

# Simplicity

REG U.S. PAT. OFF.

## INSTRUCTIONS AND PARTS LIST

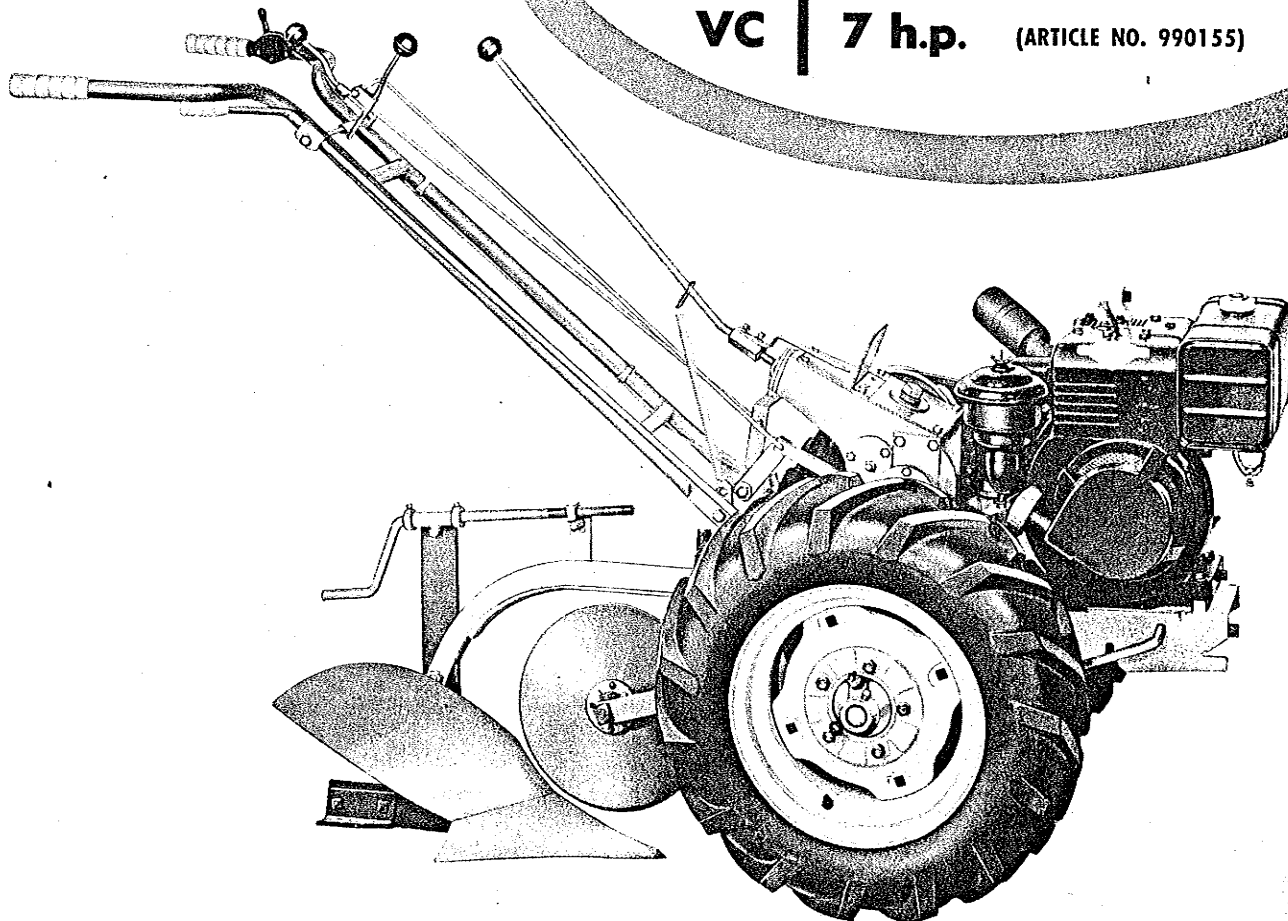
LC Decals

1- 153150 "LC"

2- 153099 "Simplicity"

## MODELS

LC	3 h.p.	(ARTICLE NO. 990149)
H	5 $\frac{3}{4}$ h.p.	(ARTICLE NO. 990148)
VC	7 h.p.	(ARTICLE NO. 990155)

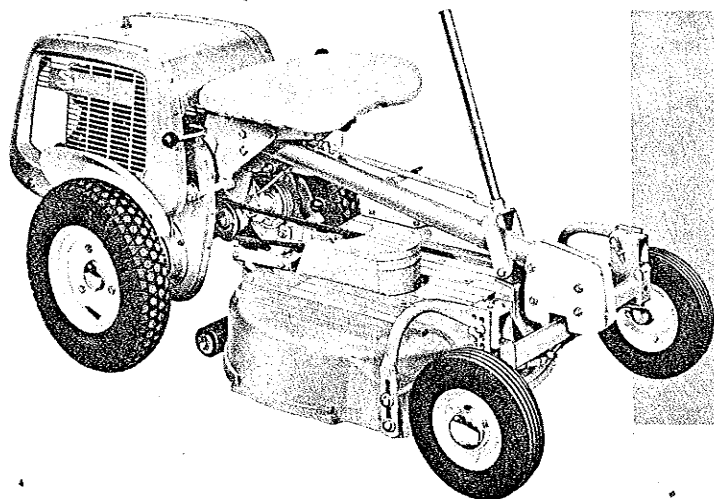
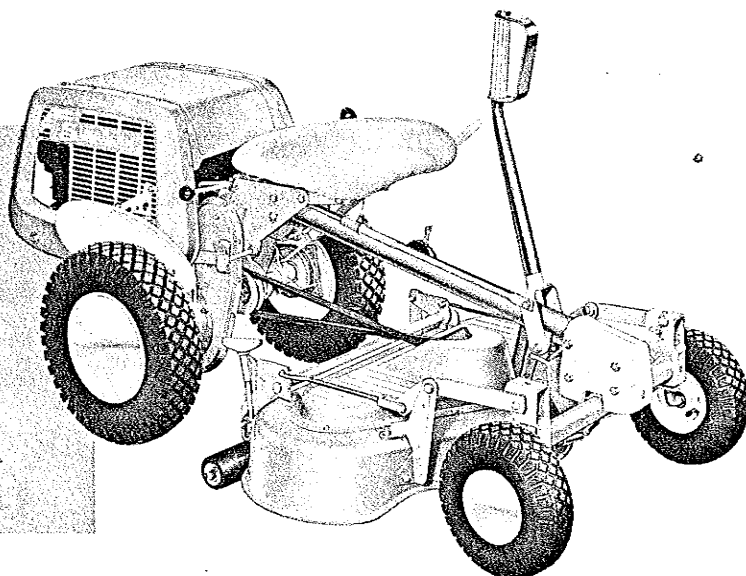


**You are now the owner . . .**  
**of one of America's finest tractors**

manufactured by Simplicity, the leader in the field of small horse-power garden tractors and equipment. The following pages give you full information on assembly and parts so you'll get to know your Simplicity tractor better.

**WONDER-BOY — Model 575 . . .**

The first riding mower with patented full flex action — 5 $\frac{1}{4}$  hp engine and a 32" rotary mower in action can mow up to 1 $\frac{1}{2}$  acres per hour. Ideal for large estates, institutions and suburban use. Many versatile accessories available. See it at your dealer.

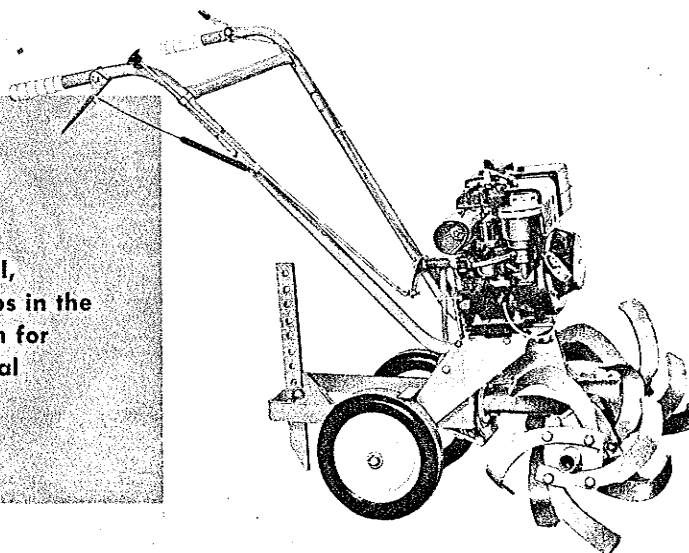


**WONDER-BOY — Model 450 . . .**

Like the Wonder-Boy above, this Simplicity riding mower has an action that prevents "scalping", follows ground contours. Powered by a 4 $\frac{1}{2}$  hp engine, this Wonder-Boy can handle many a lawn and garden job, easily and quickly. An ideal supplement for your tractor. See it at your dealer.

**ROTICUL . . .**

The first rotary tiller-cultivator with full power reverse . . . This easy to handle Simplicity Roticul, powered with 3 hp engine can handle scores of jobs in the field or around the bush. Ideal for soil preparation for green house or truck farm and especially economical for minimum job work. See it at your dealer.



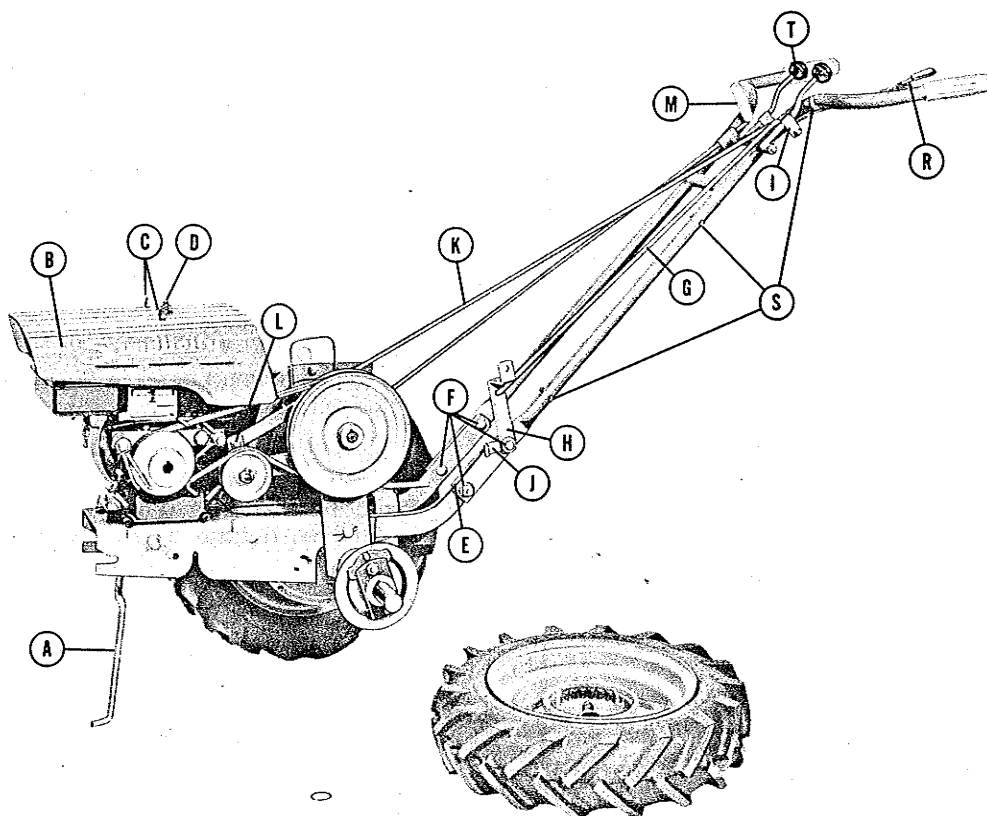


Fig. 1

## MODEL LC 3 H.P. TRACTOR

### PACKING LIST

The complete tractor is shipped in two cartons. One contains the frame, wheels, engine and gear case assemblies, and the other contains the handles, clutch rods and levers.

The kick stand (A) enables the tractor to be kept level when implements are not attached. The protective hood (B) is hinged at the front. To lift, push the two latches (C) slightly and lift hood. To turn off the engine, press shut-off button (D) until engine stops.

