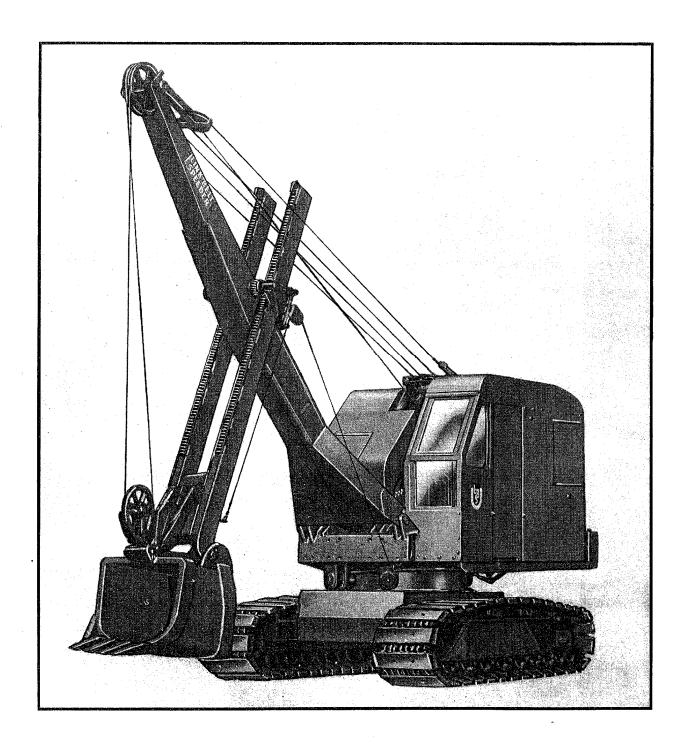


MODEL LS-71



THIS CATALOG EFFECTIVE MACHINE NO. 3F01



INSTRUCTIONS FOR ORDERING PARTS

This list does not carry every part on the machine; merely the ones on which we anticipate the possibility of the need for service.

The Parts Catalogue progresses from the lower frame up thru the machine to the power unit. Immediately following the power unit is found on the parts on the various tools or attachments. An index is to be found at the end of the book.

Whenever in doubt as to whether you can order from this parts catalogue, send us a sketch of the part needed, or send in the old part.

Never order from pictures, merely use them to help identify and locate the part you want.

Parts lists covering the accessories, such as engine, magneto, carburetor, starter, etc., will be furnished upon request.

All prices quoted at any time are subject to change without notice.

All prices quoted by the factory are f.o.b. Cedar Rapids, Iowa.

All shipments are C.O.D. or SDBL unless other arrangements have been made with our company.

State MODEL of machine, with Engine and Serial numbers.

State to whom shipment is to be made.

State method of shipment desired, whether parcel post, express, freight or truck, otherwise our own judgment will be used.

Claims for shortage or error should be made upon receipt of the parts.

No responsibility will be assumed for delay, damage or loss to merchandise while in transit. Broken, damaged or lost material should be refused or a full description made of damage or loss by the carrier agent on the freight or express bill.

If, for any reason, you desire to return parts to the factory, to one of our warehouses or to any distributor from whom these parts were obtained, you must first secure permission to return the parts. Shipping instructions will be given you along with this permission. A 10% handling charge must be assessed against the returned shipment unless an error is made by the factory, by the warehouse or by the distributor while filling your order.

Stocks of parts are maintained at points strategically located throughout the United States and in some foreign countries. For prompt service from the closest stock, always order through the nearest SPEEDER distrībutor.

TELEGRAPHIC CODE

For convenience and economy when ordering by telegram, code words are provided for all parts. This code is made up of a combination of letters. You may use the following code for any parts number.

1	- B	7	_	M
	- C	8	_	R
	- D	9	_	Х
	- J	0	_	Т
	- K	1/4	-	W
	- L	1/2	_	Y

Example - ordinarily part number T327 would be transmitted as four separate words, whereas by using the code the number is transmitted as one word - TDCM.

Parts numbers carrying a prefix or suffix will retain either or both. For example, T665 will be transmitted TLLK. Likewise R585CB will be transmitted RKRKCB.

