

HYDRAULIC OPERATED LUBRIGUN SINGLE STROKE (WITH ELECTRICAL CONTROLS)

Series "A" Model 83483

OPERATING INSTRUCTIONS PARTS AND SERVICE

FOR DISPENSING FLUID LUBRICANTS

SPECIFICATIONS

(For Use on 115 Volt, 60 Cycle Power Only)

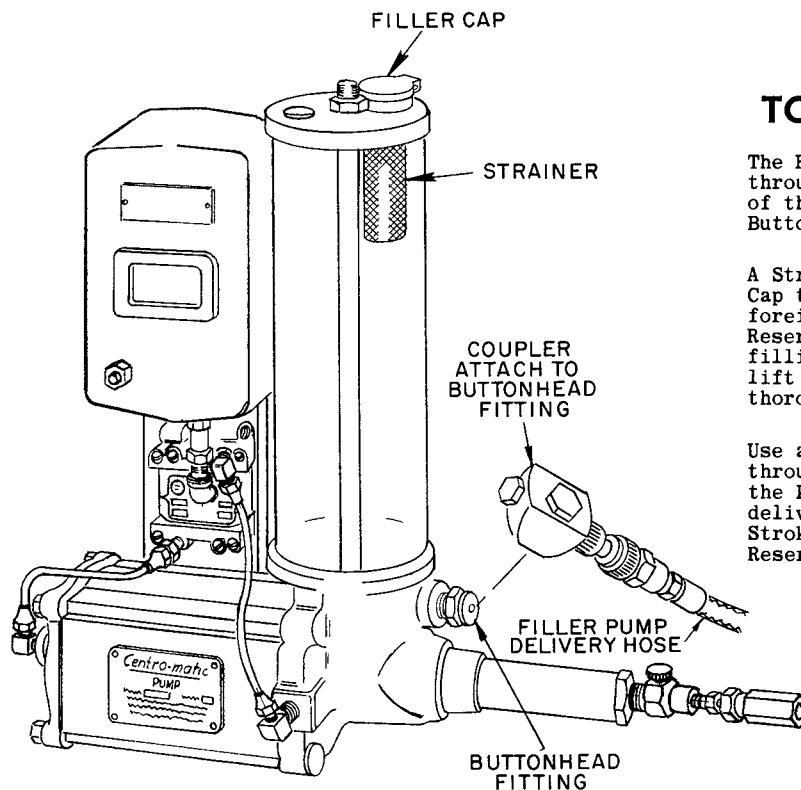
HIGH PRESSURE (2500 P.S.I. MAX.) FLUID LUBRICANT SYSTEM.
RATIO 31 TO 1
LUBRICANT OUTPUT PER STROKE 1.4 CUBIC IN.
HYDRAULIC PRESSURE 100 P. S. I. MAX.
LUBRICANT PRESSURE 1800 P. S. I. MIN 3000 P. S. I. MAX.
RESERVOIR CAPACITY 5 PINTS.

The 83483 Lubrigun is used as the Pumping Unit for a Centralized Lubrication System having a Single Line Circuit of Injectors.

It is an HYDRAULIC Operated Single Stroke Pump requiring OIL for both forward and return stroke and discharges an established amount of Lubricant (1.4 cu. in.) into the Circuit for each Pump Stroke (Lubrication Cycle).

The total quantity of Lubricant needed for the Lubrication Cycle of the System must not exceed the amount of Lubricant discharged per Pump Stroke.

NOTE: Refer to "Lincoln Centro-Matic System Planning Manual" for layout and planning of System.



TO FILL RESERVIOR

The Reservoir can be filled either through the Filler Cap at the top of the Reservoir or through the Buttonhead Fitting in the Pump Body.

A Strainer is located at the Filler Cap to prevent the induction of foreign material into the lubricant Reservoir. Inspect Strainer before filling Reservoir. When necessary lift Strainer out and clean thoroughly.