The hood may be removed at any time should you desire. To remove hood, pull out wire and hinge will separate.

The engine is shut off when hood is removed by flipping the safety stop switch against the spark plug. The safety stop switch will remain against the spark plug until removed. **Be sure to lift it off before trying to start engine.**

### INSTRUCTIONS FOR ASSEMBLING

Before bolting handles to frame, insert throttle cable through cable housing clamp (E) as shown.

1. Bolt handles to the outside of tractor frame as shown. Handle bolts (F) are shipped inserted in the frame. NOTE: When bolting handles to the frame, be sure that the bushing, washers, clutch lever and lever stop are re-assembled in the same sequence as packed. To provide clearance for attachments, it is recommended that upper left handle bolt be installed head to outside as shown. Install the other three with heads to inside.
2. Attach clutch rod (G) to lower clutch lever (H) and to upper clutch lever (I) as shown.

3. Lower clutch lever (H) should rest on lever stop (J) when upper clutch lever (I) is forward.
4. Attach clutch rod (K) to idler arm as shown at (L). Figure 2 illustrates this assembly in detail.
5. Attach reverse rod (M, Fig. 2) to bearing housing (N, Fig. 2) as shown.
6. Please refer to Figure 1. Attach throttle control lever (R) to the left hand handle with the throttle cable strung under the handle.
7. Clamp throttle cable to the handle with three clamps (S) as shown. NOTE: Screws and clamps for cable and throttle lever are packed in mailing bag tied to cable.

### OPERATION

#### Before Starting Engine, Be Sure Safety Stop Switch Is Lifted Off Of Spark Plug.

To shift from forward to reverse, release clutch by pushing forward on right hand clutch lever (T). Pulling back on handle on reverse rod (M) will enmesh the reverse gear. Pull back on right hand clutch lever (T) to engage clutch. To go forward, release clutch, push forward on rod (M), then engage clutch. **Be sure to release clutch before changing gears.** Failure to do so will cause a sudden start which puts extreme strain on gears.

#### TWO FORWARD SPEEDS — See Fig. 2 and Fig. 3

The Model LC tractor has two forward speeds. Engine pulley position for these speeds are illustrated in Figures 2 and 3. Figure 2 illustrates the High Speed, recommended for all attachments except tiller. Notice in Figure 2 that the lock bar pin (U) is located in second hole from rear of lock bar (V). When changing to low speed, please refer to Figure 3. Remove Belt. Loosen engine pulley set screw (W), remove engine pulley,

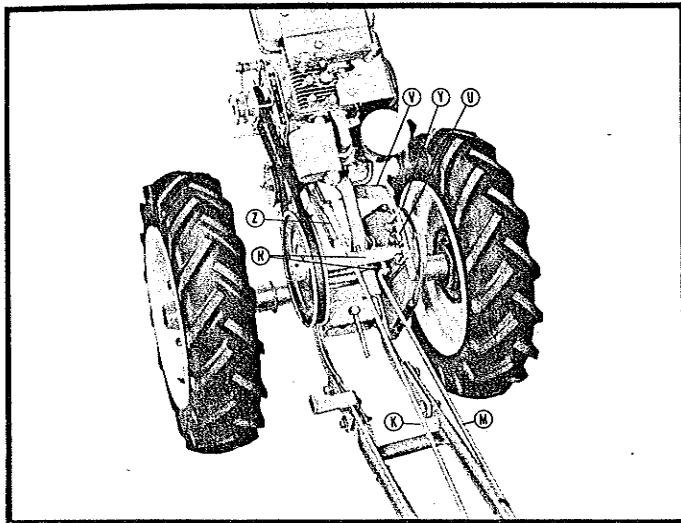


Fig. 2

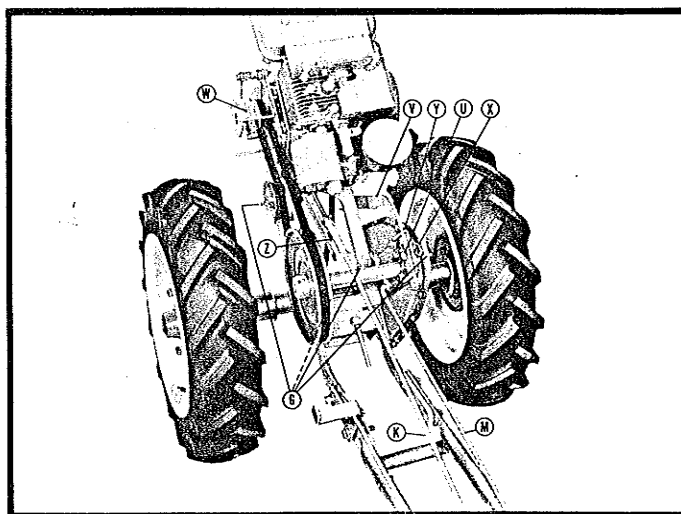


Fig. 3

turn it around and replace with large pulley to outside as shown in Figure 3.

Make visual alignment of engine, idler and transmission pulleys, then tighten engine pulley set screw.

Remove spring clip (X) and lock bar pin (U). Pull transmission slightly to the rear so that pin (U) will enter rear hole as shown in Figure 3. To facilitate this adjustment, a convenient handle (Y) is provided. Replace spring clip (X) to hold pin. Replace tractor drive belt. After changing from one speed to another, adjust set collar on spring (Z) so spring is compressed approximately  $\frac{5}{8}$ " when clutch lever (T, Fig. 1) is pulled back over center. To avoid damaging belt, use minimum tension required to drive the tractor. To avoid creeping and to afford proper declutching of tractor, belt stops should be adjusted to  $\frac{1}{8}$ " of the belt when the belt is tight.

Miles per hour at rated RPM in each speed:

High .....	2
Low .....	1.5

### LUBRICATION

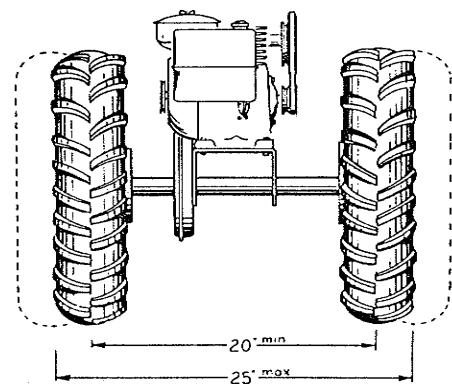
The tractor but not the engine (see Engine Instruction Book). is fully lubricated and ready for use when received.

There are four high pressure grease fittings on the tractor, one grease fitting on the idler pulley, one on the main axle housing, one on the gear case and one on the bearing housing. **They are located in Fig. 3 and designated with letter (G).** Grease the idler pulley every 4 to 6 hours of use. Grease the main axle housing every 12 to 15 hours of use. The gear case housing will require a few shots of grease every 40 to 50 hours of use. Lubricate the bearing housing every 5 to 6 hours of operation. Use a general purpose semi-solid grease in the grease gun supplied with the tractor.

Be sure to check level of oil in air filter as recommended in engine manual.

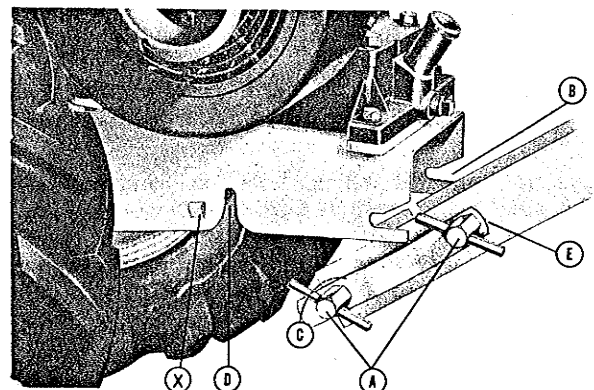
### TIRE PRESSURE

For shipping purposes, tractor tires are inflated to approximately 38 lbs. When tractor is assembled and ready for use, deflate tires to 8 to 10 lbs. of pressure.



### TREAD ADJUSTMENT

Above picture illustrates the position of the minimum and maximum width of the tractor wheels. To obtain maximum position, remove the hub bolts and wheel from the hub, and place on opposite side of the tractor. (Tire is lug type and proper setting of tire lug is necessary for cleaning. Be sure tires are mounted as shown in illustration).



### PATENTED QUICK-HITCH

All front attachments to the tractor use the patented Quick-Hitch shown above.

### INSTRUCTIONS FOR ATTACHING

After loosening T-nuts (A), push the tractor forward until slots (B) engage at (E) between the sideplates and hitch clamp on the attachment. Push down on the tractor handles until shaft (C) fits in slot (D). Tighten T-nut (A). To remove attachment, loosen T-nuts (A) sufficiently so side plate can be pulled over catch (X) on side of frame.

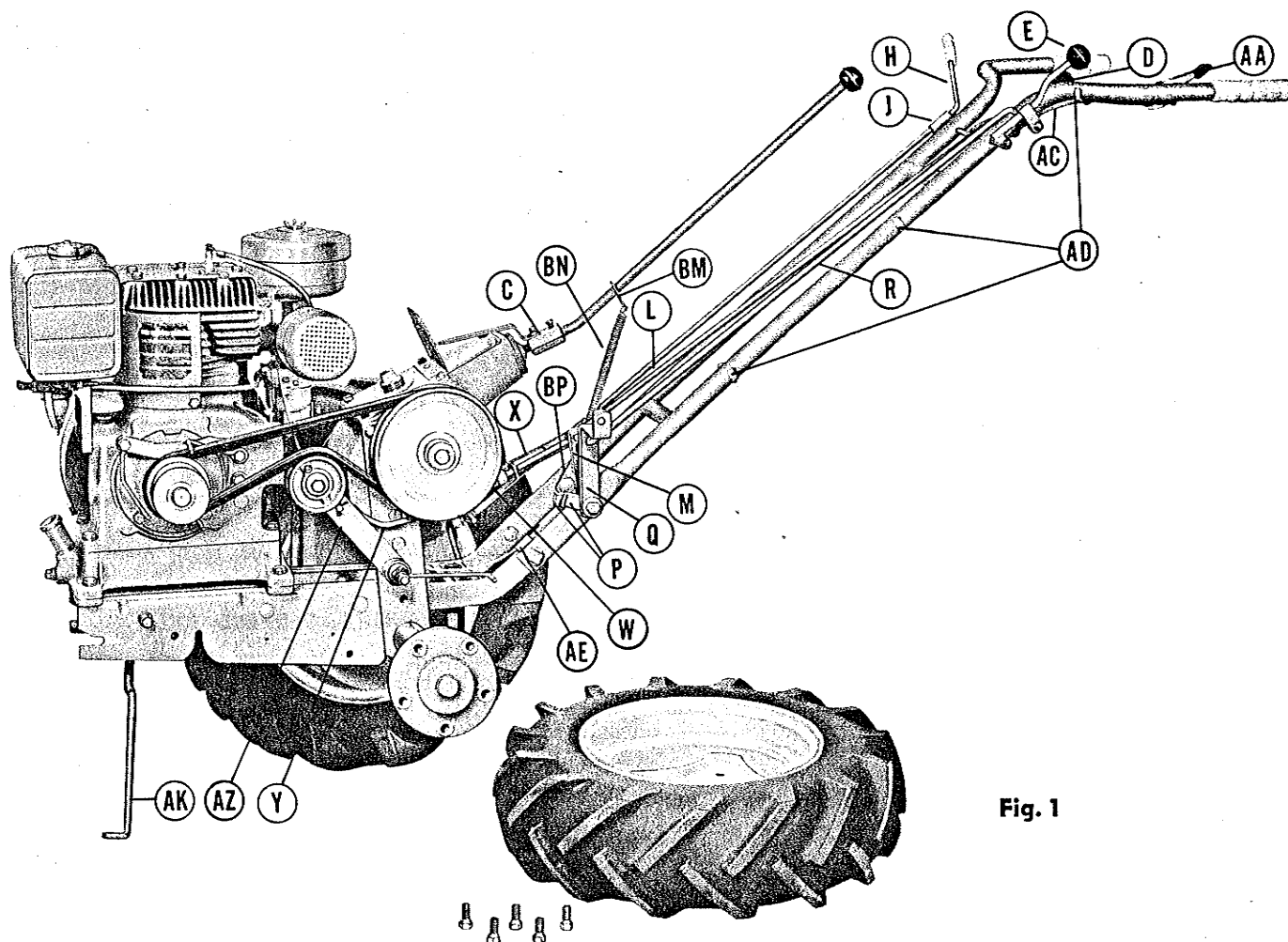


Fig. 1

## MODEL H 5 $\frac{3}{4}$ H.P. TRACTOR—MODEL VC 7 H.P. TRACTOR

### PACKING LIST

The tractor is shipped in two packages. One contains the engine, frame, wheels and gear assemblies, and the other contains the handles, clutch rods and levers. The tractor is equipped with a convenient kick stand (AK). This stand enables the tractor to be kept level when implements are not attached.

