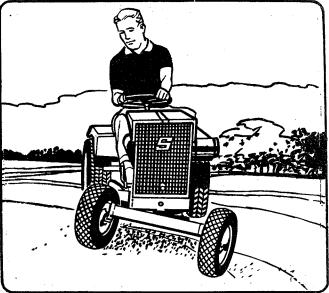
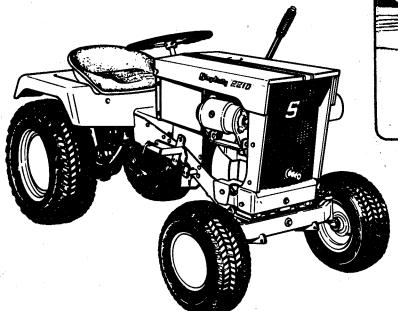
Simplicity





Mfrs. No. 568-3210 MANUAL LIFT Mfrs. No. 569-3210 POWER LIFT

LANDLORD

RIDING TRACTORS



12345678910

WARRANTY

The company warrants Simplicity Products to be free from defects in material and workmanship except the company makes no warranty express or implied with respect to tires, engines and engine accessories which generally are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year, under normal use, from date of purchase, will be replaced free of charge, f.o.b. Port Washington, Wisconsin, provided such part is returned to factory transportation charges prepaid and is found to be defective upon examination at the factory. The company is not obligated under this warranty to bear cost of labor or delivery charges in replacement of defective parts. This warranty does not apply to any Simplicity Products altered outside of Simplicity's factory. Such replacement of defective parts shall be the exclusive remedy and in no event shall Simplicity be liable for consequential damages. EXCEPT AS SPECIFICALLY PROVIDED HERE-IN, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON ANY SIMPLICITY PRODUCT.

Should warranty service be necessary, the information below should be presented to the authorized SIMPLICITY Dealer.

Customer's Name		
Address		
Mfg. No.	Serial No.	
Date Purchased		
Purchased From_		
Address		
	Serial No.	
To obtain replacement parts from	dealer, advise quantity,	part number and description.



PACKING

This tractor is delivered complete in one carton. The carton contains:

- 1 Tractor Assembly
- 1 Hood Assembly
- 1 Steering Wheel (secured to side of tractor)
- 1 Hardware Pack

Should any shortages of the above items occur, advise by stating packers number listed on green packing slip, serial number of tractor, part number and description of items missing.

ASSEMBLY

REAR LIFT GROUP

The Rear Lift Group is to be installed in the following manner:

- 1. Remove 3 hex capscrews from left side of tractor as shown in Figure 1.
- 2. Swing hitch member outward and install lift assembly as shown. Return hitch member to original position and replace hex capscrews. See Figure 2.
- 3. Insert right end of lift assembly into hole in right hitch member and position lift assembly so that collar is flush against right hitch member. Position collar on left side of lift assembly so it is flush against left hitch member. Tighten socket head setscrew with Allen wrench. See Figure 3.
- 4. Connect lift assembly to rear lift group. Secure with cotter pin. See Figure 3.
- 5. Adjust rear lift rod so that there is clearance between the gear case and the lift assembly when the lift lever is in the forward, latched position. Also adjust rod so that the lift assembly will strike the gear case before the lift lever strikes the air cleaner on engine when lift lever overtravels forward.

BATTERY

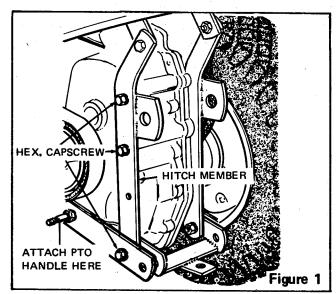
Remove battery from tractor. Service as stated in the battery instructions. Replace and secure battery in tractor.

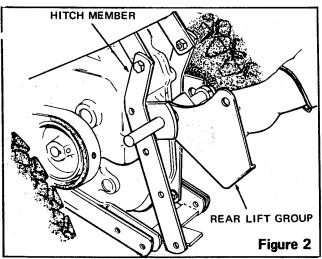
STEERING WHEEL

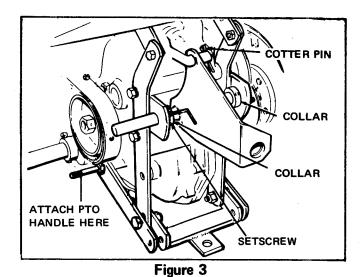
Remove steering wheel from side of tractor. Assemble steering wheel on the steering shaft using the woodruff key and setscrew which is provided in the hardware pack. Assemble steering cap over hub of steering wheel.

HOOD

Remove the hood assembly from its container. Mount hood on the tractor using the (4) thumb screws provided in the hardware pack.







ENGINE LUBRICATION

Service air cleaner and crankcase as recommended in Engine Service Manual. Be sure air cleaner is maintained in clean condition. Never use oil in crankcase for more than 25 hours of operation. See Figure 11. CLEAN AIR AND CLEAN ENGINE OIL WILL GIVE LONG TROUBLE FREE OPERATION. DIRT WILL RUIN YOUR ENGINE IN A SHORT TIME. A funnel and extension are included with the tractor for use in changing oil.

The bevel gear housing has a capacity of one pint of SAE 90 oil and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and oil seals for leakage. Keep oil up to lever of filler plug. See Figure 8.

TRACTOR LUBRICATION

The tractor has a total of 3 grease fittings which require lubrication with general purpose automotive grease. Use a standard grease gun for the following fittings:

- (2) Front Spindles Figure 4
- (1) Rear Axle Tube Figure 7

Before lubricating, wipe each grease fitting with a rag to prevent grit and dirt from being carried into bearings with new grease.

The transmission has a capacity of 1-1/2 qt of SAE 90 oil and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and axle tube oil seals for leakage. Maintain oil level at lower edge of filler plug hole. Remove vent plug from top of transmission and allow oil to settle to normal level before checking. See Figure 7.

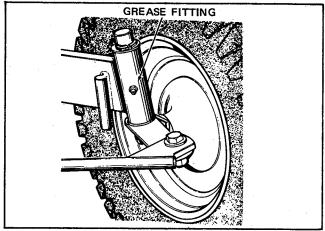


Figure 4

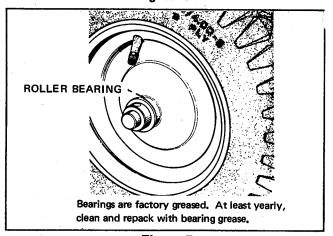


Figure 5

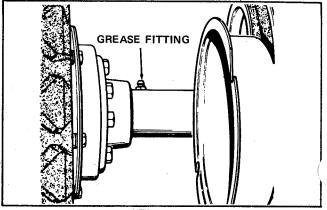
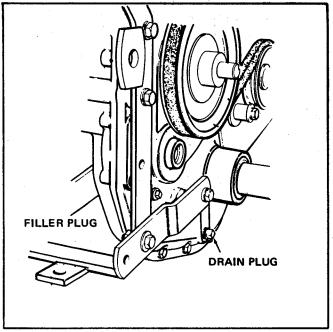


Figure 6





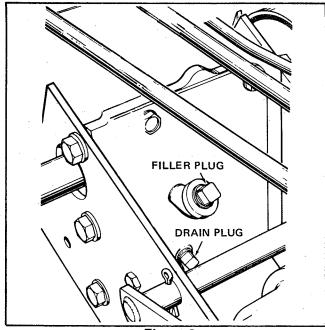


Figure 8

STARTING ENGINE

- 1. Place gear shift lever in neutral position. See Figure 9. (Be sure tractor is on level ground and will not roll away in neutral. Apply parking brake).
 - 2. Pull choke knob out. See Figures 9 & 10.
- 3. Set throttle lever in mid position and turn ignition key clockwise to start engine and release. See Figure 9. As engine warms up, push choke knob in. Pull throttle knob out to desired position and turn to lock.

TO STOP ENGINE

With clutch disengaged, place gear shift in any gear and turn ignition key counterclockwise to vertical (Off) position. Engage clutch to hold tractor in parked position and remove ignition key for safekeeping. Apply parking brake.

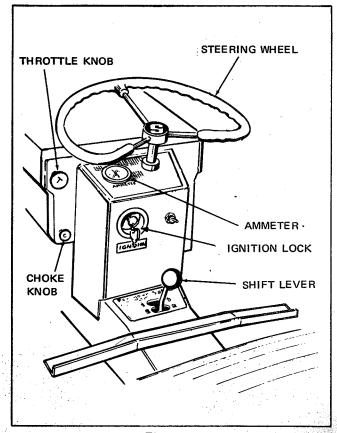


Figure 9

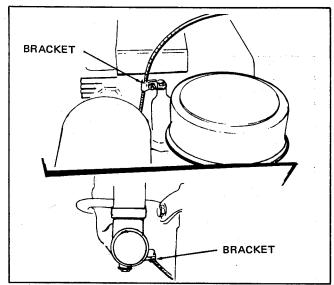


Figure 10

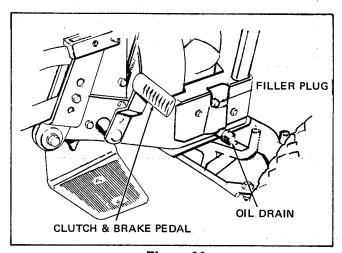


Figure 11

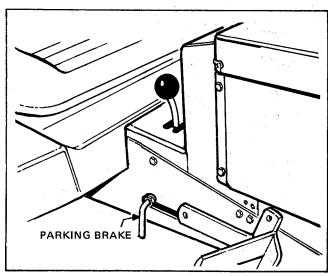


Figure 12

OPERATION OF TRACTOR

To place gear shift in desired gear range, depress the combination brake and clutch pedal located on right hand side of tractor. See Figure 11. When pedal is depressed, move shift lever to desired position (See Figure 9) and gradually release pedal until clutch is engaged. When shifting from one range to another, pause briefly in neutral before completing shift. Set throttle lever to obtain desired speed. See Figure 9.

PARKING BRAKE

To operate the parking brake, hold the brake pedal depressed and slide the parking brake lever all the way to the rear of its slot and turn the lever in a clockwise direction until it is tight. Refer to Figure 12.

To release the parking brake, turn the parking brake lever in a counterclockwise direction until the brake pedal is released.

CLUTCH ADJUSTMENT

Position the locknuts to leave a space of about 11/16" between them and the end of the rod guide.

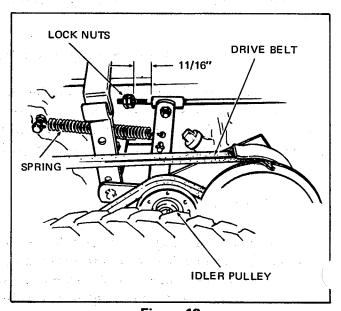


Figure 13

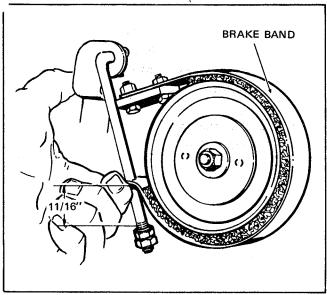


Figure 14



Pull the brake band up by hand so that it is tight around the brake drum. Adjust the nut to give a clearance of about 11/16" between the brake band and nut. Then check to see that the idler pulley releases the belt properly before the brake is applied. If the brake does not hold properly when the pedal is pushed all the way forward, reduce slightly the spacing between the nut and the brake band. Now recheck the clutch rod adjustment for proper idler release. Refer to Figure 14.

POWER TAKE-OFF

LUBRICATION

The power take-off is lubricated by means of one grease fitting located on the bottom front of the drive bracket assembly. Occasionally apply grease by means of a standard grease gun loaded with automotive type grease. Be sure to wipe dirt and grit from grease fitting before applying grease gun. Lubricate all pivot points and idler pulley bearings with SAE 20 oil every few hours of operation.

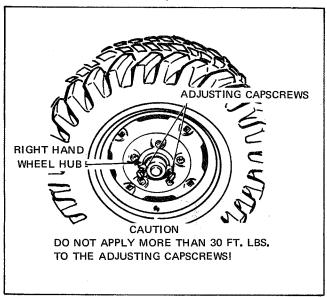


Figure 15

DIFFERENTIAL

The tractor is equipped with a controlled traction differential. Tightening the hex head capscrews in the right hand wheel hub (See Figure 15), provides pressure against a nylon plug and sleeve around the tractor axle and prevents excessive wheel slippage when the tractor is being used under abnormal conditions. The adjusting capscrews are set at the factory to a torque of 25 ft. lbs. As the nylon sets itself through use, it may be necessary to readjust the capscrews a few times to maintain 25 ft. lbs. of torque (25 lbs. weight on wrench 1 ft. long).

