INSTRUCTION BOOK and REPAIR PARTS LIST



Model 50 **MADISON-KIPP LUBRICATOR**

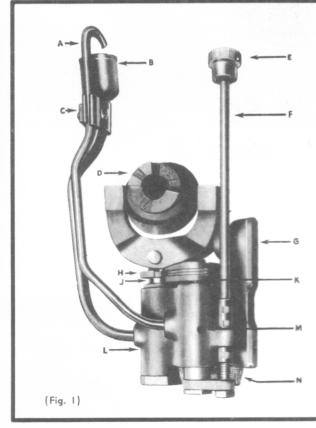
MADISON-KIPP CORPORATION

Madison, Wisconsin, U.S.A.

BULLETIN NO. L-3011 ISSUE FEB. 12, 1957

Model 50 MADISON-KIPP LUBRICATOR

The Model 50 pumping unit illustrated in Figure 1 embodies a mechanical motion so ingenious as to deserve your special attention. The driving eccentric imparts to both forcing and metering plungers a reciprocating movement for pumping and an oscillating movement for valving. The angle of the eccentric ring groove is 27°. When the eccentric makes a complete revolution, the plungers make a total swing of 54°. The reciprocating movement or lift is .212". Oil intake and outlet ports register with grooves in the plungers as they travel their cycle.



A—Sight Feed Tube which shows the amount of oil in drops according to the oil delivery adjustment setting.

B-Sight Feed Oil Cup.

C—Tube Clamps tying the tubes "A" and "B" together.

D—Eccentric to impart the reciprocating and oscillating movement to the plungers (See first paragraph above).

E—Adjusting Button to regulate the amount of oil to be delivered per feed impulse.

F-Adjusting Spindle.

G-Oil Outlet from pumping unit.

H—Gear for oscillating and lifting metering plunger in unison with forcing plunger.

J—Plunger which forces the measured quantities of oil to the feed outlet.

K—Metering Plunger which delivers oil to the sight feed cup.

L—Body of pumping unit.

M—By-Pass Opening—oil not delivered to the sight feed cup is by-passed back to the reservoir. N—Fine Strainer located at oil inlet of pumping unit.

INSTRUCTIONS for Attaching, Operating and Care of Madison-Kipp Lubricator MODEL 50

Madison-Kipp Model 50 Lubricators are built on one standard design, of any required size and number of feed outlets, and are applied universally to all types of steam, oil, and gas engines, steam pumps, air compressors, steam hammers, shovels, dredges and cranes, marine engines, steering engines, drilling engines, agricultural tractors, grain separators, machine tools, and special types of machinery.

The Sight Feed type is built with a visible feed and an individual fine adjustment for each pumping unit. The Blind Feed type is designed for service where fine adjustment and visible feed are not necessary. It can be adjusted, however, by means of employing different lengths

on the ratchet arm.

Madison-Kipp Lubricators are built on the Kipp Valveless principle, which permits the pumping and forcing of oil without the use of ball and spring valves.

ATTACHING

Madison-Kipp Lubricators are built for either ratchet or rotary drive, and the location of the lubricator on the machine to be lubricated is dependent on the type of drive selected.

Lubricator should be located so as to be accessible for filling, for vision of the sight feed and oil level gauge glass, for feed regulation and

for draining.

Ratchet Drive

If ratchet drive is provided, the lubricator should be placed in a location where a reciprocating motion can be obtained for driving the ratchet lever of the lubricator. This reciprocating motion can be taken, if attached to a steam engine, from the valve gear, locating the lubricator on the top or side of the steam chest. If attachment is made to some other machine not having a reciprocating motion, place a driving stud off center in the end of an exposed rotating shaft so as to provide an eccentric movement.

The various fittings necessary for making the connection between the lubricator and driving point may be supplied with the lubricator. A variety of standard driving devices to be had are illustrated on page 12.

The lubricator should be bolted down, using lock washers to prevent bolts from working loose. Try to avoid offset bends in the driving

rod.

The driving arm should be clamped on the lubricator shaft so as to place the driving pawl located inside the lubricator in the center of the space available for the stroke. If possible turn

machine over by hand to check stroke and clearance.

The standard lubricator is provided with a 44-tooth ratchet wheel and would require 44 strokes to complete one revolution of the lubricator if connected to engage with one tooth of the ratchet per stroke. The recommended speed varies from four to twenty revolutions per minute, depending on the type and size of machine to be lubricated.

Rotary Drive

Rotary Drive Lubricators should be placed so that the drive pulley of the lubricator is in direct line with some slow speed revolving shaft to which a driving pulley can be attached. The lubricator pulley may revolve in either direction. Avoid the use of a short belt. The recommended speed of the lubricator pulley varies from 150 to 500 R. P. M.

Oil Leads

Lubricators can be furnished with outlet connections for either ½" O.D. copper or brass tubing, or for ½" or ½" iron pipe. Where many turns and bends are necessary, the copper or brass tubing is preferable. The tubing or pipe should be clean, ends free from burrs and cut to a length which will allow the connections between the lubricator and point to be lubricated to be as direct as possible. Care should be taken when bending tubing to avoid flattening, which would restrict the flow of oil. All joints should be tight, and tubing or pipe should be anchored securely to machine to avoid vibration. Where possible, arrange tubing to prevent exposure to the extreme cold.

Connections and Checks

Terminal connections which may be obtained are for ¼" O.D. Tubing and are of the solder-less compression type. In making the joint, let the tubing extend through the ferrule into the connection at least ½".

For steam or compressor service, a terminal check valve should always be used. If Valve C-900 is used, it is important that valve be installed in a vertical position, as shown on Page 13, Figure 32. The Arrow formed on the casting indicates the direction of oil flow.

OPERATION AND ADJUSTMENT

Fill the lubricator with clean oil and turn hand crank until each of the oil leads are filled with oil. At this time make an inspection of all the connections to see that no leaks occur.

Sight Feed Type

Adjustment or regulation of the quantity of oil to be delivered for each revolution of the unit is accomplished by turning the adjusting button, located on the cover (Part C-880-A). Turning to the right (clockwise) decreases, and to the left (counter-clockwise) increases the amount of oil being forced to the point to be lubricated. Observation can be made through the transparent hood to see the amount delivered by each feed. A very close adjustment may be had. Turning the lubricator by means of the hand crank when making adjustment is recommended. When lubricator is first applied, it is recommended as a safe practice to leave lubricator set for maximum delivery of oil, cutting it down gradually with care if an oversupply is noted at the points to be lubricated. The manufacturer usually attends to this in cases where the lubricator is supplied as standard equipment. His recommendation as to lubricator adjustment, if not given, should be sought.

Blind Feed Type

No adjustment for the pumping unit is provided for in the Blind Feed type. However, adjustment or regulation of the amount of oil being delivered may be had by increasing or decreasing the number of revolutions of the lubricator. On the rotary drive type this is accomplished by changing the pulley diameters. The standard ratchet driven lubricator is provided with a drive arm having four holes at different distances from the center. Usual practice is to connect the driving strap to the third hole from the center, having a stroke sufficient to engage two teeth in the ratchet wheel. Should it be necessary to decrease the feed, change the driving strap to the outer hole in the driving arm, or to increase to a hole nearer the center.