### ASSEMBLY

Before starting assembly, remove all parts from both packages. Refer to Fig. 1 for tractor assembly.

1. Before bolting handles to the frame, insert the throttle cable (AC) through the cable housing clamp (AE) as shown.
2. Bolt the handles to the outside of the frame with the four bolts provided. NOTE: When bolting handles to the frame, be sure that the bushings, washers, levers and lever stops are reassembled in the same sequence as packed.
3. When inserting upper left hand handle bolt, assemble lower clutch lever (Q), lever stops (P) and lower clutch pivot lever (M) as shown.
4. The slots at the bottom of the handle provide handle height adjustment. Place handles in comfortable operating position and tighten all handle bolts securely.
5. Attach upper clutch rod (R) to lower clutch lever (Q) and left hand clutch lever (E).
6. Attach upper idler rod (L) to right hand clutch lever (D), then to lower clutch pivot lever (M), and to idler clutch rod guide (X).
7. Connect lower idler rod (Y) in guide assembly (X) to idler lever (AZ) as shown.
8. Thread one end of spring (BN) into lower spring holder (BP). Place upper spring holder (BM) over end of gear shift handle extension as shown and slip handle extension into coupling (C). Be sure countersunk hole in end of handle extension lines up with set screw and tighten securely.
9. Thread other end of spring (BN) into upper spring holder (BM) and position spring holder on handle extension as shown, approximately 3 inches from coupling.
10. For Model "VC" only. Attach throttle control lever (AA) to left handle with throttle cable strung underneath. Screws and clamps for cable and throttle lever are in a mailing bag tied to the throttle cable. Clamp throttle cable to handle with three clips (AD) as shown.
- 10A. For Model "H" only. Attach Choke-A-Matic control lever (AA) to left handle with throttle cable strung underneath. Screws and clamps for cable and control lever are in a mailing bag tied to the cable. Clamp cable to handle with three clips (AD) as shown.

The Choke-A-Matic engine control is adjusted at the factory for proper operation. If it becomes neces-



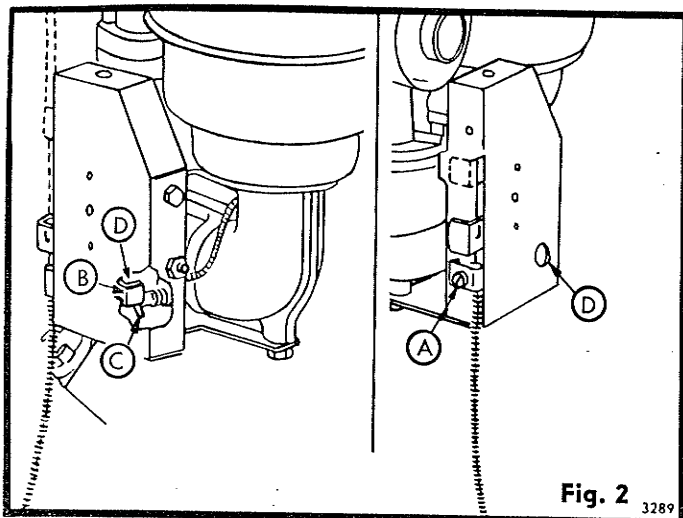


Fig. 2 3289

sary to recheck this adjustment, refer to instructions above, Fig. 2, and set control lever on handle bars to "fast" (high speed) position, then observe position of slide lever (B) through opening (D). If adjusted properly, this slide lever should be just touching the choke operating pin (C). If the unit is out of adjustment, loosen cable clamp screw (A) and move slide lever (B) up or down until it just touches the choke operating pin (C). For other information concerning the Choke-A-Matic control refer to the Briggs & Stratton engine manual furnished with your tractor.

11. Attach shift rod (H) to clevis assembly as shown in Fig. 3. Hold in place with cotter pin.
12. **IMPORTANT** — Be sure to adjust rod guide (J), Fig. 1, with nut so that its nylon liner will exert pressure on shift rod (H). This adjustment must be properly maintained to insure that the two speed axle will stay in the speed range selected.

### ADJUSTMENTS

1. Adjust set collar on rod guide assembly (X), Fig. 3, so that spring (W) is compressed approximately  $\frac{3}{8}$  inch when right hand lever (D), Fig. 1, is pulled back and clutch engaged.
2. Place the belt stops as shown within  $\frac{1}{8}$  inch of the belt when belt is tight.
3. Be sure that the bolts which hold the belt stops are tightened sufficiently to keep belt stops from moving.
4. Limit the travel of the idler pulley so that the drive belt is released just sufficiently to slip on the engine pulley. This adjustment is made by setting position of the lever stop (P) at base of lever (M).
5. To obtain widest tread adjustment, remove the hub bolts and wheel from the hub and place on opposite side of tractor. (Tire is lug type and proper setting of the tire lug is necessary for cleaning).

### SELECTIVE GEAR TRANSMISSION

BE SURE RIGHT HAND CLUTCH LEVER IS IN ITS FORWARD POSITION BEFORE SELECTING DESIRED SPEED. To change speeds disengage clutch by pushing forward on right hand clutch (D). Lift up on gear shift handle and select speed desired as indicated by pointer. A slight downward movement of the gear shift handle will engage the gears.

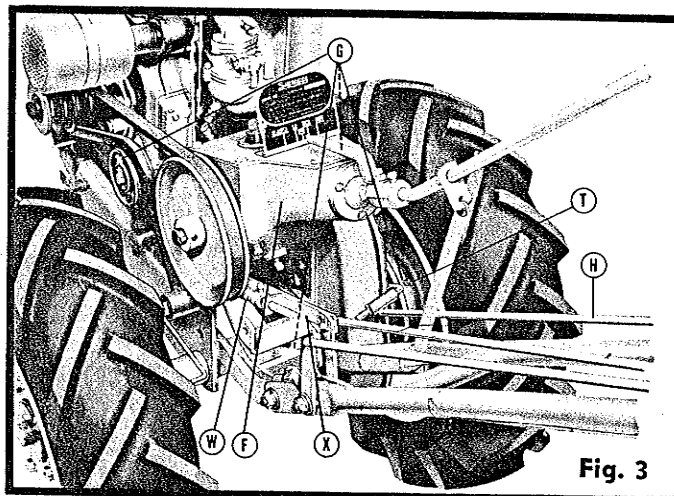


Fig. 3

Engage clutch by pulling back on right hand clutch lever (D).

### SPEED RANGE — 2 SPEED AXLE

Shift rod (H) controls high and low speed ranges. To place tractor in high speed range, lift up on handle of shift rod (H), for low speed range push down on handle on shift rod (H). In between is neutral and is used to permit pushing or pulling tractor.

MILES PER HOUR AT RATED RPM	
HIGH RANGE	LOW RANGE
Low .....3	Low .....2
Medium .....3½	Medium .....2½
High .....6	High .....4

### FREE WHEELING

TO OBTAIN FULL FREE WHEELING OF THE TRACTOR, MOVE SHIFT ROD (H) INTO ITS CENTER POSITION.

### CONTROLLED TRACTION DIFFERENTIAL

The Models H & VC tractors are equipped with Controlled Traction Differential. Adjusting bolts (A, Fig. 4)

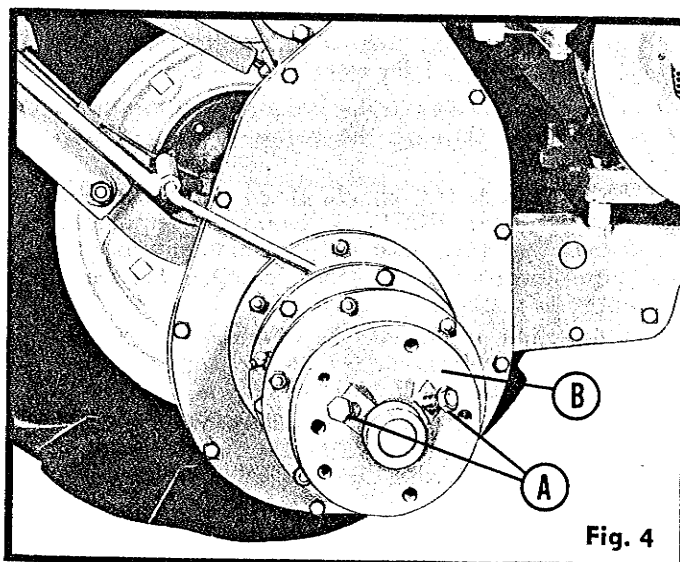


Fig. 4

in wheel hub (B), provides pressure against a nylon plug and sleeve around tractor axle to prevent excessive wheel slippage when tractor is being used under abnormally slippery conditions. The adjusting bolts (A) are adjusted at the factory to a torque of 20 ft. lbs. As the nylon sets itself through use, it may be necessary to readjust bolts (A) a few times to maintain 20 ft. lb. torque (20 lb. weight on wrench 1 ft. long). **CAUTION** — DO NOT APPLY MORE THAN 30 FT. LBS. TO THE ADJUSTING BOLTS.

### LUBRICATION

The tractor, but not the engine, (see engine instruction book), is fully lubricated and ready for use when received. **CAUTION: CHECK TRANSMISSION OIL LEVEL AT PLUG PROVIDED. LOSS OF OIL MIGHT OCCUR DUE TO IMPROPER HANDLING IN SHIPPING.** If additional oil is needed add SAE No. 90 oil to proper level. Excessive amount of oil may cause damage to oil seals. There are 4 high pressure grease fittings and 3 oil plugs on the tractor. The grease fittings are located on the

idler pulley, the main axle housing, the gear case, and the differential housing. **They are located in Fig. 3 and designated with letter (G).** Add a few shots of grease approximately every 8 hours of use to all fittings. Use a general purpose semisolid grease in the grease gun supplied with the tractor.

The three oil plugs are located on the transmission gear case and cover (F, Fig. 3). The filler plug is on the transmission case cover, the oil level plug on the rear of the transmission case, and the drain plug on the bottom of the transmission case. To fill transmission remove filler and oil level plugs and pour oil into filler plug opening until it rises to the oil level plug opening. (Be sure the tractor is standing level). Replace plugs and tighten securely. Add fresh oil as required. Use SAE No. 90 oil all year round in the transmission.

### TIRE PRESSURE

For shipping purposes the tires are inflated to approximately 38 lbs. When tractor is assembled and ready for use deflate tires to 8 to 10 lbs. of pressure.

## How to Order Repair Parts for Simplicity Tractors

The Authorized Simplicity dealer from whom you purchased your Tractor can supply you with any replacement parts you may need. For prompt service, be sure to see your dealer first. He will furnish the correct parts from his stock or order them for you if necessary. However, you may mail-order direct from the factory.