OPERATION

Operation of the power take-off is controlled by movement of the clutch lever assembly. See Figure 16. When the clutch lever is in the forward raised position, the clutch rod releases the tension holding the idler pulley against the drive belt and power will not be transmitted to the driven pulley of the power take-off assembly. When the clutch lever is in the back, depressed position, the clutch rod applies tension to the idler pulley and as the idler pulley takes up the slack in the drive belt, power is transmitted from the drive pulley on bevel gear box shaft to the driven pulley of the power takeoff. Figure 16 shows clutch lever in drive position.

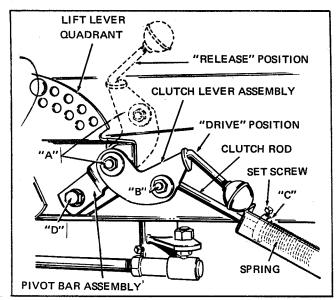


Figure 16

ADJUSTMENT

At points "A" and "B" of Figure 16, check tightness of hex nut to be sure that clutch lever assembly and clutch rod are free to pivot without binding.

Place clutch lever in "Drive" position and observe clearance between collar "C" (Figure 16) and end of bracket. When implement is attached to tractor, this clearance should normally be approximately 3/4". At this setting the idler pulley should be snugly against the drive belt. If additional tension is required, release clutch lever and loosen setscrew on collar and slide collar farther back on clutch rod. Retighten setscrew in collar and put clutch lever in "Drive" position. Recheck clearance. The tension of the idler pulley against the drive belt must be sufficient to operate whichever tractor attachment is being used. Any additional tension is unnecessary and will only cause premature failure of belts and idler pulley bearings.

TIRES

The tires of the tractor are inflated with air pressure in excess of the normal amount for shipment. For comfort of operation, release some of the pressure until a pressure of 10 to 12 lbs. per sq. in. for both front and rear tires. Maintain tires at this pressure.

OPERATION - POWER LIFT KIT

The Power Lift Kit which is an optional feature on the Landlord & Sovereign Tractors is used to raise and lower various attachments with finger-tip pressure applied to the control lever.

To raise a front mounted attachment, pull the power lift lever backward. When the desired height is reached, release the lever and it will return to the "hold" position. To lower a front mounted attachment, push the lever to the front, then release when desired depth is reached.

A rear mounted attachment is raised by pushing forward on the lever and is lowered by pulling the lever backward.

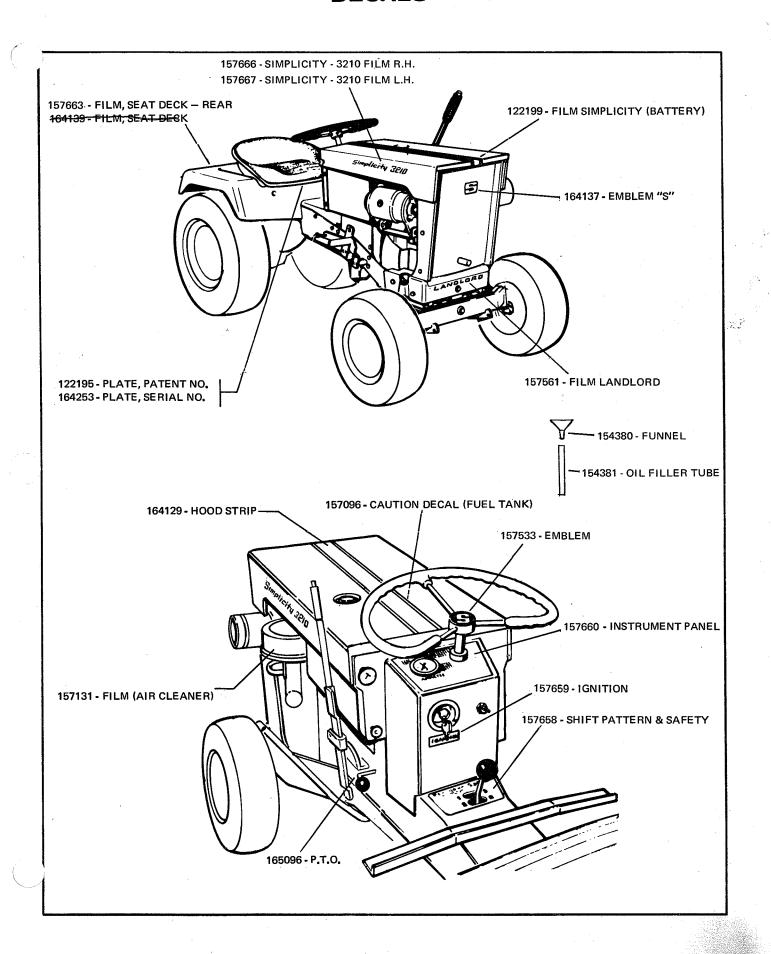
The index tabs at each end of the quadrant serve as lock points for the "float" position which allows an attachment such as a dozer blade, grader blade or snow thrower to follow ground contours freely.

NOTE

The Rear Mounted Tiller Attachment should be operated only in the rear "float" position. Do not operate the tiller in the "hold" position, as difficulty will result if an obstacle is encountered. This would raise the rear wheels off the ground and propel the tractor forward at a dangerous rate. To get in or out of either "float" position, squeeze the release bar handle upward to clear the index tab.

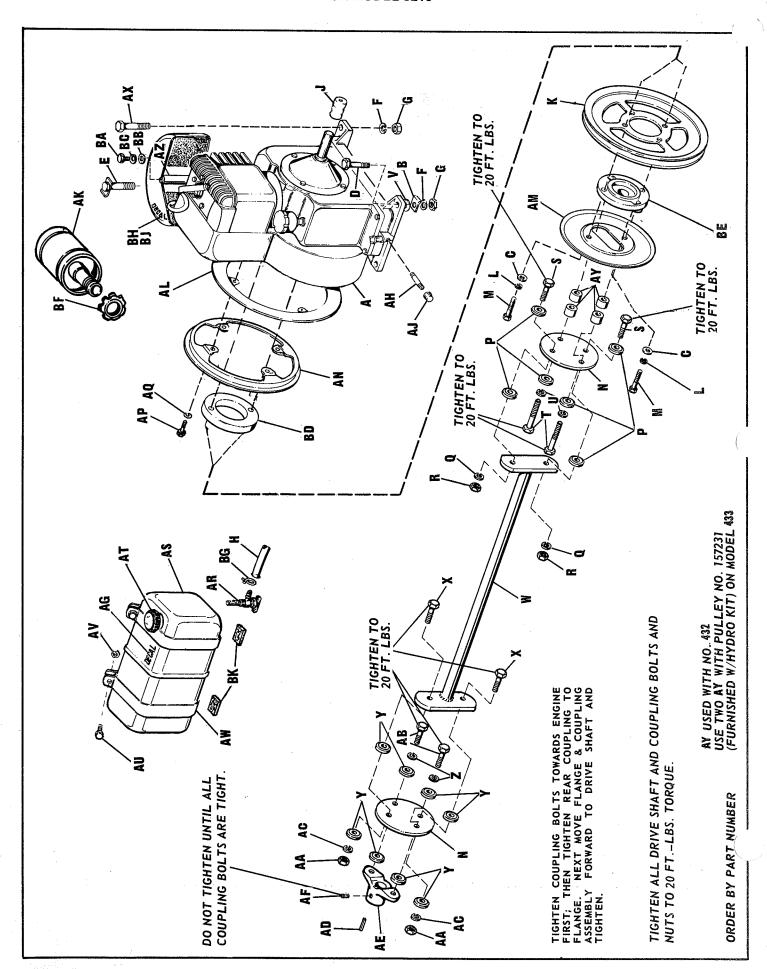
Front mounted attachments such as the snow thrower and dozer blade may be operated with the power lift lever in the "hold" position. However, downward pressure will be exerted on the attachment thus preventing the snow thrower or blade from following the contour of the ground.

DECALS



ENGINE AND DRIVE SHAFT

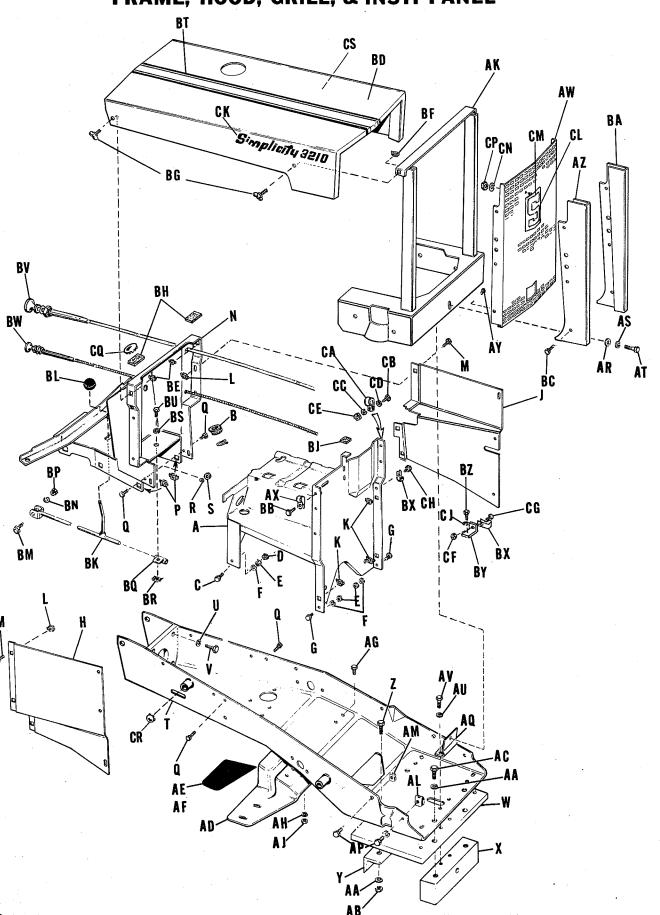
FOR MODEL 3210



ENGINE AND DRIVE SHAFT

Description	Cup Pt. Socket Hd. Set Screw,	Decal (CAUTION)	Pipe Nipple, 3/8" × 1"	Pipe Cap, 3/8"	Exhaust Muffler	Flywheel Shroud	Engine Screen	Shroud	Hex. Cap Screw, 1/4"-20 x 1/2"	Lock Washer, 1/4"	Shut-Off Valve	Fuel Tank	Fuel Tank Cap	Hex. Hd. Cap Screw, 1/4"-20 x 1 3/4	Full Hex. Nut, 1/4"-20	Tank Strap	Hex. Hd. Cap Screw, 3/8"-16 x 2"	Spacer	Air Cleaner Spacer	Hex. Hd. Cap Screw, 1/4"-20 x 5/8"	Plain Washer, 1/4"	Lock Washer, 1/4"	Flywheel Spacer	Drive Hub	Nut	Hose Clamp (For Service Only)	Gasket	Film (Air Cleaner)	Gasket
Part No.	715049	157096	157497	726501	157634	157099	157308	157306	705002	720003	156176	157006	156175	705053	717005	162060	705006	157081	157126	715018	719006	720003	157355	157307	154378	154372	106582	157131	106582
Ref. Let.	AF	AG	АН	₹	AK	AL	ΑM	AN	AP	AQ	AR	AS	AT	AU	<u>۸</u>	ΑW	¥	۸≺	AZ	BA	BB	gc	BD	BE	BF	BG	ВН	B	BK
Description	Engine, Briggs & Stratton Model 243431, Type 0123	Stop Axle	Plain Washer, 5/16"	Hex. Cap Screw, 3/8"-16 x 1 3/4"	Rect. Hd. Screw	Lock Washer, 3/8"	Full Hex. Nut, 3/8"-16	Fuel Hose (Flexible)	Crankshaft Extension Guard	Engine Pulley	Lock Washer, 5/16"	Hex. Cap Screw, 5/16"-18 x 2"	Coupling	Special Washer	Lock Washer, 3/8"	Full Hex. Nut, 3/8"-16	Hex. Cap Screw, 3/8"-16 x 1 1/4"	Hex. Hd. Cap Screw, 3/8"-16 x2"	Lock Washer, 3/8"	Plain Washer, 3/8"	Drive Shaft Assembly	Hex. Cap Screw, 3/8"-16 x 1 1/4"	Special Washer	Lock Washer, 3/8"	Full Hex. Nut, 3/8"-16	Hex. Cap Screw, 3/8"-16 x 1 1/4"	Lock Washer, 3/8"	Key	Drive Shaft Flange
Part No.		57144	719002	705010	170277	720002	717003	157316	154327	157305	720001	715068	157422	57424	720002	717003	705016	705006	720002	719001	157016	705016	157424	720002	717003	705016	720002	157427	154198
		_			_				_	_	_		_			_			_				-			, -			