CARE OF LUBRICATOR

The Madison-Kipp pumping unit is made of very accurately machined parts which function coordinately, contains no troublesome check valves and springs and for this reason requires no attention after final feed adjustments have been made, other than the care necessary to

keep dirt out of the lubricator.

Field operators, while perhaps not intentionally careless, often make no provision for keeping oil containers, funnels, etc., free from dust and dirt. As foreign matter so collected is likely to find its way into the lubricator tank, it is recommended as standard practice to drain the oil out of the lubricator and clean out the reservoir with kerosene every thirty to ninety days, depending on usage. The following are our suggestions for attention at regular intervals:

Use only clean oil.

Keep the lubricator full of oil. See that all connections are tight.

See that the oil pipes are supported where excessive vibration is developed.

See that the lubricator is securely bolted

Inspect lubricator to see that filler cup strainer has not been removed. This part should be taken out for cleaning purposes only.

Keep the sight feed hood clean.

Cleaning

1. To clean out reservoir or repair lubricator, it is necessary to remove lubricator from the engine by unscrewing the oil tube connections, loosening the driving arm and unscrewing the bolts at the bolting brackets.

2. Remove cover by first unscrewing all cover screws and then lifting the cover off with the

aid of a screw driver used as a pry.

3. Remove drain plug and drain oil from

lubricator reservoir.

The lubricator can then be thoroughly washed out with kerosene. Do not operate the lubricator any more than necessary while washing and see that all kerosene is removed before filling with fresh oil.

DISASSEMBLING AND **ASSEMBLING**

If it is desired to disassemble the lubricator for any reason, proceed as follows after removing cover:

1. Drive out the split end taper pin which is driven through the shaft next to the ratchet

wheel.

2. You can now remove the shaft as far as desired by pulling the hand crank.

3. Loosen bearings at each end of the reservoir by unscrewing the check nut on the inside of the reservoir.

4. To remove the pumping unit, remove the connector to which the oil pipe was attached and the cap screw below this connector, both of which are located on the outside of the reservoir. With these screws removed and the shaft pulled out beyond the unit to be removed, the pumping unit can be lifted out.

If the plunger is removed from pumping unit, be sure it is replaced in the same barrel from which it was taken, as these parts are ground to an individual selective fit and are not inter-

changeable.

To assemble, reverse the above operation, and put together, being sure that all screws are tight and check nuts in place.

The eccentric clutch jaws are so designed that they can be assembled only the correct

Assemble eccentric and strap so that the part marked "R" is to the right when facing the flat surface of the unit which is applied to the side

of the reservoir.

When putting on the cover, it is necessary to see that the flats of the adjusting spindle are all in the same position as the flat depressions in the adjusting buttons. The cover can then be placed on very readily. Do not drive or force cover in place.

Before reattaching lubricator to machine, it would be well to fill the lubricator and check the quantity of oil being delivered, for during the cleaning and repairing operation it is possible that the adjustment was changed. Do this by noting the quantity of oil delivered through the sight feed tubes at one turn of the hand crank.

SHAFT BEARINGS

The shaft bearings are each provided with an adjustable stuffing box gland and check nut. Should a leakage develop at these points, unscrew the gland, put in a length of string packing, and replace gland, being careful to have check nut drawn up tight.

The pumping unit itself requires no packing.

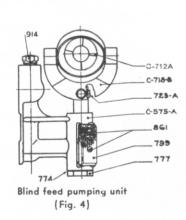
REPLACING GAUGE GLASS

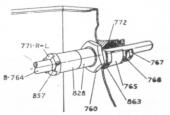
To replace tubular gauge glass, after removing cover as instructed above, unscrew gauge glass plug screw, remove old gauge glass, and replace with new glass and new washers.

The bull's-eye design of gauge glass can be readily replaced from the outside without removing cover.

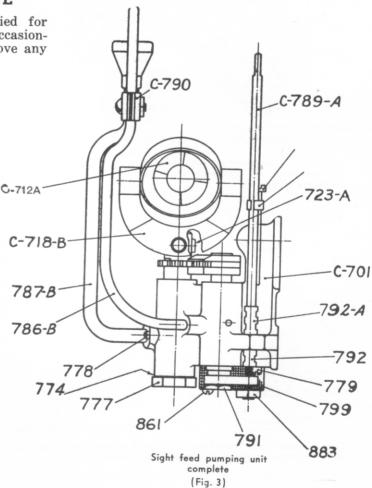
STEAM LINE CHECK VALVE

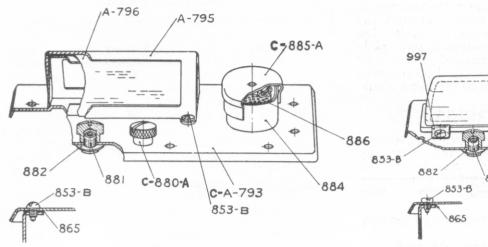
Check valve part No. C-900 supplied for steam service should be disassembled occasionally and cleaned with kerosene to remove any possible accumulations.





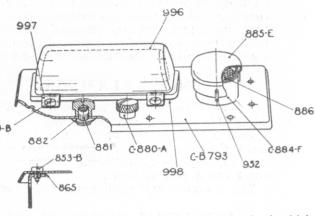
Drive end of plain drive assembly. Right hand assembly as shown. (Fig. 5)





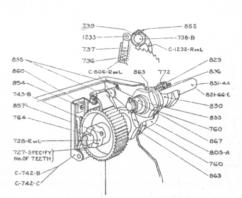
Sight feed lubricator cover, Symbol C—A793. Having metal hood left hand as illustrated.

(Fig. 6)

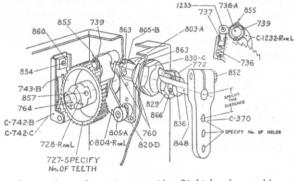


Sight feed lubricator cover. Symbol C—B793. Having glass hood left hand as illustrated.

(Fig. 7)



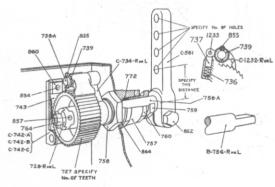
End rotary drive assembly. Right hand assembly is shown, left hand would be on opposite end of reservoir.



Front side ratchet drive assembly. Right hand assembly is shown, left hand would be on same side at opposite end of reservoir.

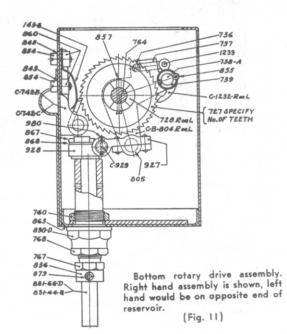
(Fig. 9)

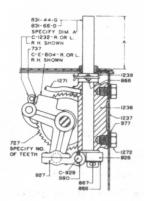




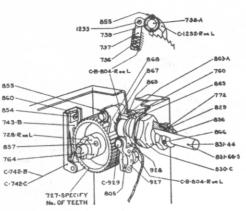
End ratchet drive assembly. Right hand assembly is shown, left hand would be on opposite end of reservoir.