To have your order filled correctly and for

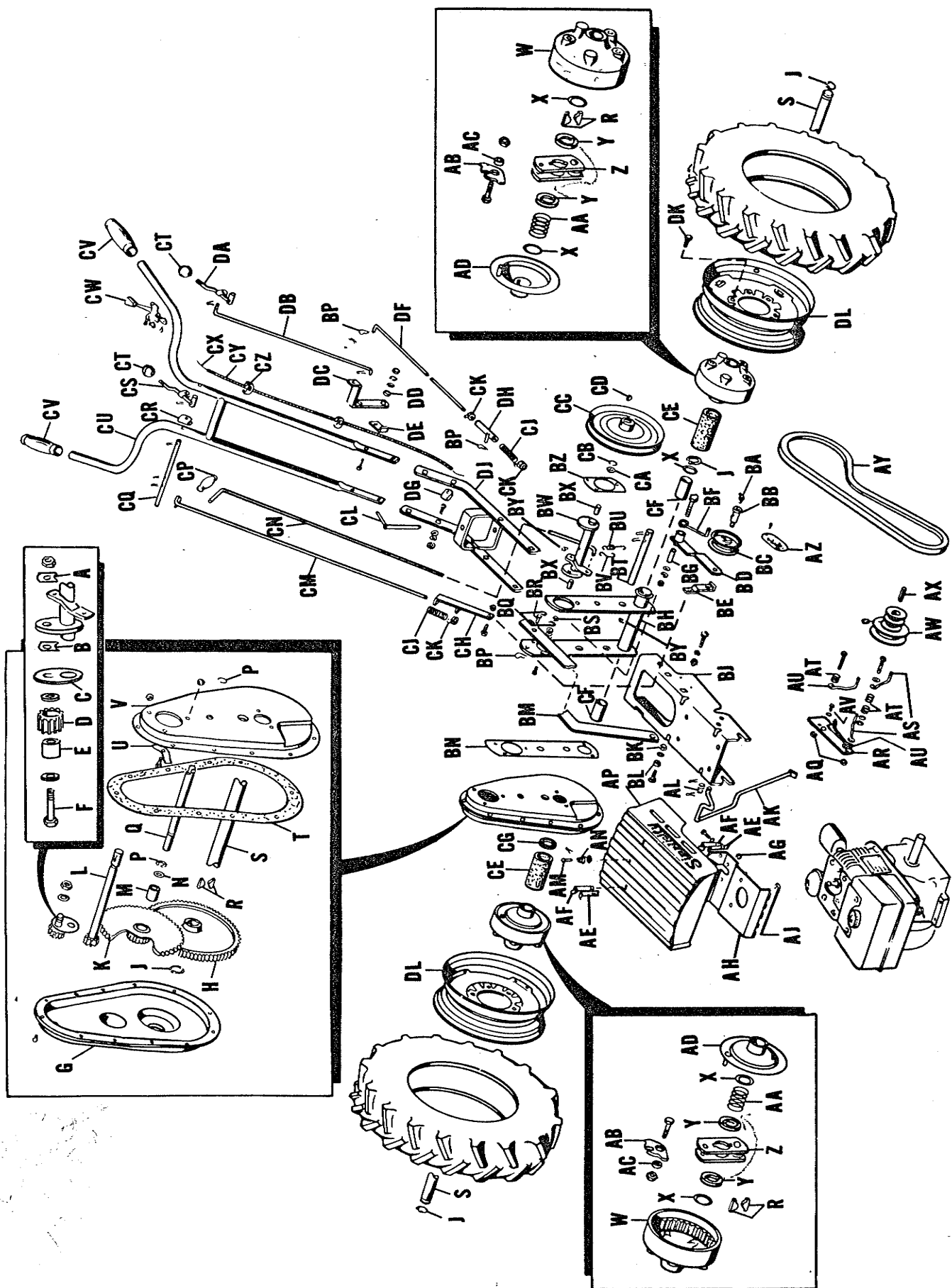
prompt service, please furnish the following information:

1. Model, number and year of purchase of Tractor.
2. Part number, description, color, and quantity of part. (See parts list).

Be sure to include postage with your order. We do not pay transportation charges. Shipping weights are shown. Any excess will be promptly refunded.

**Note: Engine parts and service must be obtained through the service organizations of the engine manufacturer.**

*We reserve the right to change construction, specifications, prices and terms without notice and without obligation as to Tractors heretofore shipped.*





# PARTS LIST FOR MODEL "LC" TRACTOR

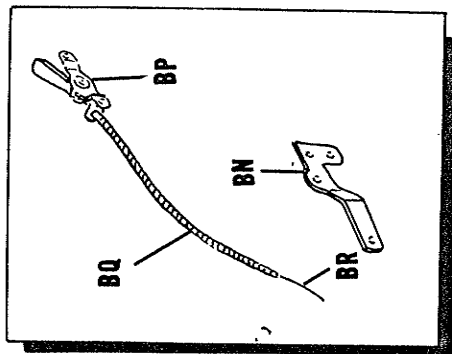
Order by Part Number

Ref. Letter	Part No.	Description	Weight	
			Lbs.	Oz.
A	121139	Lock Plate		3
B	121107	Spacer		3
C	153094	Shield		6
D	121118	Pinion, Reverse	2	
E	121163	Spacer		6
F	121184	Bolt		6
G	153106	Cover, Gear Case	3	
H	153056	Gear, Drive	5	
J	R-A63	Ring, Retainer <i>8151063</i>		2
K	121119	Gear Assy., Intermediate (Available only as two gears, assembled)	7	8
L	121115	Pinion and Pulley Shaft Assy.	3	
M	153078	Bearing, Intermediate Pinion		6
N	153079	Washer		2
P	153124	Ring, Retainer		3
Q	153080	Shaft, Intermediate	1	
R	725501	Key, Hi-Pro, HP-608		4
S	153113	Axle	10	8
T	153115	Gasket, Gear Case		10
U	153095	Spring, Drag		6
V	153105	Case, Gear	3	
W	153039	Hub, Wheel	4	8
X	153088	Washer		4
Y	153077	Washer, Axle		4
Z	153051	Cage Assy., Ratchet	2	
AA	153093	Spring, Axle		6
AB	153002	Ratchet		8
AC	153081	Spacer		6
AD	153065	Cover Assy., Ratchet Cage	4	
AE	151048	Latch, Stub		10
AF	153008	Latch		5
AG	717513	Nut, Hex, Full, Lock, 1/4-20 N.C.		2
AH	153007	Bracket Assy. Hood	4	
AJ	153005	Pin, Hinge		4
AK	152011	Stand Assy.	2	6
AL	152006	Spring, Stand		6
AM	153006	Pin, Hood		4
AN	153010	Spring, Hood		3
AP	153018	Hood Assy.	7	8
AQ	717011	Nut, Hex, Jam, 5/16-18 N.C.		2
AR	153123	Holder, Belt Stop		8
AS	GS-A35	Stop, Belt - <i>8081035</i>		3
AT	S2-A47	Spring - <i>8191047</i>		2
AU	D-A73A	Stop, Belt - <i>8021073</i>		8
AV	153026	Screw, Holder		8
AW	151038	Pulley, Engine	7	8
AX	S3-A42	Key, Engine Pulley - <i>8221042</i>		2
AY	153091	V-Belt, 44"	1	8
AZ	153151	Plate, Serial No.		6
BA	727004	Fitting, Grease, Alemite #1911		1
BB	F-A37	Pin, Idler Pulley - <i>8051037</i>		10
BC	F-AX5	Pulley Assy., Idler - <i>8051505</i>		12
BD	153069	Lever Assy., Idler	2	
BE	R-A28	Extension, Idler Lever - <i>8151028</i>		6

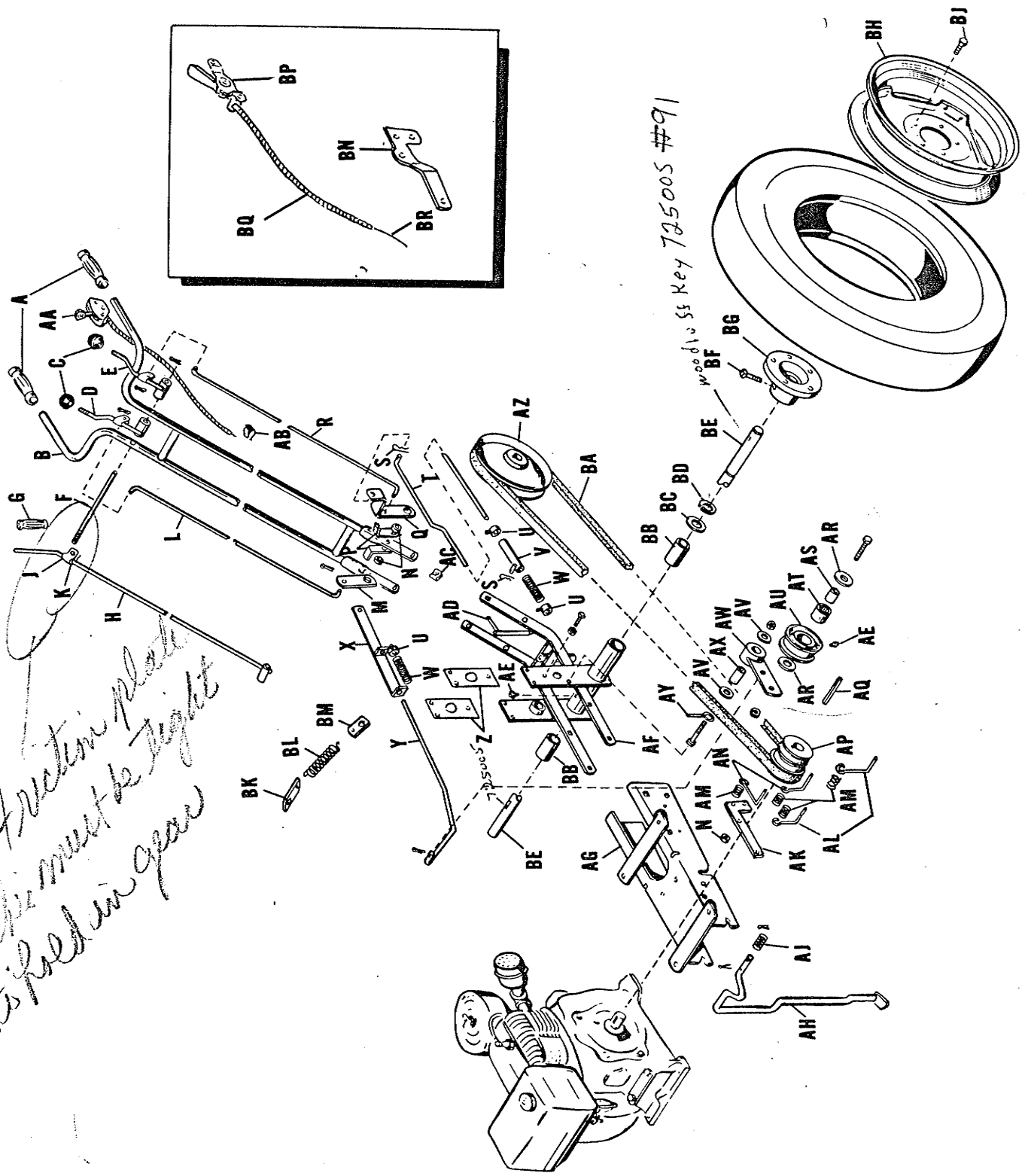
Ref. Letter	Part No.	Description	Weight	
			Lbs.	Oz.
BF	D-A73A	Stop, Belt <i>8021073</i>		8
BG	G-A58	Spacer, Idler Lever <i>8061058</i>		6
BH	153108	Housing Assy., Axle	9	10
BJ	153118	Base	8	10
BK	717510	Nut, Hex, Full, Lock, 3/8-16 N.C.		2
BL	153073	Spacer, Lock Bar		6
BM	153119	Bar, Lock	2	8
BN	153114	Gasket, Bearing Housing		8
BP	S1-A45A	Clip, Spring - <i>8161045</i>		2
BQ	153009	Handle		8
BR	153058	Pin, Lock		4
BS	717011	Nut, Hex, Jam, 5/16-18 N.C.		2
BT	153116	Pivot		8
BU	153121	Spring, Reverse Lever		8
BV	153011	Extension, Spring		6
BW	153044	Housing Assy., Bearing	3	10
BX	F-A38	Bearing - <i>8051038</i>		5
BY	727002	Fitting, Grease, Alemite #1641		1
BZ	153097	Plate		10
CA	153079	Washer		2
CB	153124	Ring, Retainer		3
CC	153096	Pulley, Transmission	6	8
CD	725003	Key, Woodruff, #9		2
CE	153117	Tube, Rubber		10
CF	153089	Bearing, Axle		8
CG	G-A55	Washer, Retainer - <i>8061055</i>		3
CH	GS-AX3	Clutch Rod, Guide Assy. - <i>8081503</i>		14
CJ	S2-A45	Spring - <i>8191045</i>		3
CK	S2-A22A	Collar, Set - <i>8191022</i>		3
CL	G-AX2	Pin Assy., Hitch - <i>8061502</i>	1	3
CM	153084	Rod, Clutch	1	2
CN	153083	Rod, Reverse	1	4
CP	153017	Grip, Reverse Rod		6
CQ	153085	Shaft, Lever		6
CR	153074	Guide, Reverse Rod		6
CS	D-AX7	Lever Assy., R.H. - <i>8021507</i>	1	12
CT	D-A50	Ball, Clutch Lever - <i>8021050</i>		8
CU	153040	Handle Assy.	12	
CV	153043	Grip, Handle		8
CW	G-A87	Control, Throttle - <i>8061087</i>		8
CX	153087	Wire, Throttle		7
CY	153086	Cable, Throttle	1	
CZ	G-A108	Clip, Throttle - <i>8061108</i>		4
DA	F-AX6	Lever Assy., L.H. - <i>8061506</i>	1	12
DB	153082	Rod, Upper Idler	1	2
DC	D-A91	Lever, Lower Clutch - <i>8021091</i>		4
DD	S1-A215	Bushing - <i>8161215</i>		4
DE	D-A121	Stop, Lever - <i>8021121</i>		4
DF	151015	Rod, Lower Clutch	1	
DG	GA-117	Clamp, Cable - <i>8061117</i>		6
DH	S1-AX18	Socket Assy., Rod - <i>8161518</i>		6
DJ	153014	Frame Assy.	10	
DK	SS-A100	Hub, Bolt - <i>8261100</i>		3
DL	SSB23B	Wheel - <i>8262024</i>	12	8

