441     21   Plug	19	Flat packing	1	
21	1			•
22       Sealing plug       1       246423         23       Nipple       1       226141055         24       Screw       10       206137967©         25       Grease fitting       1       5050         26       Printed circuit board       1       246420         27       Woodruff key       1       part of Kits 246435 & 246436         28       Radial seal       1       part of Kits 246435, 246436         29       12 VDC motor       1       part of Kit 246435         29       24 VDC motor       1       part of Kit 246436         30       Housing cover       1       part of Kit 246431         31       Hose       1       part of Kit 246441         33       Socket       1       part of Kit 246441         33       Socket       1       part of Kit 246441         34       Check valve       1       part of Kit 246431         34       Check valve       1       part of Kit 600268762         35       Pump element       1       part of Kit 600268762         36       Gasket       1       part of Kits 243435 & 246436         39       Grease cap       1       249567©			l .	
23				
24       Screw       10       206137967©         25       Grease fitting       1       5050         26       Printed circuit board       1       246420         27       Woodruff key       1       part of Kits 246435 & 246436         28       Radial seal       1       part of Kits 246435, 246436         29       12 VDC motor       1       part 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 246431         34       Check valve       1       part of Kit 600268762         35       Pump element       1       part of Kit 600268762         36       Gasket       1       part of Kit 600268762         37       Pressure relief assy.       1       249567©         38       Plug for motor       1       part of Kits 243435 & 246436         39       Grease cap       1       249568©				=
25         Grease fitting         1         5050           26         Printed circuit board         1         246420           27         Woodruff key         1         part of Kits 246435 & 246436           28         Radial seal         1         part of Kits 246435, 246436           29         12 VDC motor         1         part 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         Pump element         1         part of Kit 600268762           36         Gasket         1         part of Kit 600268762           37         Pressure relief assy.         1         249567©           38         Plug for motor         1         part of Kits 243435 & 246436           39         Grease cap         1         249568©           41         Adapter for relief assy.         1 <td< td=""><td></td><td>1 ''</td><td></td><td></td></td<>		1 ''		
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28       Radial seal       1       part of Kits 246435, 246436 & 246437         29       12 VDC motor       1       part 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 600268762         35       Pump element       1       part of Kit 600268762         36       Gasket       1       part of Kit 600268762         37       Pressure relief assy.       1       249567©         38       Plug for motor       1       part of Kits 243435 & 246436         39       Grease cap       1       242125         40       Grease fitting       1       249568©         41       Adapter for relief assy.       1       249565©         42       Lid       1       247671         43       Fixed paddle       1       247672         44       O-ring       1       247678         46       O-ring       1       219141382				
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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       Pump element       1       part of Kit 600268762         36       Gasket       1       part of Kit 600268762         37       Pressure relief assy.       1       249567©         38       Plug for motor       1       part of Kits 243435 & 246436         39       Grease cap       1       242125         40       Grease fitting       1       249568©         41       Adapter for relief assy.       1       249565©         42       Lid       1       247671         43       Fixed paddle       1       247672         44       O-ring       1       247678         45       Adapter       1       247678         46       O-ring       1       219141382	29	12 VDC motor	1	
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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       Pump element       1       part of Kit 600268762         36       Gasket       1       part of Kit 600268762         37       Pressure relief assy.       1       249567©         38       Plug for motor       1       part of Kits 243435 & 246436         39       Grease cap       1       242125         40       Grease fitting       1       249568©         41       Adapter for relief assy.       1       249565©         42       Lid       1       247671         43       Fixed paddle       1       247672         44       O-ring       1       247678         45       Adapter       1       247678         46       O-ring       1       219141382	30	Housing cover	1	1 .
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34         Check valve         1         part of Kit 600268762           35         Pump element         1         part of Kit 600268762           36         Gasket         1         part of Kit 600268762           37         Pressure relief assy.         1         249567©           38         Plug for motor         1         part of Kits 243435 & 246436           39         Grease cap         1         242125           40         Grease fitting         1         249568©           41         Adapter for relief assy.         1         249565©           42         Lid         1         247671           43         Fixed paddle         1         247672           44         O-ring         1         247678           45         Adapter         1         247678           46         O-ring         1         219141382	32	Plug	1	part of Kit 246441
35	33	Socket	1	part of Kit 246431
36 Gasket 1 part of Kit 600268762 37 Pressure relief assy. 1 249567© 38 Plug for motor 1 part of Kits 243435 & 246436 39 Grease cap 1 242125 40 Grease fitting 1 249568© 41 Adapter for relief assy. 1 249565© 42 Lid 1 247671 43 Fixed paddle 1 247672 44 O-ring 1 247677 45 Adapter 1 247678 46 O-ring 1 219141382	34	Check valve	1	part of Kit 600268762
37       Pressure relief assy.       1       249567©         38       Plug for motor       1       part of Kits 243435 & 246436         39       Grease cap       1       242125         40       Grease fitting       1       249568©         41       Adapter for relief assy.       1       249565©         42       Lid       1       247671         43       Fixed paddle       1       247672         44       O-ring       1       247678         45       Adapter       1       247678         46       O-ring       1       219141382	35	Pump element	1	part of Kit 600268762
38 Plug for motor 1 part of Kits 243435 & 246436 39 Grease cap 1 242125 40 Grease fitting 1 249568© 41 Adapter for relief assy. 1 249565© 42 Lid 1 247671 43 Fixed paddle 1 247672 44 O-ring 1 247677 45 Adapter 1 247678 46 O-ring 1 219141382	36	Gasket	1	part of Kit 600268762
39       Grease cap       1       242125         40       Grease fitting       1       249568©         41       Adapter for relief assy.       1       249565©         42       Lid       1       247671         43       Fixed paddle       1       247672         44       O-ring       1       247677         45       Adapter       1       247678         46       O-ring       1       219141382	37	Pressure relief assy.	1	
40     Grease fitting     1     249568©       41     Adapter for relief assy.     1     249565©       42     Lid     1     247671       43     Fixed paddle     1     247672       44     O-ring     1     247677       45     Adapter     1     247678       46     O-ring     1     219141382				
41 Adapter for relief assy. 42 Lid 43 Fixed paddle 44 O-ring 45 Adapter 46 O-ring 41 249565⊚ 4247671 43 247672 44 247677 45 Adapter 46 247678 46 1 247678		· ·		
42     Lid     1     247671       43     Fixed paddle     1     247672       44     O-ring     1     247677       45     Adapter     1     247678       46     O-ring     1     219141382				
43       Fixed paddle       1       247672         44       O-ring       1       247677         45       Adapter       1       247678         46       O-ring       1       219141382				
44     O-ring     1     247677       45     Adapter     1     247678       46     O-ring     1     219141382				
45       Adapter       1       247678         46       O-ring       1       219141382				
46 O-ring 1 219141382				
1   243303@				
	1 " '	JOE AI	'	



