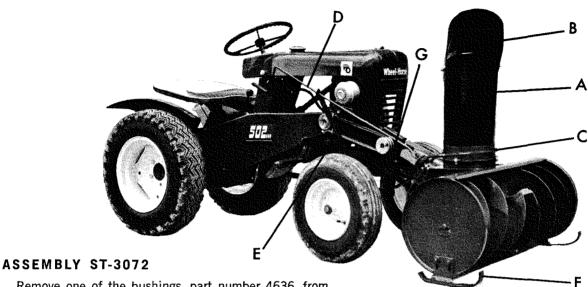
## PARTS LIST AND INSTRUCTIONS



WHEELHORSE PRODUCTS, INC. - SOUTH BEND, IND.

# SNOW THROWER ST-3072 & ST-302



Remove one of the bushings, part number 4636, from the top of the shroud, install chute, part number 4605 "A", and replace bushing. (Be sure bushing turns freely before securing with lock nut.) Fasten the chute deflector, part number 4609 "B", to chute with the two  $\frac{1}{4}$ " x  $\frac{1}{2}$ " machine screws, part number 1437, and wing nuts, part number 1327. Place the 45" V-belt, part number 1581 "C", around the chute and the eye bolt sheave and install spring, part number 1014.

Insert pivot crank, part number 4637 "D", through hole in the end of the pivot crank support, part number 4644, then hook pivot crank to the eye bolt sheave. Fasten the front mounting supports, part number 2519, to the tractor frame using the four 36%" x 11/4%" bolts, part number 1426, and secure the pivot crank support to the right side with the same bolts.

Install the two 31" V-belts, part number 1580, and adjust the clutch rod, part number 4096 "E", so that the belts have the proper tension when the attachment clutch pedal is pushed forward to the locked position. Fasten the belt idler bracket, part number 4617, to the engine with the  $5/16" \times 1/2"$  bolt, part number 1195 and adjust so that it holds the belt when the attachment clutch pedal is released. (Note: Belt idler bracket should not touch the belts when running.)

Fasten the lift arm, part number 1949, to the lift assembly, part number 4638, with the %" x 1" bolt, part number 1425. (Be sure lift arm is installed with the %" hole toward the front.) Remove the lift cable from the bottom hole in the tractor lift and install the other end of the lift arm, in the bottom hole with the  $\frac{1}{4}$ " x 1" bolt, part number 1439.

#### **ASSEMBLY ST-302**

When mounting the ST-302 snow thrower, install the mounting bracket, part number 4630, first and then fol-

low the assembly instruction for the ST-3072. It is necessary to install the clutch pedal, part number 4656, and the belt guard, part number 3819. (Note: The ST-302 uses a single 74" V-belt, part number 1582, instead of the double belt drive necessary on the ST-3072.) The ST-302 also uses a different lift rod, part number 4651, one end of which is fastened to the bottom of the lift lever and the other end to the lift assembly, part number 4638.

#### OPERATION

The adjustable chute allows the operator to control the direction the snow may be thrown by turning the convenient pivot crank. The upper part of the snow chute is adjustable to deflect the snow in an upward or downward direction depending upon conditions. There are also skids "F" on each side which may be raised or lowered to prevent the snow thrower from catching on uneven surfaces.

Under some conditions, it will be necessary to coat the auger, chute, and the inside of the shroud with paraffin or wax to prevent snow and ice from sticking. Best results are obtained with slow forward movement of the tractor and high auger speed. Therefore, under normal conditions, the tractor should be operated in first gear with full throttle.

#### LUBRICATION

Before operating, fill gear box "G" to the level of filler plug with No. 90 oil. The oil level should be checked occasionally. The drive chains should be oiled with a light grade of machine oil, all other bearings and moveable parts should be oiled frequently. In storing the snow thrower, it is advisable to coat the auger with a heavy machine oil to prevent rust.