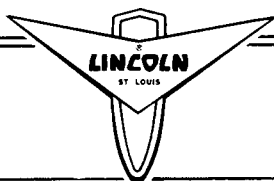
Use a Filler Pump to fill Reservoir through the Buttonhead Fitting in the Pump Body. Attach Coupler on delivery hose to Buttonhead Fitting. Stroke Filler Pump handle until Reservoir is filled.

TO PRIME SYSTEM

SUPPLY LINES: After Lubrigun Reservoir has been filled with recommended Lubricant. Remove all Plugs in dead ends of the Injector Manifolds and Supply Lines. Operate Lubrigun until Lubricant flows from any Plug Opening. Close opening with Plug. Continue operating Lubrigun until Lubricant flows from another Plug Opening, repeat this procedure until all Supply Lines are primed and Plug Openings closed.

FEEDER LINES: Fill each Feed Line with Lubricant before connecting lines to outlet of Injectors and Bearings. This will prevent having to cycle each Injector for every inch of Feeder Line between Injector and Bearing.

INJECTORS: Check each individual Injector for proper operation. (Refer to "Lincoln Centro-Matic System Planning Manual" for operation of the Injectors).



LINCOLN ENGINEERING COMPANY

DIVISION OF THE McNEIL MACHINE & ENGINEERING CO

4010 GOODFELLOW BLVD.

ST. LOUIS 20, MO.

SECTION - **C8**

PAGE - **118**

MODEL 83483 SINGLE STROKE LUBRIGUN Series "A"

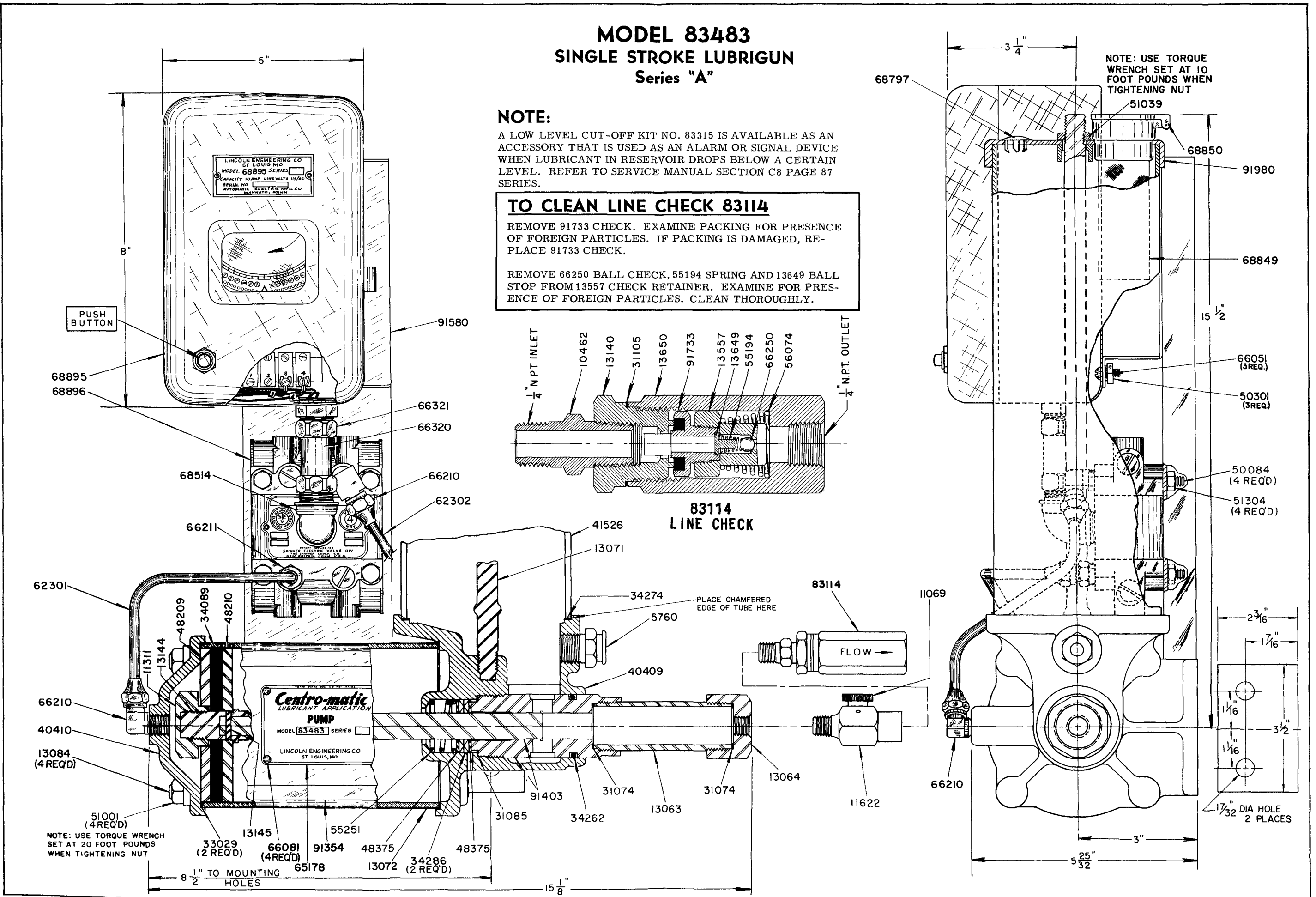
NOTE:

A LOW LEVEL CUT-OFF KIT NO. 83315 IS AVAILABLE AS AN ACCESSORY THAT IS USED AS AN ALARM OR SIGNAL DEVICE WHEN LUBRICANT IN RESERVOIR DROPS BELOW A CERTAIN LEVEL. REFER TO SERVICE MANUAL SECTION C8 PAGE 87 SERIES.

TO CLEAN LINE CHECK 83114

REMOVE 91733 CHECK. EXAMINE PACKING FOR PRESENCE OF FOREIGN PARTICLES. IF PACKING IS DAMAGED, REPLACE 91733 CHECK.

REMOVE 66250 BALL CHECK, 55194 SPRING AND 13649 BALL STOP FROM 13557 CHECK RETAINER. EXAMINE FOR PRESENCE OF FOREIGN PARTICLES. CLEAN THOROUGHLY.



PUSH
BUTTON

LINCOLN ENGINEERING CO
ST LOUIS MO
MODEL 68895 SERIES
CAPACITY 10 AMP LINE VOLTS 115/60
SERIAL NO. ELECTRIC MFG. CO
AUTOMATIC ELECTRIC MFG. CO
ANN ARBOR, MICH

Centro-matic
LUBRICANT APPLICATION
PUMP
MODEL 83483 SERIES
LINCOLN ENGINEERING CO
ST LOUIS, MO

**83114
LINE CHECK**

NOTE: USE TORQUE
WRENCH SET AT 10
FOOT POUNDS WHEN
TIGHTENING NUT

PLACE CHAMFERED
EDGE OF TUBE HERE

FLOW →

17/32" DIA HOLE
2 PLACES

68895
68896

91580

66321
66320

68514

66210

62302

66211

62301

48209
34089
48210

41526

13071

34274

5760

83114

11069

66210

40410

13084
(4 REQ'D)

51001
(4 REQ'D)

33029
(2 REQ'D)

66081
(4 REQ'D)

91354

48375

48375

34286
(2 REQ'D)

13072

31085

34262

13063

91403

31074

31074

13064

11622

66210

NOTE: USE TORQUE
WRENCH SET AT 20 FOOT POUNDS
WHEN TIGHTENING NUT

8 1/2" TO MOUNTING
HOLES

15 1/8"

5 25/32"

2 3/16"
1 7/16"

1/16"
3 1/2"
1/16"

3"
5 25/32"

68797

51039

68850

91980

68849

15 1/2"

66051
(3 REQ.)

50301
(3 REQ.)

