LIEDEMAN KARUFACTURING, INC.. YAKIMA, WASHINGTUR

November 10, 1941

Lindsman-John Deere "30" Grawler Tractor Dealer's List Price and Discounts

List	Price	Tractor, standard fread, 10" Tracks 14	25.00
额	夠	Power Take-Off	22 50
M	4	Extra for 12" Track Plates in lieu of 10"	15,00
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	 算	Extra for 14" Track Plates in list of 10"	30.00
\$4	₩	Extra for 72" Cross Bars in lieu of Standard	20,00

F O.B Yakima

Dealer's Discount 20% on Tractor and Extras.

2% Cash Discount for Payment in Full Upon Receipt of Invoice Discounts on Repair Parts 25% Net Cash

This Supercedes ALL Previous Prices.

All Prices Subject to Change without Notice.

LINDEMAN POWER EQUIPMENT CO. Yakima, Washington

DEALER'S PRICE LIST ...

(Provisional Prices, Approval Requested From O. P. A.)

HYDRAULIC TOOL BAR AND CONTROL FOR THE LINDEMAN-JOHN DEERE CRAWLER TRACTOR

November 15, 1945

	List	Dealers Net
Control Assembly, Including Pump and Reservoir	\$141.50	\$113,20
Tool Bar Assembly Less Gauge Wheel	205.00	164.00
Gauge Wheel Assembly Complete With Steel Wheel	28,50	22.80
Price of Complete Tool Bar Including Pump and Control Unit	375.00	300.00
Extra for Pneumatic Tired Ball Bearing Equipped Wheel in Lieu of Steel Gauge Wheel	14.50	11.60
6 Ft. Dozer Blade	62.50	50.00
Depth Adjustment Shoe	35.25	28.20

This Supercedes ALL Previous Prices

All Prices Subject to Change Without Notice.

LINDEMAN POWER EQUIPMENT COMPANY Yakima, Washington

PRICE LIST Lindeman Integral Brush Buck Rake for Lindeman Hydraulic Tool Bar

Catalog	Provisional Prices, Approval Requested from U.P.A.	List	Dealers Net
R1005	Standard Rake with 5 - 2" Standard Fipe Teeth	\$85.00	\$68.00
R1006	Rake with 6 - 2" Standard Pipe Teeth	92.00	73.60
R1015	Rake with 5 - 2" Extra Heavy Pipe Teeth	90.00	72.00
R1016	Rake with 6 - 2" Extra Heavy Pipe Teeth	97.50	78.00

Prices are Net

F.o.b. Yakima, Washington

Prices Subject to Change Without Notice.

LIIIDEIIIII POWER EQUIPMENT CO.

Manufacturers of: LINDEMAN TRACTOR TOOLS

Disc Ditchers, Hervest Trailers, Offset
Disc Harrows, Mobile Sprayers,
Tractor Brush Rakes & & & &



POST OFFICE BOX 526
YAKIMA, WASHINGTON

February 14, 1946

TO: All Lindeman-John Deere Crawler Tractor Dealers.

We are enclosing two cuts showing the Lindeman Brush Rake which is an additional attachment for the Lindeman-John Deere crawler tractor equipped with hydraulic tool bar. This photograph shows the rake in the raised position.

Most of you dealers who are located in the orchard sections remember the mechanical lift brush rakes which we have manufactured in the past. The design of the tooth of this rake is very similar to that used on our mechanical lift rakes, but the fact that this rake is attached to the hydraulic tool bar makes it a far easier and faster operating tool than any brush rake heretofore offered to the trade. The rake assembly includes the $2\frac{1}{4}$ " square bar so that it is only necessary to remove 4 cap screws to attach or detach this rake.

We have been having some trouble on account of the steel strike in lining up materials for this project but we feel that we will be in position to make shipment of a limited quantity of these rakes within two weeks.

There are, of course a number of purposes to which this rake can be put besides the removal of brush from orchards and groves. Some owners have used a rake of this design in clearing land and gathering brush for burning. The rake also may be used in a case of an emergency as a buck rake for handling of hay.

You will note from the dealer's price list enclosed that there are several models of this rake. The main difference being the weight of the pipe used in the teeth and the number of teeth on the bar. All of the rakes we have built in the past have been equipped with 5 teeth only but we have had a number of requests for closer spacing of the teeth in order to gather up the smaller brush. As a result of these requests we are now furnishing the rake with 5 or 6 teeth and with standard weight or extra heavy pipe in the teeth. Accordingly when placing your orders for these rakes we ask that you use the catalog number as shown on the dealer's price list.

Because of the lateness of the season our manufacturing program on these rakes will be somewhat limited. We ask, therefore, that you place your orders immediately for your spring requirements. We feel sure that if there is any call for a tool of this type in your territory, you will make no mistake in ordering several of these for stock, the limiting factor, of course, being the number of tool bars which you now have and the number which will be shipped to you in the immediate future.

Very truly yours,

LINDEMAN POWER EQUIPMENT COMPANY

P. H. Austin General Manager

PHA/emp

POST OFFICE BOX 526 YAKIMA, WASHINGTON

April 11, 1946

To: All Lindeman-John Deere Crawler Tractor Dealers

We recently mailed you two (2) copies of Lindeman-John Deere Crawler Tractor Parts List No. B in which a typographical error has been noted.

On Page 1 you will note that Part No. TE25 earries a list price of 50.40: the correct price for this item is \$0.85.

In a few days we will mail you a corrected Page 1 of Parts List B to be used in place of the Page 1 you have in your possession now.

Yours truly,

LINDEMAR MANUFACTURING CO.

Advertising Department

Lindeman-John Deere Crawler Tractor

List "B" PARTS LIST Used on Tractor Qty.Per Description of Part Part No. Serial Nos. (Inc) Tractor Price WALL. Throttle Rod Adjustment End (J.D. #D2887R) 326109 And Up 1 .25 TE8 Track Link, RH 331692 56 1.05 TE9 Track Link, LH 11 56 1.03 TE10 Front Idler Order TE19 TE12 Front Idler Bracket, RH 326109 335481 2 3. o5 TE13 Front Idler Bracket, LH Ħ 2 3.65 TE15 Front Idler Tension Spring 4 1.10 **TF.16** Front Idler Tension Nut And Up 4 .12 TEL7 Front Idler Dust Shield ## 11 4 .35 TE18 Front Idler Shaft 11 2 .80 TE19 Front Idler (Without TE20 Bearings) Order TE1019 TE20 Front Idler Bearing . . TI.22 Track Frame Tie Strap 326109 And Up 2 .20 TEL3 Track Frame Spacer 8 .09 TE24 Track Bolt (Without Nut & Lock Washer) 11 112 .06 TE25 Track Frame Clamp 11 Ħ 8 .85 TESS Track Link, RH 332394 And Up 55 1.05 TE29 Track Link, LH Ħ **55** 1.05 TE30 Track Link Lock, RH 11 1 1.15

TE31

Track Link Lock, LH

Page 1

1

1.15

POST OFFICE BOX 526 YAKIMA, WASHINGTON

April 26, 1946

TO: LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

You, your part of the country, plus the equipment we make and you distribute, we feel, should be represented in various booklets, folders and bulletins we are developing for sales promotion purposes.

We are particularly interested in photographs of the equipment in action, showing the type of product being worked, background native to your section of the country, and enough detail of the equipment for identification purposes.

Camera negatives are entirely satisfactory or the prints themselves or if you should have any color transparencies they will be very desirable. Of course any negatives or pictures you may send us will be returned if you desire.

Since it is our intention to do this work on a rather comprehensive scale we will greatly appreciate your sending us pictures and other material from which we may select items that will inglude you and your area in these sales stimulators we are preparing.

Thank you.

Very truly yours,

LINDEMAN POWER EQUIPMENT CO.

Paul E. Kirker.

Advertising Department

PEK:mmb

POST OFFICE BOX 526 YAKIMA, WASHINGTON

April 26, 1946

TO: LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

The flow of information to you from this office pertaining to equipment service, spare parts, and sales promotion is scheduled to increase both as to amount and its effectiveness.

