

# 1.2 metre Sliding Mount Multicut Flailhead

Operation & Spares Manual

### EC DECLARATION OF CONFORMITY

Conforming to EEC Machinery Directive 98/37/EC\*

We,

### McCONNEL LIMITED,

Temeside Works, Ludlow, Shropshire SY8 1JL.

Chief Design Engineer

Status:

Declare under our sole responsibility that:
The product (type) Hydraulic Arm Mounted Flailhead
Product Code BD12, BD16, F110, F112, F115, F012, F016
Serial No. & Date
Manufactured by the above company/*
(* insert business name and full address if not stated above)
Complies with the required provisions of the Machinery Directive 98/37/EC, *previously Directive 89/392/EEC as amended by Directives 91/368/EEC, 93/44/EEC and 93/68/EEC.  The machinery directive is supported by;  • BS EN ISO 12100:2003 Safety of Machinery. This standard is made up of two parts; Part 1 Terminology, methodology, Part 2 Technical Specifications.  • BS EN 1050 Safety of machinery - Principles of risk assessment.  • and other national standards associated with its design and construction as listed in the Technical File.  The Machinery Directive is fully implemented into UK law by means of the Supply of Machinery (Safety) Regulations 1992 (SI 1992/3073) as amended by The Supply of Machinery (Safety) (Amendment) Regulations 1994 (SI 1994/2063).
Signed
on behalf of McCONNEL LIMITED Responsible Person

May 2005

Date:



### **GENERAL INFORMATION**

Read this manual before fitting or operating the machine. Whenever any doubt exists contact your dealer or the McConnel Service Department for assistance.

Use only McConnel spare parts on McConnel equipment and machines.

#### **DEFINITIONS**

The following definitions apply throughout this manual:

#### WARNING

An operating procedure, technique etc., which can result in personal injury or loss of life if not observed carefully.

#### CAUTION

An operating procedure, technique etc., which can result in the damage of either machine or equipment if not observed carefully.

#### NOTE

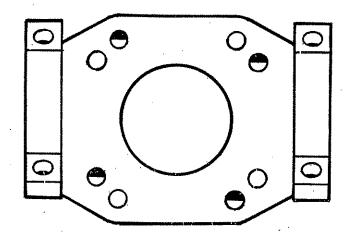
An operating procedure, technique etc., which is considered essential to emphasise.

### Left and Right-Hand

This term is applicable to the machine when fitted to the tractor and viewed from the rear. This also applies to tractor references.

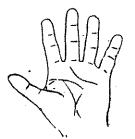
Record the serial number of your machine always quote this number when ordering information concerning the machine is requalled also state the type of tractor to which it is fitted	spares. Whenever ested remember to
MACHINE SERIAL	INSTALLATION DATE
NUMBER	\$1
MODEL DETAILS	
DEALERS NAME	
DEALERS TELEPHONE NUMBER	

