

# PARTS LIST AND INSTRUCTIONS

# REO

WHEELHORSE PRODUCTS, INC. • SOUTH BEND, IND.

## ROTARY MOWER

Self Propelled

## INSTRUCTIONS

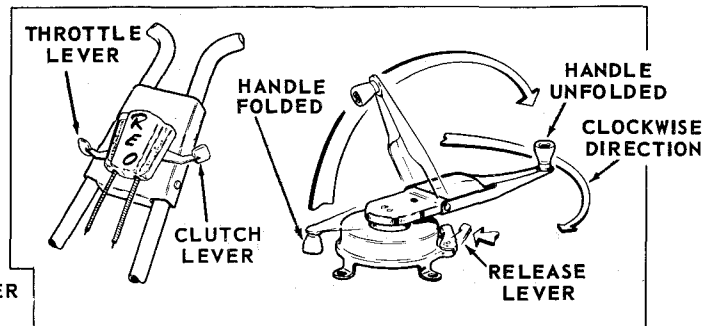
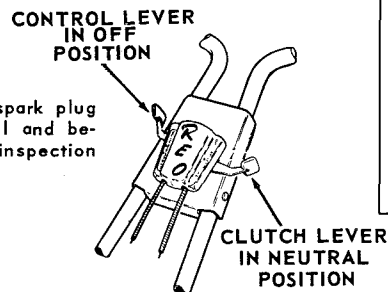
## LC MODELS

### STARTING

**WARNING!** BE SURE HANDS AND FEET ARE CLEAR OF THE MOWER BASE BEFORE ATTEMPTING TO START THE ENGINE.

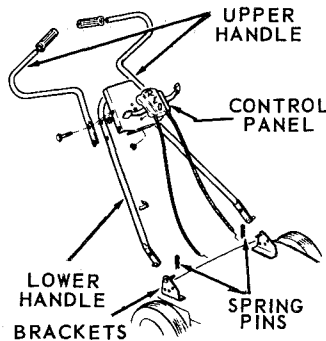
### SAFETY FIRST

- 1 Avoid accidents by keeping hands and feet clear of blade while starting engine and while engine is running.
- 2 Shut off engine and remove spark plug wire before adding gas or oil and before making adjustments or inspection of any kind.



### ASSEMBLING HANDLE

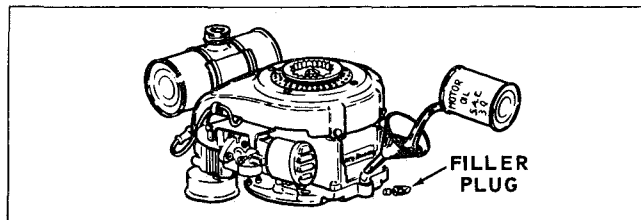
- 1 Assemble lower handle to deck by inserting pins, in handle, thru holes in brackets. The pins in the brackets likewise will assemble in holes in handle. Then secure the handle with spring pins provided.
- 2 Assemble upper handle, Control Panel and lower handle with nuts and bolts provided. See illustration at right.



- 1 Push throttle lever to choke position and place clutch lever in neutral position (center notch). **For Impulse Starter:** Standing on left side of mower, push in on release lever, unfold the starter handle and wind-up clockwise about 3½ turns. Fold handle over and pull out on the release lever. **For Recoil Starter:** Standing at the rear of the mower, grasp the starter handle firmly in your hand and give it a quick pull to complete cord length. Return the Starter handle slowly.

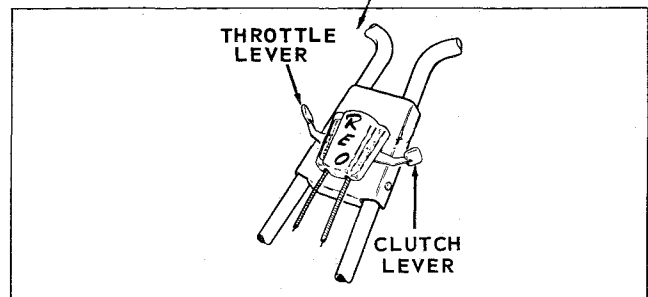
- 2 When engine starts, pull the throttle lever back approximately halfway or until engine runs about 1/3 open throttle.