But to assure your receiving all you need where you need it; and to avoid mailing more than you want and involving those in your organization not effected, will you please fill in the attached form and return to us for our files. A nominal quantity of the material for customer distribution will be sent to the person you indicate. He in turn should inform us of the quantity of this particular item needed.

For those of you with branches we are attaching several copies of the above form.

Very truly yours,

LINDEMAN MANUFACTURING CO.

Paul E. Kirker,

Advertising Department

PEK:mmb

SERVICE BULLETINS, SPARE PARTS LISTS, CATALOGS TO DEALER

Name of Firm		
Quantity Needed	•	
	SALES PROMOTION BULLETINS TO DEALER	
Name of Firm_		
	d	
	MATERIAL FOR CUSTOMER DISTRIBUTION	
Name of Firm		
Address		
Attention of		

COMMENTS

LINDEMAN MANUFACTURING COMPANY Yakima, Washington

April 29, 1946

Lindeman-John Deere "BO" Crawler Tractor Dealer's List Price and Discounts

List	Price	Tractor, Standard Tr	ead, 10" Tracks	\$1567.50
List	Price	Power Takeoff		24.75
List	Price	Extra for 12" Track in lieu of 10"	Plates	16.50
List	Price	Extra for 14" Track in lieu of 10"	Plates	33.00
List	Price	Extra for 72" Cross in lieu of Standard	Bars	11.00

Prices f.o.b. Yakima

Dealer's Discount 20% on Tractor and Extras
2% Cash Discount 10 days from date of invoice
Discounts on Repair Parts 25% Net Cash

This supercedes ALL Previous Prices
All Prices subject to change without notice.

POST OFFICE BOX 526 YAKIMA, WASHINGTON

April 30, 1946

LINDEMAN JOHN DEERE CRAWLER TRACTOR DEALERS TO:

Recently you received the following material from this office:

- Lindeman-John Deere Crawler Tractor Parts List No. "B."
- Recommended Repair Parts Stocks for Dealers Servicing up to 5 Tractors.
- 3. Recommended Repair Parts Stocks for Dealers Servicing 10 Tractors or more.

Subsequently you were notified of a typographical error effecting the list price of Part No. TE-25, which should be as follows--

Part No.

Description of Part Unit List Price

TE-25

Track Frame Clamp

\$.85

Attached are three (3) corrected sheets to adjust the above parts lists.

Very truly yours.

LINDEMAN MANUFACTURING CO.

Paul E. Kirker, Jr. Advertising Department

PEK:mmb Encl. 3

	Lindeman-John Deere Crawl PARTS LIST	ler Tractor List "B"	Page 1	
Part No.	Description of Part	Used on Tractor Serial Nos.(Inc)	Qty.Per Tractor Pr	ice
亚 阿维	Throttle Rod Adjustment End (J.D. #D2887R]	326109 And Up	1	.25
TE8	Track Link, RH	" 331692	56 1	05
TE9	Track Link, LH	11 11	56 1	05
TE10	Front Idler	Order TE19		
TE12	Front Idler Bracket, RH	326109 335481	2 3	• o5
TE13	Front Idler Bracket, LH	11 10	2 3	65
TE15	Front Idler Tension Spring	H . H	4 1	1.10
TF.16	Front Idler Tension Nut	M And Up	4	.12
TE17	Front Idler Dust Shield	II II	4	.35
TE18	Front Idler Shaft	, n , , , , , , , , , , , , , , , , , , ,	2	.80
TE1 9	Front Idler (Without TE20 Bearings)	Order TE1019		
TE20	Front Idler Bearing	M M		
TE22	Track Frame Tie Strap	326109 And Up	2	.20
TE23	Track Frame Spacer	if it	8	.09
TE24	Track Bolt (Without Nut & Lock Washer)	n n	112	.06
TE25	Track Frame Clamp	п	, 8	.85
TE28	Track Link, RH	332394 And Up	55 1	.05
TE29	Track Link, LH	ii ii	55 1	.05
TE30	Track Link Lock, RH	H H] 1	L.15
TE31	Track Link Lock, LH	17 18	1 1	.15
			,	

Recommended Repair Part Stocks

for

LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS Servicing up to 5 Tractors

Suggested Quantity	Part No.	Description of Part	Unit List Price
2:	TE25	Track Frame Clamp	.85
· ·	TE34A	Track Locking Pin	•60
2	TE35	Track Pin, Plain	.24
1	TE45	Track Roller Brg. Sleeve, Outbd(Less Greas Fitting)	e .90
1	TE46	Track Roller Brg. Sleeve Inboard	•90
1	TE448	Brake Adjusting Screw (Without TE562 Handl	e) .60
1	TE464	Steering Lever Sleeve Pin	.25
1	TE465	Steering Lever Sleeve	•50
ì	TE538	Connecting Link Head	•45
1	TE539	Connecting Link Screw	.95
1	TE541	Brake Band (Less Lining)	1.80
2	TE542	Brake Band Lining	1.20
1	TE543	Brake Band Pin, Long	.10
2	TE544	Brake Band Strap, Fwd.	.10
2	TE545	Brake Band Strap, Aft.	.13
1	TE547	Clutch Plate, Driving	•50
1	TE550	Connecting Strap Pin, Fwd.	.10
1	TE566	Clutch Throwout Arm, RH	1.60
1	TE567	Clutch Throwout Arm, LH	1.60
2	TE718	Gasket for TE717	.09
1	TE731	Final Drive Pinion, 17-Teeth	8.20
6	TE1024	Track Bolt w/Nut & Lock Washer (TE24 (1) 3908 (1), 5118 (1)	.11
1	TE1028	Trk Link Assy (TE28 (1), TE29 (1), TE38 (1)	3.00

Recommended Repair Part Stocks

for

LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

Servicing 10 Tractors or over

Suggested Quantity	Part No.	Description of Part	Unit List Price
2	TE25	Track Frame Clamp	.85
6	TE34A	Track Locking Pin	•60
6	TE35	Track Pin, Plain	.24
3	TE45	Track Roller Brg Sleeve, (Outbd) (Less Green Fitting)	ase .90
3	TE46	Track Roller Bro Sleeve, in ward	.90
2	TE407	Gasket for TE767	.08
2	TE448	Brake Adjusting Screw (Without TE562 Hdle	60 . 60
2	TE464	Steering Lever Sleeve Pin	.25
2	TE465	Steering Levar Slaeve	.50
1	TE466	Steering Lever, RH	2.50
1	TE467	Steering Lever, LH	2.50
1 .	TE504	Driving Gear Shaft, RH	4.00
1	TE505	Driving Gear Shaft, LH	3.85
1	TE512	Final Drive Pinion Shaft	2.95
6	TE513	Clutch Driving Hub Key	.24
6	TE514	Driven Brake Drum Key	.25
6	TE523	Clutch Spring	.20
1	TE538	Connecting Link Head	.45
2	TE539	Connecting Link Screw	.95
1	TE542	Brake Band Lining	1.20
2	TE543	Brake Band Pin, Long	.10
2	TE544	Brake Band Strap, Fwd.	.10
2	TE545	Brake Band Strap, Aft.	.13

POST OFFICE BOX 526 YAKIMA, WASHINGTON

May 3, 1946

TO: ALL LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

April 4, 1946 all Crawler Tractor dealers were sent two (2) copies of the

> LINDEMAN-JOHN DEERE CRAWLER TRACTOR PARTS LIST - "B"

with information on how to order from this parts list, how the items ordered will be priced, and why it was important to use the Parts List "B" when developing your order.

Nevertheless many of you are still using obsolete parts lists or no parts list at all. This practice can only result in----

- Delay in preparing your order for shipment.
- 2. Inaccuracies in sending you the parts you need.

To save both time and money, you are again EMPHATICALLY URGED to use your Parts "B" when making your order for service parts.

Very truly yours,

LINDEMAN MANUFACTURING CO.

P. H. Austin,

General Manager

PHA:mmb

Manufacturers of LINDEMAN TRACTOR TOOLS

Disc Dischers, Herwest Trailers, Offset
Disc Harrows, Mobile Sprayers,
Tracto: Brush Rales ** **



POST OFFICE BOX 526 TAKIMA, WASHINGTON

May 7, 1946

TO: ALL LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

HYDRAULIC TOOL BAR MAINTENANCE

It is recognized that the maintenance of the Lindeman Hydraulic Tool Bar falls in two catagories----

First: The normal care, simple adjustments, and part replacements necessary as a result of ordinary and expected wear, which should be accomplished by the user.

