Operator's Manual

Congratulations:

You have just purchased one of the most versatile machines on the market. With reasonable care and service it should give long and satisfactory service.

Any mechanical device can be potentially dangerous if not used properly. No accident prevention program can be successful without the wholehearted co-operation of the person who is directly responsible for the operation of the equipment. Study this operator's manual to learn the operation of the controls and observe all safety precautions. Only use this machine for the purpose it is intended. By following these instructions and safety precautions you should enjoy many hours of trouble-free operation.

SNAPPER TILLER

CHAIN DRIVE

MODEL NO. 300 – 500

SNAPPER TILLER GUARANTEE

All Snapper Tillers are guaranteed for normal use to the original purchaser against defective workmanship and material. This guarantee extends for one year from purchase date on tillers not used commercially, and for one month on tillers that are used commercially.

We will replace or repair without charge any part or parts returned to us during the guarantee period, with transportation charges prepaid, that our inspection shows to have been defective in workmanship or material when shipped from the factory.

This guarantee is void if the parts in question have been altered or damaged by accident, abuse, neglect, improper adjustment, lack of lubrication or normal wear. This guarantee does not cover engines, tires, tines and belts which are guaranteed separately by their manufacturers.

No other guarantee, expressed or implied, is made by the Company which retains the right to change specifications without notice or obligation.

IMPORTANT: This guarantee is void unless the guarantee card attached is filled out completely and mailed to the Factory within 10 days of the date tiller was purchased.

IT IS THE POLICY OF McDONOUGH POWER EQUIPMENT, INC. TO IMPROVE ITS PRODUCTS WHENEVER IT IS POSSIBLE AND PRACTICAL TO DO SO. WE RESERVE THE RIGHT TO MAKE CHANGES OR ADD IMPROVEMENTS AT ANY TIME WITHOUT INCURRING ANY OBLIGATION TO MAKE SUCH CHANGES ON PRODUCTS MANUFACTURED PREVIOUSLY.

McDONOUGH POWER EQUIPMENT, INC.

McDONOUGH, GA., U. S. A., 30253

MANUAL NO 1-1735
DATE PRINTED 3-70

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ASSEMBLY, OPERATION AND SERVICE INSTRUCTIONS FOR SNAPPER TILLER

MODELS 300 AND 500

1. ASSEMBLY

A. Install tines on tiller using 1-1713 pins and 1-1714 hair pins.

B. Install left and right hand handle assembly using two 5/16-24 x 3-3/4 hex head cap screws and two 5/16-24 lock nuts. (Note: Do not tighten nuts until all items are in place on handle.

C. Install cross brace using four 1/4/ x 28 x 1-1/2 curved head bolts, four 1/4/-28 hex nuts and four internal tooth lock washers.

D. Connect tie bars to transmission case using one 5/16-24x1 hex head cap screw and 5/16-24 lock nut. Connect one tie bar to left hand handle using one 1/4-28 x 1-1/2 curved head bolt, one 1/4 internal tooth lock washer and one 1/4-28 hex nut. Connect other tie bar to right hand handle using one 1/4-28 x 1-3/4 curved head bolt, one 1/4 internal tooth lock washer and 1/4-28 hex head fastening cable guide with this bolt as shown on illustration.

E. Connect throttle control on left hand handle using one 1/4-28 x 1-3/4 curved head bolt, one 1/4 internal tooth lock washer, one 1/4-28 hex nut and two throttle clips.

F. Connect one end of clutch cable to idler link, passing other end through cable guide. Fasten one end of chain to cable, then fasten one end of clutch spring to cable and place other end in hole on clutch lever structure.

G. Tighten all nuts on handle assembly.

H. Fill engine with oil before cranking.

2. OPERATING TIPS

The first time a person uses a tiller he will most likely experience a jerking sensation or an uneven operation of the machine. A little experience will help the operator to overcome this. Here are a few tips on the proper use of the Snapper Tiller.

A. Before starting engine, stand tiller in operating position on firm ground.

B. Depress release on skid arm and raise skid bar arm to highest position.

C. The operator should then stand behind the tiller with his arms hanging down in natural position. If the handle grips are higher than his hands he should raise the wheels, if lower than hands he should lower wheels until handle grips are even with hands.

D. Push release pin to let skid arm hit ground, then raise handle bars until skid arm latches. The primary function of the skid arm is to provide resistance to forward motion. Raising skid arm reduces resistance, lowering it increases resistance. The skid arm should be adjusted for particular soil conditions, and speed of forward motion.