FRAME, HOOD, GRILL, & INST. PANEL



FRAME, HOOD, GRILL, & INST. PANEL

Ref.	Part No.	Description
Let.		
	404000	
A	164003	Support Assembly, Fuel Tank &
В	157077	Battery
C	705019	Steering Bushing
D	703019	Hex. Cap Screw, 5/16"-18 x 1 1/4" Full Lock Hex. Nut, 5/16"-18
E	717001	Full Hex. Nut, 5/16"-18
F	720001	Lock Washer, 5/16"
G	705012	Hex. Cap Screw, 5/16"-18 x 5/8"
H	164014	R.H. Side Panel
J	164013	L.H. Side Panel
K	718032	Nut Retainer
L	718043	Nut Retainer
М	715018	Hex. Cap Screw, 1/4"-20 x 5/8"
N	164259 ¬	Inst. Panel Assembly /64232
P	718032	Nut Retainer (Frame Cover)
0	715018	Hex. Cap Screw, 1/4"-20 x 5/8"
R	720003	Lock Washer, 1/4"
s	717005	Full Hex. Nut, 1/4"-20
T .	164010	Frame Assembly
U	720006	Lock Washer, 7/16"
V	705039	Hex. Cap Screw, 7/16"-14 x 1 1/2"
W	157057	Base Weight
X	157060	Front Support, 1 3/4" x 2 1/2" x 8 5/8"
Y	157482	Angle Assembly (Frame Rear)
Z	715080	Hex. Cap Screw, 7/16"-14 x 1 1/2"
AA	720006	Lock Washer, 7/16"
AB	717022	Full Hex. Nut, 7/16"-14
AC	706003	Hex. Cap Screw, 7/16"-20 x 1 1/2"
AD	157065	Foot Rest
AE	157090	L.H. Foot Rest Pad
AF	157089	R.H. Foot Rest Pad
AG	705004	Hex. Cap Screw, 3/8"—16 x 3/4"
AH	720002	Lock Washer, 3/8"
AJ	717003	Full Hex. Nut, 3/8"-16
AK	164008	Cover & Jube Assembly
AL	718022	Retainer Nut (Front)
AM	718030	Retainer Nut (Rear)
AP	715082	Nut-Hex., Whiz-Lock Flange, 5/16"- 18 x 3/4"
AQ	157488	Bracket Assembly
AR	719002	Plain Washer, 5/16"
AS	720001	Lock Washer, 5/16"
AT	705019	Hex. Cap Screw, 5/16"-18 x 1 1/4"
AU	720001	Lock Washer, 5/16"
AV	705018	Hex. Cap Screw, 5/16"-18 x 1 1/2"
AW	164009	Grille

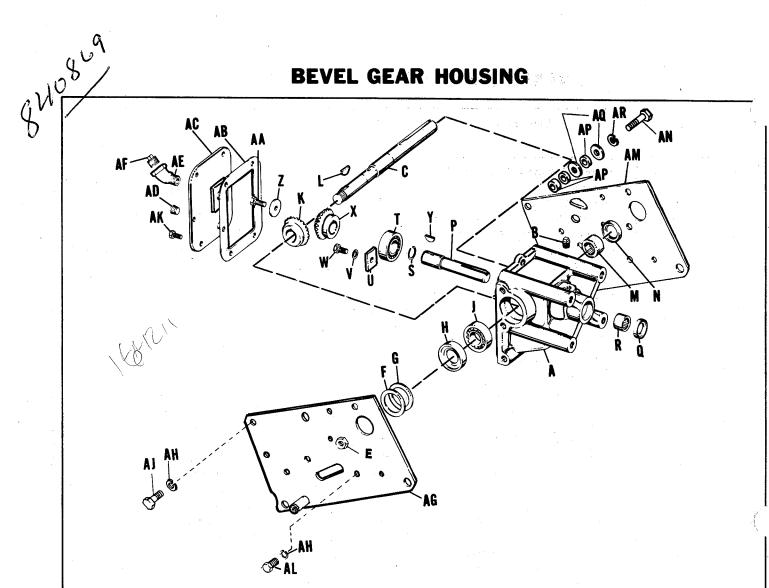
Ref. Let.	Part No.	Description
Let.		
AX	122195	Clamp
AY	714003	Self Tapping Screw, 10 x 1/2"
ΑZ	164028	R.H. Side Plate
BA	164027	L.H. Side Plate
BB	714005	Self Tapping Screw, 10-24 x 1/2"
BC	714003	Self-Tapping Screw, 10 x 1/2"
BD	164011	Hood
BE	718041	Nut Retainer (Rear)
BF	718024	Nut Retainer (Front)
BG	715037	Thumb Screw
ВН	164120	Felt Pad
BJ	164121	Felt Pad
BK	164118	Shifter Rod Assembly
BL	164180	Ball
вм	705018	Hex. Cap Screw, 5/16"-18 x 1 1/2"
BN	720001	Lock Washer, 5/16"
BP	717001	Full Hex. Nut, 5/16"-18
BQ	157020	Shift Rod Guide Assembly
BR	718032	Retainer Nut
BS	720003	Lock Washer, 1/4"
вт	164129	Hood Strip
BU	715018	Hex. Cap Screw, 1/4"-20 x 5/8"
BV	164042	Throttle Control
BW	164019	Choke Control
BX	158475	Bowden Wire Clip
BY	157315	Throttle Cable Bracket
BZ	714021	Self Tapping Screw, 1/4"-20 x 5/8"
CA	122186	Clamp
СВ	705015	Hex. Cap Screw, 1/4"-20 x 5/8"
CC	720003	Lock Washer, 1/4"
CD	719006	Plain Washer, 1/4"
CE	717005	Full Hex. Nut, 1/4"-20
CF	717007	Full Hex. Nut, 10-32
CG	710004	Mach. Rd. Hd. Screw, 10-32 x 3/8"
CH	714005	Self Tapping Rd. Hd. Screw, 10-24 x 1/2
CJ	720003	Lock Washer
CK	157666	Simplicity & No. 3210 Film R.H.
CL	164135	Plate, Assembly
СМ	164137	Emblem "S"
CN	720007	Washer Lock
СР	717023	Hex. Nut, 10-24
CO	164191	Plug Button
CR	156279	Plug Button
CS	157667	Simplicity & No. 3210 Film L.H.
		·

DECALS

157658	Film, Shift Pattern
157659	Film, Ignition
157660	Film, Instrument Panel
157662	Film, Emblem, Landlord

	165096	Film, P.T.O.	
	121195	Plate, Patent No.	
	164253	Plate, Serial No.	
,			

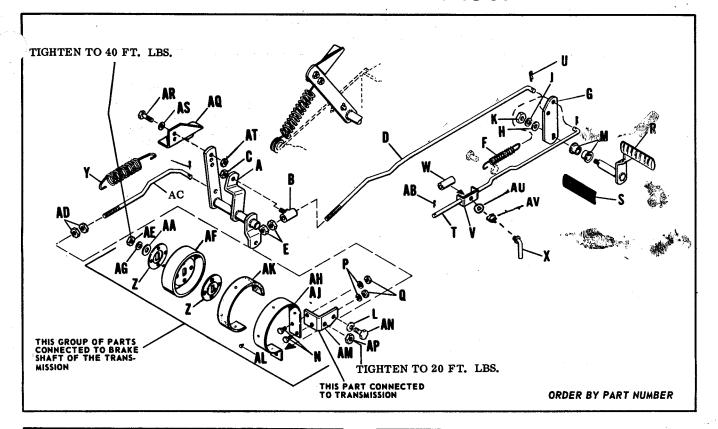
BEVEL GEAR HOUSING



Ref. Let.	Part No.	Description
A	154062	Bevel Gear Housing, W/Bearings
B	154326 164114	Pipe Plug Drive Shaft
E	717517	Hex Jam Nut
F G	154137 154138	Shim (As Required) Shim
H	157669	Oil Seal
J	118011	Ball Bearing
K	154139	Bevel Driven Gear
L	725003	Key
M	154279	Needle Bearing
N	118117	Oil Seal
P	157426	Driven Shaft
Q	154263	Oil Seal
R	154258	Needle Bearing
S	118134	Retaining Ring
T	118011	Ball Bearing
U	154040	Bearing Clamp Plate
v	720001	Lock Washer, 5/16"

Ref. No.	Part No.	Description
w	705012	Hex Capscrew, 5/16"-18 x 5/8" lg.
X	154121	Bevel Driven Gear
Y	725003	Key
Z	154026	Washer
AA	154281	Hex Capscrew, 5/16"-18 x 3/4" lg.
AB	154282	Gasket
AC	164249	Housing Cover Assembly
AD	726002	Pipe Plug
AE	728501	Street Elbow
AF	726003	Pipe Plug
AG	164177	R. H. Side Plate
AH	720006	Lock Washer, 7/16"
AJ	705041	Hex Capscrew, 7/16"-14 x 1" lg.
AK	707003	Hex Capscrew, 1/4"-20 x 5/8" lg.
AL	705042	Hex Capscrew, 7/16"-14 x 1-1/4" lg.
AM		L. H. Side Plate
AN	705064	Hex Capscrew, 7/16"-14 x 2" lg.
AP-	157168	Spacer
AQ	719003	Washer, 7/16"
AR	720006	Lock Washer, 7/16"

CLUTCH AND BRAKE GROUP



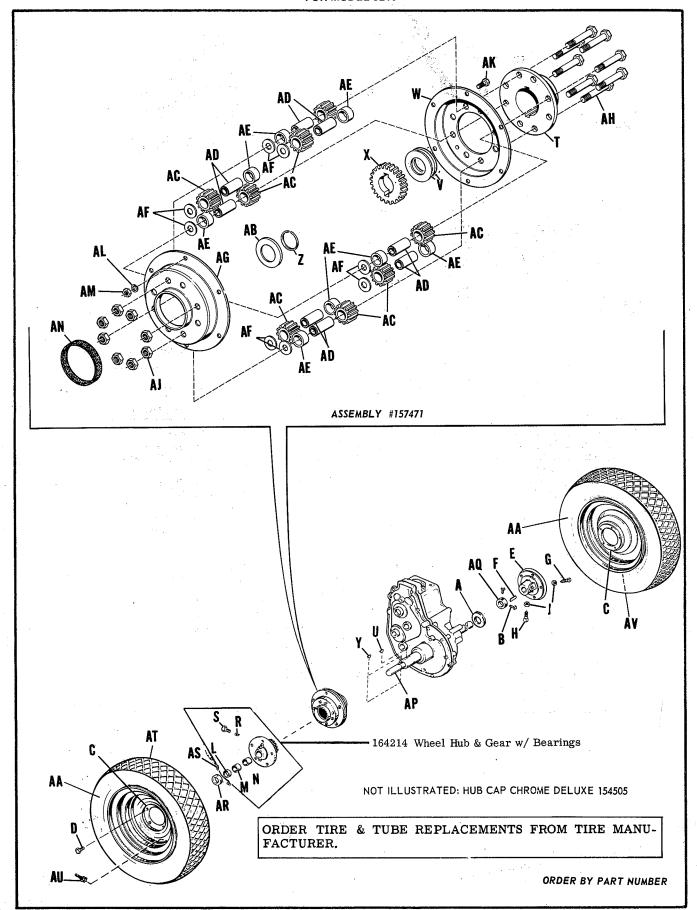
Ref. Let.	Part No.	Description
Let. A B C D E F G H J K L	No. 164089 164094 717511 164096 717001 159106 157300 719001 720002 717003 720002	Pivot Lever Assembly Rod Guide Assembly Hex Lock Nut, 5/16"-18 Brake and Clutch Rod Hex Nut, 5/16"-18 Tension Spring Foot Pedal Arm Washer, Plain, 3/8" Lock Washer, 3/8"" Hex Nut, 3/8"-16 Lock Washer, 3/8"
M N P Q R S T U V W X Y	108419 705030 720003 717005 170304 162098 164210 722009 164143 157287 164142 164213	Bushing Hex Capscrew, 1/4"-20 x 3/4" lg. Lock Washer, 1/4" Hex Nut, 1/4"-20 Foot Pedal Assembly Pedal Pad Parking Brake Rod Cotter Pin, 1/8" x 3/4" lg. Parking Brake Bracket Assy. Spacer Parking Brake Lock Tension Spring

Let. No. Description	Ref. Let.
Z 158196	AA AB AC AD AE AG AH AJ AK AL AM AN AP AQ AR AS AT AU

