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MANUAL PREVIEW

Insley Parts Manual H Excavator

Parts Manual

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INSLEY

HYDRAULIC



TYPE H FULL HYDRAULIC BACKHOE CRAWLER MOUNTED

- Full Revolving Upper with Continuous Swing
- 3 Heavy-Duty, Individually Mounted Pumps
- 17 ft. Digging Depth
- 135° and 165° Bucket Rotation
- Two-speed Travel
- 40% Gradability
- Proven Insley Crawler Design
- Travel is Independent of Swing

Upper Works Specifications

POWER PLANTS

- Gasoline:** CASE 284G—4 Cyl.—284 Cu. In. 4 1/4" x 5", 74 Net H.P.
- Diesel:** CASE 301D—4 Cyl.—301 Cu. In. 4 3/8" x 5", 74 Net H.P.
GM 453—4 Cyl.—212.3 Cu. In. 3 7/8" x 4 1/2", 82 Net H.P.
- Fuel Tank:** 30 Gal. plus Optional Auxiliary Tank

HYDRAULIC SYSTEM

- Pumps:** Three heavy-duty pumps (not in tandem). Operating at 125 G.P.M. @ 1800 engine R.P.M.
- Operating Pressure:** 1,650 P.S.I.
- Oil Capacity:** 185 Gal.
- Cylinders:** Four double-acting cylinders with self-aligning bearings.
Boom: Two 4 1/2" I.D. with 2 1/2" rod and 45" stroke.
Arm: One 5 1/2" I.D. with 3" rod and 53" stroke.
Bucket: One 5 1/2" I.D. with 2 1/2" rod and 26" stroke.
- Control Valves:** Control valve design includes "feathering" spools to provide micro-control with quick, smooth response. Valves are separate for ease of maintenance.
- Filtration:** The hydraulic system is fully protected by filters.
- Protection:** All hydraulic lines are protected against excessive high pressure by strategically located pressure reliefs. The swing system is equipped with a cross-over relief valve.

CAB: All steel wide vision cab with sliding door at the operators station. A removable and self storing window is located to the front

of the operator and a sliding window at the left and a fixed window to the rear and in the sliding door. Safety glass set in rubber is used throughout.

The operator's station is enclosed and separated from the deck machinery.

CAB LOCK: (standard) Brake type cab lock controlled from operator's station. Capable of holding upper in any position.

REVOLVING FRAME: The revolving deck is built up of structural shapes welded into an integral one-piece weldment. Accurate assembly is insured by precision machining and fixturing.

TURNTABLE ASSEMBLY: All steel welded fabrication. The trunnion and roller path are machined in the same operation to assure concentricity. The large machined swing gear is piloted in the turntable and welded in place.

HOOK-LOAD ROLLERS: There are four conical hook-load rollers in front and two in the rear. All are equipped with sealed Timken anti-friction tapered roller bearings—requiring no additional lubrication.

OPERATING CONTROLS: Controls are located to keep operator fatigue at a minimum. Control valves have "feathering" type spools to provide a smooth response when engaged. Swing and hoist are operated with hand levers. Bucket and stick by either hand levers or foot pedals.

Crawler Specifications

- CARBODY:** All welded carbody with heavy I-beam supporting axles.
- DRIVE:** Two hydraulic motors inside the carbody are used to drive the crawlers through a cross propel shaft to the jaw clutches. Heavy duty roller chain drives are used as the final drive to each crawler.

TRAVEL: Two hydraulic motors within the carbody provide power for travel. Both motors are used for low speed to provide maximum power to the crawlers. Two speed travel is standard.

BRAKES: External contracting brakes are hydraulically operated by individual cylinders providing a quick, positive application for steering or digging. Individual control of each crawler provides maximum maneuverability.

CRAWLERS: Crawlers are of the proven Insley design with self-cleaning treads and tumblers, double flanged rollers with bronze bushings, split hub chain sprocket, involute splines on the tumbler shafts and enclosed lubricated

adjusting nuts. Crawler frames bolt to carbody axles. Crawler roller pins are heat-treated.

GRADABILITY: 40% gradability.

TRAVEL SPEED: .9 MPH and 1.8 MPH.



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TYPE H FULL HYDRAULIC - CRAWLER MOUNTED



BUCKETS—30", Backhoe Std., 18", 24 and 36" Optional.

