

Forestry Commission



FALSTONE TRACTOR

SERIES III

<u>Component</u>	<u>Part Number</u>	<u>Drawing Number</u>	<u>Per machine</u>
Safety Cab		OFC5-148	1
comprising:-			
Anti Vibration Mounting	17-3671-IMN35		6 (1set)
Anti Vibration Mounting (Group)	JHB-F-081 (includes spacer and washer)		6 (1set)
Metalastic Bush	13-878		4 (1set)
Step (Flexible)	JHB-F-070 (group)	A1-FC-6-131	2
Strut (side bracing)		2FC-5-115	2
Windscreen	JHB-F-071		1
Windscreen (rubber insert)	JHB-F-072		1
Window (door)	JHB-F-073		2
Window (door rubber insert)	JHB-F-074		2
Side Window (Large)	JHB-F-075		2
Side Window (Large rubber insert)	JHB-F-076		2
Side Window (small)	JHB-F-077		2
Side Window (small rubber insert)	JHB-F-078		2
Guard (Rear) cab	JHB-F-079		1
Strut (Bonnet Guard)		3FC-5-147	2
Guard (side and tail lamps) L/H		A1-FC-5-169	1
Guard (side and tail lamps) R/H		A1-FC-5-170	1
Guard (indicator)	JHB-F-080		2
Insulation (kit)	JHB-F-082		1
Door (Rubber insertion)	JHB-F-083		Kit

Obtainable from:- JHB Implements Ltd
Ickburgh
Thetford
Norfolk

Tel: Mundford 273-4

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<u>Component</u>	<u>Part Number</u>	<u>Drawing Number</u>	<u>Per machine</u>
Butt Plate	JHB-F-090	OFC-5-145	1
comprising:-			
Butt Plate (with fairlead)	JHB-F-090		1 (assembly)
Roller (edge)	JHB-F-091		2 (assembly)
Roller (verticle)	JHB-MF-016		4 (assembly)
Roller (Hor.)	JHB-MF-016		4 (assembly)
Tie (Butt Plate to winch)	JHB-F-092		1
Y. Frame		1FC-5-117	1
Bracket (winch mounting)	JHB-F-093	OFC-5-114	1
U Bolt	JHB-F-094		1
Axle Filler Plate (Front)		OFC-5-110	1
Engine Sump Guard		2FC-5-109	1
Centre Trans. Guard		1FC-5-111	1
Centre Trans Guard (Fixed)		2FC-5-113	1
Chain (Winch Guard Top)	JHB-F-095	2FC-5-116	1
Chain (Guard Side)	JHB-F-096	2FC-5-112	Quote L/H or R/H
Chain	JHB-F-097	(Reynolds 119063)	1
Chain (Connecting Link)	JHB-M-033		1
Chain Tensioner	JHB-MF-018		1

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<u>Component</u>	<u>Part Number</u>	<u>Drawing Number</u>	<u>Per machine</u>
Winch Lever Adjuster		1FC-5-125	1 (assembly)
Winch Drum Guard	JHB-F-098		1 (assembly)
Foot Throttle L/H	JHB-F-099		1 (assembly)
Valve Guard Cover (wheel)	JHB-MF-034		4
Tie Rod Engine-Transmission	JHB-F-100		1 (assembly)
Interior Mirror	JHB-M-031		1 (assembly)
Side Lamp	1793M		2
Tail Lamp	1793A		2
Wiper (Windscreen)	75113F		1
Indicator	PMG 6219		2
Sun Visor	JHB-F-108		1

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<u>Component</u>	<u>Part Number</u>	<u>Drawing Number</u>	<u>Per machine</u>
Log Rolling Blade	JHB-F-101	Group complete	1
comprising:-			
Blade		1FC-5-108	1
Arm		1FC-5-106	1
Bush	JHB-MF-010		2
Pin (Hydraulic Cylinder Ram End)	JHB-F-102		2
Bearer	JHB-F-103	1FC-5-104	Quote L/H or R/H
comprising:-			
Blade Arm Hinge Pin	JHB-F-104		2
Bolt (with insert)	JHB-M-028		(affix by welding) 8
Guard (Radiator)		2FC-5-119	1
Tie Bolt	JHB-F-104		1 (assembly)
Pin (Group)			
Hydraulic Cylinder)	JHB-F-105		2
Heel End)			