(Fig. 10)

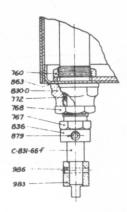




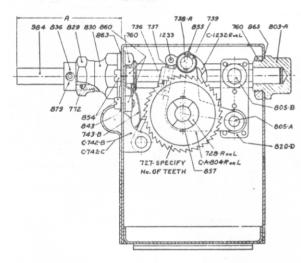
Top rotary drive assembly. Right hand drive as shown. (Fig. 11A)



Front side rotary drive assembly. Right hand assembly is shown, left hand would be on same side at opposite end of reservoir. (Fig. 12)

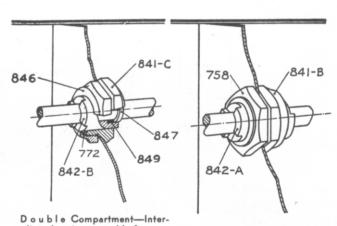


Bottom rotary drive assembly with drive clutch. See Fig. 11. (Fig. 13)



Back side ratchet drive assembly. Right hand assembly is shown, left hand would be on same side at opposite end of reservoir.

(Fig. 14)

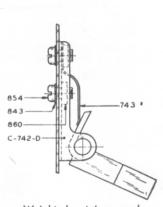


mediate bearing assembly for partitions between compartments using different grades of oil.

(Fig. 15)

Intermediate bearing assembly for single compartment lubricators.

(Fig. 16)



Weighted retainer pawl assembly. (Fig. 18)

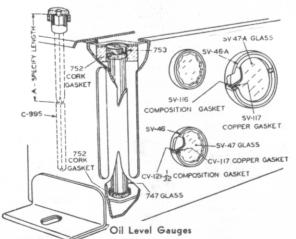
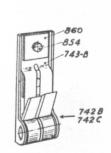
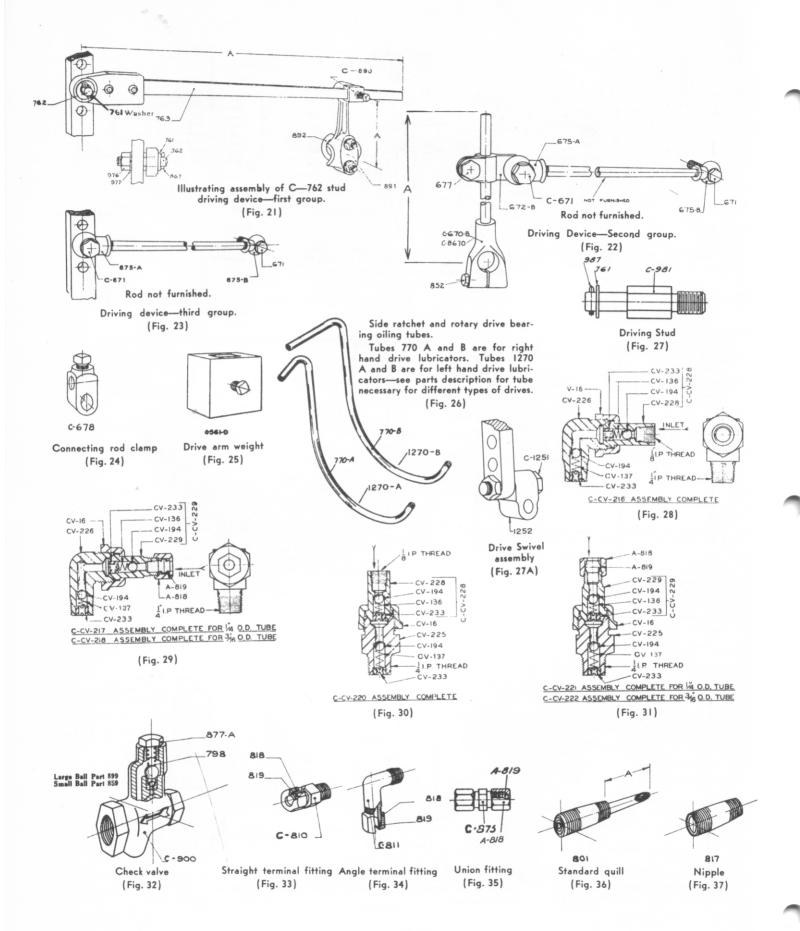


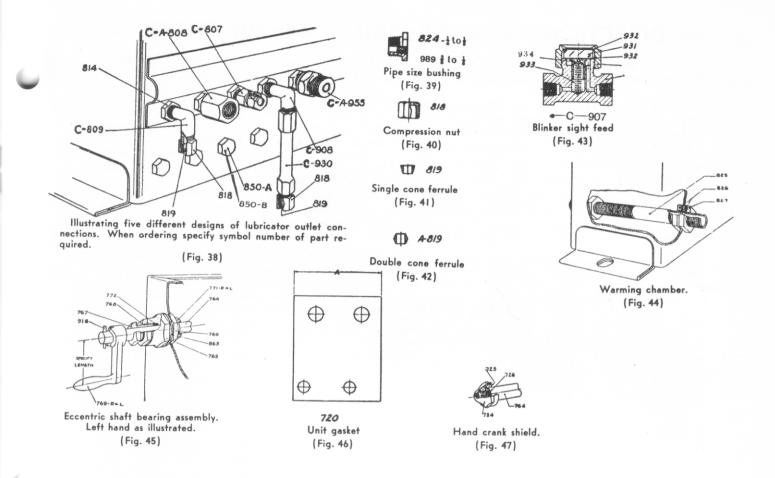
Illustration shows four different designs used on Model 50 Lubricator. When ordering specify symbol numbers of parts required.

(Fig. 19)

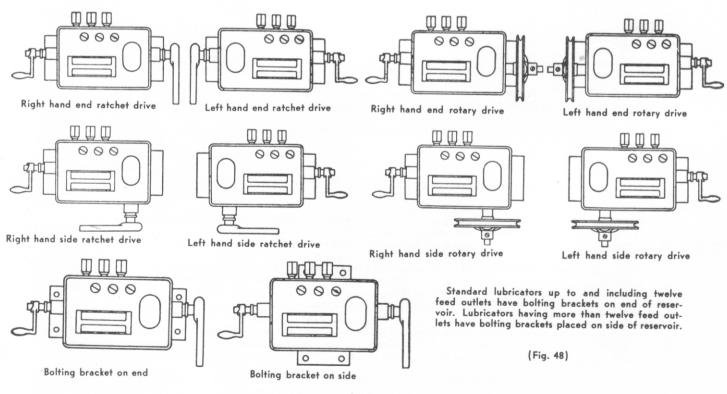


Retainer pawl assembly for double pawl. (Fig. 20)





POPULAR DRIVES FOR RIGHT AND LEFT HAND DRIVE LUBRICATORS



DIRECTIONS FOR ORDERING REPAIR PARTS

All parts of the Model 50 Lubricator are clearly illustrated and numbered on the preceding pages.

Locate the part wanted in the illustrations to obtain the part number. Names and prices are given on the pages following illustrations.

BE SURE TO GIVE PART NUMBER, NAME AND OTHER INFORMATION ASKED FOR UNDER THE NUMBER OF THE PART WANTED. ALSO NAME OF MANUFACTURER OF EQUIPMENT ON WHICH LUBRICATOR IS USED.

Parts are furnished only as listed. Pumping unit and plungers are never sold separately.