### OIL AND GASOLINE

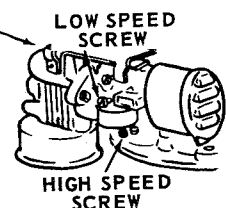


NEVER FILL THE GAS TANK WHILE THE ENGINE IS RUNNING. DO NOT MIX OIL WITH GASOLINE.

- 1 Remove oil filler plug and fill with S.A.E. No. 30 motor oil up to the top of the filler hole. Be sure engine is level when adding oil to avoid over filling.
- 2 Fill the gas tank with clean, fresh, regular gasoline. Premium Grade Ethyl is not recommended.



- 3 If engine fails to start after repeated attempts, turn the low speed screw and high speed screw clockwise until finger tight. Turn high speed screw counter-clockwise about one full turn and low speed screw counter-clockwise about one and one half turns. Repeat starting operation.



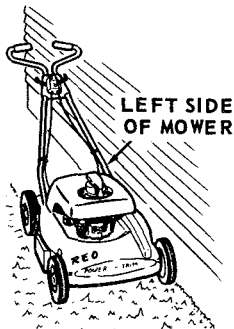
- 4 The first time the engine is started, allow to run at 1/3 open throttle for 10 to 15 minutes to thoroughly lubricate all moving parts and bearings.

## TO MOW

**WARNING!** BE SURE LAWN IS CLEAR OF BONES, WIRE, STICKS, STONES OR OTHER OBJECTS WHICH COULD DAMAGE THE CUTTING BLADES

1 Lift up on clutch control lever and place in Hi or Low position. Take special care when straddling humps or ridges with your mower.

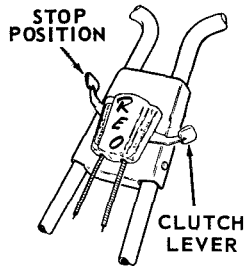
2 Use the left side (the side opposite the chute opening) of your mower when trimming close to buildings, fences, etc.



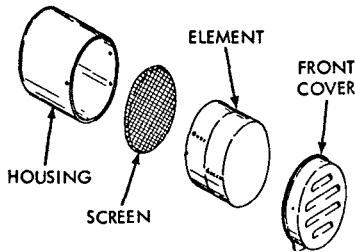
## TO STOP ENGINE

1 Stop mower by placing clutch lever in neutral position.

2 Stop Engine by pulling throttle lever back to stop position.

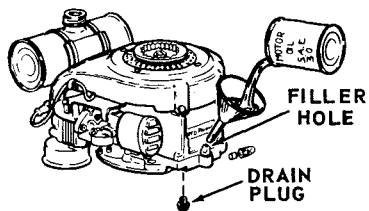


## ROUTINE MAINTENANCE AND ADJUSTMENT



### 1 AIR CLEANER

Polyurethane Type-Serviceable. Clean element every ten (10) hours or oftener if engine runs rich and emits black smoke from the exhaust. Service by removing air cleaner cover. Remove polyurethane element and wash in detergent and water solution by squeezing similar to a sponge. Squeeze out cleaning solution. Re-oil element by applying generous quantity of oil to sides and open ends. Squeeze to distribute oil and to remove excess oil. Reinstall element and air cleaner cover.



2 Drain and refill the crankcase after the first 5 hours of operating. Thereafter, drain and refill after every 25 hours of operating. Refill crankcase with SAE No. 30 Motor Oil. Fill to top of threads in filler hole. Check oil level of the crankcase before each use, (with mower on level ground). **BE SURE DRAIN PLUG IS TIGHT.**

**WARNING!** DO NOT ATTEMPT TO MAKE ANY ADJUSTMENTS OR CLEAN GRASS FROM THE MOWER BASE UNTIL ENGINE IS STOPPED, AND SPARK PLUG WIRE IS REMOVED.

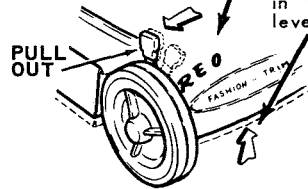
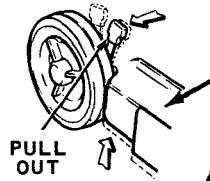
3 The height of cut can be changed by raising or lowering the axles.

