

Simplicity

REG. U.S. PAT. OFF.

32" ROTARY TILLER

Article No. 990225 H

Attach to VC + VB ~~only~~

will not attach to W

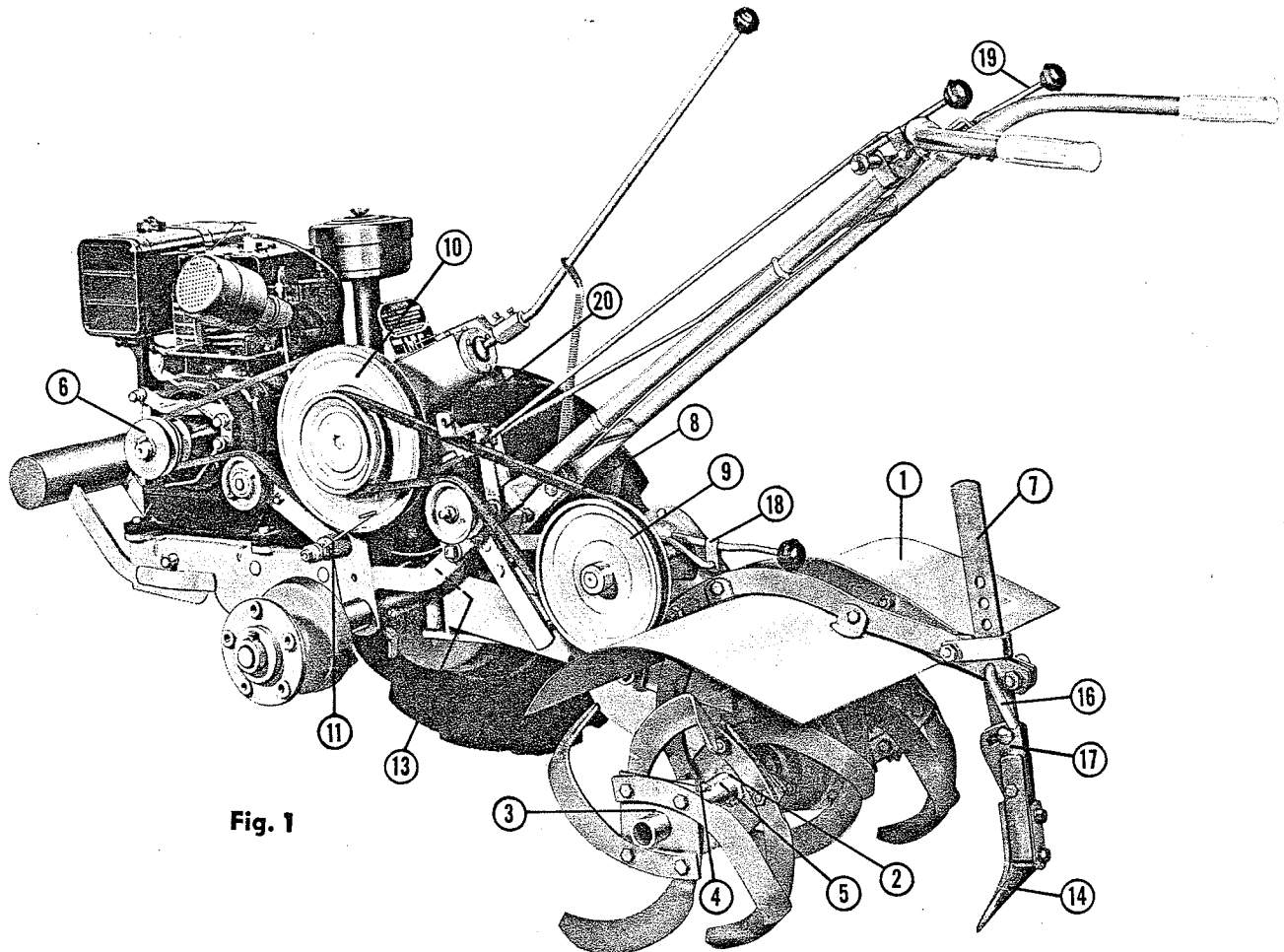


Fig. 1

PACKING LIST

The 32" heavy duty tiller attachment is shipped complete in two cartons. Before starting assembly remove all parts from both cartons.