Please send cash with order for parts unless you have an account on our books, as the expense of opening small accounts is often more than the amount of the order. Remit by postal or express money orders or bank exchange.

Postage to cover transportation should be included when shipment is to be made by mail. Prices given are F. O. B. Madison.

Prices are subject to change without notice. Sales, use, or other taxes imposed on these products shall be borne by purchaser.

SYMBOL	Name	PRICE
CV- 16	Union Nut	e 90
SV- 46	Glass Clamp Screw for SV-47	\$.30 .35
	Glass Clamp Screw for SV-47-A	
SV- 47	Gauge Glass Disc 1%4" Diameter	.20
SV- 47-A	Gauge Glass Disc 121/82" Diameter	.4(
SV- 47-B	Gauge Glass Disc 1 1/82 Diameter Gauge Glass Disc 1 1/84 Dia. Pyrex Glass	.80
	Composition Gasket for SV-47-A	.10
	Copper Gasket for SV-47-A	
CV-117	Copper Gasket for SV-47	.10
CV-12116	Composition Gasket for SV-47	
	Check Spring for terminal check valve	.05
	Check Spring for terminal check valve	.10
CV 104	7/32" Diameter Stainless steel ball	.10
CV 216	Angle Terminal Check Valve for 1/8" I. P. Complete (Replaced by C-CV-216A)	.05
CV 217	Angle Terminal Check Valve for 1/4" O. D. Tube Complete (Replaced by C-CV-216A)	3.50
-0 v -21 i	C-CV-217A)	3.50
CV 910	Angle Terminal Check Valve for ¾6" O. D. Tube Complete (Replaced by	3.50
-U V -210	C-CV-218A)	3.50
-CV-220		2.00
-UV-220	Straight Terminal Check Valve for 1/4" O. D. Tube Complete	3.00
-UV-221	Straight Terminal Check Valve for % O. D. Tube Complete Straight Terminal Check Valve for % O. D. Tube Complete	3.00
-CV-222	Straight Terminal Check Valve for γ_{16} O. D. Tube Complete	3.00
CV-225	Straight Terminal Check Valve Body Only	1.25
CV-226	Angle Terminal Check Valve Body Only (Replaced by CV-226A) Terminal Check Valve Tailpiece for ½" I. P. with check	1.50
-CV-228	Terminal Check Valve Tailpiece for ½ 1. P. with check	1.20
C-CV-229		1.15
-C V -230	similar to piece illustrated as C-CV-229)	1 1 7
OM 000	Terminal Check valve plug	1.15
		.20
C-370	ber of holes	2.40
C-413	Pulley for 1" Flat Belt, complete with set screw. 4" Diameter	6.00
	6" Diameter	
	8" Diameter	
~ ~ ~ ~	10" Diameter	12.00
C-561	Drive Arm complete with 852 screw. Specify distance as indicated on cut and num-	
	ber of holes	2.40
C-561-D	Drive Arm weight, complete with set screw	1.20
	Blind Feed Pumping Unit complete as illustrated. Plunger and barrel never furnished separately	9.00
CA-588	Cover for Blind Feed Lubricator (Not illustrated) complete with parts 884, 885-E and 886 1 feed	5.25
CD-670	Adjustable Drive Arm with 852 screw for ½" Dia. shaft. Specify Dimension "A"	3.00
C-670-D	Adjustable Drive Arm with 852 screw for 3/4" Shaft. Specify Dimension "A"	3.00
	Adjustable Drive Arm Bolt	.40
C-671	Adjustable Drive Arm Bolt with nut and washer	.60
	Sliding Head	
	Adjustable Drive Arm Swivel	
	Adjustable Drive Arm Swivel	.90
		.90
677	3/8" x 3/4" Hex Head Cap Screw for 672-B	.15

(See directions for ordering repair parts on page 10)

	Connecting Rod Clamp complete with set screw	2.25
	1 and 2 feed sizes 1	
	3 and 4 feed sizes 1	
	5 and 6 feed sizes 1	
	7 and 8 feed sizes 1	
	9 and 10 feed sizes 1	
	11 and 12 feed sizes 2	20.00
	Prices of larger sizes on application.	
	NOTE: When ordering tanks for lubricators, specify whether Sight or Blind Feed	
C 701	and the type of drive as illustrated Figure 48, Page 9, also the number of feed outlets in lubricator, length of tank and location of bolting brackets.	
C A 701 P	Pumping Unit for Sight Feed. Complete as illustrated (Replaced by 701-A) 1	2.00
C-A-101-It	Pumping Unit same as C-701 except has 770 Drive bearing oiling tube. For right	0 50
C-A-701-L	hand drive lubricators1	2.50
O 22 1 1 2 2	hand drive lubricators1	2 50
C-712-A	Eccentric for pumping unit (Replaced by C-712-C)	1.50
	Eccentric Thrust Washer (Not Illustrated)	
C-718-R		1.50
720	Gasket. Specify Dimension "A"	.15
723-A	Eccentric Yoke Knuckle Pin	.05
724	Hand Crank Pin Shield	.20
725	Hand Crank I'm Shed	.05
726	$\frac{5}{6}$ Lock washer for 724 (Replaced by R-70- $\frac{5}{16}$ ")	.05
727	Ratchet wheel. Specify number of teeth	1.50
728-R. or L	Drive Collar. Specify whether lubricator has right or left hand drive. Right hand is illustrated (Replaced by A-728-R & B-728-L)	.50
C-734-R. or L	Pawl Carrier Arm complete with 756-A and 738-A stud. Right hand is illustrated	1.50
736	Pawl Plunger Spring	.10
737	Pawl Plunger	.15
738-A	Stud. Furnished only with C-734 R. or L. and C-804 R. or L. Pawl carrier arms	
738-B	Stud. Furnished only with C-806 R. or L. Pawl carrier arm	
739	Pawl Stud Washer	.05
C-742-A	Retainer pawl assembly complete with stud and single pawl	1.00
	Retainer Pawl Assembly complete with stud and two pawls for 44 and 88 tooth ratchet wheel	1.50
	Retainer Pawl Assembly complete with stud and two pawls for 66 tooth ratchet wheel	1.50
	Retainer Pawl Assembly with weighted pawl	2.25
	Spring for single pawl retainer	.10
743-B	Spring for double pawl retainer	.10
747	Tubular Gauge Glass	.35
	Gasket upper and lower for 747 gauge glass	30.
	Plug screw for 747 gauge glass	.00
R-756	Drive Shaft, furnished only with C-734 R. or L. (Specify milled	
	end shaft if required)	
	Drive Shaft Bearing (Replaced by 757A)	
758	Bearing lock nut	.30
	Bearing Gland	.28
	Bearing and Gland Lock Nut	.20
	Washer for 762 and C-981	.05
	Stud for 763 with nut, washers and cotter key	.60
763	Strap and connection complete. Specify Dimension "A"	1.50
	Eccentric Shaft. Specify length and if for hand crank shield	1.00
	Eccentric Shaft for plain drive lubricator. Specify length and if for hand crank	
	shield. Illustrated Figure 5	1.00
765	Hand Crank Bearing (Replaced by 765-A)	1.08
	Spacing Washer 34" O. D. x 17/32" I. D. x 1/4" to 1/8" thick. (Not illustrated)	.08
	Eccentric Shaft Bearing Gland	.2
768		.18
	Hand Crank. Specify length of crank and whether for right or left hand drive lub-	
	ricators	.60
770-A	right hand drive only	.38
770-B	Drive bearing oiling tube for end rotary drive lubricators. For right hand drive only	.3