REAR WHEELS AND AXLE

20日後越上海線臺上到的開始

FOR MODEL 3210



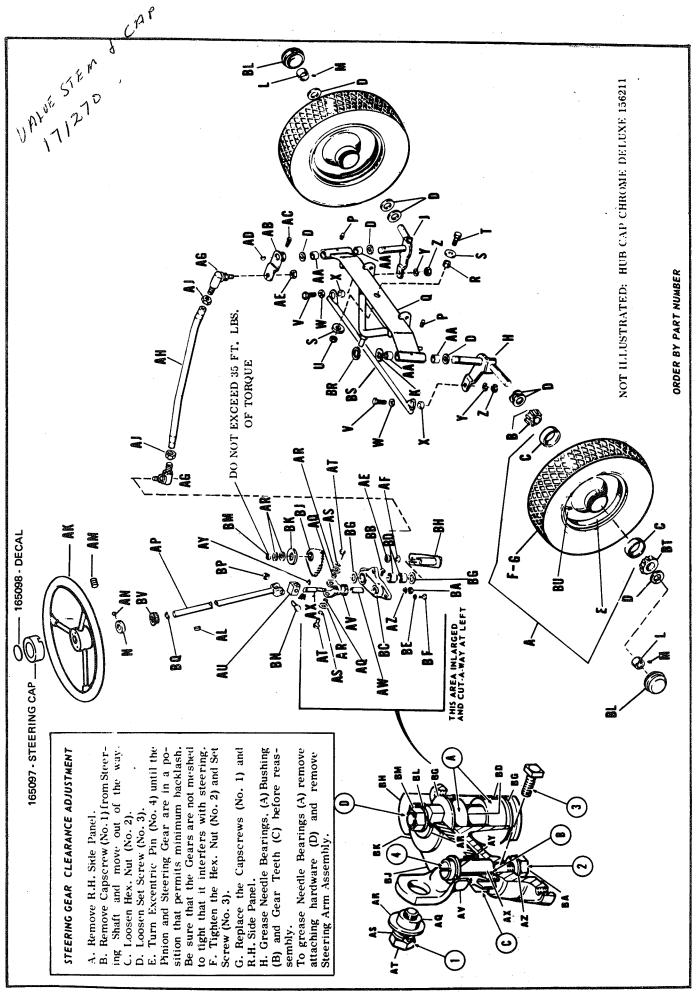
REAR WHEELS AND AXLE

Ref. Let.	Part No.	Description
Α	105050	Washer
В	713002	Set Screw, 5/16"-18 x 3/8" Lg.
С	170278	Wheel Drive
D	8261100	Hub Bolt
E	154208	L.H. Wheel Hub
F	159129	Key
G	715022	Set Screw, 3/8"-16 x 1 1/2" Lg.
Н	713004	Set Screw 3/8"-16 x 1" Lg.
J	717021	Hex. Jam Nut, 3/8"-16
L	105058	Bearing
М	152041	Nylon Bearing
N	153068	Bearing
R	152042	Nylon Plug
s	713508	Control Traction Bolt, 7/16"-20 x 1/2" Lg.
_	164217	Differential Carrier
lυ I	157120	Drive Key
V	154035	Axle Washer
l w	164218*	Differential Cover
X	164219	Differential Gear
Y	725501	Hi-Pro Key
z	154291	Retaining Ring
AA	157602	Tube (For Service Only)
AB	154277	Axle Washer
AC	121311	Differential Pinion 157579
AD	121083	Pinion Differential Spindle
AE	121084	Differential Spacer
AF	719002	Plain Washer
AG	164220*	Differential Cover
АН	715043	Hex. Cap Screw, 3/8"-16 x 2 1/2"
AJ	717510	Full Lock Hex. Nut, 3/8"-16
AK	705015	Hex. Cap Screw, 1/4"-20 x 5/8"
AL	720003	Lock Washer, 1/4"
AM	717005	Full Hex. Nut, 1/4"-20
AN	121190	Differential Cover Seal
AP	164221	Rear Axle
AQ	154065	Axle Collar
AR	154065	Axle Collar
AS	713002	Set Screw, 5/16"-18 x 3/8"
AT	157024	Tire
AU	157029	Valve Stem
AV	170279	Wheel & Tire Assy.

- CAUTION -

DO NOT EXCEED 25ft. POUNDS OF TORQUE ON PART NUMBER 713508, REFERENCE LETTER (S), CONTROL TRACTION BOLTS.

^{*} Reference letters "W" and "AG" must be replaced in pairs.

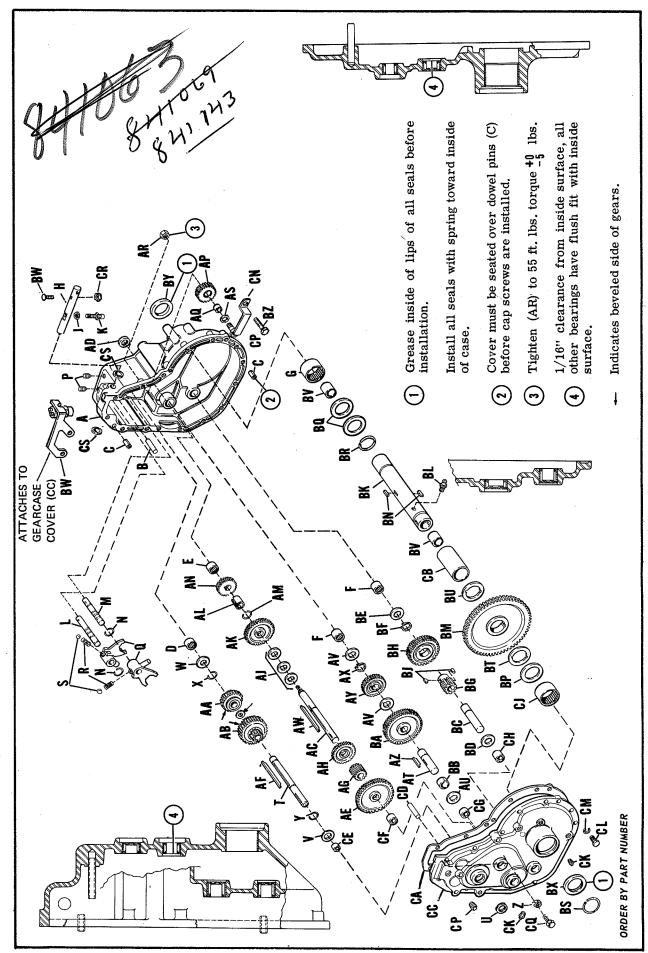


TRONT WHEES, AXIE, THE ROD & STERRING

FRONT WHEELS, AXLE, TIE ROD & STEERING

Description	Whool on Tiro Account	Wiled and The Assembly	Bearing Cone w/seal	Bearing Cup	Washer	Wheel w/Bearing Cup	Tire	Tube	Spindle Assembly, R.H.	Spindle Assembly, L.H.	Washer	Set Collar	Cup Point Socket Head Set Screw,	5/16"-18 x 5/16" Lg.	Set Collar	Grease Fitting	Axle Assembly, Front	Spacer	Plain Washer, 1/2"	Hex. Cap Screw, 1/2"-13 x 3 1/4" Ig.	Full Lock Hex. Nut, 1/2"-13	Hex. Cap Screw, 3/8".16 x 1 1/4" Lg.	Plain Washer, 3/8"	Spacer	Lock Washer, 3/8"	Full Hex. Nut, 3/8"-16	Bearing	Arm Assembly, Steering, L.H.	Screw, Set Cup Point, Square Head,	5/16 - 18 × 1/2 · Lg.	Key	Full Hex. Lock Nut, 1/2"-20	Lock Washer, 1/2"	Ball Joint	Tie Rod	Nut, 1/2"-20 N.F.	Steering Wheel	Woodruff Key No. 9
Part No.	154205	104590	154397	154393	108181	154427	153037	153038	157494	157611	8061012	8021010	713503		8021010	727001	157616	157618	719004	705037	717518	705016	719001	154177	720002	717003	154289	157613	713006	.	157427	717528	720004	164272	164271	717016	157702	725003
Ref. Let.	<	((m	ပ	۵	ш	· LL.	9	I	-	¥	ب	Σ		z	۵	o	œ	S	-	_	>	*	×	>	. 2	ΑA	AB	AC		AD	AE	AF	AG	AH	¥	ΑK	A

	Set Screw,	18".18	0 - 0					, Lg.																										
Description	Socket Head Cup Point Set Screw,	5/16"-18 × 5/16" Lg. Socket Head Set Seraw, 5/16", 19	x 1/4" Lg.	Steering Shaft Assembly	Spacer	Plain Washer, 3/8"	Lock Washer, 3/8"	Hex. Cap Screw, 3/8"-16 x 3/4" Lg	Universal Joint Pin	Bushing Assembly	Bushing	Pin Eccentric	Retainer Ring	Lock Washer 3/8"	Full Hex. Nut, 3/8"-16	Sq. Hd. Set Screw, 1/4"-20 x 3/4"	Steering Bracket	Needle Bearing	Lock Washer, 5/16"	Hex. Cap Screw, 5/16"-18 x 5/8"	Washer	Steering Arm Assembly	Gear Steering	Arbor Washer	Hub Cap	Gripco Center Lock 7/16"-14	Hex Cap Screw	Full Hex. Nut, 5/16"-18	Snap Ring	Retaining Ring	Drag Link	Outside Bearing	Steering Bushing	
Part No.	713503	713502	700017	157259	153081	719001	720002	715030	154153	157254	157258	157253	158399	720002	717003	713012	157302	154258	720001	705012	8061012	164263	164235	108182	154487	717519	715026	717511	154264	157286	157499	154486	157077	
Ref. Let.	AM	NA	Ž	AP	ΑQ	AR	AS	AT	ΑO	Α	ΑW	¥	¥	AZ	BA	88	ည္ထ	80	8E	8F	<u>8</u>	ВН	<u>a</u>	¥ :	BL	BM	BN	ВР	B0	BB	BS	ВТ	BV	



FOR MODEL 3210

TRANSMISSION GROUP

																			- 444	تتنويها ا																				
Descriptio	Needle Bearing Pipe Plug, 3/8"	Hex. Cap Screw, 5/16"-18 x 1"	Lock Washer, 5/16"	Rev. Gear Pin Assembly	Pipe Plug, 3/8"	Hex. Cap Screw, 5/16"-18 x 1 1/4"	Hex Jam Nut, 5/16"-18	Washer		٠																					· Carre			-						
Part No.	157520 726003	700507	720001	154352	726003	705019	717011	154462																							2									-
Ref. Let.	3 5	ر ا	S	S	g S	g	CR.	હ						•																		<u> </u>			earings					
Description	Lock Nut, 1/2"-20 N.F.	wasilei Shaft, 2nd. Intm.	Washer	Washer	Key	Retaining Ring	Pinion, 2nd. Intm.	Key	Gear, 2nd. Intm.	Spacer	Shaft, 3rd. Intm.	Washer	Washer	Retaining Ring	Pinion, 3rd. Intm.	Gear, 3rd. Intm.	Key Woodruff	Axle Tube w/bushing	Grease Fitting	Drive Gear	Key	Washer	Washer	Snap Ring	Snap Ring	Axle Tube Washer	Axle Tube Washer	Bearing	Carriage Bolt, 5/16"-18 x 1"	Seal	Seal	Hex. Cap Screw, 3/8"-16 x 1 1/4"	Gear Case Gasket	Axle Tube Spacer	Gear Case Cover, Complete w/Bearings	Roll Pin	Ball Bearing	Needle Bearing	Needle Bearing	Needle Bearing
Part No.	717516	154086	154038	154038	154354	154266	164062	154267	154089	154090	154091	154038	154038	154266	154092	164051	725002	164223	727002	154095	154096	154097	154097	154268	154268	154130	154130	164224	703010	154269	154269	705016	164234	154098	164226	154537	108202	154257	154271	154259
Ref. Let.	AR	¥ ¥	AU	۸۷	ΑW	ΑX	AY.	AZ	BA	88	ဥ္ထ	80	8 E	BF	BG	ВН	BJ	BK	BL	₩ W	BN BN	ВР	ВО	BR	BS	ВТ	BU	BV	BW	BX	ΒY	BZ	CA	CB	ပ္ပ	00	CE	CF	95	ᆼ
Description	Case, Gear, Complete w/bearings and	dowel pins (Includes B third G / Roll Pin	Roll Pin	Needle Bearing	Needle Bearing	Needle Bearing	Needle Bearing	Shift Rod	Shift Stem	Full Hex. Nut, 3/8"-24 N.F.	Shifter Shaft Rev., Med.	Shifter Shaft High, Low	Retaining Ring	Set Screw, Hollow Hd.Cone Pt.,	5/16"-18 × 1/2"	Shift Fork	Spring	Shift Lock Ball	Pulley Shaft	Flinger	Retaining Ring	Switch Support	Oil Seal	Retaining Ring	Hex. Nut Jam, 5/16"-18	Pinion Assembly Rev. II	Pinion Assembly I and III	Shaft, 1st Intm.	Oil Seal	Driven I, Gear	Key	Pinion, 1st Intm.	Pinion, Driven, III	Trans. Gear Spacer	Driven II Gear	Spacer	Retaining Ring	Reverse Pinion	Reverse Gear	Rev. Gear Spacer
Part No.	157516	154538	723007	154257	154258	154259	157519	164250	154261	717010	154067	154068	8061048	715019	•	154069	154323	154262	164293	164060 \	154264	164251	157619	118134	717011	154072	154075	157290	154263	154078	164294	154079	154080	8061012	154081	154082	154264	154083	154087	154084
Ref.	4		. U		ш	u.	_o	<u> </u>		×	_	Σ	z	۵		ð	œ	S	<u>⊢</u>		<u> </u>	≥	×	-	7	¥	AB	AC	AD	AE	AF	AG	ΑH	4	AK	AL	PΑ	AN	AP	AQ

ELECTRIC STARTER-GENERATOR SYSTEM

ELECTRIC STATER-GENERATOR SYSTEM

Wire Clamp (Generator Cable)

122195

Harness Assembly

Speed Clip

Solenoid

122216

717005

165073

164256

Fuel Tank Insulation

Description

Part No.