IMPORTANT: Read the instructions carefully. A thorough understanding of the instructions simplifies proper assembly.

ASSEMBLING THE TILLER

1. Attach deflector assembly (1) to the beam with four screws, lock washers and nuts as shown.

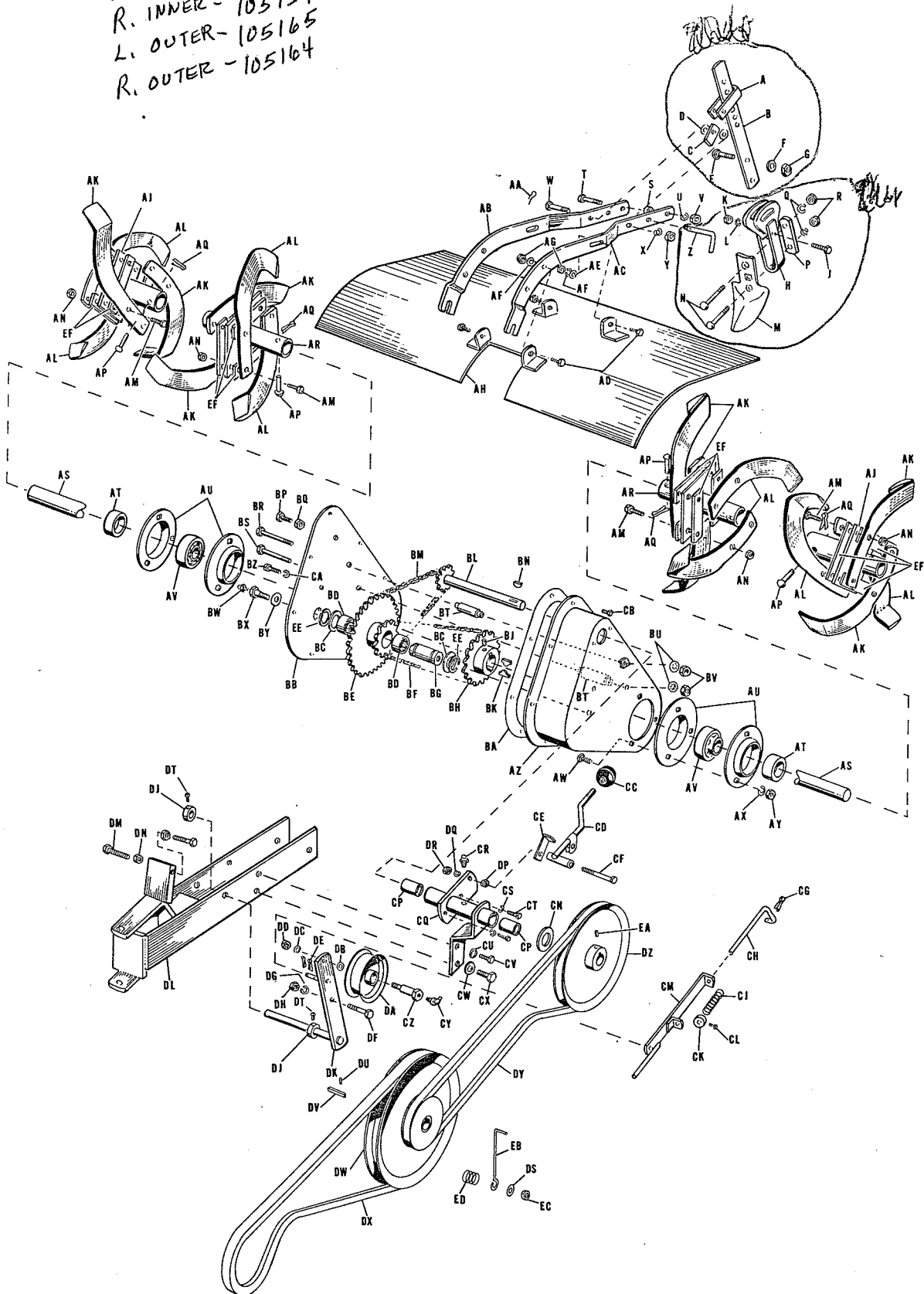
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2. Each set of tines is assembled to its plate ready for quick installation. Please refer to Fig. 1 for mounting tines to tiller. Assemble left inner tine assembly (2) to left outer tine assembly (3) and fasten with pin (4) and cotter pin. Inner tine assemblies are installed to the tiller tine shaft with long end of pipe (5) to the outside. **NOTE:** When mounting tines, check to be sure the sharp edges of the blades will enter the ground first. Tops of the tines revolve towards the front. Install the tine assemblies to the stub shaft on the left side of the transmission case and fasten with pin and cotter pin.