USE THIS CODE WHEN TELEGRAPHING

```
Ship Air Mail to
Ship to me (us) by Parcel Post
Charge our account and ship by Parcel Post to
J ACK
JADE
JAG
                               Charge our account and ship by Parcel Post to Ship by Parcel Post COD to Ship to me (us) by Express
Charge our account and ship by Express to Ship by Express COD to
Ship to me (us) by Freight
Charge our account and ship by Freight to Ship by Freight SDBL to
Ship in addition to previous order
Ship what is ready, balance as soon as possible When do you expect to ship order(s)
Ship Air Express to
Ship Air Freight to
JAIL
JAM
JANGLE
JAR
JAUNT
JAW
JEAN
JET
JITG
```

JAB

Use telegraphic code only in telegrams, CONFIRM all telephone or telegraph orders IMMEDIATELY.



QUICK REFERENCE SYSTEM

TO LOCATE DESIRED INFORMATION, MATCH BLACK INDEX TAB WITH BLACK TABS ON APPROPRIATE PAGES OF THIS CATALOG

Lower Frame and Crawlers
Revolving Frame
Vertical Shaft Assemblies
Front Drum Shaft Assembly
Hoist Drum Shaft Assembly
Reverse Shaft Assembly
Horizontal Drive Shaft, Pinion and Chain
Engine and Clutch
Operating Controls
Shovel Attachment
Trench Hoe Attachment
Crane, Clamshell, Dragline and Pile Driver Attachments
Tagline Winder and Dipper Trip
Cable Requirements
General Instructions
Maintenance Information
Lubrication Chart
Alphabetical Index
Numerical Index



TREAD SPROCKET SEE FIG. 3

TRACK CARRIER ROLLER SEE FIG. 5

LOWER TRACK ROLLER

FIG. 1. LOWER FRAME AND CRAWLERS

In the column listed "Position" the numbers are for identification only. The first number designates the figure, the second denotes the object.

• •			•
Position	Part No.	No. Req.	
LOWER FRAME	GROUP		
1-1	AB272	1 8	Gear, Turntable Machine Bolt, 3-4" x 2-3/4", with Nut and
		6	Lockwasher Machine Bolt, 3/4" x 3-1/4", with Nut, Bevel Washer and Lockwasher
TRACK IDLER	ROLLER GR	OUP	
2-1	AE123	2	Roller, Track Idler, with Two AA83 Bronze Bushing, 3-1/2" x 4" x 2-1/4"
	1627	2	Grease Fitting,
2-2	AB440	2	Shaft, Track Idler Roller, 3-1/2" x 15-1/4"
2-3	AE127	4	Washer, Track Idler Roller Shaft Thrust, 6" x 7-1/8" x

Description

SEE FIG. 4

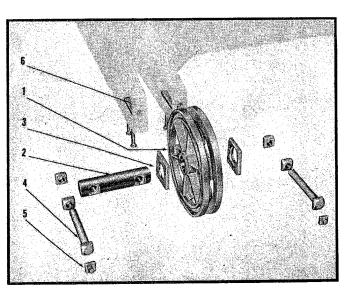


FIG. 2. TRACK IDLER ROLLER

LINK-BELT SPEEDER



SECTION I—LOWER FRAME AND CRAWLER—Continued

Positi	.on	Part No.	No. Req.	Description
TRACK	IDLER	ROLLER	GROUP, Con	tinued
2-4		AA84	4	Bolt, Track Idler Roller Adjusting, 1-1/2" x 12", with AB442 Square Nut
2-5		AE113	4	Keeper, Adjusting Bolt, 2" x 1/2" x 2", with Cap Screw, 5/8" x 1-1/2", and Lockwasher
2-6		AA86	4	Bar, Steel Take Up, 3" x 5/8" x 9", with Cap Screw, 3/4" x 1-1/4", and Lockwasher
		NOTE:	The Follow	oing Three Items used as required for Track Idler Roller Shaft Adjustment.
		AE135 AE136 AE137	1 1 1	Shim, 3" x 16 Ga. x 7-1/2" Shim, 3" x 20 Ga. x 7-1/2" Shim, 3" x 28 Ga. x 7-1/2"
TREAD	SPROCE	KET GROU	JP	
3-1		AE101	2	Sprocket Assembly, Chain and Tread, Weld Complete, Consisting of the
		AE102 AE103	2 2 4 4 8	Following Items: Sprocket, Tread, with AEl04 Bronze Bushing, 4" x 3-1/2" x 6" Sprocket, Chain, with AEl04 Bronze Bushing, 4" x 3-1/2" x 6" Pipe Nipple, 1/4" x 2" Pipe Nipple, 1/4" x 1-1/2" Pipe Coupling, 1/4"
		1629	8	Grease Fitting, 1/4" x 67-1/2 Degree
3-2 3-3 3-4 3-5 3-6		AB330 AE110 AA77 AA79 AE113	2 4 4 8 4	Shaft, Chain and Tread Sprocket, 3-1/2" x 26-1/8" Washer, Tread Sprocket Shaft Thrust, 6" x 3/4" x 6" Bolt, Tread Sprocket Adjusting, 1-1/2" x 12", with AA78 Square Nut, 1-1/2" Nut, Adjusting Bolt Lock, 1-1/2" Keeper, Adjusting Bolt, 2" x 1/2" x 2", with Cap Screws, 5/8" x 1-1/2", and Lockwashers
3-7		AA76	4	Bar, Steel Take-Up, 3" x 5/8" x 7-1/2"
		NOTE: AA207	Following 2	item to be used as required for Sprocket Shaft Adjustment. Shim, 3-3/8" x 16 Ga. x 7-1/2"