Second: The more intricate adjustments and replacements which require mechanical training and possibly special tools, which should be done by the dealer.

The first catagory was discussed and illustrated in the Lindeman Hydraulic Tool Bar Assembly and Operation Manual. In that issue care was used not to give encouragement to the user to try to do anything of an intricate and technical nature but rather he was encouraged to consult his dealer.

The second catagory is developed in this manual and deals entirely with the Hydraulic Control System. This directive is designed expressly for dealers and is not distributed by the Company to the user; hence in those cases where it is desirable from the stand point of the dealer to instruct his users on any matter discussed herein it will be necessary for him to instruct the user directly.

LINDEMAN POWER EQUIPMENT CO.

HYDRAULIC CONTROL SYSTEM

The directed flow of the oil in the Hydraulic Control System is the working force which makes the Hydraulic Tool Bar operate, and the directed flow is controlled through the operation of the control stem. The relation of the cams on the control stem to the check valve poppet stem and the by-pass valve poppet stem determines whether the oil pressure created by the pump is directed into the cylinders in the side arms to raise the tool bar, or whether the oil pressure is idle and oil merely flows back into the sumps

Oil Flow with Control System in Reutral

In neutral the check valve is closed, the pressure control valve is closed and the oil flows from the pump through the by-pass valve back to the sump.

Oil Flow during Tool Bar Raising Operation

During the tool bar raising operation the by-pass valve is closed, the pressure control valve is closed, the check valve is open and the oil flows from the pump to the cylinders in the side arms. When the tool bar has reached its maximum height and no more oil can flow into the cylinders the oil pressure is exerted against the pressure control valve, (see Figure Mo. 7). This valve opens when the pressure reaches the point for which the valve is adjusted. The oil then flows to the chamber between the forward cam on the control stem and the control stem plug. The oil pressure avainst this forward cam forces the combrol stom back into neutral position. Any excess oil pressure is automatically rulessed by the stem control valve and the foil flows back to the sump. When the raising operation is stopped before the tool par reaches its maximum height, and the control stem is put into neumal position manually, the pressure control valve and control stem valve are not disturbed.

Oil Flow during Tool Bar Lowering Operation

When the tool bar is lowered the pressure control valve

is closed, the by-pash valve in open in equal valve is open and the oil along from the c. indexed in the side arms, and from the pump, pack to the same.

The operating forces exerted on the control stem are the force of the operator through the hydraulic Control lever and the pressure of the oil against the forward cam when the control stem is intensifically returned to neutral from the raising polition.

The retarding forces are the control tes cased spring and the control step pawl.

The control stem pawl indicates the reising, lowering or neutral position of the compost start and tends to hold the stem in any of these respective positions until it is desired to saift the position of the sentrol stem.

DISMANTLING-ASSEL LYING-ADJUSTERS MY AMAGEMENT SYSTEM

(See Figure lo. O)

Control Stem Check Spring

- 1. Unscrew the control ste oil seal nut (21235) from the Lydwau is Joneral Case.
- 2. Punch out control lever pin (E:17).
- 3. Draw the control stem of the control case until the spr ng (E247) is exposed.
- Take off control stem 1 ver by removing control stem link (333).
- 5. Slip off the control starsed but and the control stem shock wring.
- 6. When reassembling the control stem, care must be used when replaing the control

of seal but so that be seal will not be demanded the control stem. A guide of .003 shim stock should be formed over which the seal but cap be jushed. The shim is then withdrayn when the seal is over the machined portion of the control stem.

Control Stem Plug

1. The innetion of the control stam plut (3234) is merely to lend accessibility to the control stem cashnel. This plut must be kept tight at all times to avoid oil lenkage between the centrol case, the gasket (1236) and the plut.

Control Stem Pawl

- 1. The control stem pawl (E232) and pawl spring (E246) are retained by the hydraulic Control Case Sover (E1200), notice for making any adjustment to the pawl the Control Case Cover must be removed.
- 2. Lift out the pawl spring.
- For access to the pawl remove the control stem from the case.
- 4. Remove control stem plus (E234); insert a screw driver until it touches the tip of the pawl, then fllp the pawl out.
- 5. The control stem must be replaced before the pawl may be placed back in position.

Stem Control Valve

 Since the stem control valve is retained by the control case cover, the cover must be removed to gain access to the valve.

- 2. Litt the stem control velve spring (2231).
- The control valve head (E231) is free on its seat for adjustment or replacement.

Pressure Control Valve

- 1. Remove the outer pressure concret valve plus (E234).
- 2. Inside the outer plug will be seen the pressure control valve plug (E200).

Remove this plug.

The tension on the pressure Caution: -control valve spring exerted by the pressure control valve plug has been carefully regulated by instrument at the factory. No attempt smould be in the field to adjust it. If this sprin, is not lunctioning properly it should be replaced with a new one. Hence it is important that the exact number of turns required to remove the plu, be recorded so that the same number of turns can be made when the play is replaced.

3. In most cases there will be enough oil pressure against the pressure control valve head (E230) to push out the head and the spring. If necessary disconnect the oil line hose from a side arm. Fut the control lever in a raising position, and blow air under pressure into the control case through the oil line. The force of the air will blow the spring and valve head free from the control case.

My-Pass Valvo

- To gain access to the by-pass valve take off the control case cover and remove the control stem.
- Using valve tool No. 398 screw out the by-pass valve seat.
- i. The valve poppet (E2228) can then ce lifted out with the fingers.
- 4. With a bent wire the basket (E239) and spring (E243) can be removed.
- on reassembly, first put the gasket in position on the gasket seat in the valve cavity. Whenever a gasket is removed it should be replaced with a new one.
- Drop the valve spring into the valve cavity.
- 7. Rub a little pressure gun groase on the poppet and slick the stea of the poppet into its channel in the valve seat. The groase will keep the poppet in place while the valve seat is being screwed into position.
- 8. Using the valve tool No. 398 screw the valve head down into the valve cavity until the top of the head is even with the bottom of the control stem channel. This allows 3/32" of the poppet stem to extend above the valve seat to contact the cam on the control stem but does not allow the valve seat to interfer with the action of the control stem.

Check Valve

(Same as By-Pass Valve)

The following outline is for the complete disassembly of the Hydraulic Control System Oil Pump and should be followed for replacement of any of its parts to the extent necessary to reach the part in question.

- Drain the Hydraulic Control Case. Save the oil if it is in good condition for subsequent replacement.
- 2. Remove the control case from the tractor.

Gear Engaging Shaft Assembly

- 3. Take out the jear engaging shaft pawl plus (E222) and with a bent wire lift out the engaging snaft pawl spring (E248).
- 4. Unscrew the Lear engaging shaft (E221) from the Lear engaging yoke (E220). The yoke will then be free to be taken out through the bottom of the pump drive gear housing.
- 5. Loosen the engaging shaft oil seal nut (E1235). Do not remove the oil seal nut from the engaging shaft unless it is necessary. Damage to the seal may occur on replacing unless it is protected from the notches or grooves in the shaft. A guide may be formed out of .003 shim stock over which the seal nut can be slipped into position on the machined portion on the shaft. The shim stock is then pulled out.
- 6. Pull out the sear engaging shaft and the gear engaging shaft pawl (9025) is free to be removed.

Pump Drive Smaft Assembly

7. Remove pump case cover (E1240) and pump

case (E210).

- 8. The pump follower gear (E212), which is directly forward of the pump driven gear, can be lifted out.
- 9. The pump follower gear with its bushing can be driven from the pump follower gear shaft (E214).
- 10. The pump driven gear (E213) which is keyed to the pump drive shaft (E201) by Woodruff keys may be pulled from the shaft with a gear puller.
- 11. To remove the pump drive shaft it is necessary to use a puller.
- 12. For replacement of the pump drive gear (E202) the drive shaft should be taken out entirely but only far enough to allow removing clearance for the drive gear.
- 13. To replace drive shaft bearing (6850) in the housing or the drive shaft oil seals (5840) or (5838) it is necessary to completely withdraw the drive shaft.
- 14. When replacing drive shaft bearings (6850) in the pump cap use driving tool No. E391. When the bearing (6850) is being reseated in the driving gear housing use driving tool No. E395.
- 15. To assure proper functioning of new drive shaft oil seal (5840) and (5838) they should be snuggly tapped into position with driving tool No. E392 for seal No. 5840 and driving tool No. E393 for seal No. 5838.
- 16. After placing the seals care must be used to protect them from the splines on the pump drive shaft when reseating the drive shaft. A guide for the shaft

bind) the greator the greature.