**REAR AXLE:** Pull out on spring adjustment lever and move forward to raise axle and backward to lower axle.

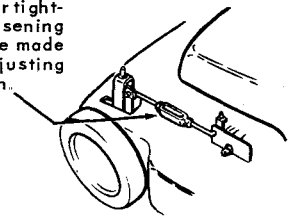
**FRONT AXLE:** Pull out on spring adjustment lever and move forward to lower axles and backward to raise axle.

Raising the axles will give a lower height of cut and lowering the axles will give a higher height of cut.

Be sure that all four adjustments be placed in the same position to keep the mower level.



4 Adjustments for tightening or loosening drive chain are made by turning adjusting yoke as shown.



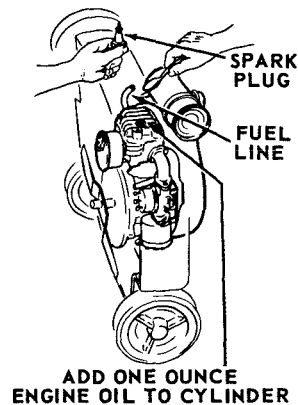
## STORING

When it is necessary to store your mower for a period of 30 days or more:

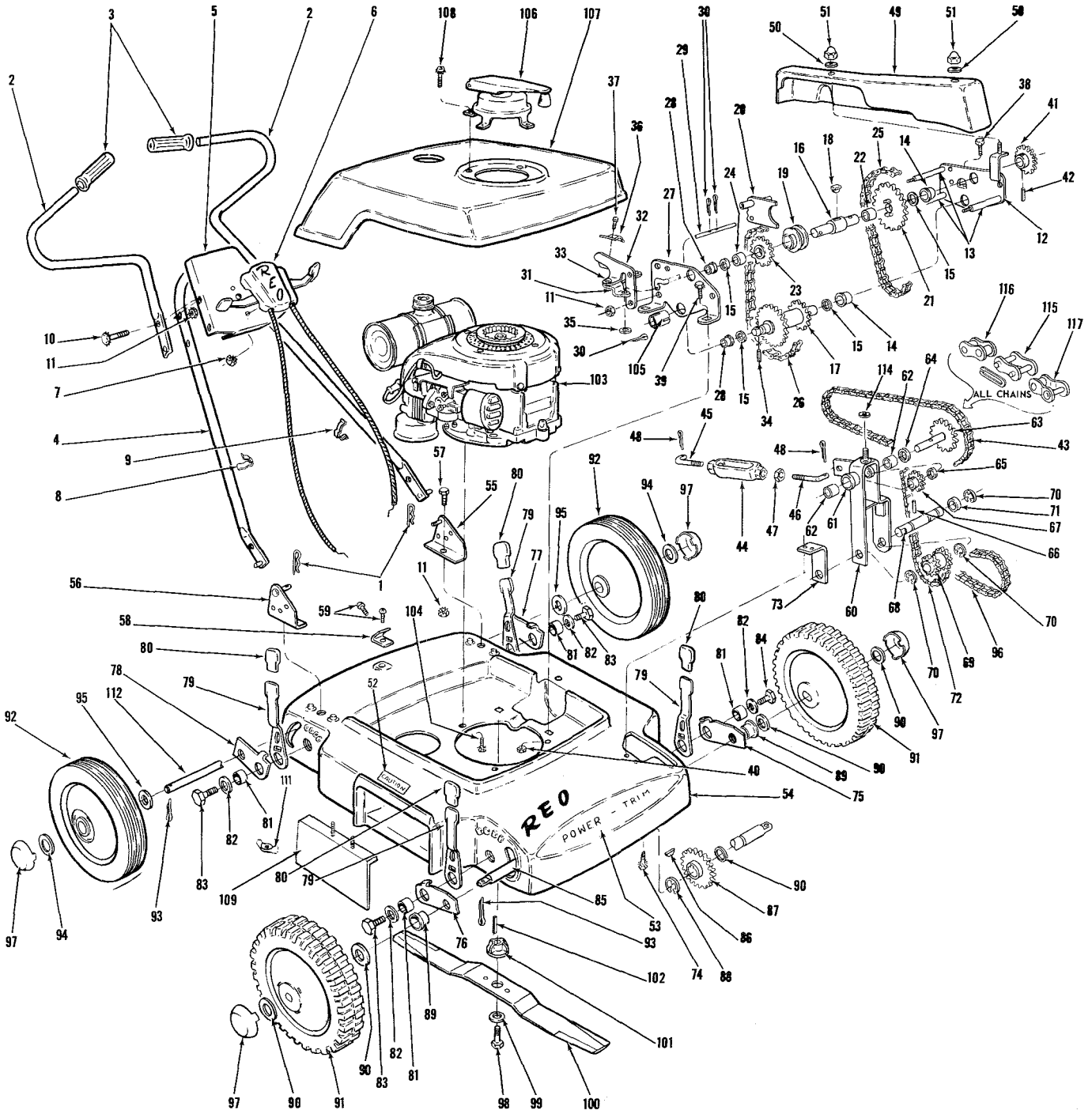
1 Drain gas tank by removing fuel line at the carburetor or fuel tank.