Ref. Let.

Lock Washer, ext. No. 10 Rd.Hd.Screw 10-24 x 1/2"

Lock Washer Int. 9/16"

Film (SIMPLICITY)

122199

718042

Hex Nut - Special

122235

Keys

122203

Lock Washer, 1/4"

720003

122174

170321

Wing Nut

Battery Bracket

"J" Bolt

Clip Fuse

122183

Wire (Ground to Ground)

Full Hex. Nut, 10-32

Fuse, 20 AMP

122172 717007

Ammeter

Full Hex. Nut, 1/4"-20

Starter Switch w/Keys

Safety Switch

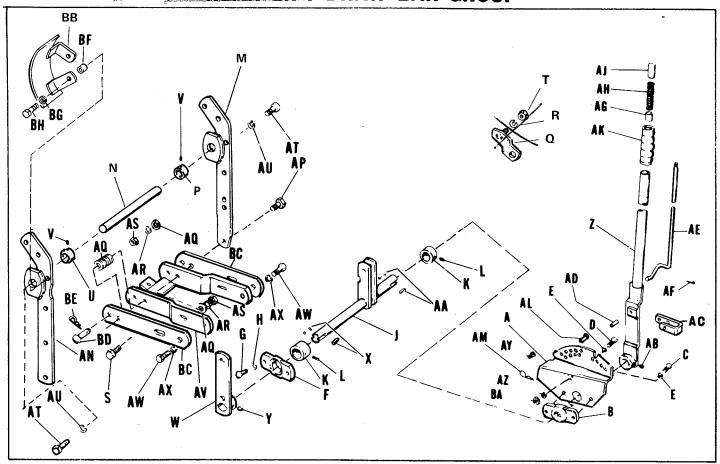
122233

122201

122147

721003 714005 721509 ** FOR SERVICE CONTACT YOUR LOCAL UNITED MOTOR SERVICE DEALER (DELCO-REMY)

REAR LIFT DRAW BAR GROUP

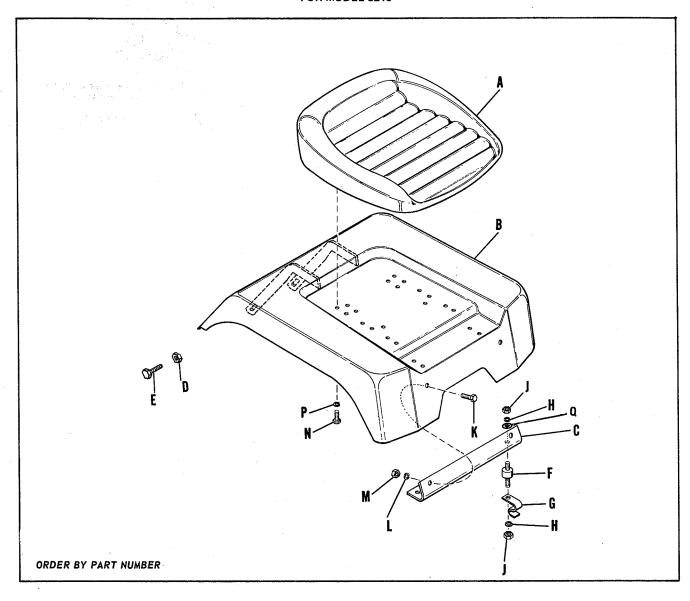


Ref.	Part No.	Description
Let.		
А	154209	Lift Lever Quadrant
В	157620	Lift Lever Bearing
С	705031	Hex. Cap Screw, 3/8"-16 x 7/8"
D	705016	Hex. Cap Screw, 3/8''-16 x 1 1/4''
Ε	720002	Lock Washer, 3/8''
F	15 762 0	Lift Lever Bearing
G	705031	Hex. Cap Screw, 3/8''-16 x7/8''
H	720002	Lock Washer, 3/8''
J	157640	Lift Shaft Assemlby
K	157624	Set Collar
L	713503	Set Screw, 5/16"-18 x 5/16"
M	164304	Arm Assembly
N	154216	Lift Shaft
Р .	157695	Set Collar
ο .	154362	Pivot Bar Assembly
R	719001	Plain Washer, 3/8"
S	705047	Hex. Cap Screw, 7/16"-14 x 1 3/4"
T	717510	Hex. Nut, 3/8"-16
U	8021010	Set Collar
V	713503	Set Screw, 5/16"-18 x 5/16"
W	157625	Front Lift Lever Assembly
X	157120	Key
Y	713502	Set Screw,
Z	157696	Lift Lever Assembly
AA	157652	Key
AB	713502	Set Screw, 5/16"-18 x 1/4"
AC	157700	Lift Lever Latch
AD	723007	Roll Pin
1	1	T

Ref. Let.	Part No.	Description
ΑE	157701	Latch Rod
AF	722001	Cotter Pin, 3/32" x 3/4"
AG	154226	Spacer Spacer
АН	152006	Spring
AJ	154227	Thumb Button
AK	156209	Handle Grip
AL	153058	Pin
AM	8161045	Spring Clip
AN	164284	Arm Assembly
AP	705039	Hex. Cap Screw, 7/16"-14 x 1 1/2"
ΔQ	719001	Plain Washer, 3/8"
AR	72 160 1	Lock Washer
AS	717022	Full Hex. Nut, 7/16"
AT	705041	Hex. Cap Screw, 7/16"-14 x 1"
AU	720006	Lock Washer, 7/16"
ΑV	154202	Draw Bar Assembly
AW	705042	Hex. Cap Screw, 7/16"-14 x 1 1/4"
AX	720006	Lock Washer, 7/16"
AY	715018	Hex. Cap Screw, 1/4"-20 x 5/8"
ΑZ	720003	Lock Washer, 1/4"
ВА	717005	Hex Nut, 1/4-20
BB	164285	Pulley Guard Assembly
BC	157091	Pull Bar
BD	155037	Round Head Pin
BE	8161045	Spring Clip
BF	164288	Spacer
BG	720006	Lock Washer, 7/16"
вн	705039	Hex. Cap Screw, 7′16″-14 x 1 1/2″

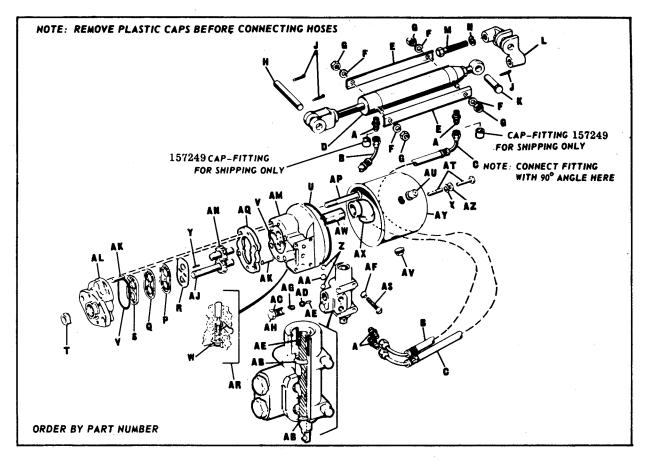
SEAT AND FENDERS

FOR MODEL 3210



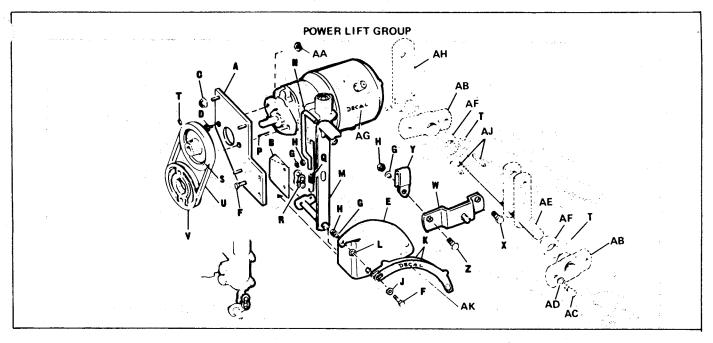
Ref. Par Let. No	
A 156203 B 16611 C 164025 D 717516 E 705016 F 159086 G 164146 H 720003 J 717003 K 705013 L 720003 M 717003 N 705013 P 720003 Q 71900	Seat Deck Assembly Seat Deck Bracket, Front Hex. Locknut, Full, 3/8"-16 Hex. Head Capscrew, 3/8"-16 x 1-1/4" Cushion Connector, Front Spring Clip Lock Washer, 5/16" Hex. Nut, Full, 5/16"-18 Hex. Head Capscrew, 5/16" 18 x 5/8" lg. Lockwasher, 5/16" Hex. Nut, Full, 5/16"-18 Lockwasher, 5/16"-18 Hex. Head Capscrew, 5/16"-18 x 5/8" lg. Lockwasher, 5/16"-18

POWER LIFT GROUP



Ref. Let.	Part No.	Description	Ref. Let.	Part No.	Description
A B	164277	Fitting	AA	157407	"O" Ring
C	157210 157211	Hose Assembly	AB	157405	"O" Ring
D	157211	Hose Assembly	AC	157444	"O" Ring
E	157230	Cylinder Assembly Side Bar	AD	157445	Ball
F	720001		AE	157446	Pin Cam
G		Lock Washer, 5/16"	AF	720003	Lock Washer, 1/4"
ŀ	717001	Full Hex. Nut, 5/16"-18	AG	157448	Spring
H	157225	Pin	AH	157449	Cage
J	722009	Cotter Pin, 1/8" x 3/4"	AJ	157450	Drive Gear Assembly
K	157194	Ram Bracket Pin	AK	157451	Dowel Pin
L	157001	Ram Bracket	AL	157452	Front Cover Assembly
М	705052	Hex. Cap Screw 7/16"-14 x 2 1/4"	AM	157453	Back Cover Assembly
N	720006	Lock Washer, 7/16"	AN	157454	Driven Gear Assembly
Р	157433	Heat Shield (for service only)	AP	157455	Bolt
Q	157434	Gasket	AQ	157456	Center, Section Machined
R	157435	Wear Plate	AR	157457	Relief Valve Assembly
S	1 5 7436	Seal	AS	157459	Screw
T	157437	Rotary Seal	AT	157460	Screw
U	157438	"O" Ring	ΑU	157462	Filler Cap Plug
V	157439	"O" Ring	AV	157463	Drain Plug
w	157404	"O" Ring	AW	157464	Inlet Nipple
Х	157441	Stat-O-Seal	AX	157465	Inlet Elbow
Υ	157442	Shaft Drive Key	AY	157461	Tank Assembly
Z	157406	"O" Ring	AZ	719006	Flat Washer, 1/4"

POWER LIFT GROUP



Ref. Let.	Part No.	Description
A B C D E F G H J K L M	157587 157428 718033 709002 157199 715057 720003 717005 719006 157204 157205 157200	Pump Support Assembly Angle Bracket Hex. Nut, Whiz Lock, 5/16"-18 Machine Screw, Flat Hd., 3/8"-16 x 1 1/4" Quadrant Hex. Cap Screw, 1/4"-20 x 3/4" Lock Washer, 1/4" Full Hex. Nut, 1/4"-20 Plain Washer, 1/4" Stop Plate Spacer Lever Assembly
N	157206	Latch Rod
P	722016	Cotter Pin, 3/32" x 5/8"
Q	157207	Spring
R	157208	Connecting Link
S	157430	Pump Pulley

Ref. Let.	Part No.	Description
T U V W X Y Z AA AB AC AD	713503 157230 157484 157233 705007 157245 705021 718035 157620 705031 720002	Set Screw, 5/16"-18 x 5/16" "V" Belt Drive Pulley Pivot Bar Assembly Hex. Cap Screw, 5/16"-18 x 1" Hose Clamp Hex. Cap Screw, 1/4"-20 x 1" Nut, Whiz-Lock Flange, 3/8"-16 Lift Lever Bearing Hex. Cap Screw, 3/8"-16 x 7/8" Lock Washer, 3/8"
AE AF	157621 157624	Lift Shaft Assembly Set Collar
AG .	157242 157625	Decal Front Lift Lever Assembly
AH AJ AK	157625 157120 157232	Key Film

INSTRUCTIONS FOR ADJUSTING HAND LEVER AND FLOAT STOPS OF QUADRANT ON POWER LIFT UNIT

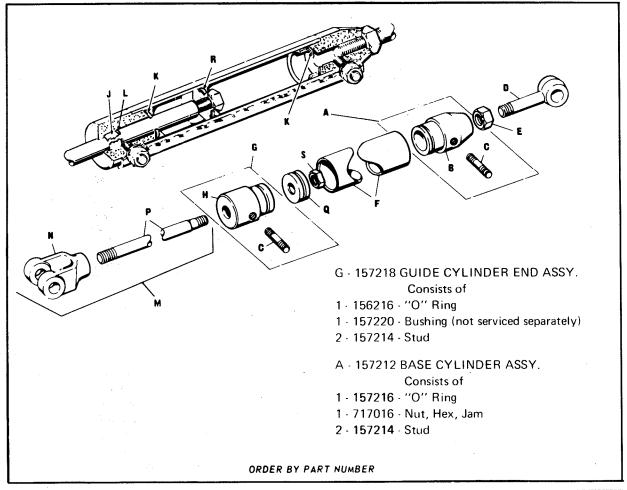
Attach pump to pump support assembly No. 157587. Then attach support assembly to fuel tank and steering post support. Attach lever with connecting link to valve spool shaft.