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<u>Component</u>	<u>Part Number</u>	<u>Per machine</u>
Hydraulic Cylinder (complete)	JHB-MF-040 Service exchange if required	2
Seal Set	JHB-MF-015	2
comprising:-		
Seal (Double)	R1-09845-DW	2
Seal (Single)	R9-398-S	2
Seal (Wiper)	W-01750	2
O. Ring	200-232	2
O. Ring	200-218	2
Control Valve (complete)	JHB-MF-041	1
Seal Set	JHB-MF-019	1
comprising:-		
Gland Washer	PD-4330-32	2
O. Ring	200 - 16	2
Bracket	JHB-F-107	1
Hoses (Hydraulic) set complete	JHB-F-110	
comprising:-		
Hose	97-90-S.F.E.	1
Hose	64-90-SF.STE	1
Hose	73-90-S.F.E.	2
Hose	53-90 S.F.S.T.E.	1
Hose	37-90 S.F.S.T.E.	2
Hose	32-90 S.F.S.T.E.	2

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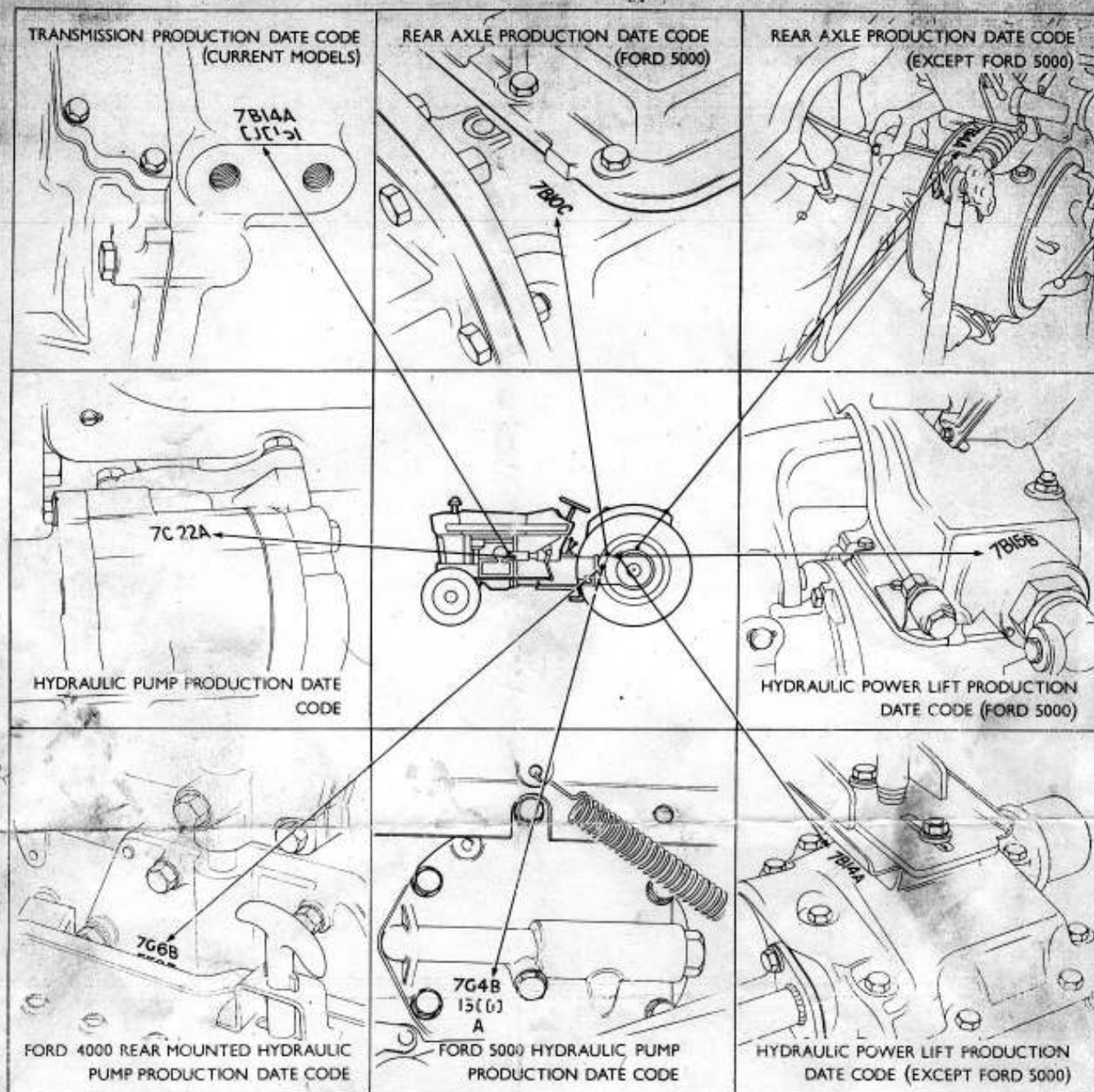
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FALSTONE TRACTOR