CAUTION

After working on the hydraulic Control Case and before operation the oil should be checked and should added to bring the oil level to the correct operating position.

SERVICE CHART

•	COMPLAINT		CAUSE		REMEDY
- - -	Tool Bar will not raise.	1.	Nydraulie System net en- Laued.	1.	Engaged Hydraulic System.
		2.	Overload	2.	Lighten the load or place load closer to center of tool bar as the tool is designed to lift 2500 lbs. at the conter of the tool bar.
		3.	Not enough oil in Hydrau- lic Control Case.	3.	Fill Hydraulic Control Case to correct operating level.
		4.	Oil may be too light or too heavy.	4.	Change to proper weight of oil. Refer to Page 8 in Hydraulic Tool Bar As- sembly and Operation Manual.
		5.	Dirt or gravel in side arm.	పే.	Mash out side arm.
		6.	By-Pass Valve Leaking	6.	Clean poppet and valve seat and grind valve.
		7.	Relief Valve leaking or not holding required pressure.	7.	If spring is weakened or broken, replace with new spring. Clean and brind valve or replace with new valve.
			•		

SERVICE CHART

COMPLATER	<u>JAGGE</u>	REKEDY
	c. Fisten cup damages.	8. Replace with new piston cup.
	9. Dama, ad piston assembly.	9. Install new piston assembly.
	10. Too much space between pump lears and pump cover or between years of a side	10. Replace worn parts if lears or pump cover is scored; or
	or control case.	Take out asket between pump case and pump cover or between pump case and llydraulic control case.
in the star will not star in raised position.	1. Damaged piston oup.	1. Replace piston cup.
	E. Sheek valve leaking.	2. Clear and prind valve or replace damaged part of valve.
3. Oil overheats in Hydrau-	1. Oil is too light.	1. Change to proper grade of oil.
	2. Overloading tool par.	2. Refer to Paragraph 2 of Compaint 1.
	S. Scored inces of page Sears, cump cover or con- trol case.	3. Refer to Paragraph & Si complaint 1.
	4. Control lever not return- ing to neutral when tool bar is reised to maxium height.	4. Refer to Complaint 4.

SERVICE CHART

	COMPLAINT	CAUSE	<u>REEDY</u>
4.	Oil leaks into crank case.	1. Dama_ed seals on pump drive shaft.	1. Replace seals.
5.	Oil loaks at cylinder.	1. Dama_ed piston cup.	l. Replace piston cup.
		2. Leaking oil fittings.	2. Tighten, repair or replace fittings.
6.	Control does not return to neutral.	l. Not enou_n oil in Hjdrau- lic Control Case.	l. Fill to correct operating level.
		2. Stem control valve spring is weakened or broken.	2. Replace spring.
		3. Control stem sticks in channel.	3. Clean stem and channel.
	n de la companya de la companya da la companya da Pangana da la companya	4. Control stem pawl sticks.	4. Clean pawl or replace with new part if necessary.
		5. Presture control valve sticks.	5. Clean and grind pressure control valve.

LINDERAN HYDRAULIS 100L BAR SPECIAL FOOLS

To efficiently and quickly make correct replacements or adjustments to the Lindeman Hydraulic Tool Bar Hydraulic Control System it is recommended that the following special tools be secured:

TOOL NO.	ADDL DESCRIPTION	OFFER to DEALERS
E-391	Bearing Driving Tool (For pump drive shaft bearing in pump cap)	A complete set
E-392	Seal Driving Tool (For large pump drive shaft seal No. 5840)	Eydraulic Control System Special Tools
E-393	Seal Driving Tool (For small pump drive shaft seal No. 5838)	consisting of leach of the six tools listed
E-396	Gear Driving Tool (For pump driven gear)	is offered to
E-396	Valve Seat Tool (For check valve and by-pass valve)	Dealers for
E-1394	Bearing Driving Tool (For pump drive shaft bearing in housing)	<u>\$15.70 Net</u>

LINDEMAN HYDRAULIC TOOL BAR SERVICE PARTS LIST

I: PARTS LIST Page 15 through 18.

This section lists, in chronological order by part number, those individual items designed and manufactured as units, especially for the Lindeman Hydraulic Tool Bar.

II: PARTS ASSEMBLIES LIST Page 19 through 22.

This section lists, in chronological order by assembly numbers, those groups of items used together as integral units and arc delivered as assembled units.

III: STANDARD PARTS LIST Page 23 through 24.

This section lists, in chronological order by part number, those individual items used in the assembly of the Lindeman Hydraulic Tool Bar but are not especially designed and manufactured for this piece of equipment.

<u>LINDEMAN</u> <u>HYDRAULIC</u> <u>TOOL</u> <u>BAR</u>

PARTS LIST

PART NO.	DESCRIPTION OF PART	QUANTITY PER TOOL BAR	LIST PRICE EACH
E-107 E-108 E-109 E-112 E-113 E-117 E-118 E-122 E-123 E-128 E-123 E-130 E-130 E-135 E-140 E-141 E-147 E-147 E-151 E-151 E-157	Parts indicated as Right Hand or Left Hand which may be used on either side of the tractor, depending on whether the Tool Bar is in a front or rear position, are listed for right or left hand assembly with the tool bar in the rear position. Pulley, lifting cable Pin, lifting cable pulley Roller, cable guide Hanger, Cable, R. H. Hanger, Cable, L. H. Cap, Side arm pivot bracket, L. H. Cap, Side arm pivot bracket, R. H. Pin, Cable guide roller Ear, Cable guide Standard, Oil line fitting Clamp, Oi hose hold down Head, gaure wheel adjustment Handle, Cauge wheel adjustment head Elock, Gauge wheel adjustment head Elock, Gauge wheel adjustment head Clamp, bottom, gauge wheel Clamp, top, gauge wheel Clamp, top, gauge wheel, L. H. Clamp, top, gauge wheel, R. H. Pin, front vertical clevis Trunnion, Oil hose hold down clamp Hose, Oil line Chain, stop Casting, stop chain Cover, dust, lifting cable housing	2 2 2 1 1 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2	1.50 1.10 1.00 5.20 2.75 2.75 1.54 4.50 1.25 1.00 1.10 -75 -50 4.55 1.95 1.95 1.95 1.95 1.95 1.10 1.15