((1-R, Or L,	
771-A	Spacing Collar. (Replaced by 771C)
114-44	drive lubricators
771-B	Spacing collar for crank side of partition. Specify whether for right or left hand
	drive lubricators
772	. Stuffing box packing
774	. Copper gasket for 777
	Plug for plunger hole
	No. 8 x 32 Brass Plug
779	. 1/4" x 32 Brass Plug
786-B	Sight Feed Tube
787-B	Oil Receiving tube complete with cup
C-789-A	Adjusting Spindle with 792, 792-A and 883
C-790	Tube Clamp for single unit, complete with bolt and nut
C-790-A	Tube clamp for binding together more than one unit. Specify how many. Complete
	with nuts and bolts
791	Plug for adjusting sleeve
792	Adjusting spindle collar (Lower)
792-A	Adjusting spindle collar (Upper)
-A-793-R. or L	Sight Feed lubricator covers complete as illustrated. Specify whether for right-or
-B-793-R, or L(compartment specify the number of feeds in each compartment. If single compartment of over six feeds specify number of intermediate bearings or number of sight feed hoods and also number of screw holes in cover. NOTE: The covers as illustrated show both old (C-A-793) and new (C-B-793) Covers. These covers are not interchangeable and therefore be sure to specify
	correct number of cover wanted as well as all information requested.
	1 and 2 feed sizes
	3 and 4 feed sizes
	5 and 6 feed sizes
	7 and 8 feed sizes
	9 and 10 feed sizes
	11 and 12 feed sizes
A 706	Prices of larger sizes on applicationTransparency (Old Style). Specify number of feeds covered by each transparency.
	1 to 8 feeds
	Spring for C-900 check valve
	Oil Strainer for pumping unit
	Nipple complete with quill. Specify Dimension "A"
803-A	Blind Bearing (Replaced by 803B)
C-804-R. or L	Pawl carrier arm for front side ratchet drive complete with parts 738-A, 805-A, 805-B, 820-D and 848 shaft. Specify whether right or left hand drive. See il-
1 001 = -	lustration Fig. 9
-A-804-R. or L	lustration Fig. 9 Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14
•	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14
•	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive.
-B-804-R, or L	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14
-B-804-R. or L	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive. Side rotary illustration Fig. 12. Bottom rotary illustration Fig. 11 Pawl carrier arm for back side rotary drive complete with 738-A, 805 and link (not illustrated). Specify whether right or left hand drive Pawl Carrier Arm for Top Rotary Drive complete with Pawl Stud, 821, 927, 928,
-B-804-R. or L -D-804-R. or L -E-804-R. or L	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive. Side rotary illustration Fig. 12. Bottom rotary illustration Fig. 11 Pawl carrier arm for back side rotary drive complete with 738-A, 805 and link (not illustrated). Specify whether right or left hand drive Pawl Carrier Arm for Top Rotary Drive complete with Pawl Stud, 821, 927, 928, and C-929. Fig. 11A. Specify whether right or left hand drive
B-804-R. or L D-804-R. or L E-804-R. or L	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive. Side rotary illustration Fig. 12. Bottom rotary illustration Fig. 11 Pawl carrier arm for back side rotary drive complete with 738-A, 805 and link (not illustrated). Specify whether right or left hand drive Pawl Carrier Arm for Top Rotary Drive complete with Pawl Stud, 821, 927, 928, and C-929. Fig. 11A. Specify whether right or left hand drive Furnished only with C-B 804 R. or L.
B-804-R. or L D-804-R. or L E-804-R. or L 805 805-A	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive. Side rotary illustration Fig. 12. Bottom rotary illustration Fig. 11 Pawl carrier arm for back side rotary drive complete with 738-A, 805 and link (not illustrated). Specify whether right or left hand drive Pawl Carrier Arm for Top Rotary Drive complete with Pawl Stud, 821, 927, 928, and C-929. Fig. 11A. Specify whether right or left hand drive Furnished only with C-B 804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L.
-B-804-R. or L -D-804-R. or L -E-804-R. or L 805 805-A 805-B	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive. Side rotary illustration Fig. 12. Bottom rotary illustration Fig. 11 Pawl carrier arm for back side rotary drive complete with 738-A, 805 and link (not illustrated). Specify whether right or left hand drive Pawl Carrier Arm for Top Rotary Drive complete with Pawl Stud, 821, 927, 928, and C-929. Fig. 11A. Specify whether right or left hand drive Furnished only with C-804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L.
B-804-R. or L E-804-R. or L 805 805-A 805-B C-806-R. or L	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive. Side rotary illustration Fig. 12. Bottom rotary illustration Fig. 11 Pawl carrier arm for back side rotary drive complete with 738-A, 805 and link (not illustrated). Specify whether right or left hand drive Pawl Carrier Arm for Top Rotary Drive complete with Pawl Stud, 821, 927, 928, and C-929. Fig. 11A. Specify whether right or left hand drive Furnished only with C-804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L. Pawl carrier arm for end belt drive complete with 738-B Stud. Specify if for right or left hand drive (Replaced by C-A-806 R. or L.)
-B-804-R. or L -D-804-R. or L -E-804-R. or L 805 805-A 805-B C-806-R. or L C-807—1/4"	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive. Side rotary illustration Fig. 12. Bottom rotary illustration Fig. 11 Pawl carrier arm for back side rotary drive complete with 738-A, 805 and link (not illustrated). Specify whether right or left hand drive Pawl Carrier Arm for Top Rotary Drive complete with Pawl Stud, 821, 927, 928, and C-929. Fig. 11A. Specify whether right or left hand drive Furnished only with C-804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L. Pawl carrier arm for end belt drive complete with 738-B Stud. Specify if for right or left hand drive (Replaced by C-A-806 R. or L.) Straight tube connector WITHOUT CHECK complete with 814, 818 and 819 for 1/4" O. D. Tube
-B-804-R. or L	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive. Side rotary illustration Fig. 12. Bottom rotary illustration Fig. 11 Pawl carrier arm for back side rotary drive complete with 738-A, 805 and link (not illustrated). Specify whether right or left hand drive Pawl Carrier Arm for Top Rotary Drive complete with Pawl Stud, 821, 927, 928, and C-929. Fig. 11A. Specify whether right or left hand drive Furnished only with C-804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L. Pawl carrier arm for end belt drive complete with 738-B Stud. Specify if for right or left hand drive (Replaced by C-A-806 R. or L.) Straight tube connector WITHOUT CHECK complete with 814, 818 and 819 for 1/4" O. D. Tube Straight tube connector WITH CHECK complete with 814, 818 and 819 for 1/4" O. D. Tube
-B-804-R. or L	Pawl carrier arm for back side ratchet drive complete with 738-A, 805-A, 805-B, 820-D and 984 shaft. Specify Dimension "A" and whether right or left hand drive. See illustration Fig. 14 Pawl carrier arm for front side and bottom rotary drive complete with 738-A, 805, 927, 928 and C-929. If side rotary specify whether right or left hand drive. Side rotary illustration Fig. 12. Bottom rotary illustration Fig. 11 Pawl carrier arm for back side rotary drive complete with 738-A, 805 and link (not illustrated). Specify whether right or left hand drive Pawl Carrier Arm for Top Rotary Drive complete with Pawl Stud, 821, 927, 928, and C-929. Fig. 11A. Specify whether right or left hand drive Furnished only with C-804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L. Furnished only with C-804 R. or L. and C-A 804 R. or L. Pawl carrier arm for end belt drive complete with 738-B Stud. Specify if for right or left hand drive (Replaced by C-A-806 R. or L.) Straight tube connector WITHOUT CHECK complete with 814, 818 and 819 for ½" O. D. Tube Straight tube connector WITH CHECK complete with 814, 818 and 819 for ½"