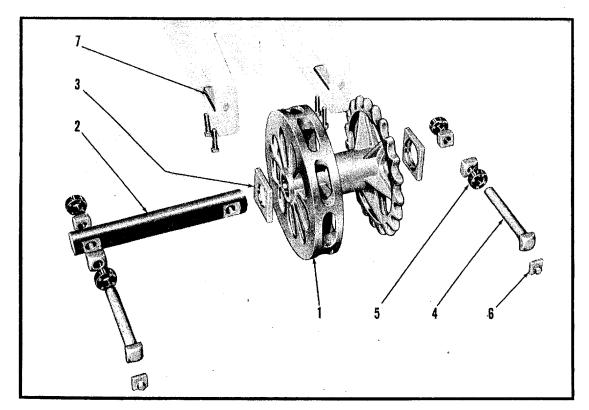


FIG. 3. TREAD SPROCKET



SECTION I—LOWER FRAME AND CRAWLER—Continued

Position	Part No.	No. Req.	
LOWER TRACE	K ROLLER G	ROUP	
4-1	AA211	12	Roller, Lower Track, with Two KC28 Bronze Bush- ings, 2-1/2" x 3" x 2"
4-2	AB422	12	Shaft, Track Roller, 1/2" x 10"
	1627	12	Grease Fitting,
4-3	AE141	24	Washer, 4" x 5/16"
4-4	AB421	24	Keeper, Track Roller Shaft, 2-1/2" x 1/2" x 9-1/2"
		48	Bolt, Square Askew Shaft, 5/8" x 2", with Nut and Lock- washer
TRACK CARRI	ER ROLLER	GROUP	
5-1	AC1947	4	Roller, Track
	1610	8	Carrier Grease Fitting, 1/8"
5-2	AB417	4	Bracket, Track Carrier Roller Shaft, Weld Complete
5 - 3	AB418	4	Bracket, Track Carrier Roller
		16	Bolt, Sq. Askew Head, 5/8" x 2", with Nut and Lockwasher
TRACK SHOES	3 - 20" - I	PRIOR MACH	IINE NO. 3F70
1-2	AC262	64	Shoes, Track, with Connecting Pin, Bolt, Nuts and Lockwasher
1-3	AC263	64	Pin, Connecting, 1-1/8" x 17-1/4"
		128	Bolt, 1/2" x 1-1/2", with Nut and Lock- washer
TRACK SHOES	3 - 24" - I	PRIOR MACH	INE NO. 3F70
1-2	AE244	64	Shoes, Track, with Connecting Pin, Bolts, Nuts and Lockwashers
1-3	AE245	64	Pin, Connecting, 1-1/8" x 21-5/8"
		128	Bolt, 1/2" x 1-1/2", with Nut and Lock- washer
TRACK SHOES	5 - 30" - I	PRIOR MACH	INE NO. 3F70
1-2	AA171	64	Shoes, Track, with Connecting Pin, Bolts, Nuts and Lockwashers