LINDEMAN HYDRAULIC TOOL BAR

E-163 Sor E-164 Rod E-165 Pis E-168 Lea E-169 Cap E-173 Cap E-175 Loc E-176 Sor	DESURIPTION OF PART Our, lifting cable hanger New Cap, mounting bracket H, piston Ston Ston Out, cylinder Out, cylinder Out, cylinder Out, cable hanger Out	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.70 .40 .35 1.35 .65 1.65 .65 .25
E-158 Cov E-163 Sor E-164 Rod E-165 Pis E-168 Lea E-169 Cap E-173 Cap E-175 Loc	cor, lifting cable hanger	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.40 .35 1.35 .65 1.65 .65 .25
E-163 Sor E-164 Rod E-165 Pis E-168 Lea E-169 Cap E-173 Cap E-175 Loc E-176 Sor	rew Cap, mounting bracket	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.40 .35 1.35 .65 1.65 .65 .25
E-163 Sor E-164 Rod E-165 Pis E-168 Lea E-169 Cap E-173 Cap E-175 Loc E-176 Sor	rew Cap, mounting bracket	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.35 1.35 .65 1.65 .65 .25
E-164 Rod E-165 Pis E-168 Lea E-169 Cap E-173 Cap E-175 Loc E-176 Spr	d, piston	2 2 2 2 2 2 2 2 2 2 2 2	1.35 .65 1.65 .65 .25
E-165 Pis E-168 Lea E-169 Cap E-173 Cap E-175 Loc E-176 Spr	ston	2 2 2 2 2 2 2 2 2	.65 1.65 .65 .25
E-169 Cap E-173 Cap E-175 Loc E-176 Spr	o, cylinder o, piston ck, cable hanger cing. cable hanger cover	2 2 2	1.65 .65 .25
E-173 Cap E-175 Loc E-176 Spr	o, piston	2 2 2	.65 .25 .10
E-175 Loc	ck, cable hanger	2	.25 .10
E-176 Spr	ring. cable hanger cover	2	.10
E-176 Spr	ring. cable hanger cover	2	
E-177 Rip	pple, Underpipe, 72"	2	
E-191 Rin	n Phan cause wheel (helf)		.20
	n, Thea. Sauge whost (harr)	2	3.75
E-196 Sha	aft, Pneu. Eauge wheel	2	•60
E-200 Cas	se Hydraulic control	1	47.50
E-201 Sha	aft, Pump drive		3.15
E-202 Gea	r. Pump drive	1	7.60
±=203 381	Ille. Filler neck		•50
	shing, Pump drive shaft seal	1	1.20
	p, oil filler neck		.60
	ck, oil filler		•35
E-208 Con	ver, Hydraulic control case	1	6.70
E-210 Cas	se, pump	1	2.90
E-211 Pin	n, pump case dowel	2	.10
E-212 Gea	ar, pump follower	1	5.15
E-213 Jes	ar, pump driven	1	4.00
E-214 Sha	aft, follower gear	1	.35
E-215 Sci	reen, oil filler neck		.15
	n, control lever		.10
	ke, Gear engaging		.65
E-221 Sha	aft. cear engaling		.55
E-222 Plu	ug. gear engaling shaft pawl	1	.25
3-225 3t	em, control	1	5.85

LINDEMAN HYDRAULIC TOOL BAR

PARTS LIST			
		QUANTITY PER	LIST PRICE
PART NO.	DESCRIPTION OF PART	TOOL BAR	EACH
E-226	Seat, by-pass valve	1	1.10
E-227	Seat, check valve]	1.25
E-230	Head, pressure control valve	1	.40
E-231	Wead, stem control valve	ī	.40
E-232	Pawl, control stem	11	.15
E-233	Plus, pressure control valve	i	.20
E-234	lug, control stem and/ outer pressure control valve plug	1	•40
E-235	Nut. control stem oil seal	ī .	•60
E-236	Gaslets: pressure valve plug and/ Control stem plug and/Control		• • • • • • • • • • • • • • • • • • • •
3 200	Nut, control stem oil seal Gashets; pressure valve plug and/ Control stem plug and/Control stem oil seal nut, and/ gear engaging shift oil seal nut.	4	.03
E-237	Casket, Hydraulic control case	. i	•05
H-238	Gasket. Nydraulic control case	. 1	.05
E-239	Gasket, by-pass valve seat and/ check valve seat	2	.05
E-240	Cover, pump case	1	8.90
E-241	Gasket, pump case		.05
E-242	Spring, pressure control valve	1	.35
E-243	Spring, by-pass valve		•30
E-244	Spring, check valve	11	.20
E-245	Spring, stem control valve	1	.20
三-246	Spring, control stem pawl	. 1	.20
E-247	Spring, control ston check	1	.10
H-248	Spring, engaging shaft pawl	11	.20
E-249	Key, Woodruff, driven gear	4	.10
H-315	Arench, 7/8" Hex Box #	11	2.65
E-316	Wrench, 1-1/8" Hex Box *	. 1	2.85
E-317	Root, lift cable dust	2	1.20
E-3:1	Fipple, underside, 135"	2	.30
E-322	Nipple, Underpipe, 10^{11}_{2}	2	.25
E-325	Dip-stick, oil gauge	1	.10
3-326	Kncb, oil gauge dip-stick	1	• 55
•			
			Page 17
		t .	i Pare IV

LINDEMAN HYDRAULIC TOOL BAR

PARTS LIST

PART NO.	DESCRIPTION OF PART	QUANTITY PER TOOL BAR	LIST PRICE EACH
E-327 E-328 E-333	Decal, control lever operating instructions		.15 .15 .15
			1

^{*} Handles of these wrenches are used as side arm locking pins.

LINDEMAN HYDRAULIC TOOL BAR PARTS ASSEMBLIES LIST

PART NC.	QUANTIT DESCRIPTION OF PART TOOL	
	Parts indicated as Right Hand or Left Hand which may be used on either side of the tractor, depending on whether the Tool Bar is in a front or rear position, are listed for right or left hand assembly with the Tool Bar in the rear position.	
E-1102	Side Arm Complete, R. H., with oil hose connection plug1	78.00
	Composed of: E-108 (1) E-317 (1) E-2145 (1) 7051 (1) E-118 (1) E-1107 (1) 4424 (1) 7082 (2) E-123 (1) E-1120 (1) 4450 (1) 7255 (1) E-157 (1) E-2102 (1) 5317 (1) 9111 (1)	
E-1103	Side Arm Complete, L. H., with oil hose connection plug1	78.00
	Composed of: E-108 (1) E-317 (1) E-2145 (1) 7051 (1) E-117 (1) E-1107 (1) 4424 (1) 7082 (2) E-123 (1) E-1120 (1) 4450 (1) 7255 (1) E-157 (1) E-2103 (1) 5317 (1) 9111 (1)	
E-1107	Cable Pulley, with bearings2	3.80
	Composed of: E-107 (1) 6851 (2)	
E-1112	Cable Hanger Assembly, R. H1	6.55
* · · · · · · · · · · · · · · · · · · ·	Composed of: E-112 (1) E-175 (1) 7420 (1) E-158 (1) E-176 (1) 7422 (1)	

LINDEMAN HYDRAULIC TOOL BAR PARTS ASSEMBLIES LIST

PART NO.	DESCRIPTION OF PART	QUANTITY PER TOOL BAR	LIST PRICE EACH
E-1113	Cable Hanger Assembly, L. H.	1	6.55
**	Composed of: E-118 (1) E-175 (1) 7420 (1) E-158 (1) E-176 (1) 7422 (1)		
E-1120	Cylinder Assembly, Complete with piston assembly	2	17.75
	Composed of: E-109 (1) E-122 (1) E-1165 (1) 5273 (1) E-121 (1) E-169 (1) E-2120 (1) 5296 (1)		
E-1131	Gauge Wheel Adjustment Assembly	1	1.39
	Composed of: E-130 (1) E-132 (1) 7470 (1)		
E-1135	Gauge Wheel Fork Assby, Complete with Adjustment Assby & Clamps_	1	15.90
	Composed of: E-134 (2) E-140 (1) E-1131 (1) 5009 (2) E-135 (1) E-141 (1) E-2144 (1) 5179 (2) E-139 (1) E-142 (1) 3642 (2) 5273 (2)		
E-1153	Cylinder Oil Line Hose Assembly, Complete with Fittings	2	12.00
	Composed of: E-151 (1) 9101 (1)		
E-1155	Stop Chain Assembly	1	5.10
	Composed of: E-154 (2) E-155 (1) 9050 (2)		
			Page 20

LINDEMAN HYDRAULIC TOOL BAR PARTS ASSEMBLIES LIST

PART NO.	DESCRIPTION OF PART	QUANTITY PER TOOL BAR	LIST PRICE EACH
E-1165	Piston Assembly, Complete with Piston Rod	2	3.25
·	Composed of: E-164 (1) E-168 (1) 4024 (2) E-165 (1) E-173 (1) 5173 (2)		
E-1204	Pump Drive Shaft Bushing with Seals	1	2.25
	Composed of: E-204 (1) 5838 (1) 5840 (1)		
E-1208	Hydraulic Control Case Cover Assembly	1	6.95
	Composed of: E-203 (1) E-207 (1) E-208 (1) E-215 (1		
E-1235	Control Stem Oil Seal Nut Assembly and/ Engaging Shaft & Seal Nut Assby	1	1.00
	Composed of: E-235 (1) 5808 (1)		
E-1240	Pump Cover with Pump Drive Shaft Bearing	1	10.50
`	Composed of: E-240 (1) 6850 (1)		
E-1325	Oil Gauge Dip-stick Assembly	1	.75
	Composed of: E-325 (1) E-326 (1)		
E-2102 E-2103 E-2110	Side Arm Assembly, R. H		30.00 30.00 10.00
	l		Pace 21