Place the lever No. 157200 with the latch rod No. 157206 in the exact middle of the two hex cap screws "F" located in the quadrant No. 157199. This is done by adjusting the angle bracket No. 157428 and quadrant No. 157199 up or down on the support No. 157587. Tighten the capscrews securing the bracket and quadrant to the support.

Move lever to most extreme position (front or rear). Bring stop plate up so notch is striking rod No. 157206 and secure capscrew "F" furthest from handle. Repeat procedure to the other stop plate.

Check rod No. 157206 in both positions. This rod is not to have ANY FREE MOVEMENT when in front or rear float position. Excessive play at this point increases back pressure on the pump and may cause overheating of the pump. If pump is moved to lift position (front or rear) and then drops the load before entering float position, readjust the hand lever to center of quadrant as described above. Oil lever and rod to insure free movement.

POWER LIFT GROUP



Ref. Let.	Part No.	Description
A B C D E	157212 157213 157214 157215 717016 157217	Cylinder Base Sub-Assembly Cylinder Base Stud Bolt, 5/16" 18 x 7/8" Bolt Eye Jam Hex. Nut, 1/2" 20 Cylinder
G	157218	Sub Assembly Guide
l H	157219	Cylinder End Guide
J	157220	Bushing

Ref. Let.	Part No.	Description
K L M N P O R S	157216 157670 157222 157223 157224 157226 157668 717009	"O" Ring "O" Ring Yoke & Rod Sub-Assembly Yoke Piston Rod Piston "O" Ring Full Hex. Nut

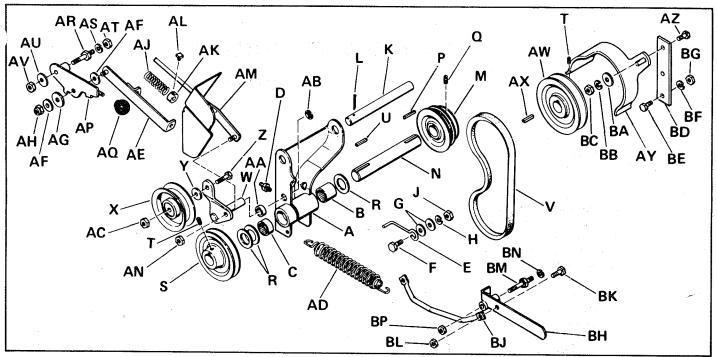
CAUTION

IT IS VITALLY IMPORTANT THAT THE HYDRAULIC FLUID AND ALL INTERNAL PARTS OF THIS UNIT BE KEPT COMPLETELY CLEAN AND FREE OF FOREIGN MATTER OF ANY TYPE.

USE UTMOST CARE IN ADDING OR CHECKING FLUID AND IN PERFORMING ANY SERVICE ON INTEGRAL PARTS.

(For instance if a fitting or other part is dropped on a contaminated surface, the part must be carefully washed and dried before re-using.)

POWER TAKE-OFF



Ref.	Part No.	Description	Ref.	Part No.	Description
Let.			Let.		Sescription
^	157675	Day Lot D.T.O. A. /			
A	157675	Bracket, P.T.O. Ass'y.	A.G	159134	Washer, Special
В	157678	Bearing, Roller	AH	717525	Elastic Stop Nut, 5/16" - 18 N.C.
С	157679	Bearing, Roller	AJ	163103	Spring
D	727001	Grease Fitting	AK	8191022	Set Collar
E	161080	Stop Belt	AL	713001	Cup Pt. Sq. Hd. Screw Set, 1/4"-20
F	705007	Hex. Hd. Cap Screw, 5/16" - 18 N.C.			N.C. x 3/8" Lg.
_	i l	× 1" Lg. 705019	AM	164302	Rod Guide Ass'y.
G	719002	Plain Washer, 5/16"	AN	717510	Full Lock Hex. Nut, 3/8"-16 N.C.
Н	720001	Lock Washer, 5/16"	AP	157690	Clutch Lever Ass'y, P.T.O.
J	717001	Full Hex. Nut, 5/16" - 18 N.C.	DΑ	122005	Knob, P.T.O.
K	154233	Rod Pivot, 5/8" Dia. x 6 - 13/16"	AR	106771	Stud
L	722007	Cotter Pin	AS	720002	Lock Washer, 3/8"
M	157680	Pulley	AT	717003	Full Hex. Nut, 3/8"-16 N.C.
Ν	157681	Shaft, P.T.O.	AU	719002	Plain Washer, 5/16"
Р	157332	Key, Hi-Pro	AV	717524	Stop Center Lock Jam Nut, 3/8"-16
Q	713502	Cup Pt. Skt. Hd. Screw Set, 5/16"	AW	157694	Pulley
-		18 N.C. x 1/4" Lq.	AX	8061081	Key
R	118252	Washer	AY	164152	Guard Belt
S	157682	Pulley, P.T.O.	AZ	705005	Hex. Cap Screw, 3/8"-16 N.C. x 1"
T	713503	Cup Pt. Skt. Hd. Screw Set, 5/16"	BA	719001	Plain Washer, 3/8"
		18 N.C. x 5/16" Lg.	BB	720002	Lock Washer, 3/8"
U	157332	Key, Hi-Pro	BC	717003	Full Hex. Nut, 3/8"-16 N.C.
V	157683	"V" Belt, P.T.O.	BD	157050	Guard Belt Support, 3/16" x 1 1/4"
w ·	164241	Idler Lever Ass'y.		137030	x 5 7/16" Lg.
Х	164268	Idler Pulley	BE	705007	Hex. Cap Screw, 5/16"-18 N.C. x 1"
Υ	719002	Plain Washer, 5/16"	BF	720001	Lock Washer, 5/16"
Z	705016	Hex. Cap Screw, 3/8" - 16 N.C. x	BG	717001	
		1 - 1/4"	BH	164155	Full Hex Nut, 5/16"-18 N.C.
AA	164244	Spacer	BJ	164279	Handle Ass'y.
AB	157288	Retaining Ring	BK	705017	Spring Tension Rod
AC	717510	Full Lock Hex. Nut, 3/8" - 16 N.C.	BL		Hex. Cap Screw, 5/16" 18 N.C. x 3/4"
AD	157262	Spring, Tension	BM	717511	Full Lock Hex. Nut, 5/16"-18 N.C.
AE	157684	Rod Guide Ass'y.	i i	157273	Stud
AF	719002	Plain Washer, 5/16"	BN	720006	Lock Washer, 7/16"
771	, 13002	riaili vvasner, 5/16	BP	717519	Full Lock Hex. Nut, 7/16"-14 N.C.

VARIABLE SPEED PULLEY

CLUTCH - BRAKE & BELT ADJUSTMENT

The variable speed mechanism is adjusted at the factory under "no load" conditions. In most instances, this adjustment should provide satisfactory operation. If, however, under load or after the "break-in" period, erratic or improper operation is noted, follow the procedures outlined below to make the necessary adjustments.

NOTE

All Adjustments Require The Variable Speed Lever To Be Placed In The "High" Or "Low" Position. Carefully Observe Which Position The Variable Speed Lever Should Be Placed In Before Making Each Adjustment. DO NOT ATTEMPT TO MOVE VARIABLE SPEED LEVER WHEN ENGINE IS NOT RUNNING OR WHEN CLUTCH PEDAL IS DEPRESSED.

CHECK THE FOLLOWING ASSEMBLY ADJUSTMENTS:

- 1. Check bolt and locknut holding arm assembly to rocker arm. (See No. 1). (This adjustment to be made in "High" speed position).
- 2. Check for proper clearance on front belt guard. (See No. 2). (This adjustment to be made in "High" speed position).
- 3. Check for proper clearance of idler pulley belt stop. (See No. 3). (This adjustment to be made in "Low" speed position).
- 4. Check for proper clearance between the nuts on the clutch rod and the set collar. (See No. 4). (This adjustment to be made in "Low" speed position).
- 5, With variable speed lever in the "Low" speed position, the belt in the large, rear pulley should be approximately 1/8" below the top of the pulley. (See No. 5).
- 6. Check brake adjustment. (See No. 6). (This adjustment to be made in "Low" speed position).

OPERATING INSTRUCTIONS

- 1. Do not attempt to move variable speed lever when tractor engine is not running or when clutch pedal is depressed.
- Insure that parking brake is fully disengaged before placing tractor in motion.
- 3. Occasionally check and remove foreign objects and debris from variable speed belt and pulleys.

GEAR RANGE AND SPEED SELECTIONS

- 1. To obtain the most desirable results with various attachments on the Sovereign Tractor, it is recommended the tractor engine be operated at 3/4 to full throttle setting.
- 2. When operating attachments such as the 10" Plow, Spring Tooth Harrow or Cultivator, which place a heavy draw-bar load on the tractor, it is preferable to operate tractor in I or II speed rather than III speed, low range.

BELT SLIPPAGE

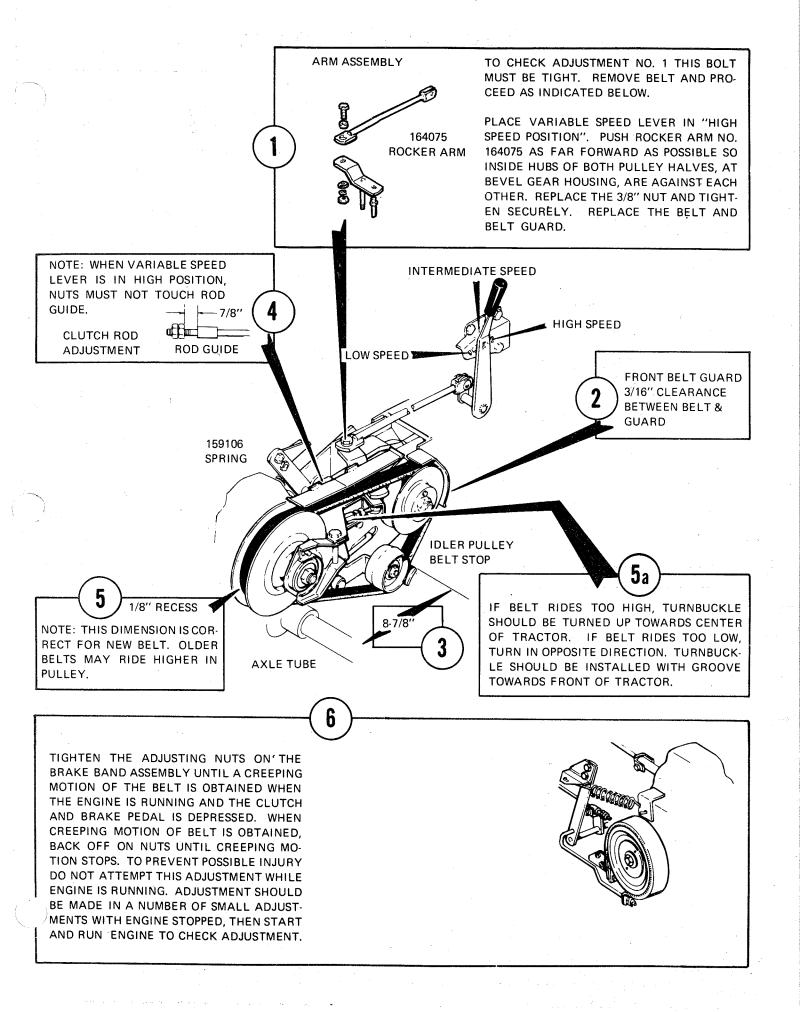
If belt slippage is noted, check the following:

- 1. Check to insure the parking brake is fully disengaged.
- 2. Check No. 4 under Assembly Adjustments.
- 3. Check No. 5 under Assembly Adjustments.
- 4. On early production models the Spring No. 159106 is normally in the top hold. If less spring tension is desired, move spring to next lowest hole of pivot lever assembly. Less tension can be used when mowing on level terrain and if clutch pedal is found to be uncomfortably hard for the operator to depress. (See Figure 2). Greater belt tension is necessary to prevent variable speed belt from slipping when tractor and attachment are under heavy load. A slight chattering of the variable speed belt on the pulleys will be noticeable until the belt loses its stickiness and becomes smooth.