SERIES III

<u>Component</u>	<u>Part Number</u>	<u>Per machine</u>
Winch	Igland Special	1
Sprocket (Winch)	15T	1
Sprocket (PTO)	19T	1
Sprocket (Intermediate)	15T - 15T	1

Obtainable from:- Refer Winch Section
Parts List



PRODUCTION DATE CODES

Year	Month	Day	Shift
1965 - 5	Jan - A	Numerical	Midnight - A
1966 - 6	Feb - B	Date	Day - B
1967 - 7	Mar - C	1 through 31	Afternoon - C
1968 - 8	Apr - D		
1969 - 9	May - E		
1970 - 0	June - F		
1971 - 1	July - G		
1972 - 2	Aug - H		
1973 - 3	Sept - J		
1974 - 4	Oct - K		
	Nov - L		
	Dec - M		

Example of Production Code: 7G4B

7 --- Year - 1967
 G --- Month - July
 4 - Day - 4th
 B Shift - Day



4000/2 WINCH.

OPERATION INSTRUCTIONS, PARTS LIST AND
REPAIR INSTRUCTIONS.

It is essential that all winch equipment is checked daily to ensure trouble free service. Attention should be paid to the following points:-

- (a) Check operation of clutches and brakes.
- (b) Check lubrication and tension of drive chain.
Dry graphite may be used in dusty climates.
- (c) Lubricate clutch withdrawal mechanism.
- (d) Wire rope for condition.
- (e) Chokers, sliders and keyholes.
- (f) General examination of mounting for security of nuts and bolts.

Consult Tractor Manual for recommended checks. The winch will not operate without the tractor and vice versa.

Before using the winch in the forest the operator should be familiar with the controls. The operator should practise one handed operation of the clutch and brake when winching, and should sit on tractor in the normal way. Correct adjustment of these levers is important to enable one handed operation.

PHASE 1. Learn the limitations of the unit by finding the load most suitable to the conditions.

THE MAXIM IS "LITTLE AND OFTEN".

PHASE 11. It is good practise to position the tractor as close as conditions permit to the logs to be extracted.

PHASE 111. CHOKERING. The rope and choker chains (3 or 4) depending on log size are pulled by the operator to the log furthest from the tractor - the chain is attached 12" - 15" from the end - (any further from the end and the log will go under the Logging Plate) - then work back to the tractor, chokering the appropriate logs at the same time ensuring a clear line of pull. The operator then returns to the driver's seat to operate the winch. This enables him to use the tractor controls i.e. foot brake and throttle while winching. The clutch lever is used in a positive manner (no slipping) until the load touches the Logging Plate when the brake is applied as the clutch is released in one motion.

The procedure is repeated on the other Drum.

- 2 -

PHASE IV. If consideration has been given to Phase 1 no difficulty should be experienced in travelling with the load. If the tractor sticks due to ground conditions it may become necessary to drop the load. When this is done it is important not to drive too far from the dropped load as lift is lost on the subsequent pull. If loads are pulled in one drum at a time they must never pass each other fully as the butts of one load may foul the points of the other.

PHASE V. In difficult conditions only pull with one drum at a time.

PHASE VI. If the situation arises that having pulled one load in behind the piling shield and the other load gets stuck behind a rock or stump it is best to keep hold of load, put tractor in reverse and winch at the same time - pushing the load back until the tractor is back far enough to lift the load that is stuck over the obstacle.

PHASE VII. When reversing the tractor with ropes pulled out be very careful not to run over them. The best way to prevent this is to put slight pressure on both clutches and allow the drums to wind up slack rope.

PHASE VIII. When turning and wheel spin occurs forcing one to drop part of the load the following procedure should be adopted.

When turning to the right release the load on the left hand drum only and this prevents the raised load crossing the dropped load which would then be difficult to winch in.

The reverse procedure must be adopted on a left turn. Winching in of the dropped load can then be completed without stopping the tractor.

PHASE IX. At the landing area when the load has been released the tractor should be driven forward to leave sufficient slack rope to enable chokers to be removed easily.

Lubrication points and regular adjustments

Check the oil level at level plug (Fig. no. 58A) (Early model winches Fig. 63).

Change oil every 3 months. Use Shell Dentax 90 or 140 oil. Remember that grease is required between the clutch lever and bearing thrust Fig. 34 & 36 and Fig. 34A & 36A except in dry countries. No form of lubricant to be used on brake bands.

Running in - All new winches have reduced pulling power to begin with. Do not adjust the clutches until the clutch handle (Fig. no. 34 or 34A) can almost touch the brake control centraliser (Fig. no. 4).

