PARTS CATALOG

# REVERSING TRANSMISSION MODEL 5101-B and 5101-E

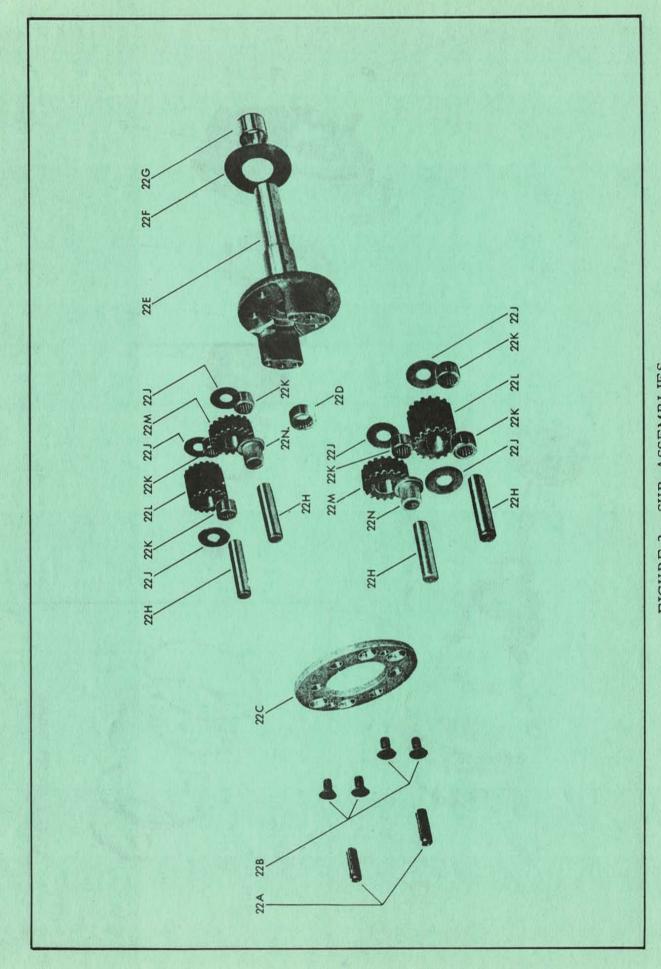
U. S. PATENT 2,370,484





# THE SNOW-NABSTEDT

GEAR DIVISION OF
GRANITE STATE MACHINE CO., Inc.
124 Joliette St., P.O. Box 779, Manchester, N.H. 03105
(603) 668-1900 Telex 94-3458



Parts are identified by reference number. See parts list for correct part number. SUB-ASSEMBLIES FIGURE 2.

PARTS LIST

MODEL 5101 REVERSING TRANSMISSION

NO.	PART NO.	QUAN.	NAME	ITEM NO.	PART NO.	QUAN.	NAME
				22F	8TR-5134		Nylon Washer
2	20186	1	Oil Seal	22G	10237-2	1	Bearing Inner Race
3	2607	6	Screws	22H	7938	4	Dowel
4	1302	6	Lockwasher	22J	9E-5105	6	Nylon Washer
				22K	10495	6	Bearing
6	26-5109	1	Shaft	22L	9-5103	2	Long Pinion
7	10736	1	Bearing	22M	9A-5103	2	Short Pinion
				22N	6271	2	Bushing
9	20187	2	Oil Seal	23	27A-5106	1	Cross Shaft
10	30-51027		Housing	24	1228	3	Key
11	5X-5104	2	Brake Band Assembly	25	10-5104	2	Cam
			consisting of:	26	5061	2	Snap Ring
	5-5104	1	Band	27	8TR-5134		Nylon Bushing
	5L-5103	2	Linings	28	7A-5102		Ring Gear
	7101	1	Roll Pin	29	6268		Bushing
	7121	1	Roll Pin	31	31A-5103		Gasket
	22-5101	i	Cam Roll	32	30-5106		Housing
12	8TF-5101		Nylon Washer	33	6267		Bushing
13	8A-5102		Drum	34	30H-5102		Breather
14	8-5102		Forward Gear	35	4527	2	Screws
15	50142		Snap Ring	36	1703	2	Nuts
16	6272		Bushing	38	T0237-1	ĵ	Bearing
17	26A-5101		Spacer	4IE	31A-5104	1	Gasket
18	8TR-5101		Nylon Washer	42E	31-5103	1	Adapter
	011C-3101		Trylon Trasher	43E	31A-5103	1	Gasket
				44E	30-5106		Housing
21	2101	3	Pipe Plugs	45E 46E	41A-5101 1302		Stud
22	3X-5104		Pinion Carrier &	47E	1802		Lockwasher Nut
22	38-5104	1	Shaft Assembly	48E	6273		Washer
22A	7101	2	Pin Assembly	49E	2642	3	Screws
22B	9403	4	Screws	50E	1304	3	Lockwasher
22C	3-5104			51E	27A-5107	1	Cross Shaft
22D			Cage	52E	10-5104	2	Cam
200	10238	TEST CONT	Bearing	53E	5061	2	Snap Ring
22E	48-5106	R. J. B. S. S.	Shaft	54E	1228		Key