\* Purchase Locally

Friction plate  
this must be tight  
to hold in gear



wood 10 ss Key 725005 #91



# PARTS LIST FOR MODEL "H" & "VC" TRACTORS

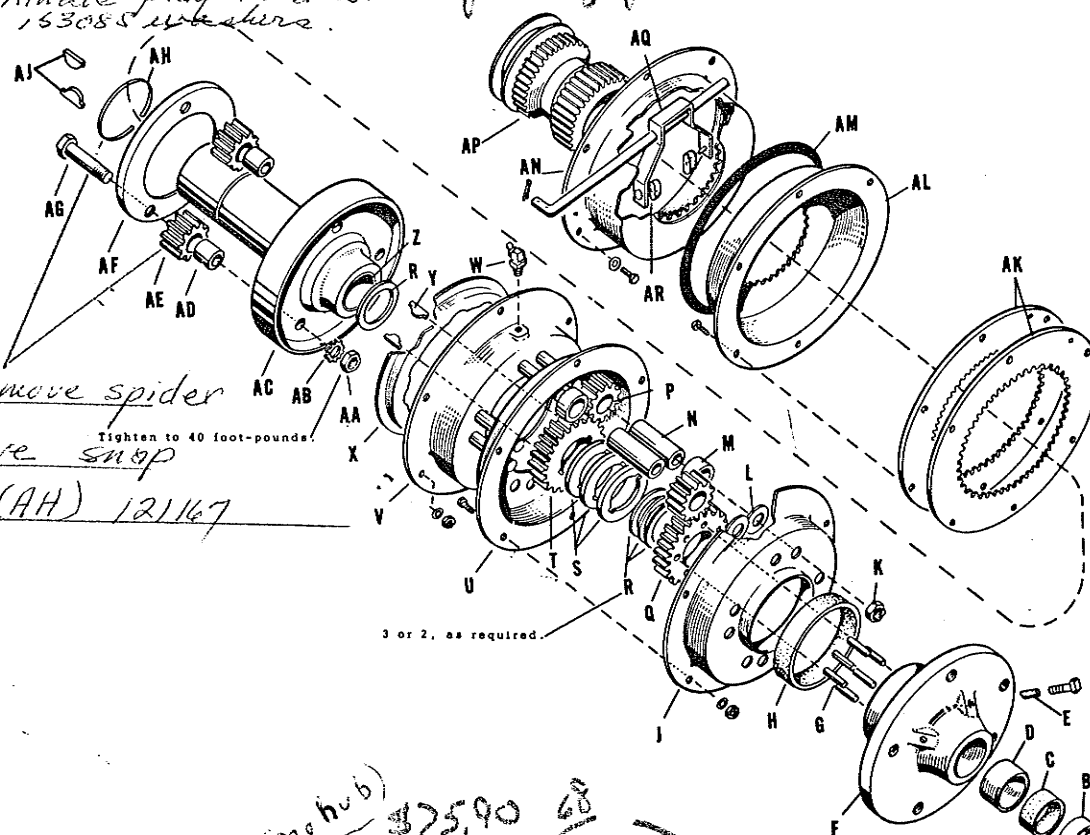
Order by Part Number

Ref. Letter	Part No.	Description	Weight	
			Lbs.	Oz.
A	153043	Grip, Handle	8	
B	<del>D-EX11A</del>	Handle Assy. - <del>80223577</del> 45 <del>AS 8063502</del> (1-45)	8	
C	D-A50	Ball, Clutch Lever - 80221050	8	
D	D-AX7	Lever Assy., Clutch, R.H. 80221501	12	
E	F-AX6	Lever Assy., Clutch, L.H. 80221501	12	
F	151037	Shaft, Lever	6	
G	121201	Grip	6	
H	152047	Rod Assy., Shift	2	
J	152050	Guide, Rod	6	
K	121175	Liner, (Nylon)	4	
L	F-A14	Rod, Upper Idler - 8051014	1	
M	F-A30	Pivot - 8051030	6	
N	S1-A215	Bushing 8061215	4	
P	D-A121	Stop, Lever 80221121	4	
Q	D-A91	Lever, Lower Clutch 80221091	1	
R	D-A122	Rod, Clutch 80221122	1	
S	S1-A45A	Clip, Spring 8161045	2	
T	G-A90	Rod, Lower Clutch 8061090	2	
U	S2-A22A	Collar, Set 8191022	3	
V	S1-AX18	Socket Assy., Rod 8161518	6	
W	S2-A45	Spring, Idler Rod 8191045	3	
X	GS-AX3	Guide Assy., Idler Clutch Rod 8081503	14	
Y	R-A69	Rod, Clutch, Lower Idler - 8151069	12	
Z	G-A97	Gasket, Transmission Case Support 8061097	12	
AA	152049	Throttle Control, with Cable & Wire (Model "H" only)	2	
AB	G-A108	Clip, Cable - 8061108	4	
AC	G-A117	Clamp, Cable 8061117	6	
AD	G-AX2	Pin Assy., Hitch 8061502	3	
AE	727002	Fitting, Grease, Alemite #1641	1	
AF	152024	Frame Assy.	20	
AG	152051	Base Assy.	11	
Ref. Letter	Part No.	Description	Weight	
AH	152011	Stand Assy.	2	
AJ	152006	Spring, Stand	6	
AK	152053	Holder, Belt Stop	12	
AL	D-A73A	Stop, Belt - 8021073	8	
AM	S2-A47	Spring 8191047	2	
AN	G-SA35	Stop, Belt - 8081035	3	
AP	G-A59	Pulley, Engine - 8061059	14	
AQ	G-A100	Key, Engine Pulley 8061100	4	
AR	S2-A37	Washer, Thrust 8191037	2	
AS	S2-A20	Race, Inner Bearing 8191020	3	
AT	S2-A48	Bearing, Idler Pulley 8191048	3	
AU	SS-A3A	Pulley, Idler 8261003	1	
AV	719001	Washer, Plain 3/8"	6	
AW	G-AX3	Lever, Idler Assy. 8061503	11	
AX	G-A58	Spacer, Idler Lever 8061058	6	
AY	152028	Pin, Lock	6	
AZ	G-A63	Pulley, Transmission 8061063	3	
BA	152017	Belt, Drive, 45" Super Combine	2	
BB	G-A40	Bearing, Axle 8061040	4	
BC	153088	Washer	4	
BD	121128	Ring, Retaining	2	
BE	151041	Axle	10	
BF	715002	Screw, Square Hd., Set, 3/8-16x1 1/4"	8	
BG	151024	Hub, Wheel, L.H.	6	
BH	SS-B23C	Wheel, Drive (Specify Color) 8261023	8	
BJ	SS-A100	Bolt, Hub 8261100	3	
BK	R-A36	Holder, Spring, Upper 8151036	4	
BL	CA-158	Spring 8011158	3	
BM	R-A35	Holder, Spring, Lower 8051035	4	
BN	GA-88	Holder, Belt Stop 8061088	10	
BP	GA-87	Control, Throttle Lever Model 8061087	8	
BQ	DA-95	Cable, Throttle "VC" only	4	
BR	152016	Wire, Throttle	8	

\* Purchase Locally

See page 8 for jumping out of gear

To eliminate plug in H.S.S.  
add 153088 washers.



2 Speed Axle \$75.90 68  
Compl Dist for "H" \$12.50  
Also For VC = 152074 Hub Kit 152062

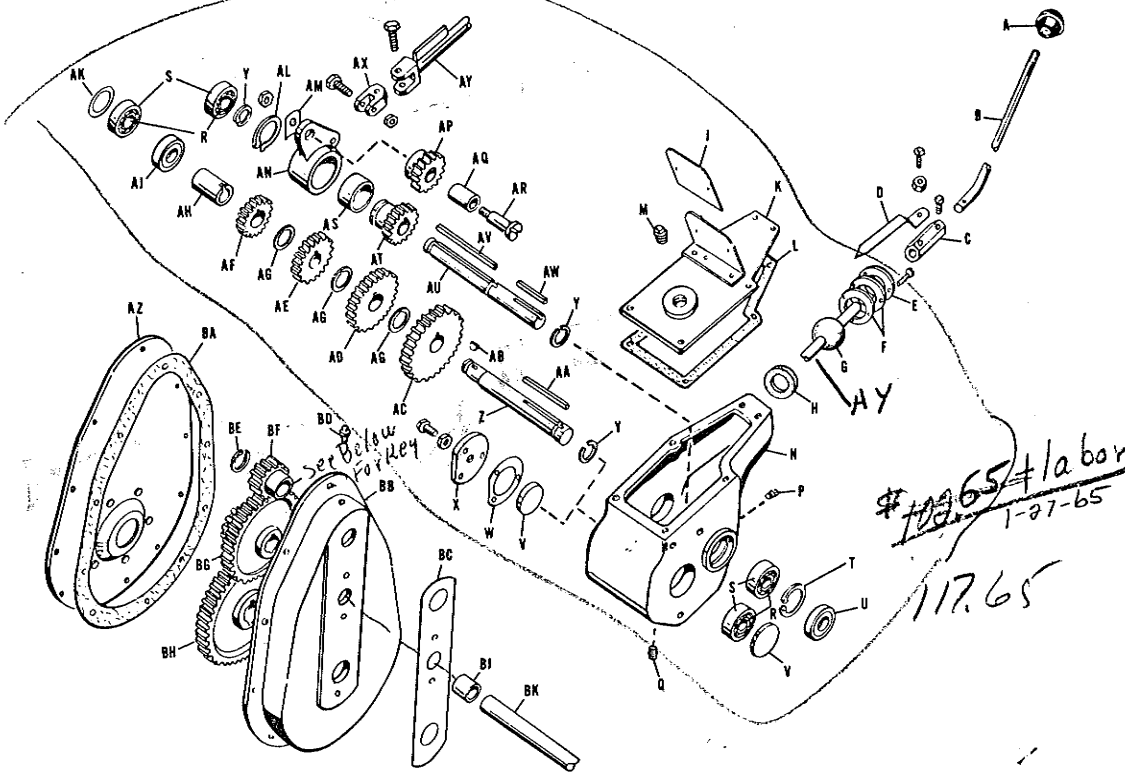
## PARTS LIST FOR MODEL "H" & "VC" TRACTOR DIFFERENTIAL

Order by Part Number

Ref. Letter	Part No.	Description	Weight	
			Lbs.	Oz.
A	G-A46	Collar, Axle - 8661046		12
B	105058	Bearing		4
C	152041	Bearing, Nylon		2
D	153068	Bearing		4
E	152042	Plug		2
F	152040	Hub, R.H. Wheel	6	
G	723003	Pin, Roll		4
H	121190	Seal, Differential Cover		4
J	151022	Cover, Differential	2	
K	717510	Nut, Lock, Full Hex, 3/4-24		3
L	719002	Washer, Plain, 5/16		*
M	121084	Spacer, Differential		8
N	121083	Spindle, Pinion, Differential	1	
P	121082	Pinion, Differential	2	
Q	151044	Gear, Differential	1	8
R	153088	Washer		4
S	153077	Washer, Axle		4
T	121086	Gear, Differential	1	8
U	121149	Cover, Differential	2	
V	151021	Carrier Assy.	3	8