Clutch adjustments - The individual clutches are adjusted by loosening the holding bolts (Fig. no. 37) on inner thrust bearing (Fig. 36 & 36A) using special spanner (Fig. no. 73). To tighten clutch turn the thrust bearing (Fig. no. 36 & 36A) towards the clutch handle by pushing or pulling on lug located on thrust bearing (Fig. 36 - 36A). Tighten the holding bolts. Check the clutch is free and does not drag. Always work with clutches fully engaged do not slip clutch except at very low speeds.

Brake adjustments - The brakes are adjusted by slackening lock screw Fig. 12A - tightening adjusting screw Fig. 12 and relocking lock screw. Brake must be able to hold load when handle is over centre position.

If wire is too heavy to pull out adjust brake band regulating screw (Fig. no. 8) - correct adjustment prevents over run of winch drum and reduces wear on wire ropes - Never allow ropes to kink on drums.

Do not stand behind tractor when winch is being operated.

Do not touch the wire rope when the winch is hauling in.

Chain stretch - Free play of chain should be $\frac{3}{8}$ ". Adjust winch, level evenly upwards, using special spanner (Fig. 72) until correct free play is obtained. Lubricate chain lightly - except in dusty conditions.

Fault detecting - See Fault Diagnosis Chart.

When ordering spare parts - please quote:

Winch model

Winch no.

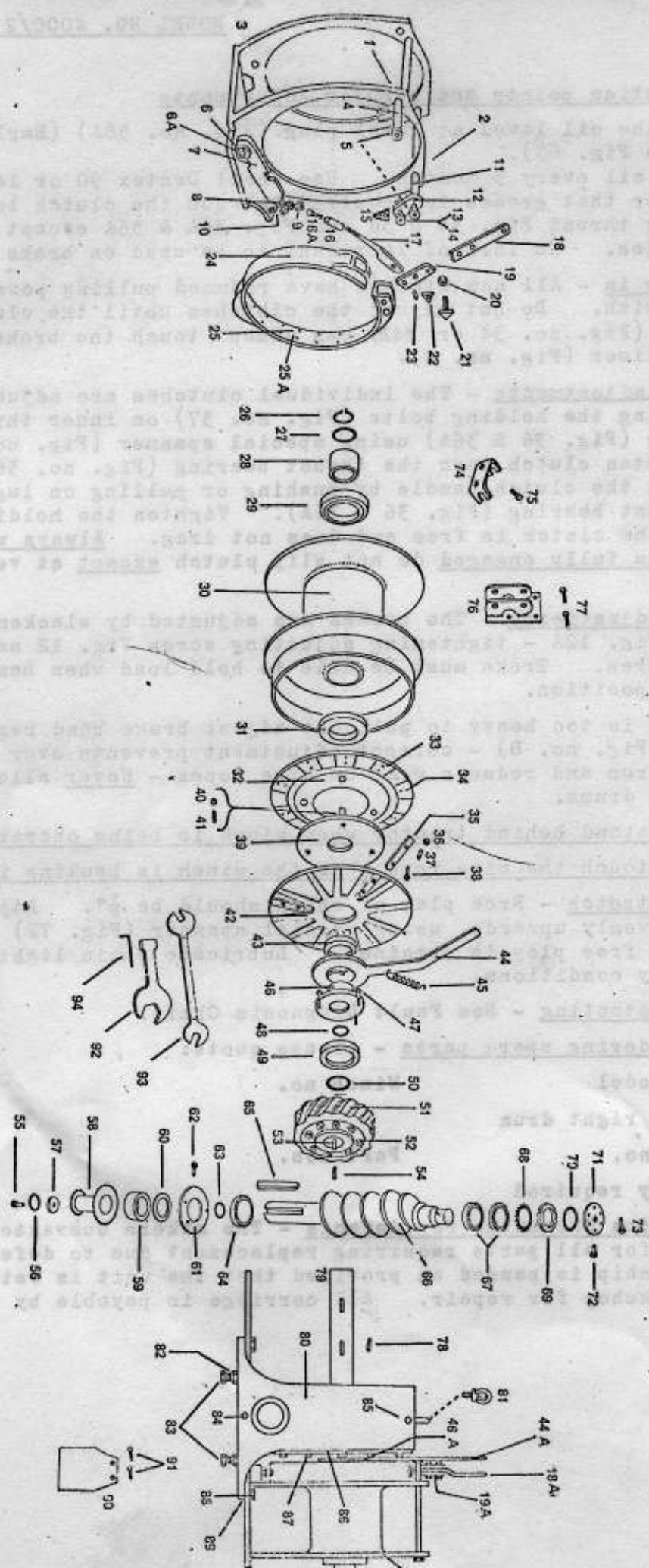
Left or right drum

Figure no.