Simplicity Manufacturing Company

PORT WASHINGTON, WISCONSIN

TINE ASSY

L. INNER - 105163
 R. INNER - 105159
 L. OUTER - 105165
 R. OUTER - 105164



Comp/ Trans - #72.75

32" ROTARY TILLER

Order by Part Number

Ref. Let.	Part No.	Description
A	105091	Guide
B	105092	Bar, Depth
C	105090	Lug, Stop
D	719003	Washer, Plain, 7/16"
E	703002	Bolt, Carriage, 3/8"-16 x 1 1/4" lg., w/short square neck
F	719001	Washer, Plain, 3/8"
G	717003	Nut, Hex, Full, 3/8"-16
H	105107	Holder Assembly, Tool
J	715009	Capscrew, Hex, 3/8"-16 x 1 1/2" lg.
K	717003	Nut, Hex, Full, 3/8"-16
L	720002	Washer, Lock, 3/8"
M	105093	Shoe, Depth
N	704003	Bolt, Plow, 3/8"-16 x 2 1/4" lg.
P	105110	Strap, Shoe
Q	720006	Washer, Lock, 7/16"
R	717022	Nut, Hex, Full, 7/16"
S	105006	Spacer
T	705035	Capscrew, Hex, 1/2"-13 x 2" lg.
U	720004	Washer, Lock, 1/2"
V	717006	Nut, Hex, Full, 1/2"-13
W	705027	Capscrew, Hex, 1/2"-13 x 2 1/4" lg.
X	720004	Washer, Lock, 1/2"
Y	717006	Nut, Hex, Full, 1/2"-13
Z	105004	Pin
AA	S1-A45A	Clip, Spring <i>8161045</i>
AB	105095	Beam, Depth Gage, R.H.
AC	105094	Beam, Depth Gage, L.H.
AD	705005	Capscrew, Hex, 3/8"-16 x 1" lg.
AE	719001	Washer, Plain, 3/8"
AF	720002	Washer, Lock, 3/8"
AG	717003	Nut, Hex, Full, 3/8"-16
AH	105226	Deflector Assembly
AJ	118046	Plate Assembly, Tine, Outer <i>105245</i>
AK	R-B2	Blade, R.H. Tine <i>8152002</i>
AL	R-B1	Blade, L.H. Tine <i>8152001</i>
AM	706014	Capscrew, Hex, 7/16"-20 x 1 3/4" lg
AN	717512	Nut, Hex, Full Lock, 7/16"-20 Gripco
AP	118053	Pin, Tine, Shaft <i>105249</i>
AQ	722009	Pin, Cotter, 1/8" x 3/4" lg.
AR	105160	Plate Assembly, Tine, Inner <i>105248</i>
AS	105084	Shaft, Tine
AT	R-A73	Collar, Bearing, Fafnir #S-1102 <i>8151073</i>
AU	R-A72	Flange, Bearing, Fafnir #62MS - <i>8151072</i>
AV	R-A71	Bearing, Fafnir #RA102PPB - <i>8151071</i>
AW	702003	Bolt, Carriage, 3/8"-16 x 3/4" lg.
AX	720002	Washer, Lock, 3/8"
AY	717003	Nut, Hex, Full, 3/8"-16
AZ	105086	Guard Assembly, Chain
BA	105016	Gasket
BB	105078	Plate Assembly, Side
BC	SSC-A14	Washer <i>8281014</i>
BD	105195	Bearing, Roller
BE	105193	Sprocket Assembly
BF	R-A15	Chain, Rotor <i>8151015</i>
BG	105192	Spacer, Intermediate
BH	R-A22	Sprocket, Driven - <i>8151022</i>
BJ	713503	Set Screw, Socket Hd, 5/16"-18 x 5/16"
BK	725503	Key, "Hi-Pro" #HP-708
BL	105080	Shaft Assembly, Drive
BM	105055	Chain, Drive/individual Link Pt #50
BN	725003	Key, Woodruff #9, 3/16" x 3/4"
BP	715013	Set Screw, Sq. Hd, 3/8"-24 x 3/4" lg.
BQ	717014	Nut, Hex Jam, 3/8"-24
BR	705033	Capscrew, Hex, 7/16"-14 x 1 1/2" lg.

