

18G-SLLRO

Item	Description	Qty.	Part No.
1	Cap screw	8	20406
2	Bracket (R.H.)	1	21120
	Bracket (L.H.)	1	21003
3	Strap	1	17685
4	End Bracket	1	20984
Items 5-17 make up SA1130 (L.H.) Clutch Ass'y or SA1132 (R.H.) Clutch Ass'y			
5	Cotter Pin	2	20514
6	Pin	1	21005
7	Knob	1	21000
8	Nut	2	21010
9	Yoke (L.H.) (SA1130)*		
	Yoke (R.H.) (SA1132)		
10	Spring	1	21004
11	Rod	1	21001
12	Spring	1	21011
13	Washer	1	21012
14	Rod	1	21009
15	Cotter Pin	1	20514
16	Drag Brake (L.H.) (SA1130)	1	SA1129
	Drag Brake (R.H.) (SA1132)	1	SA1131
17	Pin	1	21007
18	Lockwasher	8	20558
19	Nut	8	20295

Item	Description	Qty.	Part No.
20	Clutch	1	20978
21	Washer	1	20107
22	Cap screw	4	28578
23	Cap screw	2	170177
24	Washer	2	20617
25	Cam	1	23875
26	† Drive Screw	3
27	† Instruct. Plate	1
28	Cam Plate	1	SA3568
29	Brk Shoe Ass'y	2	SA1733
30	Nut	1	20114
31	Lockwasher	1	20115
32	Key	1	20279
33	Drum, Brake	1	29503
34	Seal	2	20232
35	Cap screw	12	20289
36	Housing, Brake	1	23874
37	Gasket	2	20117
38	Bearing	2	20302
39	Housing	1	20198
40	Lockwasher	12	20518
41	Nut	12	20267
42	Nut	4	20271
43	Lockwasher	4	20526
44	Plug	3	20286
45	Bushing	2	20171
46	Dowel Pin	2	20517

Item	Description	Qty.	Part No.
47	Worm (L.H.)	1	20240
	Worm (R.H.)		20086
48	Cap	1	20080
49	Key	1	20105
50	Strap	1	17685
51	Gasket	2	20181
52	Cover	1	40771
53	Cap screw	4	20325
54	Cap screw	4	20268
55	Breather	1	26799
56	Drive Screw	4	21775
57	Name Plate	1	21184
58	Gear (L.H.)	1	20750
	Gear (R.H.)		20749
59	Carrier	1	22418
60	Nut	2	20566
71	Key	2	20182
62	Pin	1	20717
63	"U" Bolt	1	21129
64	Drum	1	20976
65	Shaft	1	939270
66	Key	2	25762
67	Cap screw	8	21059
68	Bushing	1	20980
69	Grease Fitting	5	21128

† Part of SA3568 Cam Plate.

* Pictured

BRAKE ADJUSTMENT

FREQUENCY: Brake adjustment should be checked daily during heavy use or after one (1) hour of winch operation. Inspection of brake shoes and drum for wear should be made after every ten (10) hours of winch operation.

PROCEDURE:

To Adjust Brakes:

1. Remove load from winch cable.
2. Remove sprocket, coupler, universal joint, or motor from input shaft of winch.

Note: If power source to winch requires no appreciable torque to turn in a "Neutral" or "Off" position and an adapter can be made to fit the coupling, this step is not necessary.

3. Using a suitable adapter, place a torque wrench on the input shaft of the winch (47).
4. Measure torque while turning the input shaft in the *payout* direction. Torque settings should be as follows:

Model	Torque (lb.-ft.)
18G	50

Note: The torque value above is necessary to brake the rated load of the winch. In no case should the brake setting ever be increased above this torque value.

5. To adjust the brake torque, loosen the two cap screws (23) and rotate the cam (25). To increase the brake setting, rotate away from the "0" or center setting. To reduce the brake setting, rotate the cam back toward the "0" or center setting.
6. Recheck the torque value as indicated in 4. above.

To Inspect or Repair Brakes:

1. Loosen and remove cap screws (23) and washers (24) from brake assembly.

2. Gently pry the cam (25) out of the cover (28).

Caution: Be sure to note which set of drilled and tapped holes were used to position the cam. Failure to re-install the cam in this position will result in the brake engaging in the inhaul rather than the payout mode.

3. Remove the cap screws (22) from the cover (28).
4. Remove the cover (28) from the brake housing (36).
5. The brake shoes (29) may now be removed for inspection.
6. If the shoe linings are worn flush with the rivet heads, they should be replaced.
7. Inspect the drum (33) for severe wear or scoring. If necessary, replace the drum.
8. To remove the brake drum, remove the nut (30) and washer (31).
9. Insert two cap screws in the holes provided in the brake drum and, using a gear puller, remove the drum.
10. Inspect the inside lower part of the brake housing for the presence of oil. If an oil leak exists, replace the seal (34).