### FLAILHEAD ATTACHMENT





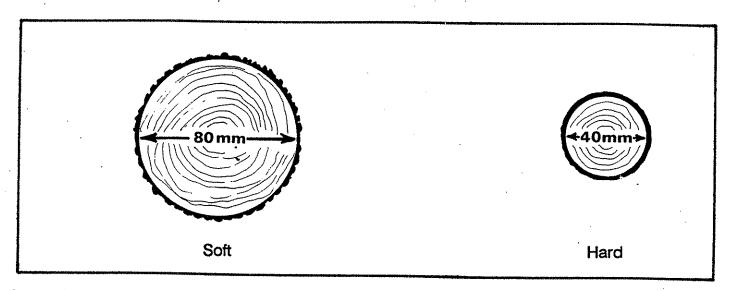




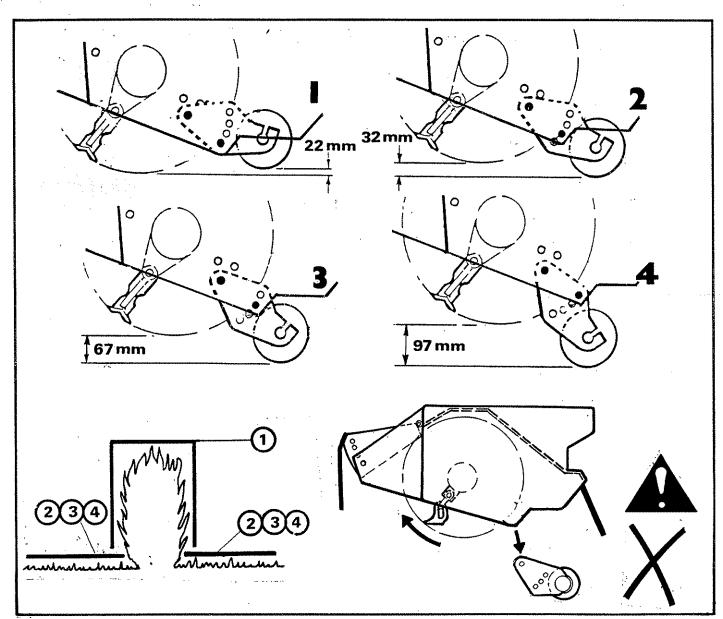


### **OPERATION**

### MATERIAL THICKNESS CUTTING LIMITATIONS



### **ROLLER POSITION**

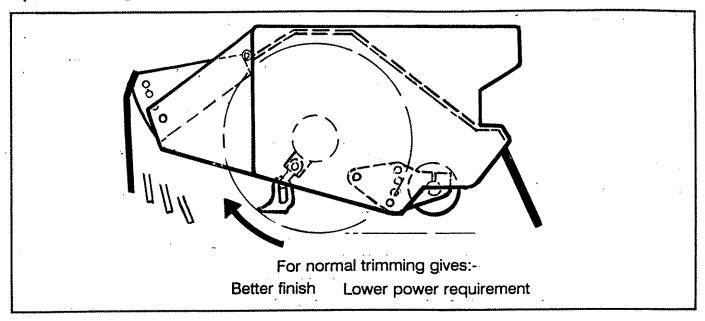


### **HEDGE CUTTING PROCEDURE**

### **Preliminary Precautions**

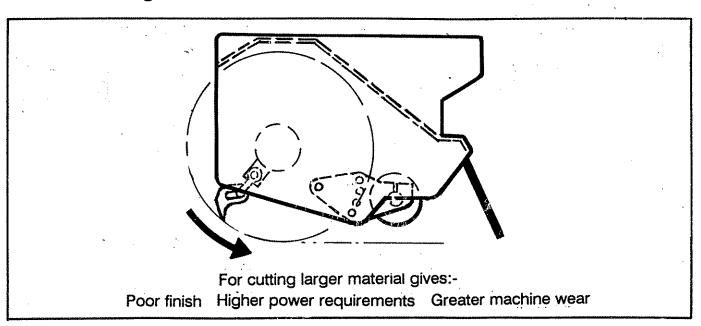
Inspect the work area, remove hazardous materials and note any immoveable obstructions.

### **Upward cutting**

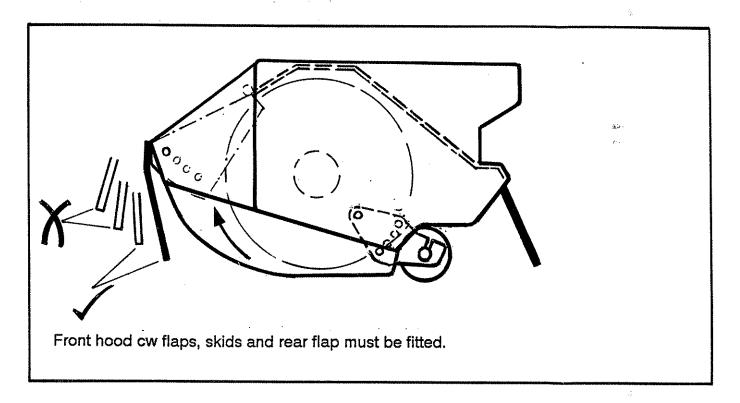


Front hood and rear flap must always be in positión.

### **Downward cutting**



### GRASS CUTTING Flails must cut upwards



#### **FLAILHEAD**

Frequently inspect the rotor assembly for damaged or missing flails. Bolts and nuts securing the flails to the rotor should be regularly checked and kept tight. The correct torque setting for these locknuts is 135 Nm (100 lbf/ft.). Use only the correct flail bolt and locking nut. Check the flail pivot bushes for possible damage or wear. They do not require oil.

Do not attempt to run the rotor with flails missing. Im-balance will cause severe vibration and can rapidly damage the rotor shaft bearings. As an emergency measure if a flail is broken off or lost, remove another on the opposite side of the rotor to retain balance. Always replace flails in opposite pairs and never match up a new flail with a re-sharpened one which will of course be lighter.