## 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 94812 or 94824 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 94812 and 94824. The existing wire that connects the light to the Battery (-) must be disconnected. Reconnect it to the Battery (+).

#### MOUNTING HOLE LOCATIONS

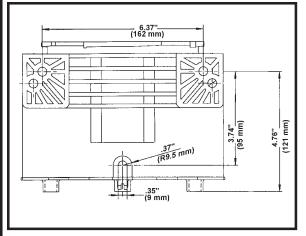


Fig. 1

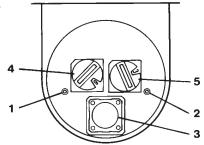
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### **TIMER OPERATION**

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 day period, 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.
- 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).
- On time rotary switch. Can be adjusted to 15 values (see chart below).

IMPORTANT: Do Not use the Zero position located on the Off time and On time switches.

Off-Time Rotary Switch Setting	Interval Between Lube Cycles	On-Time Rotary Switch Setting	Pump will run for:
0	Will not run	0	Will not run
1	1 hour	1	2 minutes
2	2 hours	2	4 minutes
3	3 hours	3	6 minutes
4	4 hours	4	8 minutes
5	5 hours	5	10 minutes
6	6 hours	6	12 minutes
7	7 hours	7	14 minutes
8	8 hours	8	16 minutes
9	9 hours	9	18 minutes
Α	10 hours	Α	20 minutes
В	1 1 hours	В	22 minutes
С	12 hours	С	24 minutes
D	13 hours	D	26 minutes
E	14 hours	E	28 minutes
F	15 hours	F	30 minutes

# **SERVICE PARTS/KITS**

	_	SERVICE PARTS/RITS	
Part No.	Qty.	Description	Item No.
249568©	1	Grease fitting	40
5050	1	Grease fitting	25
242125	1	Grease cap	39
249567©	1	Pressure relief assembly	37
246420	1	Printed circuit board	26
246421	1	Housing cover	30
		-	
246422	1	C losure plug	17
246423	1	Sealing plug	22
246424	2	O-ring	7
246425	1	Intermediate plate	8
246426	1	Pump housing	16
246427	1	E ccentric cam	12
249565©	1	A dapter for relief assembly	41
_	1	· ·	47
249569©	'	Seal	47
246429	1	Power Cord Kit contains: Socket with cord	18
	1	Flat packing	19
246431		Optional Manual Lube Cord Set contains:	
	1 1	Flat packing Socket with cord	19 33
246434	<del>-</del>	Bearing & Seal Kit contains:	1
	1	Washer	4
	2	Bearing ring Bearing	5 6
	1	Shim	9
	2	Snap ring	10 11
246435	'	Inner ring 12 VDC Motor Kit contains:	- ''
240433	3	S crew	13
	3	Washer	14
	3 1	O-ring Woodruff key	15 27
	1	Radial seal	28
	1	12 VDC motor	29 38
246436	'	Plug for motor 24 VDC Motor Kit contains:	30
240430	3	S crew	13
	3	Washer	14
	3 1	O-ring Woodruff key	15 27
	1	Radial seal	28
	1	24 VDC motor Plug for motor	29 38
246437		Housing Seal Kit contains:	
	3	O-ring	15
0.40.440	1	Radial seal	28
246440	1	Power Plug Kit contains: Flat packing	19
	4	Screws	20
0.40.4.4	1	Plug	21
246441	1	Optional Manual Lube Plug Set contains: Flat packing	19
	4	Screws	20
	1	P lug	32
247671	1	Lid	42
247672	1	Fixed paddle	43
247674	1	Reservoir	1
247675	1	Stirring paddle	3
247676	1	Hose	2
247677	1	O-ring	44
247678		· ·	
	1	Adapter	45
247679	1	Washer	4
219141382	1	O-ring	46
226141055	1	Nipple	23
206137967©	10	Screw	24
600268762		Pump Element Assembly contains:	1
	1	Check valve	34
	1 1	Pump element Gasket	35 36
	-	icates Change	

© Indicates Change

# RETAIN THIS INFORMATION FOR FUTURE REFERENCE

When ordering replacement parts, list: Part Number, Description, Model Number and Series Letter. LINCOLN provides a Distributor Network that stocks equipment and replacement parts.