### ST-3072 & ST-302 SNOW THROWER

Ref. No.	Part No.	Description	Req'd. No.	Ref. No.	Part No.	Description	Req'
1	1002	1/8 x 1 Cotter Key	2	42	2525	Woodruff Key No. 9 Spec.	2
2	1012	3/4 x 1 Cotter Key	2	43	2526	Drive Gear	1
3	1014	Spring	1	44	2527	Lower Drive Shaft	1
4	1042	5/6-18 x 5/6 Socket Head Set Screw	1	45	2538	Cover	1
5	1045	5/4 Lock Washer	1	46	2536	Gear Box	1
6	1052	3/8 Wrought Washer	1	47	2537	Gasket	1
7	1066	1/4-20 x 1/4 Socket Head Set Screw	5	48	2548	Pivot Tube	1
8	1085	3/4 Shaft Collar	2	49	3800	Chain	1
9	1108	1/8 Std. Pipe Plug	1	50	3808	Reel Shaft	1
10	1113	1/4 Lock Washer	6	51	3809	Wear Plate	1
11	1122	No. 9 Woodruff Key	4	52	3819	Belt Guard used on ST-302	1
12	1166	1/4-20 x 3/4 H.H.C.S.	6	53	3860	Sprocket	1
13	1195	%-24 x ½ H.H.C.S.	1	54	3861	Chain	1
14	1222	3/8-16 x 3/4 Flat Hd. Mach. Screw	5	55	3866	Mounting Bracket	1
15	1278	Shim Washer	3	56	3872	Jack Shaft	1
16	1303	Seal	2	57	3873	Sprocket	1
17	1327	1/4-20 Wing Nut	2	58	4090	Brace	1
18	1385	1/4-20 x 1/2 Keps. Screw	2	59	4096	Clutch Rod	1
19	1406	1/4-20 Lock Nut	11	60	4605	Chute	1
20	1408	3/8-16 Lock Nut	20	61	4609	Chute Deflector	1
21	1423	3%-16 x 34 H.H.C.S.	2	62	2519	Front Mounting Support	2
22	1425	3/6-16 x 1 H.H.C.S.	2	63	4613	Mounting Channel	1
23	1426	3/8-16 x 11/4 H.H.C.S.	6	64	4617	Belt Idler Bracket	1
24	1433	3%-16 x 7% H.H.C.S.	9	65	4600	Shroud	1
25	1434	3% Washer	5	66	4620	Reel Ass'v	1
26	1435	1/4-20 x 3/4 H.H.C.S.	9	67	4624	Pivot Bar	1
27	1436	1/4 Washer	4	68	4628	Shield	1
28	1437	1/4-20 x 1/2 Round Hd. Mach. Screw	2	69	4630	Mounting Bracket for ST-302	1
29	1437	1/4-20 x 1 H.H.C.S.	ī	70	4635	Spacer	1
30	1515	34 Bearing	4	71	4637	Pivot Crank	1
31	1513	Needle Bearing	2	72	4638	Lift Ass'v.	1
32	1523	Needle Bearing	1	73	4640	Eye Bolt Sheave	1
33	1538	Needle Bearing	i	74	4643	Handle	1
34		"V" Belt (A) 31" Lg. for ST-3072	2	75	4644	Pivot Crank Support	1
34	1580	order in sets of (2)	1 -	76	4648	Bracket used on ST-302	1
25	1501	"V" Belt Chute 45"	1	77	4649	Skid R. H.	1
35	1581	"V" Belt (A) 74" Lg. for ST-302	1	78	4650	SMAL H	1
36	1582		i	79	4651	Lift Rod ST-302	1
37	1628	Sheave	1	80	4656	Clutch Pedal for ST-302	i
38	1949	Lift Arm ST-3072	1	81	4636	Bushing	1
39	2489	Sprocket	1 1	82	4627	Spacer	li
40 41	2522 2524	Drive Shaft Jack Shaft Gear	1 1	O.	1021		1