Blunt flails absorb a lot of power and leave an untidy finish to the work. They should be sharpened on a grindstone or with a portable grinder periodically.

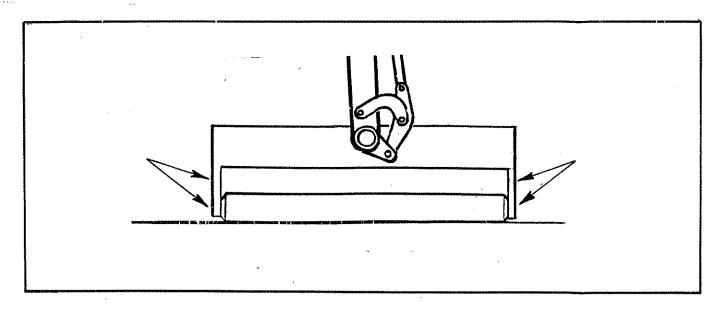
Wear protective gear when sharpening flails.

Ensure that the bearing housings and hydraulic mounting nuts and bolts are kept tight. They should be checked during servicing.

### **LUBRICATION**

#### General

Grease daily all points shown.



### SPARE PARTS MANUAL

### FOR BEST PERFORMANCE....

**USE ONLY McCONNEL SPARE PARTS** 

To be assured of the latest design improvements purchase your genuine replacements from the original equipment manufacturer McConnel Ltd. through your local dealer or stockist.

Always quote machine type and serial number as well as the part number.

Design improvement may have altered some of the parts listed in this manual - The latest part will always be supplied when it is interchangeable with an earlier one.

### FLAIL CASING 55 -(53)(52) **D**. - 39 - 13 GO CO 32-



# McCOMEL

	• ,.	The same of the sa	
Ref	Part No	Qty	Description
			FLAIL HEAD CASING - 1.2M MULTICUT SLIDING MOUNT
16 17 18 19 20 21 22 23 24 25 26	41685.01 72 90 387 72 90 388 03 11 106 01 41 006 41695.01 41700.01 72 90 389 72 90 390 03 11 085 91 43 005 60 12 034 01 42 004 01 00 104 71 90 313 93 13 065 71 90 488 03 11 126 02 11 266 41740.01 03 11 146 71 98 330 41739.01 02 11 186 13 35 246 71 03 230 71 90 488 03 11 126 02 11 266 41740.01 03 11 146 71 98 330 41739.01 02 11 186 13 35 246 71 03 230 71 90 261 09 01 121 06 00 018 02 11 166 81 21 043 81 21 044 71 90 571 71 90 022 71 90 444 93 13 292 91 00 205	1 1 1 1 6 5 1 1 1 6 6 6 1 1 1 9 1 2 1 1 2 1 1 2 1 1 2 4 2 4 2 6 as as a	Casing Hood bracket R.Hand - not illus. Hood bracket L.Hand Setscrew Self locking nut Hood Hood pivot pin Skid - R.Hand - not illus. Skid - L.Hand Setscrew Self locking nut Tine bolt Self locking nut Plain washer Rear flap Clamp strip Setscrew Motor cover Setscrew Bolt Hose guide Setscrew Clamp plate Clamp Bolt Serial No plate Pop rivet Bearing housing Greaser Bearing Bolt Shim Shim Rotor hub Motor locating washer Internal circlip Cover plate Setscrew Spring washer

### FLAIL CASING (53)(52) **D** - <u>3</u>9 - 13 32-



# McCOMEL

	and the second second second		
Ref	Part No	Qty	Description
			FLAIL HEAD CASING - Continued
40	71 90 5 <b>73</b>	1	Drive coupling
41	83 01 281	1	Motor - std. power
42	83 01 282	1	Motor - Hy power
	83 01 283	1	Motor - Hy power +
43	93 00 144	4	Capscrew - self locking
44	73 90 017	2	Motor connection Confidence
45	73 90 016	2	Motor connection
46	93 43 135	6	Capscrew
47	86, 00, 121	2	'O' ring
48	85 01 256	1	Hose $3/4$ BSP x $75''$ long
49	85 01 254	1	Hose 1" BSP x 75" long
50	85 01 257	1	Hose 3/4 BSP x 79" long
51	85 01 255	1	Hose 1" BSP x 79" long
52	71 90 148	1	Hose clamp
53	71 \93 063	1	Hose clamp
54	06.418.05	1	Clamp plate
55	04.282.09	1	Stud Marine Commence
56	91 13 005	1	Nut Application
57	72 90 391	2	Wear skid
58	72 90 391 71 98 333	1	Hose tray
59	01 41 005	6	Self lock nut
	72 90 375		FRONT FLAP KIT
	12 30 010		A Company of the Comp
60	72 90 053	8 ,	Flap
61	71 90 304	1 "	Clamp strip
62	92 93 054	16	Bolt-cup square Sans-Andille
63	91 43 004	16	Self locking nut
	86 99 236		SEAL KIT - for hydraulic motor
	*		