- 48" and 60" Ditch Cleaning Buckets
- 60" Loader Bucket
- 48" Backfill Blade—Double Acting
- Ripper Tooth
- Clamshell Bucket—Hydraulic Rotor
- Pulpwood Grapple—Hydraulic Rotor

LEVEL FLOOR DIMENSIONS

Depth	Level Floor
3'	13'-4"
6'	12'-6"
9'	11'-0"
12'	10'-8"
15'	4'-10"

BACKHOE LIFTING CAPACITIES

(Over back of bucket)

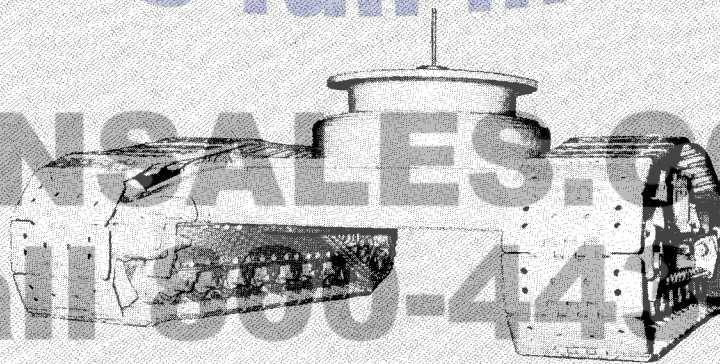
Radius	Over Side Lbs.	Over Either End Lbs.
10'	7500	7800
15'	5400	7000
20'	3450	4750
26'	2200	2900

75% of Tipping - Machine on Firm Level Ground

WORKING RANGE DIMENSIONS

F. Maximum Reach at Grade Level	25'-0"	I-1. Clearance of Bucket from Ground at Beginning of Dump	16'10"	K. Clearance from Ground at End of Dump (minimum radius of bucket teeth)	8'7"
G. Maximum Digging Depth	17'-0"	J. Minimum Clearance Radius of Bucket Teeth at End of Dump (arm vertical)	8'3"	K-1. Clearance from Ground at End of Dump	19'3"
H. Radius of Bucket Teeth at Beginning of Dump	11'3"	J-1. Clearance Radius of Bucket Teeth at End of Dump (arm raised)	19'2"	K-2. Maximum Clearance from Ground (at end of dump)	24'1"
I. Clearance of Bucket from Ground at Beginning of Dump (minimum radius of teeth)	11'2"			L. Overall Height at End of Dump	22'2"

HYDRAULICALLY POWERED CRAWLERS



- ⊗ 11'-3" Crawlers with 18" or 24" shoes
- ⊗ Two-speed Travel—.9 and 1.8 MPH

- ⊗ Fully Enclosed and Protected Drive Mechanism and Brakes. Cover Plates Standard

- ⊗ Rugged, Proven Insley Design

CRAWLER BRAKES—External contracting brakes operated hydraulically by individual cylinders.



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K-5088-C
K-5089-C

INSLEY EXCAVATOR - TYPE "K" - PARTS LIST

CRAWLER ASSEMBLY - R.H. - 11'-3" LONG
CRAWLER ASSEMBLY - L.H. - 11'-3" LONG

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Quan. Reqd.		Symbol	Name of Parts	Quan. Reqd.		Symbol	Name of Parts
R.H.	L.H.	No.		R.H.	L.H.	No.	
1		K-5088-C	CRAWLER ASSEMBLY - R.H. - 11'-3" LONG				
	1	K-5089-C	CRAWLER ASSEMBLY - L.H. - 11'-3" LONG				
1	1	K-4-A	Front Tumbler	1	1	K-3398	Front Shaft
1	1	K-14-A	Rear Tumbler	1	1	K-3399-B	Rear Shaft
1	1	K-15-A	Drive Sprocket	1	1	K-3400-A	Crawler Frame
38	38	K-16	15" Shoe	16	16	K-3802	Roller Bearings
38	38	K-17	Pin for 15" & 18" Shoes	3	3	K-5954	Bushing
				2	2	K-5955	Bushing
11	11	K-18	Roller	4	4	M-634	Spanner Nut
1	1	K-37	Key	4	4	M-635	Crawler Adjusting Bolt
8	8	K-66	Load Roller Shaft				
22	22	K-67	Bushing	4	4	M-637	Lockpin
8	8	K-68	Lockpin	32	32	H-24	Bolt with Nut and Lockwasher
38	38	K-95	18" Shoe				
38	38	K-96	24" Shoe	8	8	H-32	Bolt with Nut and Lockwasher
38	38	K-97	Pin for 24" Shoes				
6	6	K-972	"U" Bolt	38	38	H-35	Rivet for 24" Shoes
6	6	K-973	Bracket	19	19	H-1274	Grease Fitting
3	3	K-1011	Roller Shaft	4	4	H-1312	Cotter
6	6	K-1012	Washer	4	4	H-1360	Hex Nut
38	38	K-2684	30" Shoe	4	4	H-1361	Lockwasher
38	38	K-2686	48" Shoe	12	12	H-1390	Hex Nut
38	38	K-2687	Pin for 30" & 48" Shoes	12	12	H-1391	Lockwasher
				1	1	H-1441	Lockwasher
1	1	K-3390-A	Inner Guide Hub	4	4	H-3267	Cap Screw
1	2	K-3391-A	R.H. Outer Guide Hub	12	12	H-3623	Cap Screw
				38	38	H-3734	Rivet for 30" & 48" Shoes
2	1	K-3392-A	L.H. Outer Guide Hub	1	1	H-3809	Drive Chain
5	5	K-3393	Thrust Washer	1	1	H-3848	Cap Screw
4	4	K-3396	Spacer	1	1	H-3849	Hex Nut