Ref. Let.	Part No.	Description
BS	705034	Capscrew, Hex, 7/16"-14 x 3 3/4" lg.
BT	105085	Spacer, Guard
BU	721504	Washer, Lock, 7/16" Int. Shakeproof
BV	717022	Nut, Hex, Full, 7/16"-14
BW	727002	Grease Fitting, Alemite #1641
BX	105054	Bolt
BY	719003	Washer, Plain, 7/16"
BZ	705004	Capscrew, Hex, 3/8"-16 x 3/4" lg.
CA	720002	Washer, Lock, 3/8"
CB	708004	Screw, 1/4"-20 x 3/8" Hex Hd., Sems w/External Lockwasher
CC	D-A50	Ball, Clutch Lever - <i>8021050</i>
CD	D-AX7	Clutch Lever Assembly, R.H. - <i>8021507</i>
CE	D-A121	Stop, Lever - <i>8021121</i>
CF	705036	Capscrew, Hex, 5/16"-18 x 2 1/2"
CG	722001	Pin, Cotter, 3/32" x 3/4" lg.
CH	R-A50	Rod, Idler Clutch - <i>8151050</i>
CJ	S2-A45	Spring - <i>8191045</i>
CK	S2-A22A	Collar, Set - <i>8191022</i>
CL	713001	Set Screw, Sq.Hd, 1/4"-20 x 3/8"
CM	105118	Guide Assembly, Rod
CN	PW-A3	Washer <i>8141003</i>
CP	S2-A44B	Bushing - <i>8191044</i>
CQ	105074	Support Assembly, Housing
CR	727001	Grease Fitting, Alemite #1792
CS	720001	Washer, Lock, 5/16"
CT	705017	Capscrew, Hex, 5/16"-18 x 3/4"
CU	721503	Washer, Lock, 3/8" Int. Shakeproof
CV	705031	Capscrew, Hex, 3/8"-16 x 7/8" lg.
CW	719003	Washer, Plain, 7/16"
CX	706012	Capscrew, Hex, 1/2"-20 x 1 3/4"
CY	727004	Grease Fitting, Alemite #1911-90°
CZ	F-A37	Pin, Idler Pulley - <i>8151037</i>
DA	F-AX5	Pulley Assembly, Idler - <i>8151505</i>
DB	153072	Washer
DC	721506	Washer, Lock, 1/2" Int. Shakeproof
DD	717016	Nut, Hex Jam, 1/2"-20
DE	722006	Pin, Cotter, 1/8" x 1" lg.
DF	705009	Capscrew, Hex, 3/8"-16 x 1 1/2"
DG	720002	Washer, Lock, 3/8"
DH	717003	Nut, Hex, Full, 3/8"-16
DJ	DE-A7	Set Collar - <i>8031007</i>
DK	105099	Lever Assembly, Idler
DL	105069	Frame Assembly
DM	706003	Capscrew, Hex, 7/16"-20 x 1 1/2"
DN	717009	Nut, Hex, Full, 7/16"-20
DP	717011	Nut, Hex, Jam, 5/16"-18
DQ	720001	Washer, Lock, 5/16"
DR	717001	Nut, Hex, Full, 5/16"-18
DS	719001	Washer, Plain, 3/8"
DT	713002	Set Screw, Sq.Hd., 5/16"-18 x 3/8"
DU	713503	Set Screw, Socket Hd., 5/16"-18 x 5/16" lg.
DV	G-A104	Key - <i>8061104</i>
DW	R-CX5	Sheave Assembly, Transmission <i>8153505</i>
DX	105067	Belt, "V", (Engine) <i>51"</i>
DY	105066	Belt, "V", (Tiller) <i>58"</i>
DZ	R-A20	Sheave <i>8151020</i>
EA	713503	Set Screw, Socket Hd, 5/16"-18 x 5/16" lg.
EB	S1-A158	Stop, Belt - <i>8161158</i>
EC	717510	Nut, Lock, Full Hex, 3/8"-16
ED	S2-A47	Spring <i>8191047</i>
EE	105194	Ring, Retaining
EF	105162	Spacer