C-A-809½	Angular barrel clamp connector WITH CHECK. Complet	te with 81	4, 818 and	819
C-810	for 1/4" O. D. Tubing	to with 01	8 and 010	hov
	ing 1/8 male pipe thread. Specify diameter of tubing			
C-A-810	Straight terminal connection WITH CHECK complete wit	h 818 and	l 819 havin	g 1/8
C-811	male pipe thread. Specify diameter of tubing	to with 01	0 and 010	horr
C-011	ing ½ male pipe thread. Specify diameter of tubing	te with 81	.8 and 819	nav-
C-A-811	Angular terminal connection WITH CHECK complete wit	h 818 and	l 819 havin	g 1/8
	male pipe thread. Specify diameter of tubing			
C-A-813-1/8 IPS	Straight tube connector WITH CHECK. Complete with 8 I. P. size tubing. (Not illustrated)	814, 818 a	nd 819 for	1/8"
814	Connector check nut			,
817	Nipple for 900 check valve			
818	Cinch nut for single cone ferrule. Specify outside diamet	er of tub	ing	
A-818	Double cone cinch nut (Replaced by 818)			
A-819	Double cone ferrule. Specify diameter of tubing (Replace	d by 810	١	
820-D	Furnished only with C-804 R. or L. and C-A-804 R. or I	4.		
824	¹ / ₄ " to ½" Standard pipe bushing			
825	³ / ₈ " Warming pipe			
826	3/8" Warming pipe nut			
828	3/8" Warming pipe cork washer			
829	Stuffing box			
830	Bearing for end belt drive (Replaced by SV-30-C)			
830-C	Bearing for side rotary, and side ratchet drives (Replace	d by 830-	H)	*
830-D	Bearing for bottom rotary drive			
831-44	Eccentric drive shaft for side and end belt drives, having	44 teeth i	n ratchet w	heel
831-66-D	Eccentric drive shaft for bottom and top rotary drive, ha	ving 66 t	eeth in rat	chet
831-66-E	wheel	th in rote	hot whool	
C-831-66-F	Eccentric drive shaft with 983 clutch, having 66 teeth in	ratchet.	net wheel	
831-44-G	Eccentric drive shaft for bottom, top and back side rotar	v drive, h	naving 44 t	eeth
	in ratchet wheel			
831-66-S	Eccentric drive shaft for side rotary drive having 66 tee	th in rate	het wheel	
832	1/4-32 Thread plug screw for A-810 and A-811 (Not illus	strated) .		
C-836	Connecting link for end belt drive Set collar complete with set screw	•••••		
	see contact complete with set sellew			
	Spring for A-810 and A-8—(Not illustrated)			
841-A	Intermediate bearing ½" bore			
841-B	Intermediate bearing 15/16" bore (Replaced by 841-D) Partition bearing			
	Spacing collar for 841-B intermediate bearing (Replaced			
842-B	Spacing collar for two compartment partition bearing (F	Replaced 1	v 842-D)	
	Gasket for 854			
	Dish pulley for 3/8" round belt with set screw			
C-845	Pulley for 3/8" round belt with set screw	3"	Diameter	3.25
	, , , , , , , , , , , , , , , , , , , ,		Diameter	
			Diameter	
			Diameter	5.50
			Diameter	
846	Nut for 841-C			
	Packing ring			
	Eccentric driving shaft. Furnished only with 804 R. or L.			
	Bearing packing			
	5/16-18 x 3/8" Hex head cap screw			
850-B				
852	3/8 x 13/8" Hex head cap screw			
	Cover screw 3/16" Diameter			
	½ x ¾ Round head cap screw			
	3/2 x 1/2" Spring cotter (Replaced by R-90-3/2" x 1/2")			
857	No. 1 x 11/4" Split end taper pin			