LINDEMAN HYDRAULIC TOOL BAR PARTS ASSEMBLIES LIST

PART NO.	DESCRIPTION OF PART	QUANTITY PER TOOL BAR	LIST PRICE EACH
E-2111 E-2120 E-2126 E-2144 E-2145 E-2153 E-2160 E-2178 E-2209 E-2228 E-2229 E-2319 E-2320	Mounting Bracket Assembly, L. H. Cylinder Lift Chain Assembly Depth Adjustment Screw Assembly Lift Cable Assembly Under pipe Assembly Pressure Tube Assembly Tool Bar Assembly, 72" Tool Bar Assembly, 96" Control Lever Assembly Poppet for By-pass Valve Poppet for Check Valve Tool Bar Assembly, 78" Tool Bar Assembly, 84"		10.00 7.00 1.40 .50 2.00 2.70 2.00 19.00 22.00 1.75 .50 .55 20.00 20.50
			Page 22

LINDEMAN HYDRAULIC TOOL BAR

STANDARD PARTS LIST

PART NO.	DESCRIPTION OF PART	WHERE USED	QUANTITY USED	UNIT LIST PRICE
3060	Bols, Machine, 5/10"x31", N. C.	Vertical Clevis Fin	ו	Current
3089	Bolt, Machine, 3/8"x42", NC	Hold down clamps	2	11
3642	Bolt, Carriage, 3/4" x 6", NC	Gauge wheel clamp	$\frac{}{2}$	11
4024	Screw, Hex Head Cap, 5/16"x1", NC	Piston cup leather	4	H H
4029	Screw, Hex Head Cap, 5/16"x21", NC	Control Case Cover	6	11
4065	Sciew, Hex Head Cap, 7/16"xl4", NC	Control case to Tractor	4	tt .
4068	Screw, Hex Head Cap, 7/16"x2", NC	Pump cover	_10	11
4084	Scrow, Hex Head Cap, 1/2" x 1", NC	Gauge wheel shaft	2	11.
4168	Screw, Cap (Special) 7/8"x2", NC	Mounting brackets	4	119
4356	Scrow, Hex Head Cap, 7/6/x4", NF	Cradle		11
4424	Screw, Flat head machine, 3/8"x1",NC	Cable housing dust covers	_ 2	11
4550	Screw, Sq. Hd. set, 1/4" x 1/2", NC	Cable pulleys		11
4735	Screw, Allen Set, 5/16"x2", NC	Pump drive shaft bushing	2	11
5002	Nut, Hex Head, 1/4", NC	Gauge wheel rim	5	11
5004	Nut, I ex Head, 3/8", NC	Hold down clamp	2	19
5009	Nut, Hex Head, 3/4", NC	Gauge wheel clamp	2	11
5123	Nut, Sq. Head 5/16", NC	Vertical clevis pin	1	11
5172	Washer, split lock medium, 1/4"	Gauge wheel rim	5	11
5173	Washer, split lock medium, 5/16"	Piston cup leather		11
5175	Washer, split lock medium, 7;16"	Control cast to tractor	4	14
5176	Nasher, split lock medium, 1/2"	Gauge wheel bushing	2	11
5179	Washer, split lock medium, 3/4"	Gauge wheel clamp	2	11
5273	key, cotter, hammer lock 1/8"x1-1/4"	a: Cable guide roller	2	11
•		b: Gauge wheel assembly	2	11
5296	ley, cotter, hammer lock 3/16"x2"	Piston assembly	2	11
5317	key, cotter, hammer lock $\frac{1}{4}$ x $2\frac{1}{4}$	Cable guide	2	It.
5808	Scal, oil	a: Control stem oil seal nut	<u> </u>	11
		b: Engaging shaft oil seal		
		nut	1	11
5838	Seal, Groase	Pump drive shaft	1	li ii
5840	Seal, Grease	Pump drive shaft	<u> </u>	11
6350	Bearing, ball	Pump drive shaft	2	i ii
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Page 23

LINDEMAN AYDRAULIC TOOL BAR

STANDARD PARTS LIST

PART NO.	DESCLIPTION OF PART	WHERE USED	QUANTITY USED	UNIT LIST PRICE
6851 6853 7031 7051 7082 7255 7343 7420 7442 7470 8010	Bearing, ball Bearing, ball Plug, Pipe, external Sq. Hd, 1/4" Plug, Pipe, external Sq. Hd, 3/8" Plug, Pipe, External Sq. Hd, 1/2" Fitting, Zerk Grease, 1/8" Fitting, Tube, 90°Union elbow, 1/2" Rivet, Round head, 3/16" x 2-1/2" Rivet, Round head, 1/4" x 1-1/2" Rivet, Round head, 5/16" x 1-1/4" Washer, Cut, 7/8"	Cacle pulley Gauge wheel Oil drain plug Oil standard Side arm access hole Tool Bar Cradle Pressure tube Cable hanger Cacle hanger Gauge wheel adjustment assby. a: Tool Bar Cradle b: kounting Bracket	1 -2 -4 -2 -1 -2 -2 -2	Current ii i
9001	Knob, lever	a: Control Lever b: Gear engaging shaft	1 1	1\$ 1\$
9025 9050 9101 9111	Pall, steel, 5/16" Cold shut, 3/8" Socket, hose connection Plug, hose connection	Gear engaging shaft pawl Stop chain Oil line hose Oil line standard	l	19 19 17 18
	Tire, 2 ply, 400 x 8 This, special stem, 400 x 8	Gauge wheel	1 1	11 10
	ı			Page 24