3. Install the right inner and outer tine assemblies in same manner on the right side of the transmission case.

4. Install depth bar (7) as shown.

5. Place belt (8) into groove of pulley (9) and install pulley on tiller drive shaft, with hub of pulley toward the outside. Tighten pulley set screw securely.

6. Remove tractor transmission pulley and replace with two step pulley (10), large groove toward tractor transmission.

7. Install belt stop (11) and spring with nut and position as shown. This permits proper idling.

8. Remove tractor engine pulley (6) and replace on shaft with SMALLEST groove to the inside near the engine.

9. Place shorter of the two belts furnished, over small or inside groove of engine pulley, over idler pulley, and over larger step of transmission pulley. Be sure engine and transmission pulleys are in alignment before tightening set screw.



MOUNTING INSTRUCTIONS AND ADJUSTMENTS

1. The tiller can now be mounted to the tractor. Turn the spread bolts (13) in so that their span is less than the width of the tiller frame.

2. Pull the tractor backwards toward the tiller and at the same time step firmly on depth shoe (14) to raise the tiller hitch. When tiller hitch is over draw bar socket, insert draw bar pin all the way through.

3. Place longer of the two belts (which is already over pulley 9) over idler pulley and smaller step of tractor transmission pulley.

4. Adjust and tighten spread bolts (13) so that pulley (9) is in alignment with small groove of pulley (10).

5. For deeper penetration, set depth bar so that pin (16) will go through one of the upper holes in the bar. For transport, raise the depth bar so that it clears the ground. See Photo.

6. An adjustment for pitch is provided in the tool holder (17). As there are many different types of soils, no one setting will apply to all. We suggest you experiment with this adjustment, and make the setting which provides maximum holdback in your particular type of soil for the desired tilling depth.

7. Adjustment of belt tension on belt (8) is provided with a spring on the tiller clutch lever (18). To avoid damaging belt, use minimum amount of tension required to drive the tiller.

8. Before starting the engine, shift tractor to "Neutral", and release tractor clutch (19) and tiller clutch (18).

9. Engage tiller clutch (18) and shift tractor to "Low" speed, then engage tractor clutch.

10. Idler arm (20) may ride either above or between the belt. In no case should it touch the belt.

COUNTERWEIGHT

It is recommended that a counterweight, article No. 990044, be mounted on the front of the tractor when tiller is being used. This improves balance and makes it easier to turn at the ends of the row.

LUBRICATION

There are three grease fittings on the tiller attachment — one on the idler pulley, one on the tiller pulley shaft support, and one on the right side of the tiller transmission case. Grease all three fittings twice a day if the tiller is in day long operation, or if used periodically, grease them each time tiller is used.

EXTRA EXTENSION TINES

Article #990212

Extension Tines, article #990212, are available to increase the tilling width to 42". Order by article number.