0.50	A AMERICAN AND A AMERICAN AND AND A AMERICAN AND AND AND AND AND AND AND AND AND A
858	No. 1 x ¾" taper pin (Not illustrated) (Replaced by R-85-No. 1 x ¾")
860	
861	Screw for 799
863	1-1/16" I. D. Composition gasket
864	1-5/6" I. D. Composition gasket
865-1	Feed Cover Gasket
865-2	Feed Cover Gasket
865-3	Feed Cover Gasket
865-4	Feed Cover Gasket
986	1/. 20 Headless set sever
867	
868	
C-A-8741/8 IPS.	Terminal connector for 1/8 I. P. S. tubing, complete with cinch nut, ferrule and 814
0 11 01 1/6 11 01	nut. Body has 1/8" male pipe thread (Not illustrated)
C-875	Cinch union, complete as illustrated. Specify diameter of tubing
877-A	Plug for C-900
879	
C-880-A	Adjusting spindle head, complete with 881 and 882 (Replaced by C-880-C)
883	$\frac{3}{16}$ -32 nut for 789
884	Oval filler cup
C-884-F	Oval filler cup complete with 885-E and 952
884-H	Round filler cup (Not illustrated)
C-885-A	Filler cup cover complete with chain
885-E	Oval filler cup cover
	Round filler cup plug (Not illustrated)
885-F	
885-F	Oval filler cup strainer
885-F 886 C-890	Oval filler cup strainer
885-F 886 C-890 C-891	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892
885-F 886 C-890 C-891 C-892.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the
885-F. 886. C-890. C-891. C-892. 893.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve
885-F. 886. C-890. C-891. C-892. 893.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated
885-F 886. C-890. C-891. C-892. 893.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼ I. P. S. both ends, complete
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-B-900.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ½ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ½" I. P. S. both ends, complete Check valve, ½" I. P. both ends, complete
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-B-900. C-B-900.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated Check valve, ¼ I. P. S. both ends, complete Check valve, ¼ I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-B-900. C-B-900.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼" I. P. S. both ends, complete Check valve, ¼" I. P. both ends, complete Blinker Sight feed, ½ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½" male nine thread
885-F 886 C-890 C-891 C-892 893 899 C-900 C-A-900 C-A-900 C-B-900 C-907 C-908	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated Check valve, ¼ "I. P. S. both ends, complete Check valve, ¼ "I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ¼ male pipe thread both ends
885-F 886 C-890 C-891 C-892 893 899 C-900 C-A-900 C-A-900 C-B-900 C-907 C-908	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated Check valve, ¼ "I. P. S. both ends, complete Check valve, ¼ "I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ¼ male pipe thread both ends
885-F 886 C-890 C-891 C-892 893 899 C-900 C-A-900 C-A-900 C-B-900 C-907 C-908	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated Check valve, ¼ "I. P. S. both ends, complete Check valve, ¼ "I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ¼ male pipe thread both ends ½ "I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1")
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-A-900. C-B-900. C-907. C-908. 914. 918. C-927.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated Check valve, ¼" I. P. S. both ends, complete Check valve, ¼" I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½" male pipe thread both ends ½" I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half)
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-A-900. C-B-900. C-907. C-908. 914. 918. C-927. 928.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼ I. P. S. both ends, complete Check valve, ¼ I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ¼ male pipe thread both ends ½ I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half)
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-B-900. C-907. C-908. 914. 918. C-927. 928. C-929.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated Check valve, ¼ I. P. s. both ends, complete Check valve, ¼ "I. P. both ends, complete Blinker Sight feed, ⅓ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ⅓ " male pipe thread both ends ½ "I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link Pin, complete with spring cotters
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-4-900. C-A-900. C-B-900. C-907. C-908. 914. 918. C-927. 928. C-929. C-930. 931.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼" I. P. S. both ends, complete Check valve, ¼" I. P. both ends, complete Check valve, ¼" I. P. both ends, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½" male pipe thread both ends both ends ½" I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link Pin, complete with 818 and 819 Blinker Sight feed glass, ½ Dia, x ¼ thick
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-A-900. C-B-900. C-907. C-908. 914. 918. C-927. 928. C-929. C-930. 931. 932.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼ I. P. S. both ends, complete Check valve, ¼" I. P. both ends, complete Blinker Sight feed, ½ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½" male pipe thread both ends ½" I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link Pin, complete with 818 and 819 Blinker Sight feed glass, ½ Dia x ¼ thick Blinker sight feed gasket, ½ O. D. x ½ II. D. x ½ thick
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-B-900. C-907. C-908. 914. 918. C-927. 928. C-929. C-930. 931. 932. 933.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated Check valve, ¼ "I. P. S. both ends, complete Check valve, ¼ "I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ¼ male pipe thread both ends ½ "I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link Pin, complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ½ thick Blinker sight feed glass, ½ Dia. x ½ thick Blinker sight feed glass, ½ Dia. x ½ thick Plunger spring for blinker
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-B-900. C-907. C-908. 914. 918. C-927. 928. C-929. C-930. 931. 932. 933.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼ I. P. S. both ends, complete Check valve, ¼" I. P. both ends, complete Blinker Sight feed, ½ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½" male pipe thread both ends ½" I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link Pin, complete with 818 and 819 Blinker Sight feed glass, ½ Dia x ¼ thick Blinker sight feed gasket, ½ O. D. x ½ II. D. x ½ thick
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-A-900. C-907. C-908. 914. 918. C-927. 928. C-929. C-930. 931. 932. 933. 934. 952.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ⅓ I. P. outlet, complete as illustrated Check valve, ¼ I. P. S. both ends, complete Check valve, ¼ I. P. both ends, complete Blinker Sight feed, ⅓ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ⅓" male pipe thread both ends ⅓ I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link Pin, complete with spring cotters Extension adapter complete with \$18 and \$19 Blinker Sight feed glass, ⅓ Dia. x ⅓ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-A-900. C-B-900. C-907. C-908. 914. 918. C-927. 928. C-929. C-930. 931. 932. 933. 934. 952. C-A-955 ½8.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼ I. P. S. both ends, complete Check valve, ¼ I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ¼ male pipe thread both ends ½ I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link Pin, complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker sight feed glass, ½ Dia. x ¼ thick Blinker sight feed gasket, 7 O. D. x ½ I. D. x ½ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ¾ I. P. male thread complete with 814
885-F 886 C-890 C-891 C-892 893 899 C-900 C-A-900 C-B-900 C-907 C-908 914 918 C-927 928 C-929 C-930 931 932 933 934 952 C-A-955 % 976	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ½ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ½ I. P. s. both ends, complete Check valve, ½ I. P. both ends, complete Blinker Sight feed, ½ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½ male pipe thread both ends ½ I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link (Upper half) Hinge Link Pin, complete with spring cotters Extension adapter complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker sight feed gasket, № O. D. x ½ I. D. x ½ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ½ I. P. male thread complete with 814 ½ "Standard nut (Replaced by R-50-½")
885-F 886 C-890 C-891 C-892 893 899 C-900 C-A-900 C-A-900 C-B-900 C-907 C-908 914 918 C-927 928 C-929 C-930 931 932 933 934 952 C-A-955 %	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ½ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ½ I. P. s. both ends, complete Check valve, ½ I. P. both ends, complete Blinker Sight feed, ½ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½ male pipe thread both ends ½ I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link (Upper half) Hinge Link Pin, complete with spring cotters Extension adapter complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker sight feed gasket, № O. D. x ½ I. D. x ½ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ½ I. P. male thread complete with 814 ½ "Standard nut (Replaced by R-50-½")
885-F 886 C-890 C-891 C-892 893 899 C-900 C-A-900 C-B-900 C-907 C-908 914 918 C-927 928 C-929 C-930 931 932 933 934 952 C-A-955 % 976	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ½ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ½ I. P. s. both ends, complete Check valve, ½ I. P. both ends, complete Blinker Sight feed, ½ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½ male pipe thread both ends ½ I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link (Upper half) Hinge Link Pin, complete with spring cotters Extension adapter complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker sight feed gasket, № O. D. x ½ I. D. x ½ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ½ I. P. male thread complete with 814 ½ "Standard nut (Replaced by R-50-½")
885-F 886 C-890 C-891 C-892 893 899 C-900 C-A-900 C-B-900 C-907 C-908 914 918 C-927 928 C-929 C-930 931 932 933 934 952 C-A-955 % 976 977	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. %16" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼ "I. P. S. both ends, complete Check valve, ¼ "I. P. both ends, complete Blinker Sight feed, ½ I. P. thread, complete as illustrated Angle barrel clamp connection complete with 814. Having ½ male pipe thread both ends ½ "I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link (Upper half) Hinge Link (Upper half) Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker sight feed glass, ½ Dia. x ¼ thick Blinker sight feed gasket, ½ Dia. x ½ I. D. x ½ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ½ "I. P. male thread complete with 814 ½ "Standard nut (Replaced by R-50-½") ¾ " lock washer (Replaced by R-70-½") ¼ " lock washer (Replaced by R-90-½ ") ¼ " lock washer (Replaced by R-90-½ ")
885-F 886 C-890 C-891 C-891 C-892 893 899 C-900 C-A-900 C-A-900 C-B-900 C-907 C-908 914 918 C-927 928 C-929 C-930 931 932 933 934 952 C-A-955 % 976 977 980 C-981	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated Check valve, ¼ I. P. both ends, complete Check valve, ¼ I. P. both ends, complete Blinker Sight feed, ⅓ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ⅓ male pipe thread both ends 5/4" I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link (Upper half) Hinge Link Pin, complete with spring cotters Extension adapter complete with 818 and 819 Blinker Sight feed glass, ⅓ Dia. x ⅓ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ⅓ I. P. male thread complete with 814 ½ Standard nut (Replaced by R-70-⅓") ½ Cotter pin (Replaced by R-70-⅓") ½ Cotter pin (Replaced by R-70-⅓") ½ Cotter pin (Replaced by R-70-⅓") Drive stud with 761 and spring cotter No. 987
885-F 886 C-890 C-891 C-891 C-892 893 899 C-900 C-A-900 C-B-900 C-907 C-908 914 918 C-927 928 C-929 C-930 931 932 933 934 952 C-A-955 % 976 977 980 C-981	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 516" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ¾ I. P. outlet, complete as illustrated Check valve, ¼ I. P. shoth ends, complete Check valve, ¼ I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ¼ male pipe thread both ends ½ I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link Pin, complete with spring cotters Extension adapter complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker sight feed glass, ½ Dia. x ¼ thick Blinker sight feed glass, ½ Dia. x ¼ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ¾ I. P. male thread complete with 814 ½ Standard nut (Replaced by R-50-½ ") ½ brive stud with 761 and spring cotter No. 987 Clutch for bottom drive
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-A-900. C-907. C-908. 914. 918. C-927. 928. C-929. C-930. 931. 932. 933. 934. 952. C-A-955 % 976. 977. 980. C-981. 983. 984.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ½ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ½ "I. P. S. both ends, complete Check valve, ½ "I. P. both ends, complete Check valve, ½ "I. P. both ends, complete as illustrated Check valve, ½ "I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½ male pipe thread both ends ½ "I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link (Upper half) Hinge Link Pin, complete with spring cotters Extension adapter complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker sight feed glasset, ¼ O. D. x ½ I. D. x ½ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ½ I. P. male thread complete with 814 ½ "Standard nut (Replaced by R-50-½") ½ " Standard nut (Replaced by R-70-½") ½ " Cotter pin (Replaced by R-90-½ " x ½") Drive stud with 761 and spring cotter No. 987 Clutch for bottom drive Back side ratchet drive shaft. Furnished only with C-A-804 R. or L.
885-F 886. C-890. C-891. C-891. C-892. 893. 899. C-900. C-A-900. C-A-900. C-907. C-908. 914. 918. C-927. 928. C-929. C-930. 931. 932. 933. 934. 952. C-A-955 % 976. 977. 980. C-981. 983. 984. 986.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼ "I. P. sboth ends, complete Check valve, ¼ "I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½" male pipe thread both ends ½ "I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link Pin, complete with spring cotters Extension adapter complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker Sight feed glass, ½ Dia. x ¼ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ½ "I. P. male thread complete with 814 ½ "Standard nut (Replaced by R-50-½") ½" lock washer (Replaced by R-70-½") ½ " lock washer (Replaced by R-90-½" x ½") Drive stud with 761 and spring cotter No. 987 Clutch for bottom drive Back side ratchet drive shaft. Furnished only with C-A-804 R. or L. No. 00 x ¼ Taper pin (Replaced by R-85-00 x ½")
885-F 886. C-890. C-891. C-892. 893. 899. C-900. C-A-900. C-A-900. C-907. C-908. 914. 918. C-927. 928. C-929. C-930. 931. 932. 933. 934. 952. C-A-955 % 976. 977. 980. C-981. 983. 984. 986. 987.	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼ "I. P. sboth ends, complete Check valve, ¼ "I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½" male pipe thread both ends ½" I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link (Upper half) Hinge Link With cap and rivets (Lower half) Hinge Link Pin, complete with spring cotters Extension adapter complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker Sight feed glass, ½ Dia. x ¼ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ½" I. P. male thread complete with 814 ½" Standard nut (Replaced by R-50-½") ½" Standard nut (Replaced by R-70-½") ½" Standard nut (Replaced by R-90-½" x ½") Drive stud with 761 and spring cotter No. 987 Clutch for bottom drive Back side ratchet drive shaft. Furnished only with C-A-804 R. or L. No. 00 x ¼ Taper pin (Replaced by R-85-00 x ¾") Spring cotter (Replaced by R-90-½" x 1")
885-F 886 C-890 C-891 C-891 C-892 893 899 C-900 C-A-900 C-A-900 C-907 C-908 914 918 C-927 928 C-929 C-930 931 932 933 934 952 C-A-955 976 977 980 C-981 983 984 986 987 989	Oval filler cup strainer Swivel complete with washer, cotter and set screw Attachment arm. Specify dimension "A" complete with C-892 U Bolt with nuts Instruction plate. Specify size of lubricator, whether right or left hand drive and the kind and size also serial number and the name of the manufacturer of the engine on which the lubricator is used. If possible send in old plates as samples. Price on application. 5/16" Steel ball for C-900 valve Check valve, ¼ I. P. inlet x ½ I. P. outlet, complete as illustrated Check valve, ¼ "I. P. sboth ends, complete Check valve, ¼ "I. P. both ends, complete Blinker Sight feed, ¼ I. P. thread, complete as illustrated Net Angle barrel clamp connection complete with 814. Having ½" male pipe thread both ends ½ "I. P. Plug No. 1 x 1" Taper pin (Replaced by R-85-No. 1 x 1") Hinge Link with cap and rivets (Lower half) Hinge Link (Upper half) Hinge Link Pin, complete with spring cotters Extension adapter complete with 818 and 819 Blinker Sight feed glass, ½ Dia. x ¼ thick Blinker Sight feed glass, ½ Dia. x ¼ thick Plunger spring for blinker Sight feed blinker plunger Filler cup hinge ring Straight barrel clamp connection ½ "I. P. male thread complete with 814 ½ "Standard nut (Replaced by R-50-½") ½" lock washer (Replaced by R-70-½") ½ " lock washer (Replaced by R-90-½" x ½") Drive stud with 761 and spring cotter No. 987 Clutch for bottom drive Back side ratchet drive shaft. Furnished only with C-A-804 R. or L. No. 00 x ¼ Taper pin (Replaced by R-85-00 x ½")