E. When tilling on slopes or hills always till with the front of tiller at a slight angle towards the crest of hill to counteract the tendency to run down hill.

F. After the operator becomes accustomed to the controls, he should relax his grip on handles and let the machine do the work for him.

G. If the tiller starts to dig in too deep, raise up on handles and lean machine to one side, this will make the machine go forward.

3. STARTING OPERATIONS

A. Stand on right hand side of tiller with feet well back from tines, place one hand on handle and pull starter rope with other hand, choking as necessary.

B. Push down on handle bars and push tiller to place you are going to cut. Take firm grip on left hand handle and engage clutch structure with right hand, the tiller then will proceed to go forward. The speed of the tines is controlled by the engine speed.

4. LUBRICATION

A. Engine

Service and lubricate engine per instructions in Engine Manual.

B. Transmission

Transmission is lubricated by removing plastic plug and 9-0465 check plug on right hand side of case. Fill transmission with Snapper "00" Grease, Part No. 1-1050, until grease level reaches check plug hole. Replace plastic plug and check plug.

NOTE: Do not overfill.

Check grease level with machine in level position. Check every 10 hours of operation.

5. ADJUSTMENTS

A. Belt

The belt may shrink or stretch under certain conditions. If clutch adjustment will not take care of this, loosen the engine bolts and slide engine forward to tighten belt and backwards to loosen belt.

B. Clutch

To adjust clutch, stop engine, loosen the 3/8 nuts on each side of the idler link, pull up on idler pulley to take some of the slack out of the belt. Push down on idler link to take slack out of cable, tighten 3/8 nuts. To check adjustment start engine. Hold rotors off the ground. If tines turn without the clutch lever engaged, the adjustment is too tight. Loosen nuts and re-adjust. If the clutch spring does not stretch when clutch is engaged, the adjustment is too loose. Loosen nuts and re-adjust.

SAFETY PRECAUTIONS

Remember, a careful operator always is the best insurance against an accident.

Study your operator's manual, become familiar with the controls and how the Tiller works. Learn to stop the Tiller Quickly.

Disengage belt before cranking engine.

Keep feet away from Tines when cranking engine.

Do not crank or operate engine where exhaust fumes can collect.

Fill gas tank outdoors, but never while engine is running or while the engine is hot. Avoid spilling. Always use an approved gasoline can.

Give complete and undivided attention to the job at hand.

Never adjust clutch while engine is running.

Keep hands and feet away from rotating Tines.

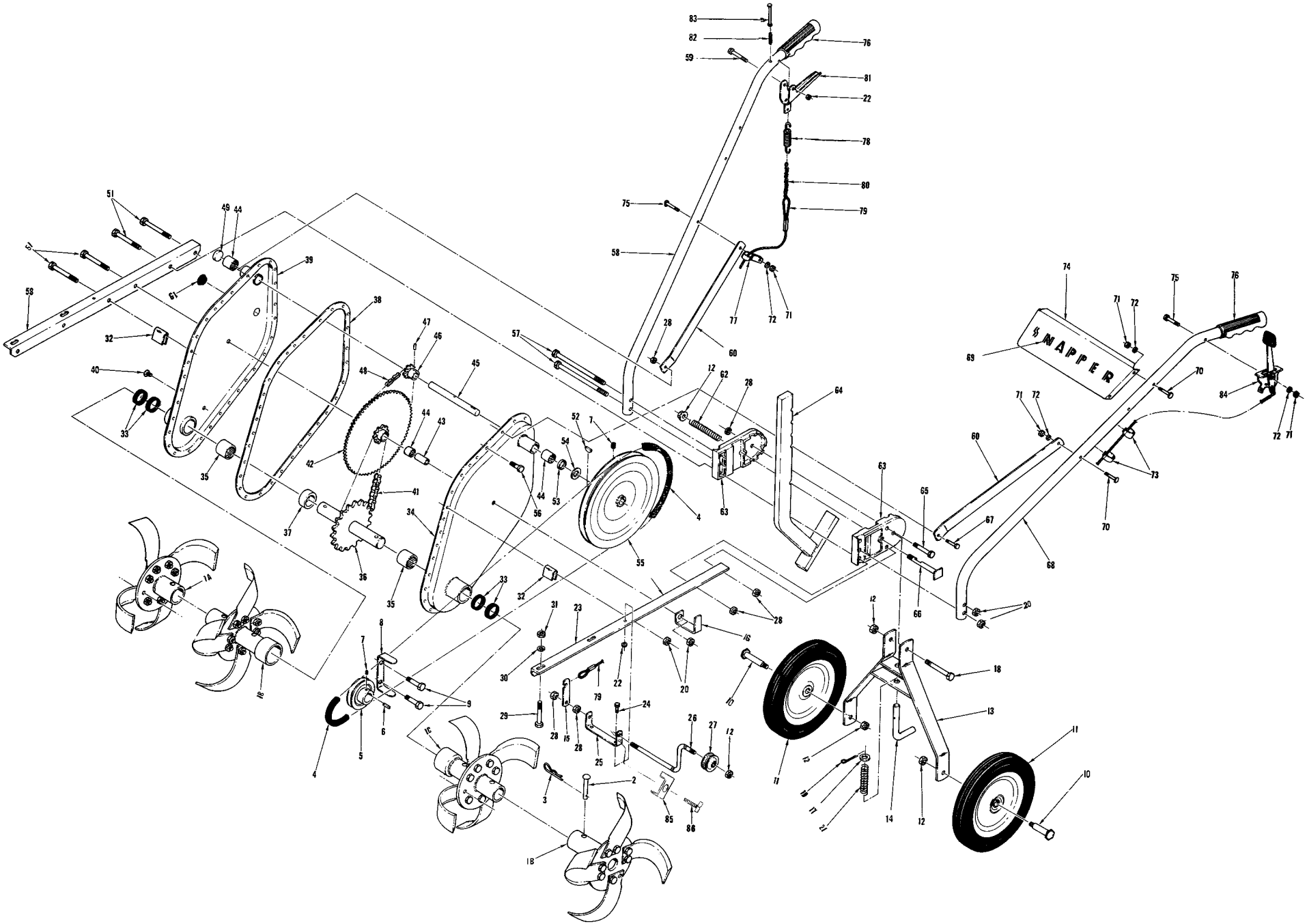
Use caution when operating Tiller on uneven terrain. Maintain good footing.