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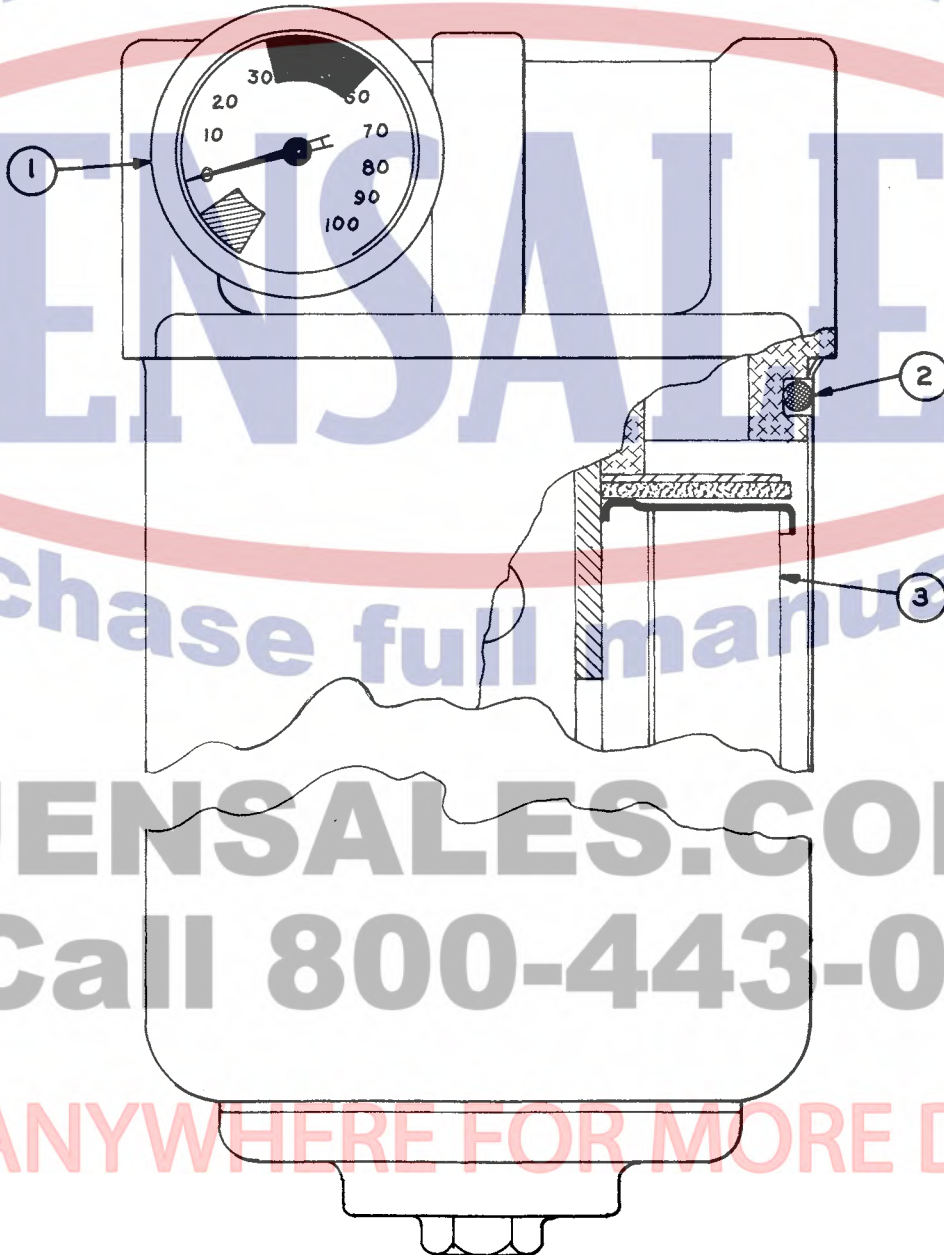
Quantity Listed Above is for One Left Hand & One Right Hand Assembly
One Assembly Each Required per Machine

INSLEY EXCAVATOR - TYPE K - PARTS LIST

OIL FILTER ASSEMBLY

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Symbol No.	Quan. Reqd.	Name of Part	Part No.
	1	OIL FILTER ASSEMBLY	K-6104
1	1	Gage	H-4719
2	1	"O" Ring	H-4717
3	1	Element	H-4718



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Quantity Listed Above is for One Assembly
One Assembly Required per Machine