50084
(4 REQ'D)

51304
(4 REQ'D)

OPERATION

The predetermined frequency of the lubrication cycle is set on the adjustable ELECTRIC CONTROL SWITCH (refer to 68895, Section C8, page 48 series for proper setting of ELECTRIC CONTROL SWITCH).

Lubrication cycle starts when a TRIP PIN in the DIAL of the ELECTRIC CONTROL SWITCH contacts the SINGLE POLE SWITCH, (or when OPERATOR holds PUSH BUTTON DEPRESSED) energizing the SOLENOID of the VALVE, opening PASSAGE PORTS to admit OIL to LUBRIGUN.

TRIP PIN contact with the SINGLE POLE SWITCH is pre-set and will vary from 15 seconds to one minute (or when operator releases PUSH BUTTON). SWITCH MOUNTING permits a slight adjustment.

This time interval permits OIL to enter the LUBRIGUN CYLINDER to powerize the system actuating the INJECTORS.

As the TRIP PIN contact is released (or operator releases PUSH BUTTON) the SOLENOID is DE-ENERGIZED. The VALVE returns to its normal position to direct OIL to the opposite side of the LUBRIGUN CYLINDER.

As LUBRIGUN returns to its normal position, the LUBRICANT PRESSURE in the system is relieved permitting the INJECTORS to recharge.

SYSTEM is now ready for the next LUBRICATION CYCLE.

WHAT TO DO IF

PUMP LOSES PRIME - Check Lubricant Supply.

SYSTEM FAILS TO CYCLE and LINCOLN CENTRO-MATIC SYSTEM PLANNING MANUAL has been followed - Lubricant is leaking by packing of 91733 check or 66250 check. Remove and clean. Failure of Injectors to cycle can also be caused by Leak in Supply Lines. Examine Supply Lines and Connections.

PUMP FAILS TO OPERATE - Check OIL Supply. 100 P.S.I. Maximum Required. Refer to Operation Instructions.

REPAIR PARTS LIST

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
5760	Button Head Fitting	34089	Packing	65178	Name Plate
10462	Nipple	34262	"O" Ring Packing	66051	Lockwasher
11069	Needle	34274	Gasket	66081	Drive Screw
11311	Piston Nut	34286	Gland Packing	66210	90° Tubing Connector
11622	Body	40409	Body Casting	66211	Straight Tubing Connector
13063	Pump Tube	40410	Cylinder Cap	66250	5/32" Dia. Steel Ball
13064	Outlet	41526	Reservoir & Stick-Cal	66320	1/2" Thin Wall Conduit
13071	Tie Rod	48209	Washer	66321	Straight Conduit Fitting
13072	Cylinder	48210	Washer	68514	90° Conduit Fitting
13084	Tie Rod	48375	Washer	68797	Plug Button
13140	Check Seat	50084	Cap Screw	68849	Strainer
13144	Packing Stud	50301	Stove Bolt and Nut	68850	Filler Cap
13145	Pin	51001	Hex. Nut	68895	Electric Time Switch
13557	Check Retainer	51039	Hex. Nut	68896	Four Way Solenoid Valve
13649	Ball Stop	51304	Nut	83114	Check Assembly
13650	Body	55194	Spring	91354	Name Plate Bracket Assembly
31074	Gasket	55251	Spring	91403	Bushing and Plunger Assembly
31085	Gasket	56074	Spring	91580	Support Assembly
31105	Gasket	62301	Copper Tube	91733	Check Assembly
33029	Gasket	62302	Copper Tube	91980	Reservoir Cap

PARTS - LOANER PUMPS - REPAIRS BY FACTORY TRAINED SERVICEMEN AVAILABLE IN
AUTHORIZED SERVICE DEPARTMENTS. LIST FURNISHED UPON REQUEST.

LINCOLN ENGINEERING COMPANY

DIVISION OF THE McNEIL MACHINE & ENGINEERING CO.

4010 GOODFELLOW BLVD.

ST. LOUIS 20, MO.