**NOTE**—If carburetor has float bowl, drain by pushing upward on bowl drain.

2 Remove the spark plug and pour approximately one ounce of engine oil into cylinder. Crank engine slowly about 12 revolutions to spread the oil over internal surfaces of the engine and then replace the spark plug. A little chassis grease on the cutting edges of the blade will prevent them from rusting during prolonged storage. Store your mower in a clean dry place, and cover it with canvas or paper to keep off excess dust and dirt.



# REO FOUR CYCLE POWER MOWER MODELS 421-LCP



SEE PARTS LIST ON REVERSE SIDE

# REO FOUR CYCLE POWER MOWER MODELS 421-LCP

## PARTS LIST

When ordering parts always list Part No. and name of part.

Ref. No.	Part No.	Description
1	S-52-3	Spring Pin
2	MW-8664	Upper Handle
3	MW-8503	Grip
4	MW-8555	Lower Handle
5	MW-8653	Plate
6	MW 8679	Throttle and Clutch Control
7	GM-271166	Nut and Lockwasher
8	MW-4846	Clip
9	5378	Clip
10	GM-122033	Bolt
11	GM-271184	Nut and Lockwasher
12 thru 33	MW-8716	Transmission Assembly
12 thru 14	MW-8717	Plate Assembly
12 use	MW-8717	Plate
13	MW-5281	Tie Bolt
14	MW-6233	Bushing
15	MW 4327	Washer
16	MW-8720	Shaft
17	MW-8721	Shaft and Sprocket Assy.
18	MW-4624	Key
19	MW-8722	Collar
20	MW-6219	Yoke
21 and 22	MW-5289	Sprocket Assembly
21 use	MW-5289	Hub and Sprocket Assy.
22	MW-5308	Bushing
23 and 24	MW-5283	Sprocket Assembly
23 use	MW-5283	Hub and Sprocket Assy.
24	MW-5306	Bushing
25	MW-5431	Chain
26	MW-8723	Chain
27 and 28	MW-5277	Plate Assembly
27 use	MW-5277	Plate
28	MW-6233	Bushing
29	MW-6709	Rod
30	GM-119117	Cotter Pin
31 thru 33	MW-8724	Control Assembly
31	MW-8649	Bell Crank
32	MW-8740	Bracket
33	MW 6707	Pivot
34	MW-4232	Roll Pin
35	GM 120392	Washer

Ref. No.	Part No.	Description
36	MW-8267	Cable Clamp
37	MW-4187	Screw
38	MW-4204	Bolt
39	GM-126216	Bolt
40	GM 273802	Nut and Lockwasher
41	MW-8705	Sprocket
42	GM-9415236	Spring Pin
43	MW-8729	Chain
44	MW-8726	Yoke
45	MW-8727	Link R.H. Thread
46	MW-8728	Link L.H. Thread
47	GM-120376	Nut
48	GM-119117	Cotter Pin
49	MW-8627	Guard
50	GM-274865	Washer
51	MW-4662	Nut
52	MW-8622	Decal (Caution)
53	MW-8601	Decal (Power Trim)
54	MW-8523	Base
55	MW-8590	Bracket
56	MW 8591	Bracket
57	GM-122007	Bolt
58	MW-8659	Bracket
59	MW-4194	Screw and Lockwasher
60 thru 72	MW-8691	Drive Assembly
60,61,62	MW-8692	Bracket Assembly
60 use	MW-8692	Bracket
61	MW-8696	Retainer
62	MW-5329	Bushing
63	MW-8698	Sprocket Assembly
64	MW-6011	Washer
65	MW-4329	Washer
66	GM-9415236	Spring Pin
67	MW-8705	Sprocket
68	MW-8706	Countershaft
69	MW-8707	Sprocket
70	MW-4560	Retaining Ring
71	MW 4323	Spacer
72	MW-8708	Chain
73	MW-8709	Bracket
74	MW-4204	Bolt and Lockwasher