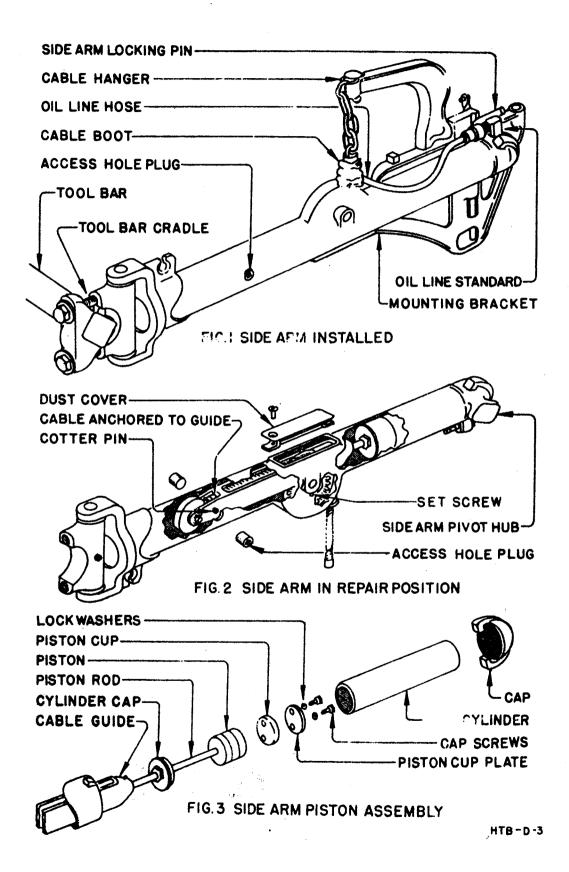


FIG. 5 ASSEMBLED TOOL BAR

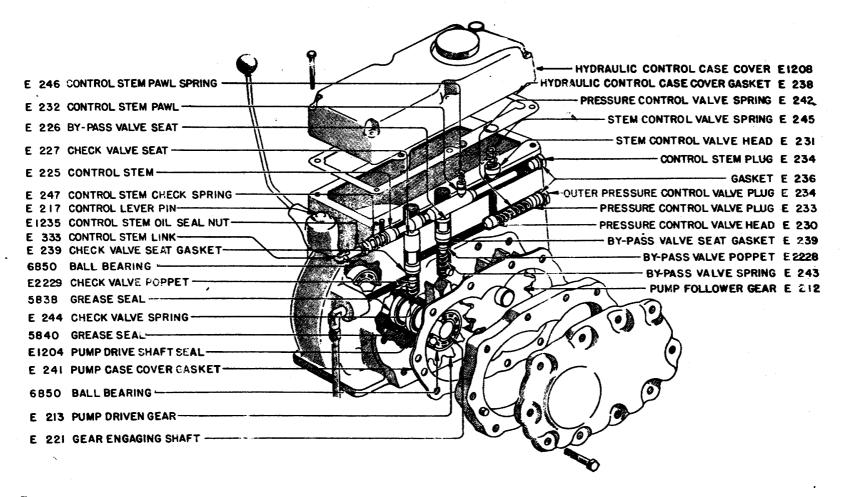


FIG. 6 HYDRAULIC CONTROL SYSTEM ADJUSTMENTS

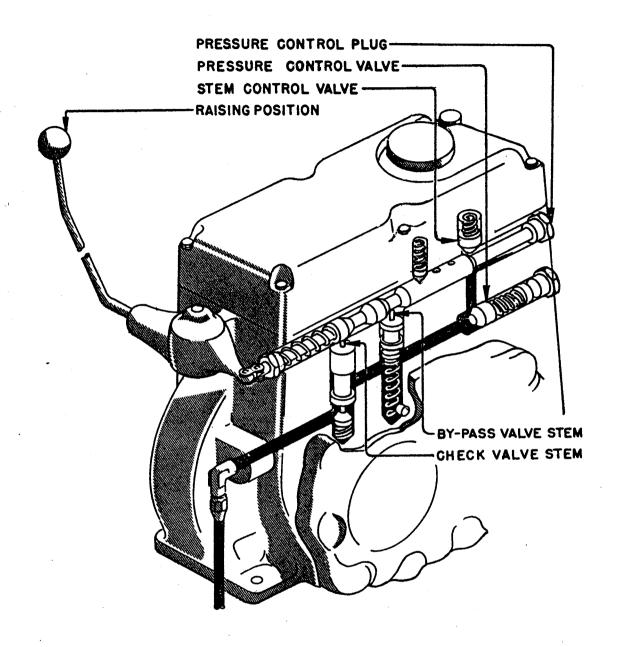
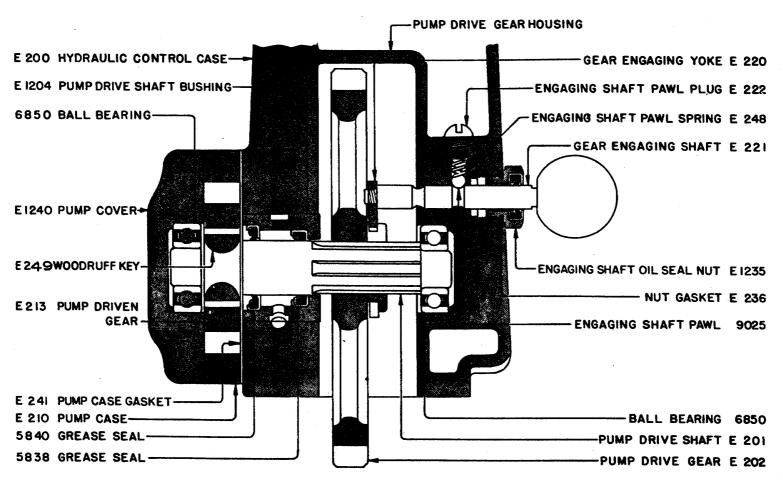


FIG.7 OIL FLOW DURING TOOL BAR RAISING OPERATION



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FIG.8 HYDRAULIC CONTROL PUMP ASSEMBLY

Manufacturers of: LINDEMAN TRACTOR TOOLS Disc Ditchers, Harvest Trailers, Offset Disc Harrows, Mobile Sprayers, Tractor Brush Rakes



POST OFFICE BOX 526 YAKIMA. WASHINGTON

May 18. 1946

ALL LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

Is our face red!!!!

We tried so hard to make all of our comments and illustrations in the Lindeman Hydraulic Tool Bar Assembly and Operation Manual absolutely correct but we were the victims of circumstances. In spite of proof reading a bug did crawl in.

Accidently the illustrator used as a model a machine which was intentionally assembled incorrectly so that the effect of improper assembly could be observed by our testing department.

The text on Page 5, under the subject "Cable Hookup to Cable Hangers" is correct but that portion of Figure 3 and Figure 5 showing the cable hook up is incorrect when the side arm is in the upper pivot socket in the mounting bracket.

Please insert the corrected illustrations in your Lindeman Hydraulic Tool Bar Assembly and Operation Manual.

Thank you!

LINDEMAN POWER BOUTDMENT CO.

LINDEMAN POWER EQUIPMENT COMPANY Yakima, Washington

August 1, 1946

DEALERS PRICE LIST

LINDEMAN HYDRAULIC TOOL BAR

for the

LINDEMAN-JOHN DEERE GRAWLER TRACTOR

List Price

HYDRAULIC TOOL BAR ASSEMBLY, Standard

Consisting of: a: Hydraulic Control System

b: Side Arms and Mounting Brackets

c: 72" Tool Bar

d: Gauge Wheel Assembly with

Steel Wheel

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Extra for Special Assembly Items in lieu of Standard

78" Tool Bar	1.10
84# Tool Bar	1.65
96 ^{ff} Tool Bar	3.30
Gauge Wheel with Pneumatic	
Tired Ball Bearing Equipped	* *
Wheel	15.95
Rubber Tired Gauge Wheel	
as extra	47.30

SPECIAL ATTACHMENTS

DOZER BLADE, 6 Feet	68.75
<u>DEPTH</u> <u>ADJUSTMENT</u> <u>SHOE</u> for Dozer B	lade 38.78
BRUSH RAKE, Model R-1016, 7½ Feet with 6 Teeth	Wide 107.25

f.o.b. Yakima, Washington---- Net 10th Prox.

Dealer Discount 20% on Tool Bar and Special Attachments.

Dealer Discount 25% on Service Parts for Tool Bar and Special Attachments.

Invoices will reflect prevailing prices at time of shipment. The above prices and discounts are in accordance with MPR-246, Amendment 19, dated July 31, 1946.

LINDEMAN POWER EQUIPMENT COMPANY Yakima, Washington

September 23, 1946

TO: ALL LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

Effective today, September 23, 1946, the List Prices on the Lindeman-John Deere Crawler Tractor and attachments have been increased approximately 3.18% in accordance with R. M. P. R. 136, Order 676.

The enclosed Price Lists reflect these changes.

In line with this same O. P. A. directive, the List Prices for Service Parts for the Lindeman-John Deere Crawler Tractor and its attachments are increased 13.5%. To correctly compute current List Prices on these Service Parts, add 13.5% to the prices listed in the Lindeman-John Deere Crawler Tractor Parts List No. B.

You are authorized by R. M. P. R. 136, Order 676 to increase your retail prices to the full extent of this advance.

Yours truly,

LINDEMAN POWER EQUIPMENT CO.

P. H. AUSTIN

General Manager

Enclosure

LINDEMAN MANUFACTURING COMPANY Yakima, Washington

September 23, 1946

Lindeman-John Deere "BO" Crawler Tractor Dealer's List Price and Discounts

List	Price	Tractor, Standard Tread, 10" Tracks	\$	1617.38
List	Price	Power Takeoff	•	25.54
List	Price	Extra for 12th Track Plates in lieu of 10th		17.03
List	Price	Extra for 14" Track Plates in lieu of 10"		34.05
List	Price	Extra for 72" Cross Bars in lieu of Standard		11.35

Prices f.o.b. Yakima

Dealer's Discount 20% on Tractor and Extras

2% Cash Discount 10 days from date of invoice

Discounts on Repair Parts 25% Net Cash

This supercedes ALL previous prices

All prices subject to change without notice

Invoices will reflect prevailing prices at time of shipment.

Manufacturers of: LINDEMAN TRACTOR TOOLS

Disc Ditchers, Harvest Trailers, Offset
Disc Harrows, Mobile Sprayers,
Tractor Brush Rakes & & & & &



POST OFFICE BOX 526
YAKIMA, WASHINGTON

November 19, 1945

TO: Lindeman-John Deere Crawler Tractor Dealers.