# PRICE LIST FOR PARTS AND ASSEMBLIES

# SN 5101B -3, -4, -5, -6

# REVERSING TRANSMISSIONS

# PARTS

				Quantity	Quantity used
	List			used in	in Complete
Part No.	Price	Part Name	Assembly	Assembly	Transmission
Tare No.	11100	rare name	7133CIIID 17	7.050	110110111101111011
3-5104	14.45	Gear Cage	A		1
*5-5104	11.12	Brake Band	В	Marie Paris	2
*5L-5103		Lining	В	2	L.
7A-5102	51.85	Internal Gear	Č	1	
THE RESERVE THE PROPERTY OF THE PARTY OF THE	18.15		D-E	1-1	
8-5102		Gear	E		
8A-5102	35.15	Drum			
8TF-5101	.90	Washer			
8TR-5101	1.05	Washer			
8TR-5134	.90	Washer	A	1	
9-5105	7.80	Long Pinion	A-F	2-1	2
9A-5108	6.00	Short Pinion	A-G	2-1	2
9E-5105	.25	Washer	A	6	6 2 2
10-5104	12.30	Cam	H	2	2
10-5106	11.10	Cam (-3)			2
22-5101	1.70	Cam Roller	В	1	2
26-5109	45.20	Input Shaft			
26-5106	74.10	Input Shaft (-4)			
26A-5101	2.35	Spacer	D-E	1-1	
27A-5106	19.00	Cross Shaft	Н		
30-51027	72.90	Housing (Input)	J		
30-5106	62.90	Housing (Output)	K		
30-51019	71.10	Housing (Input) (-4)	L	1	
30H-5105	2.40	Breather (-5)			
30H-5107	1.00	Breather			
31A-5105	1.70	Gasket			1
48-5106	90.35	Output Shaft	A-M-N	1-1-1	1
48-51019	100.65	Output Shaft (-6)			1
10237-1	3.80	Bearing (Outer Race)	K	1	1
10237-2	3.40	Bearing (Inner Race)	A-M-N	1-1	1
10238	1.65	Bearing	M-N	1-1	1
10495	1.40	Bearing	A-F-G	6-2-1	6
10736	9.00	Bearing			i
10558	8.00	Bearing (-4)	L	1	
1228	.30	Key	H	3	3
1302	.15	Lockwasher			6
1703	.40	Nut	PROPERTY OF		3 6 2 2 2 2
20186	2.20	0il Seal			2
20187	1.00	Oil Seal	J-K-L	1-1-1	2
20202	5.05	011 Seal (-4)	L	THE COURT OF THE LAND	
2101		Plug		THE RESERVE TO SERVE	
2607	.70				3 6
200/	.30	Screw			