Ref. No.	Part No.	Description
75	MW 8596	Arm Left Front
76	MW-8597	Arm Right Front
77	MW 8594	Arm Left Rear
78	MW-8595	Arm Right Rear
79	MW-8573	Lever
80	MW-8657	Grip
81	MW-8660	Spacer
82	GM-274865	Washer
83	MW-4203	Bolt and Lockwasher
84	GM-423562	Bolt
85	MW-8712	Axle (Drive)
86	GM-106749	Key
87	MW-8710	Sprocket
88	MW-4560	Retaining Ring
89	MW-8711	Bushing
90	MW-4329	Washer
91	MW-8713	Wheel and Tire Assy. (Front)
92	MW-8714	Wheel and Tire Assy. (Rear)
93	GM-121222	Cotter Pin
94	GM-120394	Washer
95	MW-4351	Washer
96	MW-5431	Chain
97	MW 8715	Hub Cap
98	GM-181639	Bolt
99	MW-4335	Washer
100	5362	Blade
101	MW-7726	Blade Drive
102	GM-124546	Key
103	MW-8579	Engine Less Starter
104	MW-4754	Bolt
105	MW-5591	Collar
106	MW-8581	Starter Assembly
107	MW-8588	Shroud
108	GM-450986	Screw and Lockwasher
109	MW-8752	Chute Cover Assembly
111	MW-8756	Wing Nut
112	MW-8638	Axle (Rear)
114	MW-4345	Spacer
115	MW-5830	Connecting Link
116	MW-5831	Roller Link
117	MW-5832	Offset Link

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Wheel Horse Service Bulletins 1961 - 1990: **#3** Issued: December 1965

## Engine Cross Reference

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This list provides the engine manufacturers model number for the engine used on Reo equipment. This information will be of assistance to you when ordering engine replacement parts. Models from 1964 through 1966 are included. Reminder: All "Reo Raider" engines with the prefix of M or MW were manufactured by Lauson. Lauson's model number may be located in the "Reo Engine Interchangeable Parts List."

### SNOW THROWERS

Reo Model Numbers	Lauson Model Numbers
415 ST-3	HT22B-3452 & H22-15016
417 ST-3	HTC30B-3434 & H30-35008
420 ST-3	HTR35B-3453 & H35-45005
ST-420	H35-45059E
STE-420	H35-45061E
ST-626 & STE-626	H60-75072B
ST-267	H60-75179E

### MOWERS

418LR, 421LR	H22-15029C
418L	LAV22-10021
421L, 421LI, 421LC	LAV25-20019
421LCP	LAV25-20020A
425L	V40-50030
L-158	LAV25-20098C
LC-521	LAV35-40126C
LCP-521	LAV35-40127C
RR-46 (1965)	V40-50077C
RR-65	V60-70066C
RE-65	V60-70067C
L-618	LAV30-30268E
LC-621	LAV35-40126E
LCP-621	LAV35-40127E
RR-46 (1966)	V40-50077D
RR-66	V60-70066D
RE-66	V60-70067D

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 Wheel Horse Service Bulletins 1961 - 1990: **#301e** Issued: February 1987

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THIS SERVICE BULLETIN SUPERSEDES ALL PREVIOUS

**ENGINE CROSS REFERENCE SERVICE BULLETINS (3, 9, 18, 71, 79, 93, 121, 129, 135, 153, 171, 187, 208, 234, 246, 276, 301, 301A, 301B, 301C, 301D)**

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1973-74	301 A-9 & 10
1975-76	301A-11 & 12
1977-78	301 A-13 & 14
1979-80	301A-15 & 16
1981-82	301A-17,18 & 19
1983	301B-20 & 21
1984	301C-22
1985	301D-23
1986	301D-24 & 25
1987	301E-26 & 27

**1964 thru 1966 REO PRODUCTS ENGINE CROSS REFERENCE LISTING**

This list provides the engine manufacturers model number for the engine used on Reo equipment. This information will be of assistance to you when ordering engine replacement parts. Models from 1964 through 1966 are included.