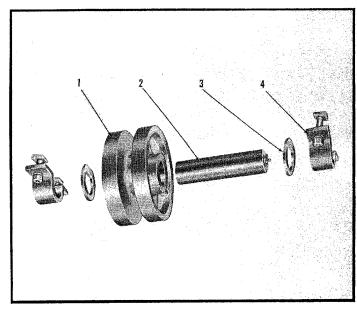


FIG. 4. LOWER TRACK ROLLER

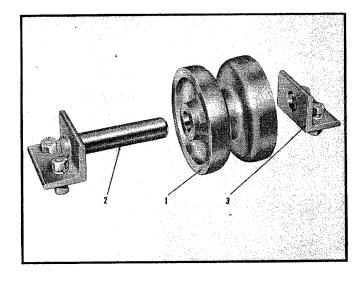


FIG. 5. TRACK CARRIER ROLLER



SECTION I—LOWER FRAME AND CRAWLER—Continued

SECTION 1—LOWER FRAME AND CRAWLER—Continued					
Positi	on	Part No.	No. Req.	Description	
TRACK	SHOES	- 30",	Continue	d	
1-3		AE245	64 128	Pin, Connecting, $1-1/8$ " x $21-5/8$ " Bolt, $1/2$ " x $1-1/2$ ", with Nut and Lockwasher	
TRACK	SHOES	- 16"			
		AB445 AB446	64 64 128	Shoe, 16" Track complete with Connecting Pin, Bolts, Nuts and Lockwashers Pin. Connecting, $1-1/8$ " x $12-3/4$ " Bolt, $1/2$ " x $1-1/2$ ", with Nut and Lockwasher	
.TRACK	SHOES	- 20" -	(AFTER	MACHINE NO. 3F69)	
		AB576 AA549	64 64 128	Shoe, 20" Track, complete with Connecting Pins, Bolts, Nuts and Lockwashers Pin, Connecting, $1-1/8$ " x 17 " Bolt, $1/2$ " x $1-1/2$ ", with Nut and Lockwasher	
TRACK	SHOES	- 24" -	(AFTER	MACHINE NO. 3F69)	
		AA548 AA549	64 64 128	Shoe, 24" Track, Complete with Connecting Pin, Bolts, Nuts and Lockwashers Pin, Connecting, $1-1/8$ " x 17 " Bolt, $1/2$ " x $1-1/2$ ", with Nut and Lockwasher	
TRACK	SHOES	- 30" -	(AFTER	MACHINE NO. 3F69)	
		AA610 AA549	64 64 128	Shoe, 30" Track, complete with Connecting Pin, Bolts, Nuts and Lockwashers Pin, Connecting, 1-1/8" x 17" Bolt, 1/2" x 1-1/2", with Nut and Lockwasher	
TRACK	DRIVE	CHAIN G	ROUP		
1-4		AB433	2	Chain, Traction Drive Roller, No. XXS40, 48 Links	
				NOTE: Replacement links for No. XXS40 Roller Chain are kept in stock.	
HORIZO	NTAL 1	TRACTION	SHAFT GI	ROUP	

6-1	AE53	2	Sprocket, Drive, 7-Teeth
6-2	AE58	2 2 2	Set Screw, Sq. Head, 5/8" x 2" with Nut Shaft, Outer Traction, 3" x 22-15/16"
6 - 3	ACU46	$\overset{\sim}{4}$	
0-0	AC040	16	Bearing Assembly, Traction Shaft, Babbitted
		10	Bolts, 3/4" x 5-1/2", with Mut, Bevel Washer, and Lockwasher
0.4	4 ****	15	Bolts, 3/4" x 2-1/2", with Nut, Bevel Washer, and Lockwasher
6-4	AE71	ž	Spring, Traction Shaft, 3-11/16" x 9"
6- 5	AC60	2	Collar, Bronze Shift
6-6	AC63	2	Clutch, Stationary Jaw with AC64 Bronze Bushing. 5-1/2" x 5-1/32" x 2"
6-7	AC59	2	Clutch, Sliding Jaw
6- 8	AE 80	2 2 2 2 2 1	Spacer, Outer Traction Shaft
6 - 9	AC69	1	Clutch, Traction, with AC70 Bronze Bushing, 3" x 2-1/2" x 3"
6-10	AC72	1	Shaft, Center Traction, 3" x 15-5/8"
6-11	AC73	ī	Gear, Traction Bevel, 18 Teeth (Splined)
6-12	AC74	ī	Washer, Bronze Thrust, 6" x 4" x 1/4"
6-13	AB329	ī	Clutch, Traction Lock, with AC70 Bronze Bushing, 3" x 2-1/2" x 3"
	AC1519	ā	Hose Assembly, Flexible Grease
	AB465	2	Tube, Grease, 5/16" O.D. x 39"
	AB466	2 2 2 6	
	M3400	e e	Tube, Grease, 5/16" O.D. x 37"
		10	Street Elbow, 1/8"
		Τĕ	Pipe Coupling, 1/8"
	1010	12 8 6 2	Pipe Nipple, 1/8" x 3/4"
	1610	6	Grease Fitting, 1/8"
	HB117	2	Clip, Grease Line, 1" x 20 Ga. x 3/4", with Nut and Lockwasher
	HB182	4	Connection, 5/16" x 1/8"