Ref. Letter	Part No.	Description	Weight	
			Lbs.	Oz.
W	727006	Fitting, Grease, Alemite #1637		2
X	121185	Plate, Thrust		8
Y	725501	Key, Hi-Pro #HP608		4
Z	153068	Bearing		4
AA	718015	Nut, Lock, Full Hex, 3/4-24		3
AB	721004	Lockwasher, External Shakeproof		*
AC	155022	Spider Assy.	5	6
AD	121163	Spacer, Pinion		8
AE	121118	Pinion	2	
AF	121162	Ring, Bolt		6
AG	121184	Bolt, Hex Hd.		3
AH	121167	Snap Ring		2
AJ	151040	Key		2
AK	121151	Gear, Ring	1	
AL	121148	Cover Assy.	3	4
AM	121186	Seal, Housing Assy.		6
AN	121146	Housing Assy.	2	
AP	121187	Gear Assy., Sun	3	
AQ	151033	Clevis Assy.	2	
AR	121169	Block, Shift		4

\* Purchase Locally

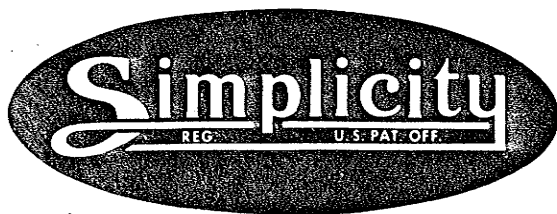


## PARTS LIST FOR MODEL "H" & "VC" TRACTOR TRANSMISSION

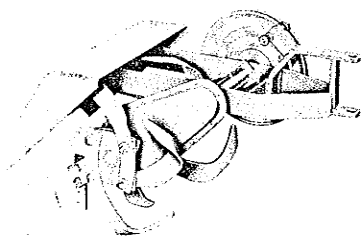
Order by Part Number

Ref. Letter	Part No.	Description	Weight	
			Lbs.	Oz.
A	G-A65	Ball, Shift Lever <i>8061065</i>		8
B	G-A29	Extension, Gear Shift Handle <i>8061024</i>		10
C	G-A30	Coupling, Gear Shift Handle <i>8061030</i>		10
D	G-A75	Pointer, Shifter - <i>8061075</i>		4
E	F-A47	Retainer, Gear Shift Ball <i>8051047</i>		10
F	F-A59	Spacer, Shift Ball <i>8051059</i>		7
G	F-A44	Ball, Gear Shift <i>8051044</i>		10
H	F-A60	Washer, Shift Ball <i>8051060</i>		4
I	152044	Plate, Serial and Shift—VC only		6
J	152043	Plate, Serial and Shift—H only		6
K	152015	Cover Assy., Trans. Gear Case	2	10
L	G-B8	Gasket, Trans. Gear Case Cover <i>8062008</i>		4
M	G-A45	Plug, Filler <i>8061045</i>		10
N	G-C1	Case, Transmission Gear <i>8063008</i>		
P	726001	Plug, Pipe, 1/8 Std. Sq. Hd.		6
Q	726002	Plug, Pipe, 1/4 Std. Sq. Hd.		8
R	G-A94	Cone, Roller Bearing - <i>8061094</i>		6
S	G-A95	Cup, Roller Bearing - <i>8061095</i>		3
T	G-A52	Ring, Retaining <i>8061052</i>		3
U	G-A53	Seal, Oil <i>8061053</i>		6
V	G-A13	Plate, Trans. Bearing Take-Up <i>8061013</i>		6
W	G-A18	Gasket, Adjusting Plate <i>8061018</i>		4
X	G-A17	Plate, Trans. Bearing Adj. <i>8061017</i>		10
Y	G-A49A	Ring, Retaining <i>8061049</i>		4
Z	G-A6	Shaft, Transmission Pinion <i>8061006</i>		
AA	G-A83A	Key, Transmission Pinion Shaft - <i>8061083</i>		4
AB	725002	Key, Woodruff 5/32 x 3/8		1
AC	G-A10	Gear, "Reverse" - <i>8061010</i>	2	8
AD	G-A9	Gear, "Low" - <i>8061009</i>	1	15
AE	G-A8	Gear, "Medium" - <i>8061008</i>	1	8
AF	G-A7	Gear, "High" - <i>8061007</i>		14

Ref. Letter	Part No.	Description	Weight	
			Lbs.	Oz.
AG	G-A12	Spacer, Transmission Gear <i>8061012</i>		4
AH	G-A11A	Spacer, Trans. Pinion Shaft <i>8061011</i>		6
AJ	G-A118	Seal, Oil - <i>8061118</i>		5
AK	152018	Shim, Transmission Bearing Cup		4
AK	G-A14	Shim, Transmission Bearing Cup - <i>8061014</i>		
		—Either/Or—1 or 2 as required		4
AL	G-A106	Ring, Retaining - <i>8061106</i>		3
AM	G-A119	Plate, Lock - <i>8061119</i>		4
AN	G-A1	Arm, Trans. Rocker w/bearing - <i>8061001</i>		2
AP	G-A3	Pinion, Rocker Arm w/bearing <i>8061003</i>		6
AQ	F-A38	Bearing - <i>8051038</i>		5
AR	G-A5	Pin, Rocker Arm Pinion <i>8061005</i>		6
AS	G-A2	Bearing, Rocker Arm <i>8061002</i>		4
AT	G-A16A	Gear, Transmission Slide <i>8061016</i>		15
AU	G-A15	Shaft, Transmission Pulley - <i>8061015</i>		6
AV	G-A82	Key, Transmission Pulley Shaft - <i>8061082</i>		4
AW	G-A81	Key, Transmission Pulley - <i>8061081</i>		3
AX	G-A26	Pitman, Gear Shift - <i>8061026</i>		6
AY	G-AX1	Clevis Assy., Pitman <i>8061501</i>		11
AZ	152019	Cover Assy., Gear Case <i>8061019</i>		5
BA	G-C4	Gasket, Gear Case Cover - <i>8063004</i>		6
BB	G-C2	Case, Gear <i>8063002</i>	11	
BC	G-B9	Gasket, Gear Case <i>8062009</i>		4
BD	727002	Fitting, Grease, Alemite #1641		1
BE	G-A48A	Ring, Retaining - <i>8061048</i>		4
BF	G-A20	Pinion, Reduction Key <i>1575002</i> <i>8061020</i>		4
BG	G-BX3	Gear Assy., Cluster <i>8062503</i>	9	14
BH	152021	Gear, Drive	8	8
BJ	G-A22	Bearing, Intermediate Pinion <i>8061022</i>		6
BK	152027	Shaft, Intermediate	2	6

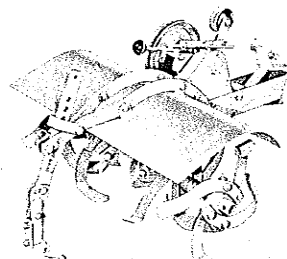


## QUALITY ATTACHMENTS



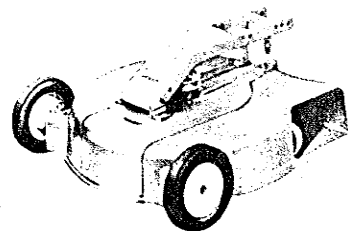
### 12" STANDARD ROTARY TILLER.

Designed for small gardens. Shield specially constructed to leave smooth seed bed. Depth shoe can be set for deep or shallow tilling. Low cost. For use with Simplicity 3 HP tractor.



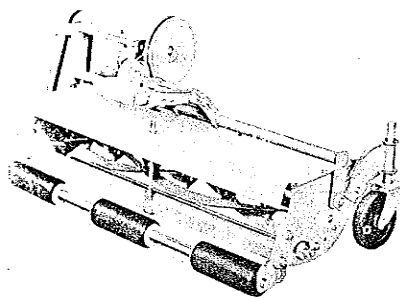
### 28" ROTARY TILLER.

Heavy non-clogging, self-sharpening tines guaranteed against breakage. Center drive and open construction also reduce clogging. Removable depth-shoe permits finishing seed bed without leaving furrow marks. Slow tine speeds spade the earth. Does not breakdown humus. For use with 5 HP, 5 $\frac{3}{4}$  HP and 7 HP Simplicity tractors.



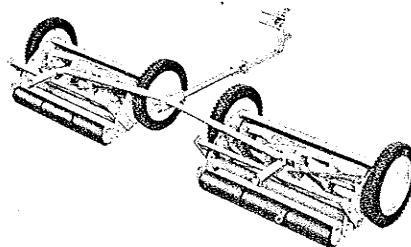
### 20" AND 24" ROTARY LAWN MOWERS.

Deep housing completely shields blade for reel safety, close coupled for better cutting on rough ground—avoids "scalping" rough spots. Trims within 1" of fences and walls, trims under hedges. Can be used on all Simplicity tractors.



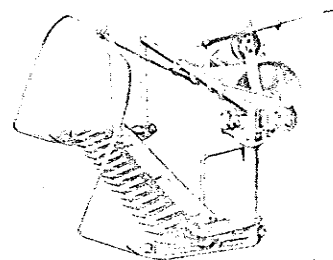
### 30" REEL LAWN MOWER.

Engine-driven cutting reel and independent clutch. Rigid cutting bar has simple positioning adjustment for under-knife. All mowers are belt driven. Use with all Simplicity tractors.



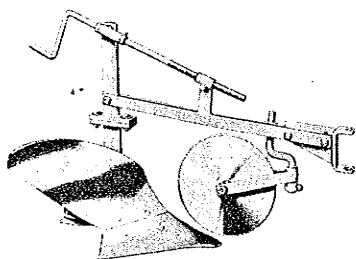
### TWO GANG COMPANION MOWER.

For institutions, estates, etc. with substantial lawn areas. Two 20" heavy duty, ground-driven mowers with tractor hitch. Use with 30" front-mounted mowers. Use with all Simplicity tractors.



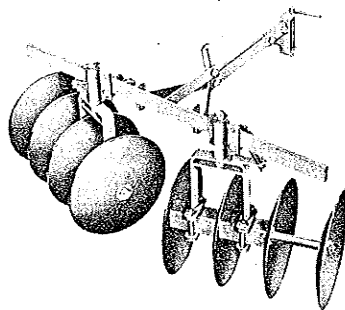
### 30" SICKLE BAR.

Cuts ahead of tractor and close to trees and fences from either side. Clutch permits cutter bar to operate while tractor is motionless. Entire unit precision made. Use with all Simplicity tractors.



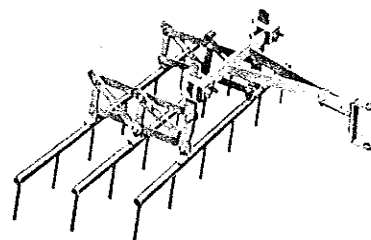
### 6 $\frac{1}{2}$ ", 8" AND 10" MOLDBOARD PLOWS.

A regulator permits depth changes while tractor is in motion. The swivel rolling coulter cuts trash and leaves a clean furrow. Plow cuts precise planting furrows. 3 sizes available to meet all soil conditions and tractor sizes.



### 12" DISC HARROWS.

For preparing seed beds, deep cultivating and hilling. Gangs reversible to throw in and throw out. Leveling adjustment provided. Use with all Simplicity tractors. Counter and wheel weights recommended.