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**SNOW THROWERS**

REO MODEL	LAUSON MODEL
415 ST-3	HT22B-3452 & H22-15016
417 ST-3	HTC30B-3434 & H30-35008
420 ST-3	HTR35B-3453 & H35-45005
ST-420	H35-45059E
STE-420	H35-45061E
ST-626 & STE-626	H60-75072B
ST-267	H60-75179E

**MOWERS**

418LR, 421LR	H22-15029C
418L	LAV22-10021
421L, 421L1, 421LC	LAV25-20019
421LCP	LAV25-20020A
425L	V40-50030
L-158	LAV25-20098C
LC-521	LAV35-40126C
LCP-521	LAV35-40127C
RR-46 (1965)	V40-50077C
RR-65	V60-70066C
RE-65	V60-70067C
L-618	LAV30-30268E
LC-621	LAV35-40126E
LCP-621	LAV35-40127E
RR-46 (1966)	V40-50077D
RR-66	V60-70066D
RE-66	V60-70067D

## 1967 REO PRODUCTS ENGINE CROSS REFERENCE LISTING

The information below provides the engine manufacturer's model number for the engine used on 1967 model Reo equipment.

REO MODEL NUMBER	MOWERS	
	POWER PRODUCTS MODEL NUMBER	LAUSON MODEL NUMBER
LS-1827 (Challenger)	AV-52 Type 638-30	
LS-2027 (Challenger II)	AV-52 Type 638-26	
LS-2047 (Challenger IV)		LAV30-30268F
LC-2127 (Custom II)	AV-52 Type 638-26	
LC-2147 (Custom IV)		LAV35-40126F
LCP-2147 (Regal IV)		LAV35-40127F
LL-217 (Royal IV)		H25-25100F
RR-47		V40-50077E
RR-67		V60-70066E
RE-67		V67-0067E

### SNOW THROWERS

ST-420	H35-45059E
STE-420	H35-45061E
ST-268	H60-75179F

## 1968 REO PRODUCTS ENGINE CROSS REFERENCE LISTING

The information below provides the engine manufacturers model number for the engines used on 1968 model Reo equipment.

REO MODEL NUMBER	LAUSON MODEL NUMBER
LCP-2147 Regal IV	LAV 35-40127G
LCP-2147-1 Regal IV	LAV 35-40127G
LC-2147 Custom IV	LAV 35-40126G
LL-217 Reel Royal	H 25-25100F
4-2631 26" Snow Thrower	H 60-75179G
4-2632 26" Trailblazer	H 60-75179G
4-1031 20" Pathfinder	H 35-45176F
2-1231 Lawn Skiff Elec.	V 60-70067G
2-2231 Lawn Skiff Recoil	V 60-70066G

## ENGINE CROSS REFERENCE LISTING FOR 1955 THRU 1966 MODELS

All Wheel Horse Part Numbers are for reference only All engine and engine parts must be ordered from the Engine Manufacturers Sales and Service outlets.

VEHICLE IDENTIFICATION MODEL NUMBER	KOHLER MODEL NUMBER	CLINTON NUMBER MODEL NUMBER	LAUSON MODEL NUMBER
RJ 35, RJ 58, RJ 59	K-90	B1290-1107	
ST 400, 401	K91-31388A	B1290-1107	
ST 550, 551			H55B-1170 H55D-2113
701, 702	K161S-28622E		
32-R, 502			HT55C-3088
32-E, 552			HT55C-3089
33-R, 603			H60-75016
33-E, 653			H60-75009
633	K141T-29102A		
753	K161S-28626E		
953	K241S-40135A		
34-R, 604			H60-75004B
34-E, 654			H60-75063B
704	K161T-28937E		
854, 855, 875	K181S-30108A		
1054, 1054-A	K241S-46215A &		