Always stop engine before cleaning Tines.

Stop engine when you leave Tiller even for a moment.

Transmission, Handles, Transport Wheel Assembly

Item	Part No.	Description	Qty.
1	5-0329	Tines Set (See Next Page)	1
2	1-1713	Pin	4
3	1-1714	Hair Pin	4
4	1-1712	L-452 Belt	1
5	1-1710	Engine Pulley	1
6	1-0061	3/16 x 3/16 x 1 Key	1
7	9-0201	5/16 Hex Head Set Screw	2
8	3-1163	Belt Guard	1
9	9-0227	5/16-24 x 5/8 Hex Head Cap Screw	2
10	1-1720	Shoulder Bolt	2
11	1-1718	10" x 1:75 Wheel	2
12	9-0289	3/8-24 Hex Lock Nut	5
13	4-0367	Wheel Arm Str.	1
14	2-1184	Lock Pin	1
15	3-1168	Idler Link	1
16	3-1288	Belt Guide	1
17	9-0250	1/2 SAE Washer	1
18	9-0171	3/8-24 x 2-3/4 Hex Hd. Cap Screw	1
19	9-0042	1/8 x 1-1/4 Cotter Pin	1
20	1-1201	5/16-24 Lock Nut, Grade C	8
21	1-1190	Lock Spring	1
22	9-0303	1/4-28 Lock Nut	3
23	3-7323	Rail, L. H.	1
24	9-0102	1/4-28 x 3/4 Hex Hd. Cap Screw	2
25	3-1167	Idler Bracket	1
26	2-1186	Idler Arm	1
27	1-0948	Idler Pulley	1
28	9-0155	3/8-24 Hex Nut	2
29	9-0242	5/16-24 x 1-1/2 Hex Hd. Cap Screw	4
30	9-0187	5/16 Lock Washer	4
31	9-0223	5/16-24 Hex Nut	4
32	1-1191	"U" Spacer	2
33	1-1175	Rotor Shaft Seal	4
34	4-7338	L. H. Case Str.	1
35	1-1176	Rotor Shaft Bearing	2
36	4-0364	Rotor Shaft Str.	1
37	1-1181	Rotor Shaft Spacer	1
38	1-8071	Gasket	1
39	4-7337	R. H. Case Str.	1
40	9-0465	Drain Plug	1
41	1-1182	Final Drive Chain	1
42	4-0365	Intermediate Sprocket	1
43	2-1180	Bearing Race	1
44	1-1178	Bearing	4
45	2-1183	Drive Shaft	1
46	2-1182	Sprocket, 13 tooth, No. 35	1
47	1-1703	Roll Pin	1
48	1-1183	Primary Drive Chain	1
49	1-1177	Drive Plug	1
50	3-7324	R. H. Rail	1
51	9-0464	5/16-24 x 2-3/4 H. H. C. S. G5	3
52	1-0211	No. 9 Woodruff Key	1
53	1-1179	Drive Shaft Seal	1
54	9-0183	5/8 SAE Washer	1
55	1-1194	8" Pulley	1
56	9-0361	5/16 x 5/8" ST.	27
57	9-0454	5/16-24 x 3-3/4 Hex Hd. Cap Screw	2
58	5-7071	R. H. Handle Assembly	1
		Spring (not sold separate)	1
		Pin (not sold separate)	1
59	9-0110	1/4-28 x 1-1/2 Hex Hd. Cap Screw	1
60	3-7318	Tie Bar	2
61	1-1024	Cap Plug	1
62	1-1193	Spring	1
63	1-1192	Hitch	2
64	4-7339	Skid Arm Str.	1
65	9-0245	5/16-24 x 2 Hex Head Cap Screw	1
66	4-0372	Release Str.	1
67	9-0237	5/16-24x1 Hex Head Cap Screw	1
68	5-7070	L. H. Handle Assembly	1
69	1-8072	Decal	1
70	1-1028	1/4-28 x 1-1/2 Curved Head Bolt	5
71	9-0095	1/4-28 Hex Nut	7
72	9-0053	1/4 Int. T. Lock Washer	7
73	1-1709	Throttle Clip	2
74	3-7321	Cross Brace	1
75	9-0463	1/4-28 x 1-3/4 Curved Hd. Bolt	2
76	1-0841	Handle Grip	2
77	1-1708	Cable Guide	1
78	1-1706	Clutch Spring	1
	5-0334	Clutch Cable Ass'y.	1
79	1-1702	Clutch Cable	1
80	1-1707	Clutch Lever Chain	1
83		Pin (not sold separate)	1
84	1-8073	Throttle Control 3 H.P.	1
84	1-8067	Throttle Control 5 H.P.	1
85	1 1739	Cable Clip 5 H.P.	1
86	9-0474	8-32 S. T. Screw	1