To Change Direction of Brake Engagement:

1. Remove cap screws (23) and washers (24).
2. Rotate cam (25) in either direction until another set of drilled and tapped holes becomes visible through the slots in the cam.
3. Re-install the cap screws (23) and washers (24) in these tapped holes.
4. Adjust brake as described above.

Caution: Any change in winch mounting, direction of cable spooling, or replacement of worm and gear may effect the operation of the brake. If you have any question about the performance of the brake on your Tulsa winch, stop using it immediately and contact Tulsa Winch, or one of our authorized distributors.

Model Code:

* TYPE UNIT
(Omit if Basic Unit)
G = Speed Reducer

18G SERIES
18G = Model 18G

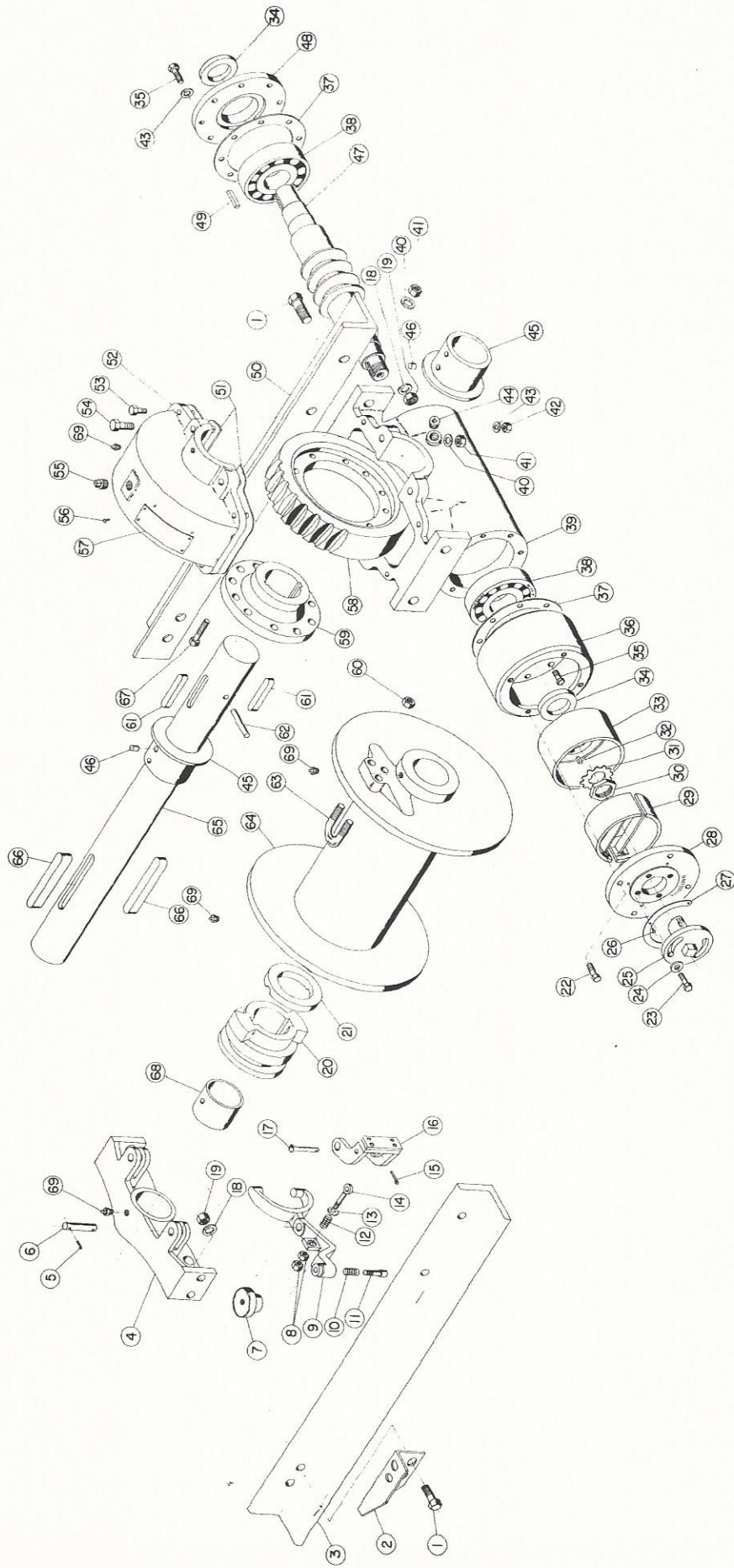
S TYPE WORM
S = Single Lead

L WORM ANGLE
L = Left
R = Right

L GEAR BOX LOCATION
(From Behind Truck)
L = Left
R = Right

R INPUT SHAFT LOCATION
(Relating to Truck)
F = Front
R = Rear

O CABLE SPOOL
O = Over Drum
U = Under Drum



Warning: Not Approved for Personnel Lifts!
Read Operating and Safety Manual Before Using Any Winch!