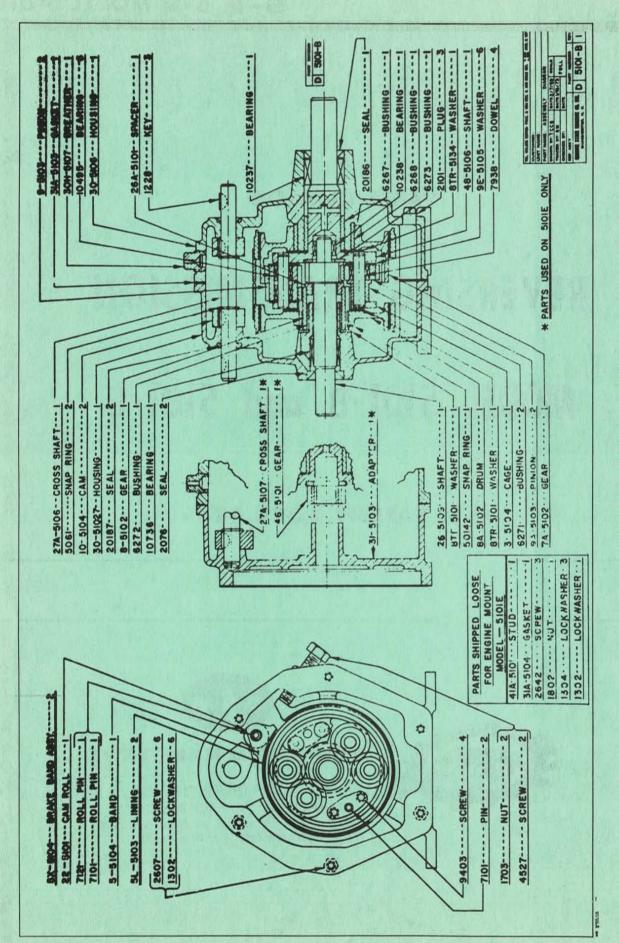


FIGURE 1. CROSS SECTION

Parts are identified by correct part number.

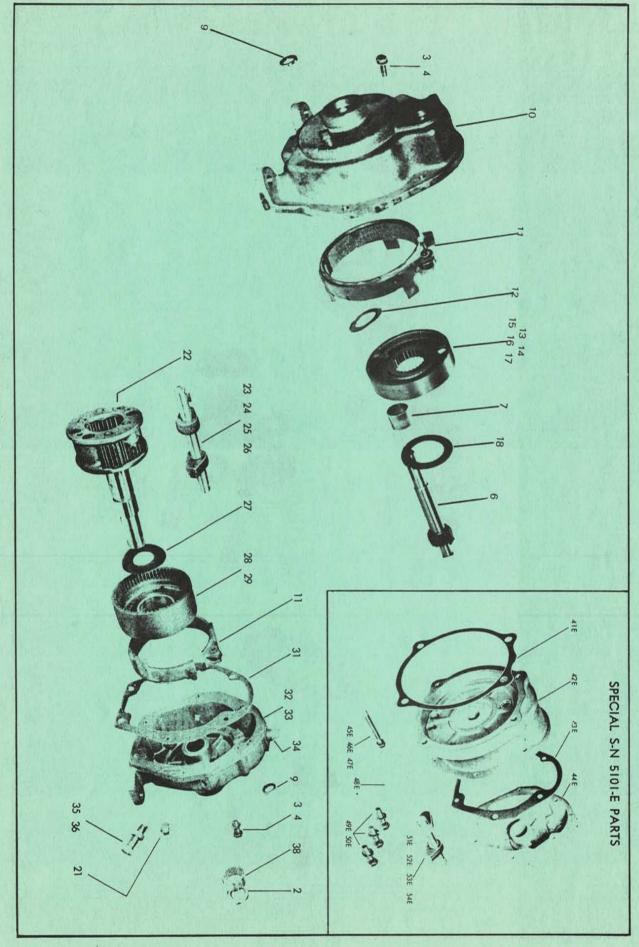


FIGURE 3. GEAR CAGE ASSEMBLY

Parts are identified by reference number. See parts list for correct part number.

# REVERSING TRANSMISSION MODELS 5101-B AND 5101-E

#### 1. WARRANTY

The Company's products are guaranteed to be made of first class material, and in a skillful and workmanlike manner, and to be in perfect running order at the time they leave the factory. They are guaranteed against any defective material or workmanship, and any part proven defective within twelve months from the date of shipment will be replaced free of charge, F. O. B. our plant, on return of such defective part to the Company, transportation charges prepaid. No parts, however, shall be returned without the express authorization of this Company so to do.

There are no warranties, expressed or implied, except such warranties as are definitely set forth herein. Any part or parts manufactured, altered or repaired outside the factory without written approval from the factory shall void all warranties set forth herein. Under no circumstances will the Company be charged for labor to install parts furnished under warranty unless it agrees in advance to do so. Shipping charges on warranty parts shall be for the account of the customer unless the Company agrees in advance to pay them.

The Company shall in no event be held liable for any consequential damages or other damages or delay caused by defective material. Equipment and accessories, including bearings, not manufactured by the Company are guaranteed only to the extent of the original manufacturer's guarantee.