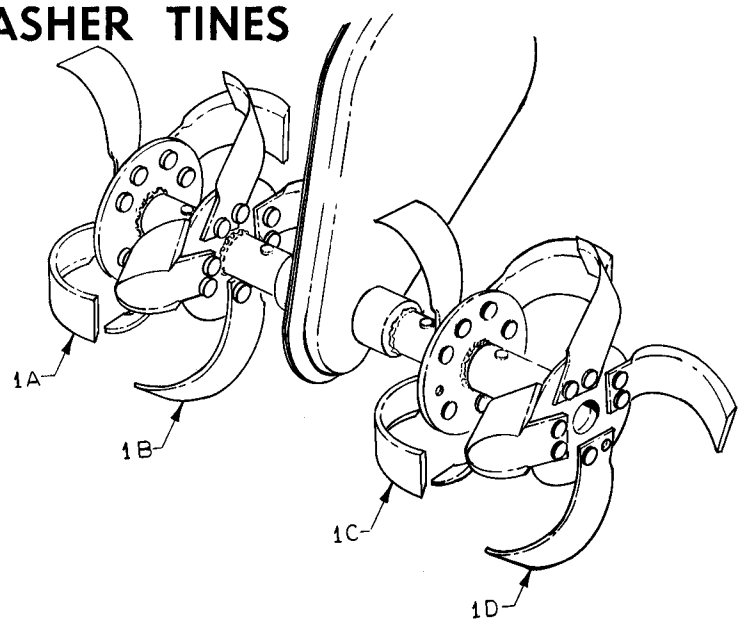

SNAPPER

TIPS ON CHOOSING THE RIGHT TINES

EACH SET OF TINES ARE FULLY INTERCHANGEABLE. TO CHANGE TINES, REMOVE 1-1714 HAIR PINS AND 1-1713 PINS. TAKE ONE SET OFF, PUT OTHER SET ON AND REPLACE THE PINS.