### SPIKE TOOTH HARROW WITH HITCH.

For leveling and breaking down plowed ground. Adjustable setting for both pitch and depth. Use with all Simplicity tractors.



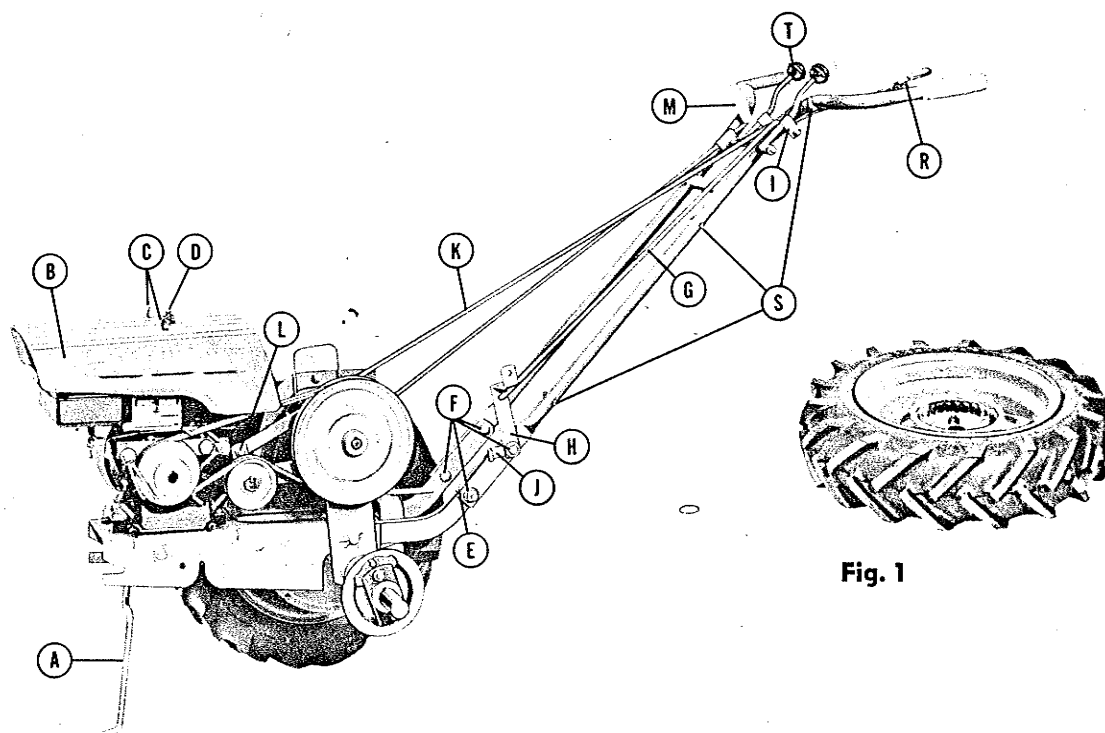


Fig. 1

### PACKING LIST

The complete tractor is shipped in two cartons. One contains the frame, wheels, engine and gear case assemblies, and the other contains the handles, clutch rods and levers.

The kick stand (A) enables the tractor to be kept level when implements are not attached. The protective hood (B) is hinged at the front. To lift, push the two latches (C) slightly and lift hood. To turn off the engine, press shut-off button (D) until engine stops.

The hood may be removed at any time should you desire. To remove hood, pull out wire and hinge will separate.

The engine is shut off when hood is removed by flipping the safety stop switch against the spark plug. The safety stop switch will remain against the spark plug until removed. **Be sure to lift it off before trying to start engine.**

### INSTRUCTIONS FOR ASSEMBLING

Before bolting handles to frame, insert throttle cable through cable housing clamp (E) as shown.

1. Bolt handles to the outside of tractor frame as shown. Handle bolts (F) are shipped inserted in the frame. NOTE: When bolting handles to the frame, be sure that the bushing, washers, clutch lever and lever stop are re-assembled in the same sequence as packed. To provide clearance for attachments, it is recommended that upper left handle bolt be installed head to outside as shown. Install the other three with heads to inside.
2. Attach clutch rod (G) to lower clutch lever (H) and to upper clutch lever (I) as shown.

3. Lower clutch lever (H) should rest on lever stop (J) when upper clutch lever (I) is forward.
4. Attach clutch rod (K) to idler arm as shown at (L). Figure 2 illustrates this assembly in detail.
5. Attach reverse rod (M, Fig. 2) to bearing housing (N, Fig. 2) as shown.
6. Please refer to Figure 1. Attach throttle control lever (R) to the left hand handle with the throttle cable strung under the handle.
7. Clamp throttle cable to the handle with three clamps (S) as shown. NOTE: Screws and clamps for cable and throttle lever are packed in mailing bag tied to cable.

### OPERATION

#### Before Starting Engine, Be Sure Safety Stop Switch Is Lifted Off Of Spark Plug.

To shift from forward to reverse, release clutch by pushing forward on right hand clutch lever (T). Pulling back on handle on reverse rod (M) will enmesh the reverse gear. Pull back on right hand clutch lever (T) to engage clutch. To go forward, release clutch, push forward on rod (M), then engage clutch. **Be sure to release clutch before changing gears.** Failure to do so will cause a sudden start which puts extreme strain on gears.

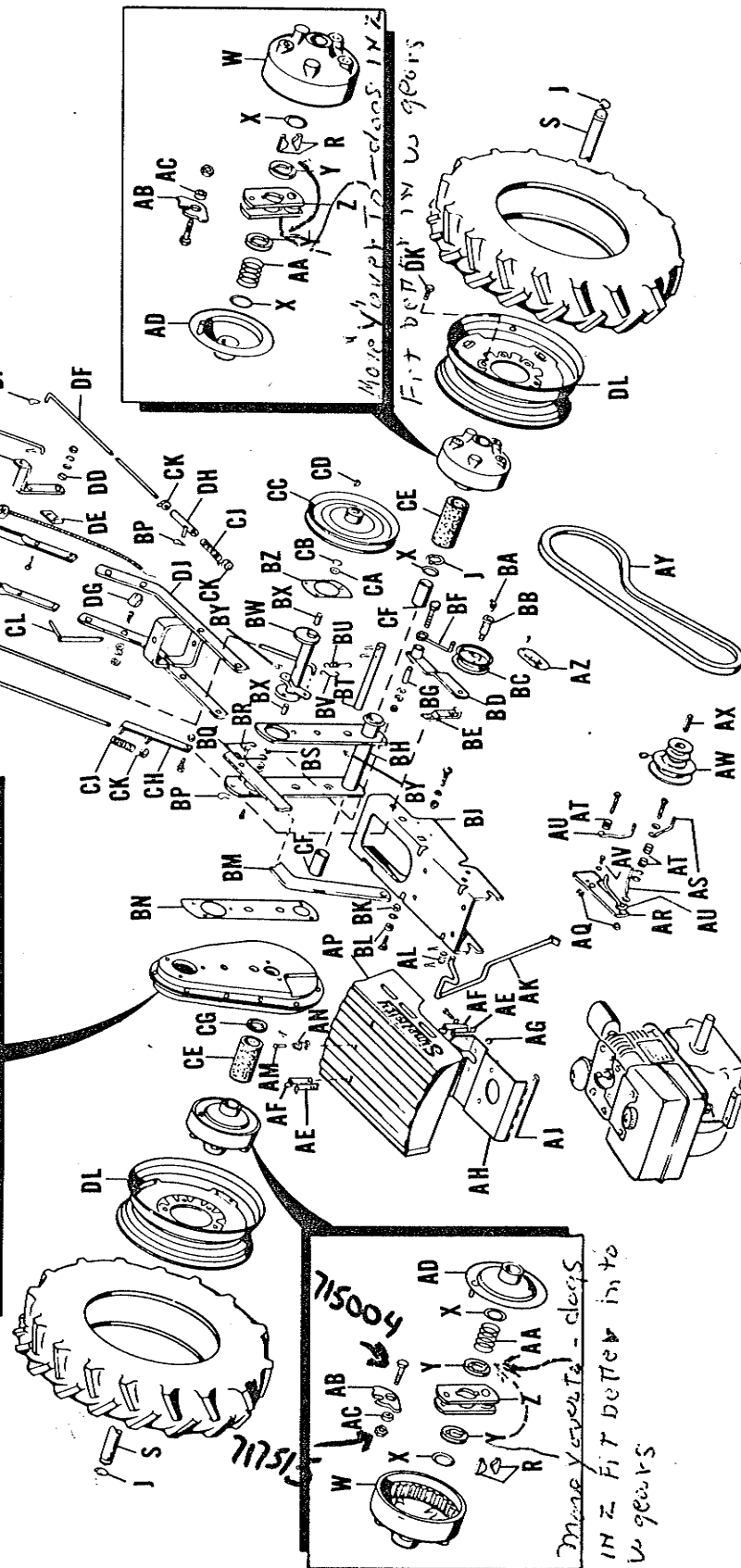
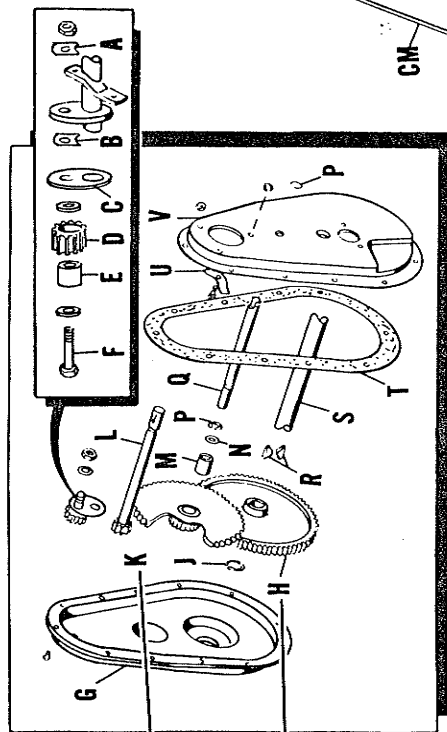
#### TWO FORWARD SPEEDS — See Fig. 2 and Fig. 3

The Model LC tractor has two forward speeds. Engine pulley position for these speeds are illustrated in Figures 2 and 3. Figure 2 illustrates the High Speed, recommended for all attachments except tiller. Notice in Figure 2 that the lock bar pin (U) is located in second hole from rear of lock bar (V). When changing to low speed, please refer to Figure 3. Remove Belt. Loosen engine pulley set screw (W), remove engine pulley,

(Continued on page 4)

Identification Groove

Beveled Edge for Identification



# PARTS LIST FOR MODEL "LC" TRACTOR

Order by Part Number

Ref. Letter	Part No.	Description	Weight	
			Lbs.	Oz.
A	121139	Lock Plate		3
B	121107	Spacer		3
C	153094	Shield		6
D	121118	Pinion, Reverse	2	
E	121163	Spacer		6
F	715033	Capscrew, L.H.		6
G	153106	Cover, Gear Case	3	
H	† See Below	Gear, Drive	5	
J	R-A63	Ring, Retainer - <i>815/163</i>		2
K	† See Below	Gear Assy., Intermediate (Available only as two gears, assembled)	7	8
L	121115	Pinion and Pulley Shaft Assy.	3	
M	153078	Bearing, Intermediate Pinion		6
N	153079	Washer		2
P	153124	Ring, Retainer		3
Q	153080	Shaft, Intermediate	1	
R	725501	Key, Hi-Pro, HP-608		4
S	153113	Axle	10	8
T	153115	Gasket, Gear Case		10
U	153095	Spring, Drag		6
V	153105	Case, Gear	3	
W	153039	Hub, Wheel	4	8
X	153088	Washer		4
Y	153077	Washer, Axle		4
Z	153051	Cage Assy., Ratchet	2	
AA	153093	Spring, Axle		6
AB	153002	Ratchet		8
AC	153081	Spacer		6
AD	153065	Cover Assy., Ratchet Cage	4	
AE	151048	Latch, Stub		10
AF	153008	Latch		5
AG	717513	Nut, Hex, Full, Lock, 1/4-20 N.C.		2
AH	153007	Bracket Assy. Hood	4	
AJ	153005	Pin, Hinge		4
AK	152011	Stand Assy.	2	6
AL	152006	Spring, Stand		6
AM	153006	Pin, Hood		4
AN	153010	Spring, Hood		3
AP	153018	Hood Assy.	7	8
AQ	717011	Nut, Hex, Jam, 5/16-18 N.C.		2
AR	153123	Holder, Belt Stop		8
AS	GS-A35	Stop, Belt - <i>818/1035</i>		3
AT	S2-A47	Spring - <i>819/1047</i>		2
AU	D-A73A	Stop, Belt - <i>812/1013</i>		8
AV	153026	Screw, Holder		8
AW	151038	Pulley, Engine	7	8
AX	S3-A42	Key, Engine Pulley - <i>812/1042</i>		2
AY	153091	V-Belt, <i>44" Gates 2440</i>	1	8
AZ	153151	Plate, Serial No.		6
BA	727004	Fitting, Grease, Alemite #1911		1
BB	F-A37	Pin, Idler Pulley - <i>815/1037</i>		10
BC	F-AX5	Pulley Assy., Idler - <i>815/1505</i>		12
BD	153069	Lever Assy., Idler	2	
BE	R-A28	Extension, Idler Lever - <i>815/1028</i>		6