The Company reserves the right to improve its products through changes in design or material without being obligated to incorporate such changes in products of prior manufacture.

#### 2. ADJUSTMENTS

The forward and reverse clutches are adjusted externally with the screws which project from both sides of the case. Adjust one clutch at a time. Loosen the jam nut. Turn in the adjusting screw a fraction of a turn if more tension is desired. Turn out the adjusting screw for less tension. Test the adjustment by moving the operating lever towards its respective adjusting screw. Tighten the jam nut.

Do not tighten clutches excessively since this only increases the operating effort without improving clutch action and may result in damaged brake bands. Occasionally, during cold weather operation, the clutches may

slip even though correctly adjusted. In such a case the lubricant must be changed to a lighter grade as specified in lubrication instructions.

#### 3. LUBRICATION

Important: All gears are shipped dry from the factory. Be sure to add oil before running.

Quality of Oil — Use a good grade of straight mineral oil — SAE 30 above 32° F; SAE 10 below 32° F. Examples of recommended lube oils: Esso Lube Motor Oil; Gulf Lube Motor Oil; Quaker State Non-detergent Motor Oil (ML MM), or equivalent.

Fill unit with lubricating oil through breather hole on top of unit until oil flows from oil level hole on either side. Sometimes oil will follow the internal parts and oil will flow out the oil level holes before the unit is filled with oil to the level holes. Be sure unit is filled to oil level hole.

#### OIL CHANGE

- The transmission should be drained and refilled after the first 30 hours of operataion.
- After this, a change of oil every 100 hours of operation or every six months, whichever occurs first, for units operating under favorable conditions.
- 3. Where operating conditions are severe, such as rapid rise and fall in temperature of the gear case with accompanied condensation on the inside walls and resulting formation of sludge, or where operation is in moist or dusty atmospheres, or in the presence of chemical fumes, it may be necessary to change the oil at intervals of one to three months.

#### 4. REPLACEMENT OF PARTS

Should it become necessary to replace any gear due to wear or breakage, the mating gears must be carefully examined for wear or cracks. If any doubt exists as to the condition of the mating gears, they should be replaced.

In general, all gearing is sold complete with bearing and bushings installed.

The sintered bushings and needle bearings used in this transmission requires special assembly and sizing tools as specified by the respective manufacturers. Therefore, the replacement of these parts should not be attempted unless proper equipment is available.



	List			Quantity used in	Quantity used in Complete
Part No.	Price	Part Name	Assembly	Assembly	Transmission
4527	1.35	Screw	te ranks Washing		2
5041	.80	Snap Ring			SINE COMPANY
5061	.70	Snap Ring	H H	2	2
50128	.20	Snap Ring			2
50142	.50	Snap Ring	E	1	1
6267	1.50	Bushing	K	1	1.44
6268	2.20	Bushing	C	1	1 *
6271	.70	Bushing	A	- 2	2
6272	.75	Bushing	D-E	1-1	I de la constante de la consta
7101	.20	Roll Pin	A-B	2-1	4
7121	.70	Roll Pin	В В	1	2
7938	1.15	Dowe1	Α	. 4	4
8203	.95	Screw			3
- 9403	.95	Screw	A-M-N	4-4-4	4

\*Not Supplied Separately

### ASSEMBLIES

To determine which components make up each assembly match key letters shown in columns headed "Assembly."

	List		Models		Quantity of Assemblies
Part No.	Price	Part Name	Used In	Assembly	Used
3X-5104	155.95	Gear Cage Assembly	A11	Α .	1
5X-5104	37.50	Brake Band Assembly	A11	В	2
5X-5104R	19.60	Relined Brake Band			
7AX-5102.	54.00	Gear Drum Assembly	A11	C	
8X-5102	21.15	Gear Assembly	A11	D	
8AX-5102	56.75	Drum Assembly	A11	Ε΄,	1
9X-5105	12.50	Long Pinion Assembly	A11	F	2
9AX-5106	10.05	Short Pinion Assembly	A11	G	2
27AX-5106	45.80	Cross Shaft Assembly	A11	Н	
30X-51027	73.90	Input Housing Assembly	5101,-3,-5,-6	J	
30X-5106	68.75	Output Housing Assemb	ly All	K	
30X-51019	85.10	Input Housing Assembly		L	
48x-5106	99.55	Output Shaft Assembly	5101,-3,-4,-5	M	
48x-51019	109.90	Output Shaft Assembly	-6	N	