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996	Glass Hood	1feed size	.60
		2 feed size	.75
		3feed size	.75
		4feed size	.90
		5feed size	1.05
		6feed size	1.25
		7feed size	1.50
007	Cl 1 - 1 - 1	8feed size	1.75
000	Glass hood clamp		.10
998	Glass hood gasket		
		2 feed size	.20
		3feed size	.20
		4feed size	.20
		5feed size	.20
		6feed size	.25
		7feed size	.25
1001	10 x 24 x ½ Long Rd. Hd. Screw (Replaced by R-20-No. 10-24 x ½	% 8feed size	.25
1002	10 x 24 Sq. Nut (Replaced by R-53-No. 10 x 24)	/	.05
1014	Eccentric Retainer Ring (Not Illustrated)	•••••	.05
C-1232 R or I	Drive newl with stud for right as left hand him a series		.10
1233	Drive pawl with stud for right or left hand drive. Specify which Pawl wing stud. Furnished only with C-1232 R. or L.		1.35
1237	Gasket		10
1238	Top Rotary Drive Bearing		.10
1239	Set Collar		9.00
C-1251	Drive Arm Bolt		.60
1252	Drive Arm Swivel		2.50
1270-A	Drive bearing oiling tube for side ratchet and side rotary drive lu	bricators For	.35
1270-B	Drive bearing oiling tube for end rotary drive lubricators. For loft b	and drive anles	.35
1271	Oiling Tube	and drive only	.35
1272	Oiling Tube		.10