Most of you are aware that we have been engaged for sometime in "tooling up" for production of a Hydraulic Tool Bar designed for mounting on the Lindeman-John Deere Crawler Tractor. This new tool bar is now ready for distribution.

During the time we were "tooling up" there were several of these tool bars placed in different territories and in practically every one of these localities there has resulted a big demand for this equipment.

Enclosed are some reproductions of photographs showing the tool bar with some of the various tools mounted in front and rear positions on the crawler tractor. The tools mounted on the bar in rear position, as you will note in the illustrations, are manufactured by Killefer Manufacturing Company, Los Angles, California, and are available through your nearest John Deere Plow Company warehouse. Our company manufactures the 6-foot dozer blade shown in two of the illustrations enclosed. A limited number of the blades are available for immediate shipment and more will be available as soon as we receive the moldboards and bits from the manufacturer who supplies them to us.

The dozer blade depth adjustment shoe shown in the illustrations is also available and we recommend its use with the blade. The entire dozer attachments including the depth shoe can be easily and quickly mounted or detached from the tractor.

Our experience in mounting the tool bar on tractors already in the field indicated that approximately four hours are required for the original installation. This includes mounting the entire control assembly as well as the tool bar. Once this complete assembly has been installed on the tractor, the tool bar itself can be mounted or dismounted to the tractor in less than five minutes time and may be changed from front to rear positions and vice versa in a like matter of time.



POST OFFICE BOX 526
YAKIMA, WASHINGTON

November 27, 1946

TO: ALL LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

SUBJECT: LINDEMAN TURNING BAR - NO. TE1455

The Turning Bar for the Lindeman-John Deere Crawler Tractor, for use with off-set disc harrows, is ready for delivery.

This sturdy tractor accessory will be delivered completely assembled for quick attachment to any Lindeman-John Deere Crawler Tractor. Instructions for mounting are sent with each Turning Bar.

The List Price for this item is attached to this letter.

LINDEMAN POWER EQUIPMENT CO.

LINDEMAN POWER EQUIPMENT COMPANY Yakima, Washington

November 27, 1946

LINDEMAN TURNING BAR - NO. TE1455

for

LINDEMAN-JOHN DEERE CRAWLER TRACTOR

List Price Lindeman Turning Bar - No. TE1455

\$10.75

Prices f.o.b. Yakima, Washington Dealer Discount 20%

Price subject to change without notice.

Invoices will reflect prevailing prices at time of shipment.

ATTACHMENT INSTRUCTIONS

LINDEMAN TURNING BAR - NO. TE1455

for the

LINDEMAN-JOHN DEERE CRAWLER TRACTOR

Procedure for attaching Turning Bar:

- Take nut and washer off of the left hand cap screw in the draw bar clamp.
- Place forward end of the Turning Bar on this cap screw and replace washer and nut.
- 3. Remove the two 5/8" carriage bolts that secure the left hand foot rest and the left end of the draw bar segment.
- 4. Insert the two longer 5/8" carriage bolts, that come with the Turning Bar, through the left foot rest, the draw bar segment, and then the Turning Bar.
- 5. Snuggly tighten the nuts on the two carriage bolts and on the cap screw.

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Yakima Washingt

December 4, 1946

ALL LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

SUBJECT: OIL SEAL KIT NO. 5808

To facilitate the replacing of the oil seal (5808) used with the oil seal nut (E235) on the Engaging Shaft and Control Stem of the Hydraulic Control System of the Lindeman Hydraulic Tool-Bar, this oil seal is now supplied as

Oil Seal Kit No. 5808.

The reason for selling this particular item as a Kit is to have available the materials needed and to provide installing instructions necessary to assure the placing of the seal on the shaft or stem without damage.

The oil seal kit is composed of:

Packed in the envelope -

Oil Seal No. 5808

1 piece

1 only

Shim Stock

Printed on the envelope -B.

> Illustrated instructions for seating the oil seal in the oil seal nut, and for slipping the oil seal and nut assembly on the Control Stem or Engaging Shaft.

Injury to the seal may occur if it is not protected from the notches or prooves in the end of the shaft or stem. A guide may be formed from the shim stock over which the assembled seal and oil seal nut may be slipped into position on the machined portion of the shaft. The shim stock is then pulled out.

The Service Parts List Supplement attached to this letter indicates a List Price calculated on the same basis as the List Prices on Lindeman Hydraulic Tool-Bar Service Parts List now in your possession. When determining your net price, 10% must be added to this List Price.

LINDEMAN HYDRAULIC TOOL BAR

STANDARD PARTS LIST

(Supplement - 12-4-46)

PART NO.	DESCRIPTION OF PART	WHERE USED	QUANTITY USED	LIST LIST PRICE
5808	Oil Seal Kit	a. Control Stem Oil Seal Nut	1	.50
		b. Engaging Shaft Oil Seal Nut	1	

LINDEMAN HYDRAULIC TOOL BAR

PARTS LIST

(Supplement - 12-4-46)

PART NO.	DESCRIPTION OF PART	QUANTITY PER TOOL-BAR	LIST PRICE EACH
E-223	Pawl, Control Stem	1	.20
E-262	Spring, Control Stem Pawl	1	.20

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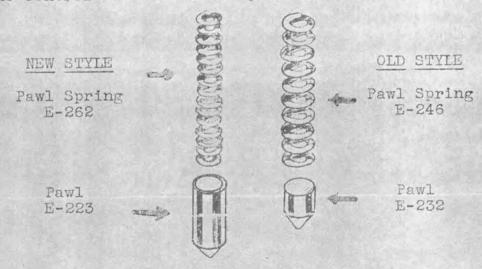
December 5, 1946

TO: ALL LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

SUBJECT: NEW HYDRAULIC CONTROL SYSTEM PAWL

A new style pawl and pawl spring are now being installed in the Hydraulic Control System of the Lindeman Hydraulic Tool-Bar.

The new pawl is longer, giving greater side bearing surface, and is more accessable for adjustment or replace-It extends above the top edge of the Hydraulic Control Case and into the Control Case Cover. The top of the pawl is drilled and pawl spring is seated down into the pawl rather than on top of it. This holds the spring in place when the Control Case Cover is removed. To remove the new pawl and pawl spring, merely take off the Control Case Cover and pick them out with the fingers,



The new and old style pawls and pawl springs are interchangeable as long as both spring and pawl are changed together. The new pawl will not function with the old style spring or the new spring will not operate with the old pawl.

The Service Parts List Supplement attached to this letter indicates List Prices calculated on the same basis as the List Prices on Lindeman Hydraulic Tool-Bar Service Parts List now in your possession. When determining your net price. 10% must be added to this List Price.

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December 6, 1946

TO: ALL LINDEMAN-JOHN DEERE CRAWLER TRACTOR DEALERS

SUBJECT: LINDEMAN BUCK BRUSH RAKE

Sufficient material is now on hand to manufacture 75 Lindeman Buck Brush Rakes, Model R-1006, to be mounted on the Lindeman-John Deere Crawler Tractor with the Lindeman Hydraulic Tool-Bar.

As the pipe that is used in the manufacture of this rake is a very critical item, only that number of rakes will be scheduled for production that is needed to fill confirmed orders.

If you will advise us of your requirements by December 23, 1946, we can have ready for shipment the rakes that you will need by approximately January 15, 1947.

An early commitment from you will be appreciated.

Very truly yours,

LINDEMAN POWER EQUIPMENT CO.

JOHN McCAGUE Sales Manager

POST OFFICE BOX 526 YAKIMA, WASHINGTON

December 6, 1946

Lindeman Integral Buck Brush Rake

for

Lindeman Hydraulic Tool-Bar

PRICE LIST ararararar arararar

CATALOGUE	NO.		PRICE LIST
R-1005		Standard Rake with 5 - 2" Standard Pipe Teeth	\$ 93.50
R-1006		Rake with 6 - 2" Standard Pipe Teeth	101.20
R-1015		Rake with 5 - 2" Extra Heavy Pipe Teeth	99.00
R-1016		Rake with 6 - 2" Extra Heavy Pipe Teeth	107.25

f.o.b. Yakima, Washington Subject to Change without Notice Dealers Discount - 20% Invoices will reflect prevailing prices in effect at time of shipment.