Part nos.

Quantity required

Six months Guarantee for defects - The makers Guarantee of six months for all parts requiring replacement due to defective workmanship is passed on provided that the unit is returned to our workshop for repair. All carriage is payable by the purchaser.



Model 4000/2.

PARTS LIST.

<u>Fig.</u> <u>No.</u>	<u>Part</u> <u>No.</u>	<u>Description.</u>
1	141110	Distance Tube.
2	141111	Distance Tube.
3	141112	Frame (Brake Support) L.H.
3a	141113	Frame (Brake Support) R.H.
4	141114	Centraliser (Brake Band).
5	010370	Nut for Centraliser $\frac{1}{8}$ " U.N.F.
6	141115	Nut.
6a	010371	Bolt.
7	141116	Adjusting arm.
8	141117	Lock nut.
9	016830	Adj. Screw.
10	027210	Spring.
11	141118	Spacer.
12	141119	Brake link plate.
13	010348	Nuts.
14	010370	Nut.
15	141120	Brake lever position adj. arm (on).
16	141121	Brake adjusting nut.
16a	010268	Locking set screws.
17	141122	Adjust Screw.
18	141123	Brake Lever L.H.
18a	141124	Brake Lever R.H.
19	141125	Brake link L.H.
19a	141126	Brake link R.H.
20	010290	Nut.
21	141127	Lever Bolt.
22	141128	Brake lever position adj. arm (off).
23	141129	Bolt (Brake bracket)
24	141130	Brake band c/w linings.
25	027303	Brake lining.
25a	021100	Rivet.
26	026744	Circlip
27	027070	Distance ring.
28	141131	Spacer.
29	026010	Bearing winch drum.
30	141132	Winch drum.
31	026010	Thrust bearing (winch drum).
32	181022	Clutch plate c/w linings.
33	027310	Clutch lining with rivets 26 x 2.
34	021101	Rivets.
35	181030	Positioning spring.
36	016830	Nut.
37	016819	Adjusting screw.
38	010182	Spacer.
39	141133	Clutch hub.
40	016830	Nut.
41	016821	Grub screw.
42	181029	Pressure plate.
43	026350	Bearing.
44	141134	Clutch lever L.H.

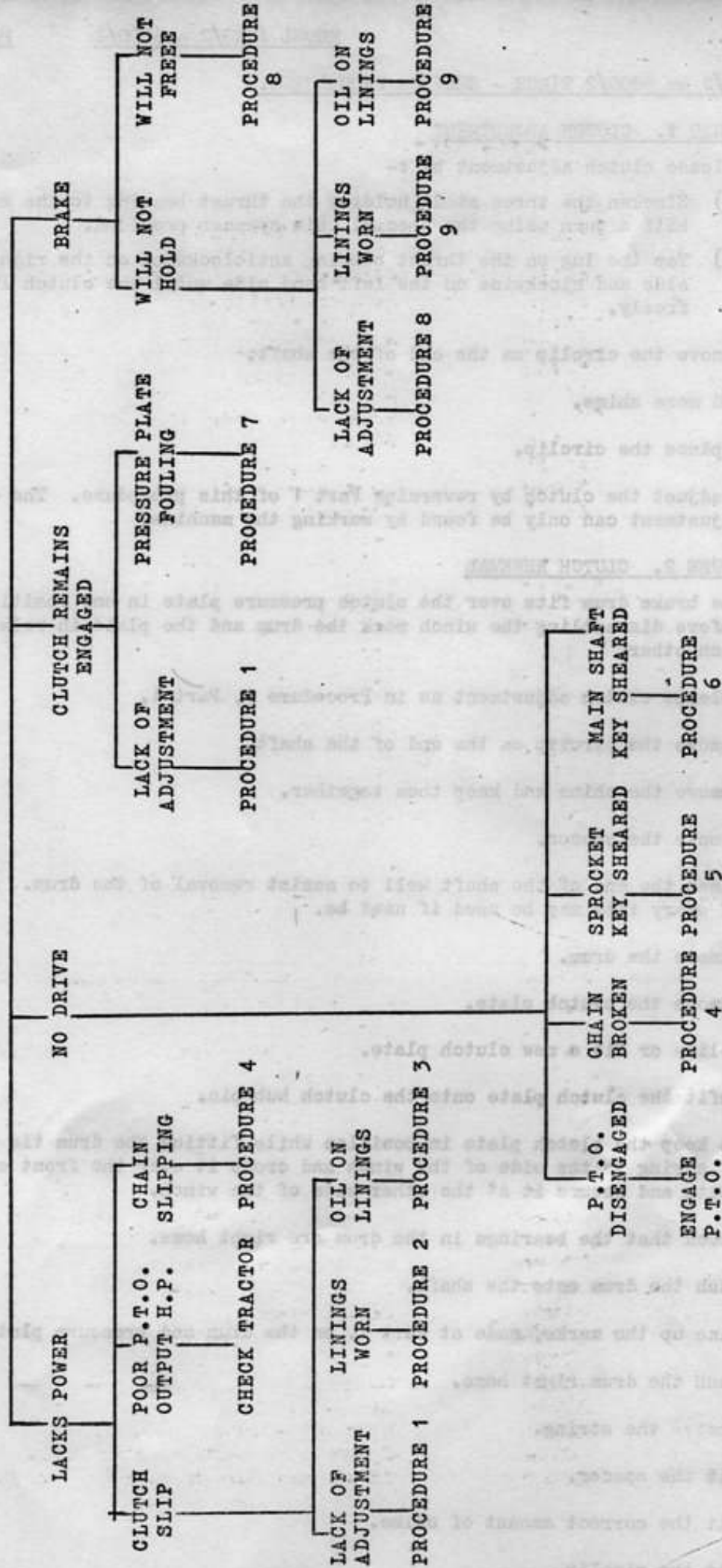
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Parts List.