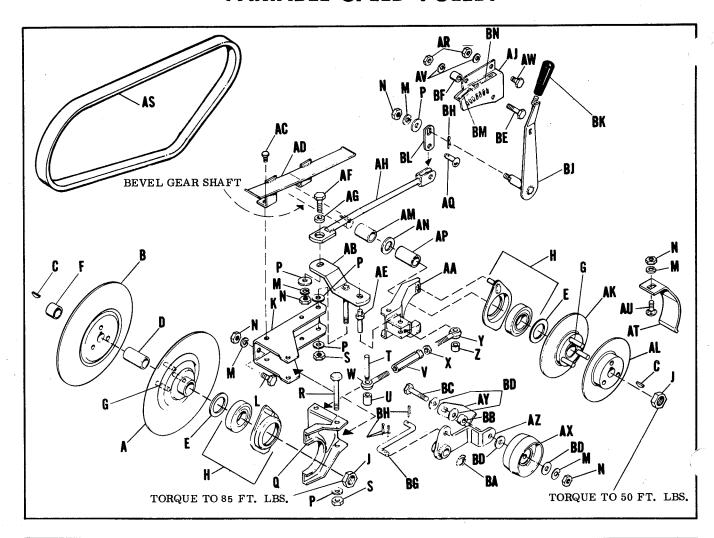
On later production models no further spring adjustment'. necessary.

LUBRICATION

If sliding pulley halves stick, lubricate bushing on which pulley rides lightly with a few drops of oil. Excessive lubrication will tend to collect dirt and dust and tend to hamper operation. Also lubricate all clutch and brake lever pivot points and all places where pull rods or links join levers.



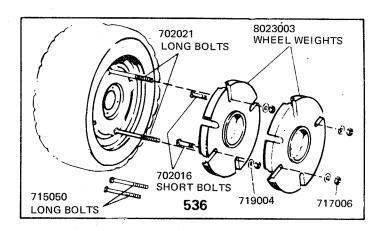
VARIABLE SPEED PULLEY

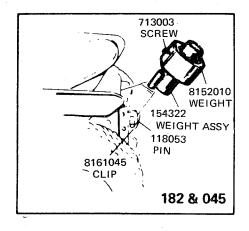


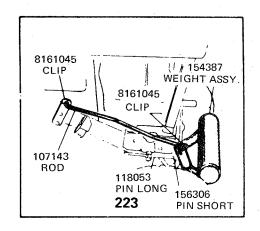
Ref. Let.	Part No.	Description
Α	164166	Pulley-Half Assembly
В	164301	Pulley-Half & Bushing Assy.
C	725504	Key
D	164067	Driven Slide Spacer
E	164181	Washer
F	164068	Spacer
G	164066	Pins
H	164211	Retainer Ring/Bearing Assembly
J	717517	Hex Jam Nut, Lock
· K	164157	Variable Speed Bracket
L	705031	Hex Capscrew, 3/8"-16 x 7/8" lg.
M	720002	Lock Washer, 3/8"
N	717003	Hex Nut, 3/8"-16
P	719001	Plain Washer, 3/8"
Q	164035	Transmission Fork Assembly
R	164069	Special Screw
S	717510	Hex Nut, 3/8"-16 Lock
T	164070	Pivot Pin
U	164071	Spacer
V	164072	Turnbuckle Body
W	164073	Eyebolt, R.H.
X	717010	Hex Nut, 3/8"-24
Y	164074	Eyebolt, L.H.
Z	164176	Spacer
AA	164033	Bevel Gear Housing Fork Assy.
AB	164075	Fork, Rocker Assy.
AC	715077	Screw, Taptite, 1/4"-20 x 5/8"
AD	164106	Belt Guard Assembly
AE	164078	Rod
ÀF	705016	Hex Capscrew, 3/8"-16 x 1-1/4" lg.
AG	164105	Spacer 171575

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Ref.	Part	
Let.	No.	Description
AJ	164124	Quadrant
AH	164101	Arm Assembly
AK	164171	Pulley-Half Assembly
AL	164300	Pulley-Half & Bushing Assy.
AM	164174	Spacer
AN	164175	Stop Washer
AP	164173	Slide Spacer (Teflon Coated)
AQ	153058	Pin
AR	717001	Hex Nut, 5/16''-18
AS	164080	"V" Belt
AT	164082	Belt Guard
AU	703004	Carriage Bolt, 3/8"-16 x 3/4" lg.
AV	720001	Lock Washer, 5/16"
AW	705012	Hex Capscrew, 5/16"-18 x 5/8" lg.
AX	164083	Idler Pulley
AY	164190	Idler Belt Stop
AZ	164084	Idler Lever Assembly
BA	118240	Retaining Ring
BB	154177	Spacer
BC	705006	Hex Capscrew, 3/8"-16 x 2" lg.
BD	719002	Plain Washer, 5/16"
BE	705918	Hex Capscrew, $5/16"-18 \times 1-1/2"$ lg.
BF	164125	Spacer
BG	164088	Clutch Link
BH	722001	Cotter Pin
BJ	164097	Lever Assembly
BK	164180	Handle
BL	164123	Link
BM		Film Quardrant
BN	164130	Film Instruction
	L	

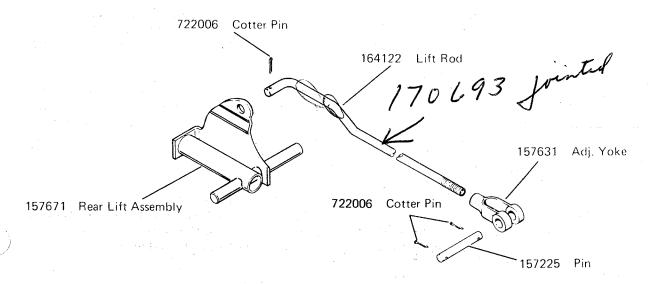
FRONT COUNTER WEIGHT . . MFR. NO. 223
REAR COUNTER WEIGHT . . MFR. NO. 182
WEIGHT (USE WITH 182) . . . MFR. NQ. 045
WHEEL WEIGHT MFR. NO. 536





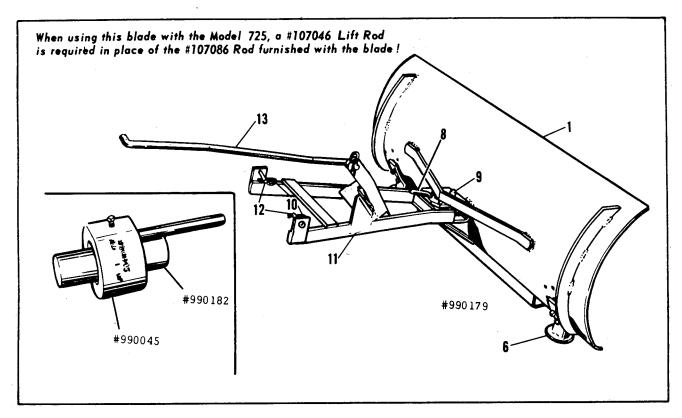


REAR LIFT KIT Mfrs. No. 622



42" SNOW PLOW & DOZER

MFR'S. NO. 179



PACKING

The 42" snow plow and dozer comes packed complete in one bundle.

ASSEMBLY

Attach push bar (11) to blade (1) using king pin (9) and install a spring clip through the king pin. Attach the front lift rod (13) to the push bar as shown. Drop the pivot pin (8) thru the blade assembly bracket and push bar.

ATTACHMENT

To attach the 42" snow plow and dozer to the LANDLORD Riding Tractor, all that is required is to connect pins (12) to the tractor front hitch and safety clip (10); and to connect the front lift rod (13) to the tractors lift arm.

OPERATION

Alternate holes are provided to permit adjustment of the shoe assemblies (6) for raising

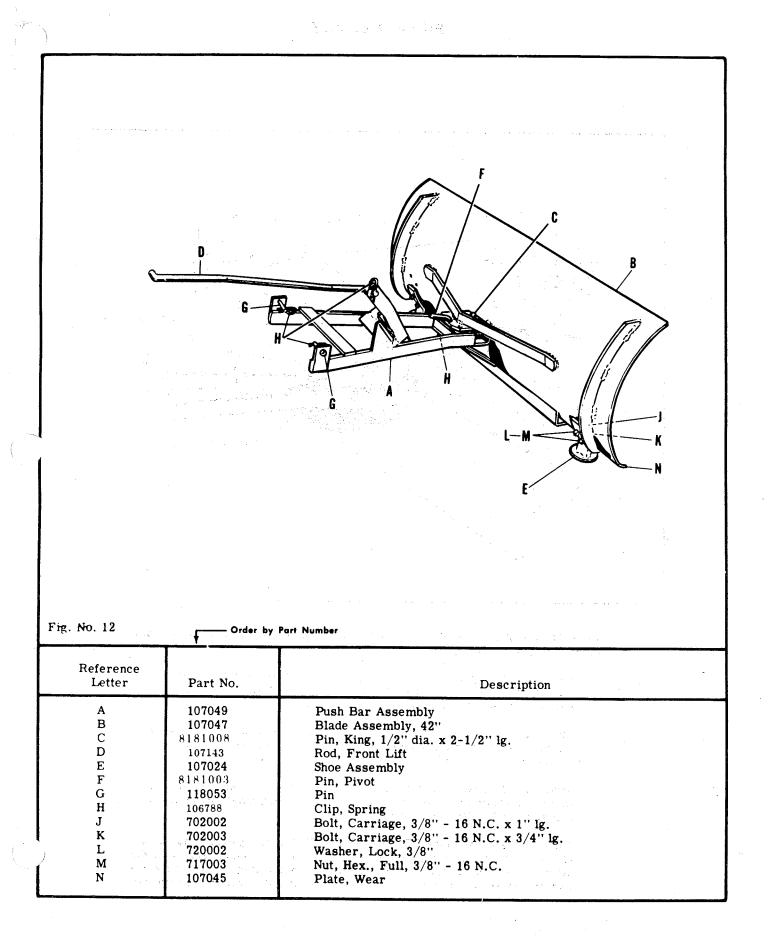
or lowering the blade when cleaning gravel drives or walks. When cleaning concrete it is desirable to allow the blade to scrape the surface.

The angle of the blade is adjustable to permit plowing to the left or right by moving pivot pin (8) to the desired hole in the blade mounting bracket.

For ease of lifting equipment, it is well to use the counterweight (990182) and additional weight (990045) when using the 42" snow plow and grader on the LANDLORD Riding Tractor. These counterweights are mounted on the rear lift assembly.

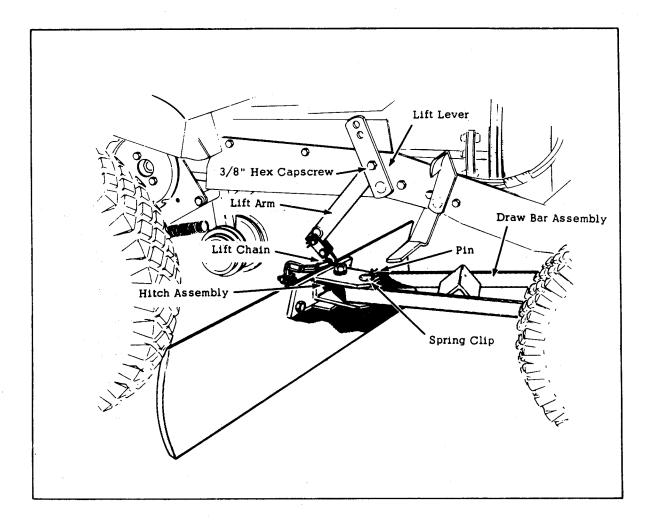
When using this equipment it is recommended that chains and wheel weights be installed on the tractor. Loose mounting of the chains will make them self-cleaning.