SLASHER TINES

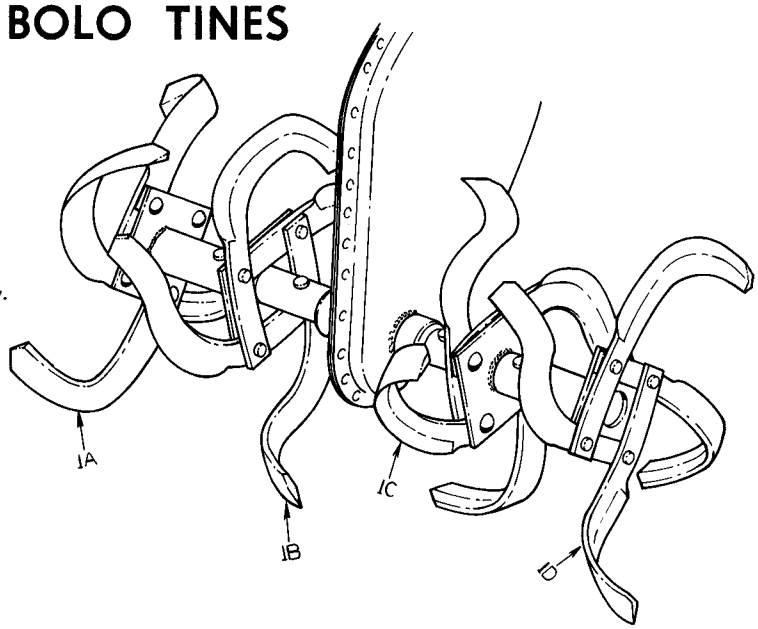
Item	Part No.	Description	Qty.
1	5-0329	Complete Set	1
1a	5-0338	R. H. Outside Ass'y.	1
1b	5-0336	R. H. Inside Ass'y.	1
1c	5-0335	L. H. Inside Ass'y.	1
1d	5-0337	L. H. Outside Ass'y.	1



THE SLASHER TINE WAS DESIGNED TO MINIMIZE THE WRAPPING OF WEEDS. IT HAS A TILLING WIDTH OF 26 INCHES. THIS TINE IS RECOMMENDED FOR USE IN NEW GROUND AND SOD BUSTING WHERE THERE IS A HEAVY GROWTH OF VINES AND GRASS.

BOLO TINES

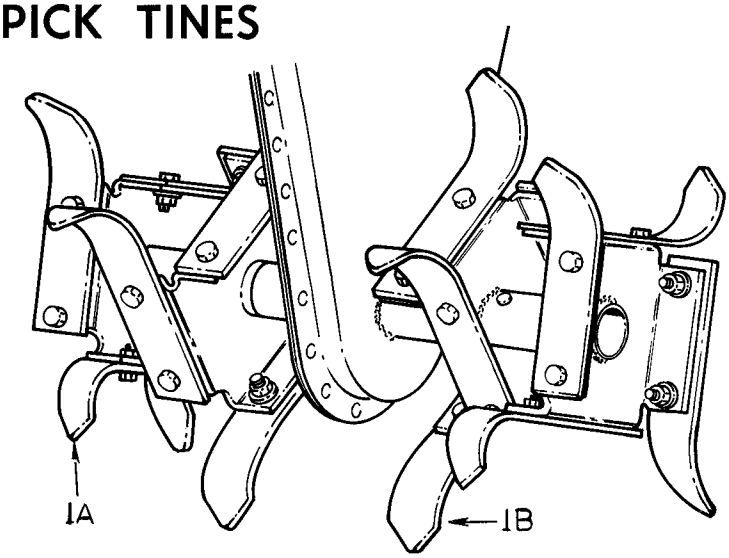
Item	Part No.	Description	Qty.
1	5-0328	Complete Set	1
1a	5-0334	R. H. Outside Ass'y.	1
1b	5-0332	R. H. Inside Ass'y.	1
1c	5-0331	L. H. Inside Ass'y.	1
1d	5-0333	L. H. Outside Assy'y.	1



THE TINE BLADES ARE MADE FROM HEAT TREATED FORGED STEEL AND ARE SELF SHARPENING. IT HAS A TILLING WIDTH OF 26 INCHES. THESE TINES ARE RECOMMENDED FOR NORMAL CULTIVATION AND MULCHING JOBS.

PICK TINES

Item	Part No.	Description	Qty.
1	5-0330	Complete Set	1
1a	5-7073	R. H. Ass'y.	1
1b	5-7072	L. H. Ass'y.	1



THIS SET OF TINES IS RECOMMENDED FOR USE IN THE TOUGHEST SOILS, SUCH AS ROCKY GROUND AND HARD CLAY. THE PICK TINE WILL WORK WHEN OTHERS WILL NOT. IT HAS 16 RUGGED PICK POINTS FOR BETTER PENETRATION AND A TILLING WIDTH OF 16 INCHES.