<u>Fig.</u> <u>No.</u>	<u>Part</u> <u>No.</u>	<u>Description.</u>
44a	141135	Clutch lever R.H.
45	027250	Return spring.
46	141136	Thrust bearing L.H.
46a	141137	Thrust bearing R.H.
47	012797	Bolts for clutch.
48	024520	Oil Seal.
49	026070	Worm wheel bearing.
50	027110	Shims.
51	141138	Worm wheel.
52	012848	Worm wheel bolts.
53	141139	Hub(worm wheel).
54	141140	Key.
55	012843	Set screw $\frac{1}{2}$ x $1\frac{1}{4}$ w.
56	012275	Washer.
57	181036	Washer(wormshaft).
58	070320	Chain wheel.
59	181041	Spacer.
60	024500	Oil Seal.
61	181040	Bearing retainer.
62	016586	Set screw.
63	024724	O Ring.
64	026255	Bearing.
65	181043	Key.
66	141141	Worm shaft.
67	026120	Bearing.
68	026440	Lock washer.
69	026410	Nut(worm shaft).
70	027110	Shims for bearing.
71	181044	Lock plate.
72	012803	Set screw.
73	017035	Oil level plug (early model only).
74	141142	Bracket.
75	012842	Set screw.
76	141143	Top link bracket.
77	012842	Set screw.
78	141144	Key (clutch hub).
79	141145	Main shaft.
80	141146	Drive housing(main casing).
81	017015	Luffing eye.
82	017050	Mounting stud.
83	017040	Mounting and adjusting nuts.
84	017035	Oil drain plug.
85	017030	Oil filling plug.
86	141147	Main case bearing housing.
87	012802	Set Screws.
88	010350	Bolt.
89	010375	Nut.
90	141148	Guard.
91	012840	Set Screw.
92	022030	Spanner - mounting nuts.
93	022020	Spanner - Clutch adjustment.
94	022001	Allen key for clutch return spring screw.

4000/2 - 5000/2

WINCH FAULT DIAGNOSIS



4000/2 or 5000/2 WINCH - SERVICE PROCEDURES.PROCEDURE 1. CLUTCH ADJUSTMENT

1. Release clutch adjustment by :-
 - (a) Slacken the three studs holding the thrust bearing to the main casing half a turn using the special thin spanner provided.
 - (b) Tap the lug on the thrust bearing anticlockwise on the right hand side and clockwise on the left hand side until the clutch lever moves freely.
2. Remove the circlip on the end of the shaft.
3. Add more shims.
4. Replace the circlip.
5. Readjust the clutch by reversing Part 1 of this procedure. The correct adjustment can only be found by working the machine.

PROCEDURE 2. CLUTCH RENEWAL

1. The brake drum fits over the clutch pressure plate in one position only, before dismantling the winch mark the drum and the plate in relation to each other.
2. Release clutch adjustment as in Procedure 1, Part 1.
3. Remove the circlip on the end of the shaft.
4. Remove the shims and keep them together.
5. Remove the spacer.
6. Clean the end of the shaft well to assist removal of the drum.. A piece of emery tape may be used if need be.
7. Remove the drum.
8. Remove the clutch plate.
9. Reline or fit a new clutch plate.
10. Refit the clutch plate onto the clutch hub pin.
11. To keep the clutch plate in position while fitting the drum tie a piece of string to the side of the winch and cross it over the front of the plate and secure it at the other side of the winch.
12. Check that the bearings in the drum are right home.
13. Push the drum onto the shaft.
14. Line up the marks, made at Part 1, on the drum and pressure plate.
15. Push the drum right home.
16. Remove the string.
17. Fit the spacer.
18. Fit the correct amount of shims.
19. Fit the circlip.