42" SNOW PLOW AND GRADER



42" GRADER BLADE

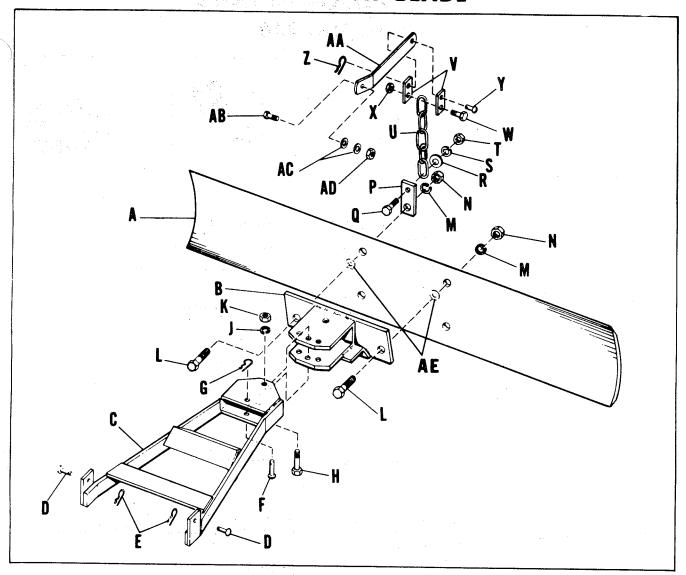
Mfr's. No. 237



The 42" Grader Blade is attached to the tractor as shown in the above illustration by following the sequence of steps as outlined below.

- Position the grader blade under the tractor so that the draw bar assembly may be connected to the front hitch brackets of the tractor. Secure in place with 2 pins and spring clips.
- 2. Attach the lift lever to the lift arm of the tractor as shown, placing 2 plain washers between the lift lever and lift arm. Fasten securely with a 3/8" hex head capscrew and lock nut.
- Attach the lift chain and links to the lift lever with a pin and spring clip so
 that the blade can be lifted high enough to clear the ground when transporting from one location to another.
- 4. When desired, the blade may be angled to the left or right by removing the pin and spring clip from the center hole in the hitch assembly. Lock the blade in desired position by replacing the pin and spring clip when the alternate holes in the hitch assembly line up with the hole in the draw bar.

42" GRADER BLADE

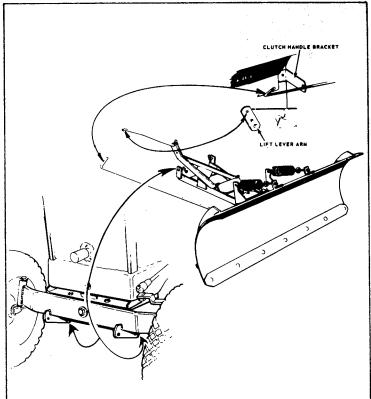


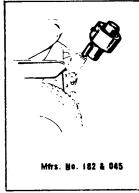
Order by Part Number		
Ref. Letter	Part No.	Description
A B C D E F G H J K L M N P Q	107056 107058 107062 118053 8161045 8181008 8021024 705056 720005 717004 705055 717004 107057 705005	Blade, Grader, 42" Hitch Assembly Draw Bar Assembly Pin Spring Clip Pin Spring Clip Capscrew, Hex Head, 5/8"-11 NC x 3 " lg. Lockwasher, 5/8" Nut, Hex, Full, 5/8"-11 NC Capscrew, Hex Head, 5/8"-11 NC x 2" lg Lockwasher, 5/8" Nut, Hex, Full, 5/8"-11 NC Link Capscrew, Hex Head, 3/8"-16 NC x 1 1/4" lg.
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Order by Part Number		
Ref. Letter	Part No.	Description
R S T U	719001 720002 717003 107031	Plain Washer, 3/8" Lock Washer, 3/8" Nut, Hex, Full, 3/8"-16 NC Chain
v w	108199 705005	Link Capscrew, Hex Head, 3/8"-16 NCx 1 1/4" lg.
х	717510	Nut, Hex, Full, Lock, 3/8"-16 NC
Y	153058	Pin
Z	8161045	Spring Clip
AA	108198	Lever
AB	705016	Capscrew, Hex Head, 3/8"-16 NC x 1 1/4" 1g.
AC	719001	Plain Washer, 3/8"
AD	717510	Nut, Hex, Full, Lock, 3/8"-16 NC
AE	121210	Flat Washer, 1-1/16"

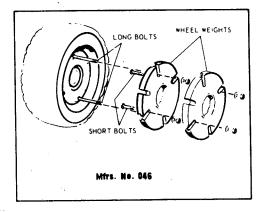
46" DOZER BLADE

Mfrs. No. 356









The 46" Snow plow and Dozer blade can be used with out any weights or chains. HOWEVER, by using these items, plowing and dozing will be done more effectively and efficiently.

Using the rear counter weight (Mfg. # 182 with # 045) will ease lifting of the front mounted attachments. This is mounted on the rear lift assy. Using wheel weights (1 or 2 on either side) will provide more traction. By adding chains with the wheel weights additional traction will be experienced. Loose mounting of the chains will assist in their self cleaning.

OPERATION

There are five operating positions for this blade. The position can be changed by the operator without leaving the seat. Turn the control rod clockwise to unlatch the blade. Push or pull rod to the desired position. For ease of changing positions, raise blade slightly from the ground.

By adjusting the shoe assembly, various blade heights can be achieved. Increased height adjustment can be done by adjusting the stop pin in the lift lever quadrant.

If the blade is used with the Hydralic unit, front or rear float position can be utilized. Using the front float position will provide a downward pressure on the blade. Rear float will give an upward pressure. HOWEVER in either position the blade will follow the ground. The Hydralic Unit can be used for a stationary position also

The wear plate is reversable. When one side is worn, remove the bolts turn plate around and reinstall bolts.

LUBRICATION

Lubricate all joints where rods enter holes. Also lubricate pivot points. Periodic lubrication will assist in ease of operation.

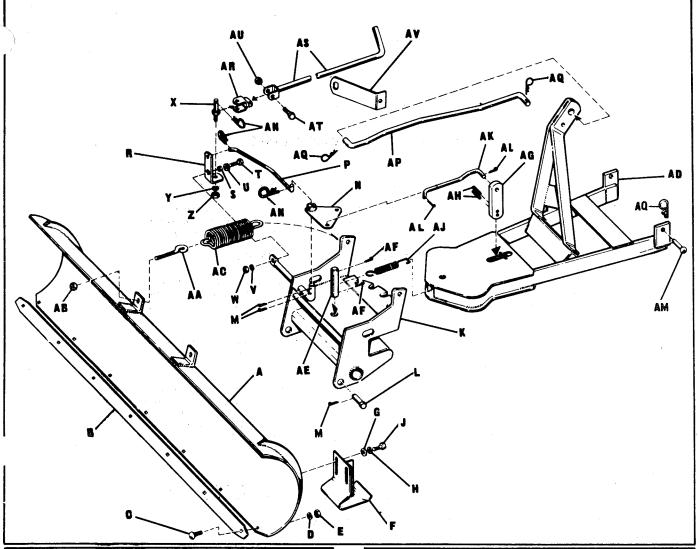
PACKING

The 46" Snow Plow and Dozer Blade comes in one carton with all necessary hardware.

ASSEMBLY

Attach hitch assembly to blade assembly, using the two yoke pins and cotter pins provided. Using the two eye bolts, attach spring from hitch to blade. Allow 1/2" of thread to show thru nuts. Attach to tractor as indicated in Fig. 1 with the two pins and spring clips. Attach blade direction rod bracket to top screw on right hand side of the Fuel Tank & Steering Post Support Asserbly. See Fig. 1. (If this bracket has been installed usage with another implement, it need not be removed). Attach lift rod to tractor lift lever (top Hole) and to plow. Fig. 1. Insert blade direction rod thru bracket and attach to blade. Secure in place with spring clips.

46" DOZER BLADE



Ref.	Part	and the state of the growth of the
Let.	No.	Description
A	107096	Blade Ass'y
В	107105	Wear Plate
C	702002	Carriage Bolt, 3/8"-16 x 1" lg.
D	720002	Lock Washer 3/8"
E	717003	Full Hex Nut 3/8"-16 N.C.
F	107106	Shoe Ass'y.
G	719001	Flat Washer 3/8"
H	720002	Lock Washer 3/8"
J	705004	Hex. Cap Screw 3/8" - 16 x 3/4"
K	107109	Pivot Frame Ass'y
L	154305	Yoke Pin
M	722006	Cotter Pin 1/8 Dia. x 1"
N.	107116	Pivot Plate Ass'y
P	107118	Pivot Rod
Q	106687	Bracket
R	107119	Pivot Arm
s	156150	Spacer
T	705007	Hex Cap Screw 5/16"-18 x 1" lg.
'ग्	719002	Plain Washer 5/16"
	720001	Lock Washer 5/16"
ı W	717001	Full Hex. Nut 5/16"-18 N.C.
X	107120	Pivot Stud

Y 720001 Lock Washer 5/16" Z 717001 Full Hex. Nut 5/16"-18 AA 107121 Eyebolt AB 717001 Full Hex. Nut 5/16"-18 AC 101126 Spring AD 107122 Push Bar Ass'y	Ref. Let.	Part No.	Description
AF 722003 Cotter Pin 3/16 x 1-1/4" lg. AG 107134 Latch AH 723002 Roll Pin 7/32" Dia. x 1" lg. AJ 107135 Latch Spring AK 107136 Latch Rod AL 722016 Cotter Pin 3/32" Dia. x 5/8" AM 118053 (Hitch) Pin AN 106787 Spring Clip AP 107143 Front Lift- Rod AQ 106788 Spring Clip AR 106131 Fork Ass'y AS 107137 Handle Ass'y	Z AA AB AC AD AE AF AG AH AJ AK AL AM AN AP AQ AR AS AT	717001 107121 717001 101126 107122 107133 722003 107134 723002 107135 107136 722016 118053 106787 107143 106788 106131 107137 705018	Full Hex. Nut 5/16"-18 Eyebolt Full Hex. Nut 5/16"-18 Spring Push Bar Ass'y Pivot Pin 5/8" Dia. x 3-3/8" lg. Cotter Pin 3/16 x 1-1/4" lg. Latch Roll Pin 7/32" Dia. x 1" lg. Latch Spring Latch Rod Cotter Pin 3/32" Dia. x 5/8" (Hitch) Pin Spring Clip Front Lift- Rod Spring Clip Fork Ass'y Handle Ass'y Hex. Cap Screw 5/16"-18 x 1-1/2"

BATTERY INSTRUCTIONS

With proper care this battery should give the long service life built into it.

A battery which does not function properly is not necessarily worn out or defective. It may only need a good recharge. Therefore, if battery trouble is uspected, a full recharge and test by a competent battery man is recommended.

PUTTING DRY-CHARGED BATTERIES IN SERVICE

Remove wicks or tape covering from vent hole in filler caps. Make sure vent holes are open so battery gases produced when battery is charging can escape. If necessary, run a fine wire in vent hole to be sure it is open and free of all obstructions.

Fill battery with 1.265 specific gravity electrolyte or acid to proper level or 3/16 inch above plates and separators assuming room, battery, and electrolyte temperature is $70^{\rm O}$ – $100^{\rm O}$ Fahrenheit.

Allow battery to set for 20 minutes. Battery can then be installed but to obtain best results and maximum capacity, place battery on charge after the 20-minute setting period at 6 amperes until gravity reading is 1.265 - 1.275. If room, battery and electrolyte temperatures are below normal a longer charging period will be mandatory to bring the specific gravity up to 1.265 - 1.275.

WARNING

Under no conditions should battery be filled more than 3/16" over the plates. We cannot be responsible for damages if this warning is not observed.

CARE IN SERVICE

A hydrometer test of the battery solution should be made monthly. If the specific gravity tests 1.225 or less, the battery should be removed and thoroughly recharged. At the same time the solution level should be examined and distilled water added when necessary to retain the level of 3/16" over the plates. When necessary to add distilled water it should always be done just prior to recharging to mix the added water thorougly into the solution.

When recharging is necessary and user does not have his own charging equipment, he should request service station to slow charge the battery at a rate of 4 to 6 amperes.

Any collection of grease or any other substance should be kept removed from the top of the battery and the top kept dry and clean at all times. The battery should be kept snug in its cradle and not permitted to get loose. If removed for charging, it should be fastened back in snugly enough to prevent any movement when in use. Vent caps should be kept tight and the small vent holes in top or side of cap be kept open at all times to permit escapage of gases formed in the battery. Care should be exercises not to overfill the battery at any time and to always retain 3/16" of solution above the plates.

WINTER CARE

If battery will not be used during the winter months it should be removed and stored in a cool, dry place. Any collection of grease or other substance should be removed from the top of the battery.

The battery must be recharged monthly or whenever the hydrometer reads less than 1.225. Before reinstalling the battery in the spring, it should always be given a thorough recharge.