Ref. Letter	Part No.	Description	Weight	
			Lbs.	Oz.
BF	D-A73A	Stop, Belt - <i>812/1013</i>		8
BG	G-A58	Spacer, Idler Lever - <i>816/1058</i>		6
BH	153108	Housing Assy., Axle	9	10
BJ	153118	Base	8	10
BK	717510	Nut, Hex, Full, Lock, 3/8-16 N.C.		2
BL	153073	Spacer, Lock Bar		6
BM	153119	Bar, Lock	2	8
BN	153114	Gasket, Bearing Housing		8
BP	S1-A45A	Clip, Spring - <i>816/1045</i>		2
BQ	153009	Handle		8
BR	153058	Pin, Lock		4
BS	717011	Nut, Hex, Jam, 5/16-18 N.C.		2
BT	153116	Pivot		8
BU	153121	Spring, Reverse Lever		8
BV	153011	Extension, Spring		6
BW	153044	Housing Assy., Bearing	3	10
BX	F-A38	Bearing - <i>815/1038</i>		5
BY	727002	Fitting, Grease, Alemite #1641		1
BZ	153097	Plate		10
CA	153079	Washer		2
CB	153124	Ring, Retainer		3
CC	153096	Pulley, Transmission	6	8
CD	725003	Key, Woodruff, #9		2
CE	153117	Tube, Rubber		10
CF	153089	Bearing, Axle		8
CG	G-A55	Washer, Retainer - <i>816/1055</i>		3
CH	GS-AX3	Clutch Rod, Guide Assy. - <i>818/1503</i>		14
CJ	S2-A45	Spring - <i>819/1045</i>		3
CK	S2-A22A	Collar, Set - <i>819/1022</i>		3
CL	G-AX2	Pin Assy., Hitch - <i>816/1502</i>	1	3
CM	153084	Rod, Clutch	1	2
CN	153083	Rod, Reverse	1	4
CP	153017	Grip, Reverse Rod		6
CQ	153085	Shaft, Lever		6
CR	153074	Guide, Reverse Rod		6
CS	D-AX7	Lever Assy., R.H. - <i>812/1507</i>	1	12
CT	D-A50	Ball, Clutch Lever - <i>812/1050</i>		8
CU	153040	Handle Assy.	12	
CV	153043	Grip, Handle		8
CW	G-A87	Control, Throttle - <i>816/1087</i>		8
CX	153087	Wire, Throttle		7
CY	153086	Cable, Throttle	1	
CZ	G-A108	Clip, Throttle - <i>816/1108</i>		4
DA	F-AX6	Lever Assy., L.H. - <i>816/1506</i>	1	12
DB	153082	Rod, Upper Idler	1	2
DC	D-A91	Lever, Lower Clutch - <i>812/1091</i>		
DD	S1-A215	Bushing - <i>816/1215</i>		4
DE	D-A121	Stop, Lever - <i>812/1121</i>		4
DF	151015	Rod, Lower Clutch	1	
DG	GA-117	Clamp, Cable - <i>816/1117</i>		6
DH	S1-AX18	Socket Assy., Rod <i>816/1518</i>		6
DJ	153014	Frame Assy.	10	
DK	SS-A100	Hub, Bolt - <i>816/1100</i>		3
DL	SSB23B	Wheel - <i>816/2024</i>	12	8

† If the drive gear "H" has a beveled edge, order part #153161. #121306 is the intermediate gear assembly "K" for use with this drive gear, and is identified by the groove around the circumference of the small gear of the assy.

If the drive gear "H" has no beveled edge, order part #153056. #121119 is the intermediate gear assembly "K" for use with this drive gear and is identified by the lack of a groove around the circumference of the small gear of the assy.

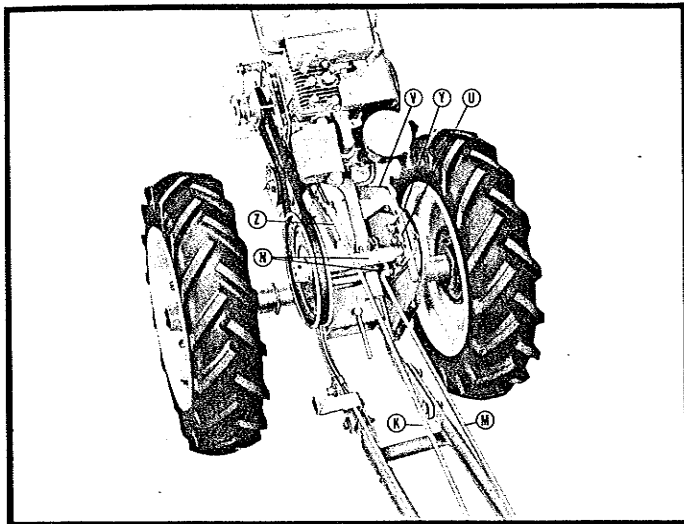


Fig. 2

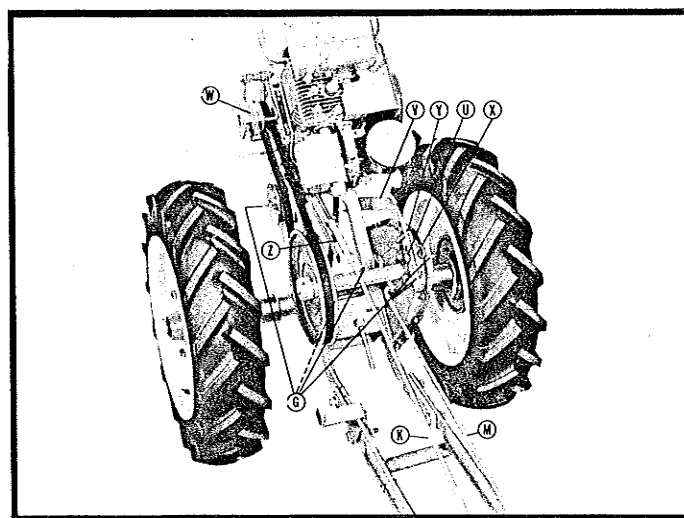


Fig. 3

turn it around and replace with large pulley to outside as shown in Figure 3.

Make visual alignment of engine, idler and transmission pulleys, then tighten engine pulley set screw.

Remove spring clip (X) and lock bar pin (U). Pull transmission slightly to the rear so that pin (U) will enter rear hole as shown in Figure 3. To facilitate this adjustment, a convenient handle (Y) is provided. Replace spring clip (X) to hold pin. Replace tractor drive belt.

After changing from one speed to another, adjust set collar on spring (Z) so spring is compressed approximately  $\frac{5}{8}$ " when clutch lever (T, Fig. 1) is pulled back over center. To avoid damaging belt, use minimum tension required to drive the tractor. To avoid creeping and to afford proper declutching of tractor, belt stops should be adjusted to  $\frac{1}{8}$ " of the belt when the belt is tight.

Miles per hour at rated RPM in each speed:

High .....	2
Low .....	1.5

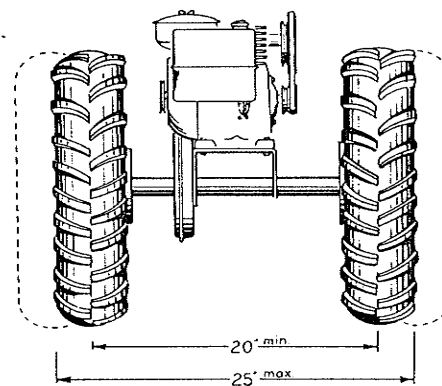
### LUBRICATION

The tractor but not the engine (see Engine Instruction Book) is fully lubricated and ready for use when received.

There are four high pressure grease fittings on the tractor, one grease fitting on the idler pulley, one on the main axle housing, one on the gear case and one on the bearing housing. **They are located in Fig. 3 and designated with letter (G).** Grease the idler pulley every 4 to 6 hours of use. Grease the main axle housing every 12 to 15 hours of use. The gear case housing will require a few shots of grease every 40 to 50 hours of use. Lubricate the bearing housing every 5 to 6 hours of operation with a general purpose semi-solid grease.

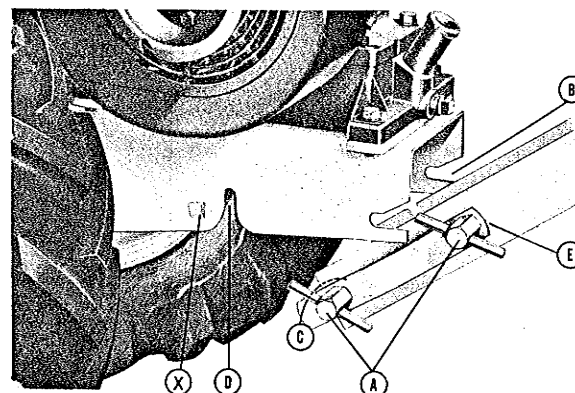
### TIRE PRESSURE

For shipping purposes, tractor tires are inflated to approximately 38 lbs. When tractor is assembled and ready for use, deflate tires to 8 to 10 lbs. of pressure.



### TREAD ADJUSTMENT

Above picture illustrates the position of the minimum and maximum width of the tractor wheels. To obtain maximum position, remove the hub bolts and wheel from the hub, and place on opposite side of the tractor. (Tire is lug type and proper setting of tire lug is necessary for cleaning. Be sure tires are mounted as shown in illustration).



### PATENTED QUICK-HITCH

All front attachments to the tractor use the patented Quick-Hitch shown above.

### INSTRUCTIONS FOR ATTACHING

After loosening T-nuts (A), push the tractor forward until slots (B) engage at (E) between the sideplates and hitch clamp on the attachment. Push down on the tractor handles until shaft (C) fits in slot (D). Tighten T-nuts (A). To remove attachment, loosen T-nuts (A) sufficiently so side plate can be pulled over catch (X) on side of frame.

JUN 1 1983

1 .. No.

121290

*Engine for Model "H" Tractor*



BRIGGS AND STRATTON MODEL 143302 ENGINE TYPE 502587.

GOVERNOR TOP SPEED SET 3900  $\pm$  100 NO LOAD.

EQUIPPED FOR REMOTE CONTROL WITH STOP SWITCH ON BOX.

REWIND STARTER MOUNTED AT 11 O'CLOCK.

ACCESSORY MOUNTING BOSS TAPPED.

OIL DRAIN ON P.T.O. AND FUEL TANK SIDE.

OIL FILLER ON CARB. SIDE AND FUEL TANK SIDE.

FUEL TANK 2-7/8" FROM END OF CRANKSHAFT EXTENSION.

OTHERWISE STANDARD.

PAINT - BLACK.

**SIMPLICITY MFG. CO.**  
PORT WASHINGTON, WIS.

**PART** ENGINE - 5-3/4 H.P.

**MAT.** Purch. REQD. ONE **DATE** 6/16/19

**DESIG'D BY** DWN. BY J.O.L.

1	WAS#502587	11-30-60	WAS TYPE	2	#502511	1-10-61	3		4	
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