PROCEDURE 2 (Contd.)

20. Adjust the clutch as in Procedure 1.

PROCEDURE 3. OIL SEAL-RENEWAL

1. Remove the clutch plate as in Procedure 2.
2. Slacken the lock nut on the clutch hub lock screw.
3. Remove the lock screw.
4. Pull the clutch hub off the shaft.
5. Remove the drive key from the shaft.
6. Remove the pressure plate.
7. Remove the bearing.
8. Remove the brake band.
9. Remove the bolts in the base of the frame.
10. Carefully lift off the frame.
11. Check the number of the shims in each bolt hole.
12. Mark the shims and the holes for easy refitting.
13. Remove the clutch lever.
14. Remove the clutch thrust bearing by unscrewing the three screws holding it in place.
15. Remove the faulty oil seal.
16. Fit the new seal being careful to push it home squarely.
17. Refit the clutch thrust bearing leaving the three screws slack.
18. Grease the cams on the thrust bearing and the clutch lever.
19. Fit the clutch lever.
20. Replace the shims for the frame in the correct holes.
21. Place the frame carefully in position, enter the bolts, tighten them evenly.
22. Fit the brake band.
23. Grease and fit the bearing.
24. Fit the pressure plate.
25. Fit the key in the shaft keyway.
26. Push the clutch hub onto the shaft until the lock screw hole lines up with the hole in the shaft.
27. Enter the lock screw, tighten the lock screw and then tighten locknut.
28. Continue as Procedure 2, Parts 10 - 20.

PROCEDURE 4. DRIVE CHAIN RENEWAL

1. Slacken off chain tensioner by slackening the locking screw on the tension regulator.
2. Remove faulty chain by disconnecting joining link.
3. Fit new length of chain or refit existing chain with new joining link.
4. Fit as tightly as possible to the nearest half link.
5. Retighten the tensioner. This should exert a force of approximately 12 lbs. on the chain. This may be measured with a simple spring balance.
6. If the chain still jumps inspect sprockets for worn or missing teeth.
7. Replace as in Procedure 5.

PROCEDURE 5. DRIVE SPROCKET RENEWAL(a) P.T.O. SPROCKET

1. Remove the drive chain as in Procedure 4.
2. Loosen the clamp bolt on the sprocket.
3. Pull the sprocket off the P.T.O. shaft.
4. Fit a new sprocket.
5. Tighten the clamp bolt well and check regularly.
6. Refit the chain as in procedure 6.

(b) WINCH SPROCKET

1. Remove the drive chain as in Procedure 4.
2. Remove the set screw in the end of the worn shaft.
3. Remove the large washer.
4. Pull the sprocket off the worn shaft.
5. Check the condition of the drive key and renew if sheared.
6. Fit the sprocket. This sprocket may be turned to change the speed and pull of the winch.

Large sprocket - lower speed - higher pull.

Small sprocket - higher speed - lower pull.

If the sprocket is turned it will be necessary to readjust the chain lengths as in Procedure 4.

7. Refit the washer and the set screw tightening well.
8. Refit the drive chain as in Procedure 4.

PROCEDURE 6. RENEWAL OF MAIN SHAFT KEY

1. Dismantle the winch as in Procedure 3, Parts 1 - 5.
2. Fit a new key.
3. Assemble the winch as in Procedure 3, Parts 25 - 28.

PROCEDURE 7. FREEING OF CLUTCH PRESSURE PLATE

1. Dismantle the winch as in Procedure 3, Parts 1 -6.
2. Try the pressure plate in the drum and remove any high spots using a file. If the braking surface has been badly overheated it may be deformed and a new drum must be fitted.
3. Reassemble the winch as in Procedure 3, Parts 24 - 28.

PROCEDURE 8. BRAKE ADJUSTMENT

1. Tighten the brake adjusting nut until the brake lever can just be pushed over centre into the locked position.
2. Adjust the free running of the drum.
3. Adjust the screw on the adjusting arm in a clockwise direction until there is a slight drag on the arm.

PROCEDURE 9. BRAKE RELINE

1. Dismantle the winch as in Procedure 3, parts 1 - 8.
2. Reline the brake band or fit a new one.
3. Assemble the winch as in Procedure 3, parts 22 - 28.
4. Adjust the brake as in Procedure 8.

DISMANTLING PROCEDURETo remove drum shaft oil seal.

1. Drum fits over pressure plate in one position only.
2. Mark drum and pressure in relation to each other.
3. Release clutch adjustment.
4. Slacken three studs holding thrust bearing to main casing half a turn.
5. Tap lug on thrust bearing anti-clockwise on right hand side clockwise on left hand side.
6. Remove circlip on end of shaft.
7. Remove shims - keep shims together.
8. Remove spacer.
9. Clean end of shaft to assist removal of drum.
10. Remove drum.
11. Remove clutch plate.
12. Slacken lock nut on clutch hub lock screw.
13. Remove lock screw.
14. Pull clutch hub off shaft.
15. Remove key from shaft.
16. Remove pressure plate.
17. Remove bearing.
18. Remove brake band.
19. Remove bolts in base of frame.
20. Carefully lift off frame.
21. Check amount of shims on each bolt hole.
22. Mark shims and holes for easy fitting.
23. Remove clutch lever.
24. Remove 3 screws on clutch thrust bearing and withdraw bearing.
25. Remove oil seal.

For re-assembly - see next page.

ASSEMBLY PROCEDURE

1. Fit oil seal being careful to push it home squarely.
2. Refit clutch thrust bearing leaving the three screws slack.
3. Grease the cams on the thrust bearing and the clutch lever.
4. Fit clutch lever.
5. Fit clutch lever return spring to bracket.
6. Replace shims for frame on correct holes - Place frame carefully in position - enter bolts, tighten.
7. Fit brake band.
8. Grease and fit bearing.
9. Fit pressure plate.
10. Fit key in shaft keyway.
11. Push the clutch hub onto the shaft until the lock screw hole lines up with the hole in the shaft.
12. Enter the lock screw - tighten - tighten lock screw nut.
13. Fit clutch plate onto clutch hub pins.
14. To keep the clutch plate in position while fitting the drum tie a piece of string to the side of the winch and cross it over the front of the plate and secure it at the other side of the winch.
15. Slacken brake band adjustment right off for easy entry from drum.
16. Check bearings in drum are right home.
17. Push the drum onto shaft.
18. Line up marks made on drum and pressure plate.
19. Push the drum right home.
20. Remove the string.
21. Fit spacer and the correct amount of shims.
22. Fit the circlip.
23. Adjust brakes.
24. Tighten brake adjusting nut until the brake lever can just be pushed over centre into the locked position.
25. Adjust clutch by reversing Part 2 of dismantling procedure.
26. Adjust the free running of the drum.
27. Adjust the screw on the adjusting arm in a clockwise direction until there is a slight drag on the drum.

4000/2 - WINCH

OLD PART NO.	NEW PART NO.	OLD PART NO.	NEW PART NO.
1001	026744	1041	016586
1002	027070	1042	026255
1007	141135	1043	181043
1008	026350	1044	141141
1009	181029	1045	026120
1011	141144	1046	026120
1012	181022	1047	026410
1013	027310	1048	026440
1021	181030	1049	181044
1022	016830	1050	012803
	016819	1051	141145
1023	010182	1052	141146
1024	141134	1053	017035
1025	027250	1055	017030
1026	141136	1056	017035
1027	141137	1057	017040
1028	012797	1058	141147
1029	024520	1059	012820
1030	026070	1062	010350
1031	141138		010375
1032	012848	1075	010370
1033	141139	1082	022030
1034	141140	1083	022020
1035	012843	1084	022001
1036	181036	1102	
1037	070320	1103	141112
1038	181041	1104	141113
1039	024500	1105	141114
1040	181040	1106	141115
			010371

4000/2 - WINCH

OLD PART NO.	NEW PART NO.
1007	141116
1108	141117
1109	141118
1110	141119
1111	010348 010370
1112	141121
1113	141122
1114	141123
1115	141124
1116	141125
1117	141126
1118	141127 010290
1119	141128
1120	141129
1121	141130
1122	027303
1123	141131
1124	026010
1125	141132
1126	141133



TAG LINE SYSTEM

3000/2 - 4000/2 - 5000/2
IGLAND WINCH

DOUBLE DRUM WINCH

LOGGING
PLATE

SNAP LINK SETS

FAIRLEAD

TAG LINES

KEYHOLE & SLIDER

CHOKER CHAINS

WEDGE EYE SOCKET

SNAP LINK TAG LINE (CHOKER LENGTH) SLIDER

KEYHOLE WEDGE EYE
SOCKET

CHOKER CHAIN

WINCH
ROPE

WINCH