Ref	Part	NO
VET	FOLL	NO

Qty Description

### ROTORS AND FLAILS

73 90 270 1

Rotor

The following flails are suitable for use with 73 90 270

4	73 90 004	48	Flail
3	71 90 462	24	Flail
4	73 90 001	24	Shackle
5	73 90 003	24	Spacer
6	73 90 012	24	Spacer sleeve
7	73 14 366	24	Flail F10H- Cast
	41391 • 01	24	Flail F10H-Forged
	73 90 276	.24.	Flail - alternative single edged
8	73 14 223	24	Pivot boss
9	71 90 315	48	Flail
10	71 90 010	48	Spacer
11	73 90 005	48	Spacer
12	73 90 006	24	Special bolt 5/8" UNF x 4" long
13	01 41 006	24	Self locking nut 5/8" UNF
14	01 00 206	48	Spring washer 5/8" dia

#### 71 90 465 . 15

Rotor - Omega

### The following are used with 71 90 465

16	71 90	564	20	Flail
,17	71 90	117	20	Bush
18	73 90	006	20	Special bolt 5/8" UNF x 4" long
19	01 41	006	20	Self locking nut 5/8" UNF
20	01 00	206	20	Spring washer 5/8" dia

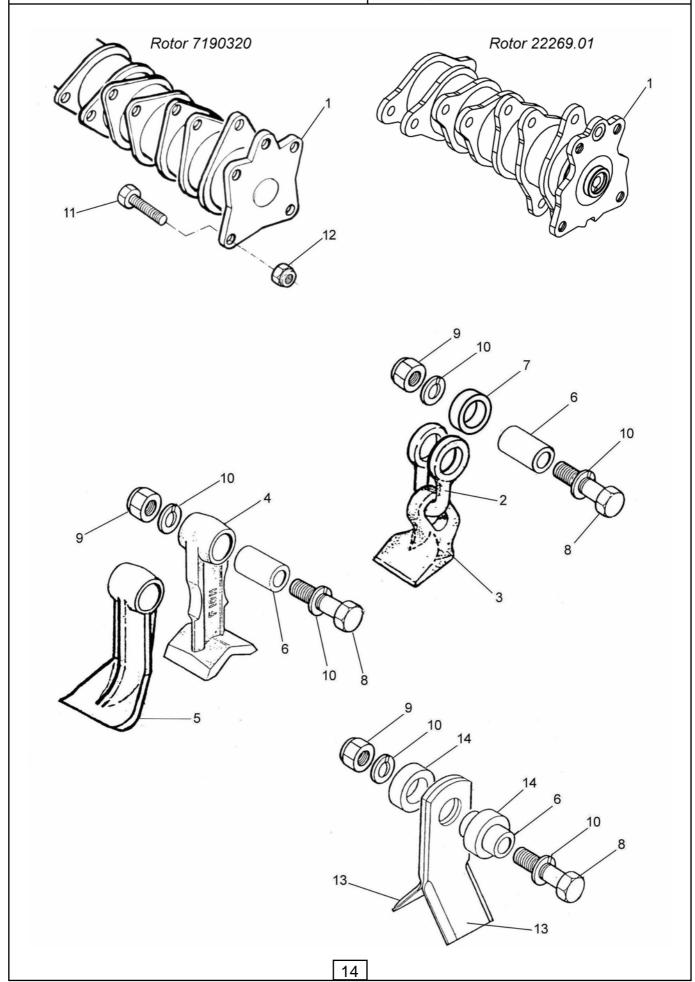
### The following are used with both rotors

21	03	11	146		Setscrew 5						
22	01	41	006	4	Self locki	ng :	nut 🗄	5/,	/8"	UNF	•

### 1.2M Multicut Flailhead (Sliding Mount)

### **ROTOR & FLAIL OPTIONS**



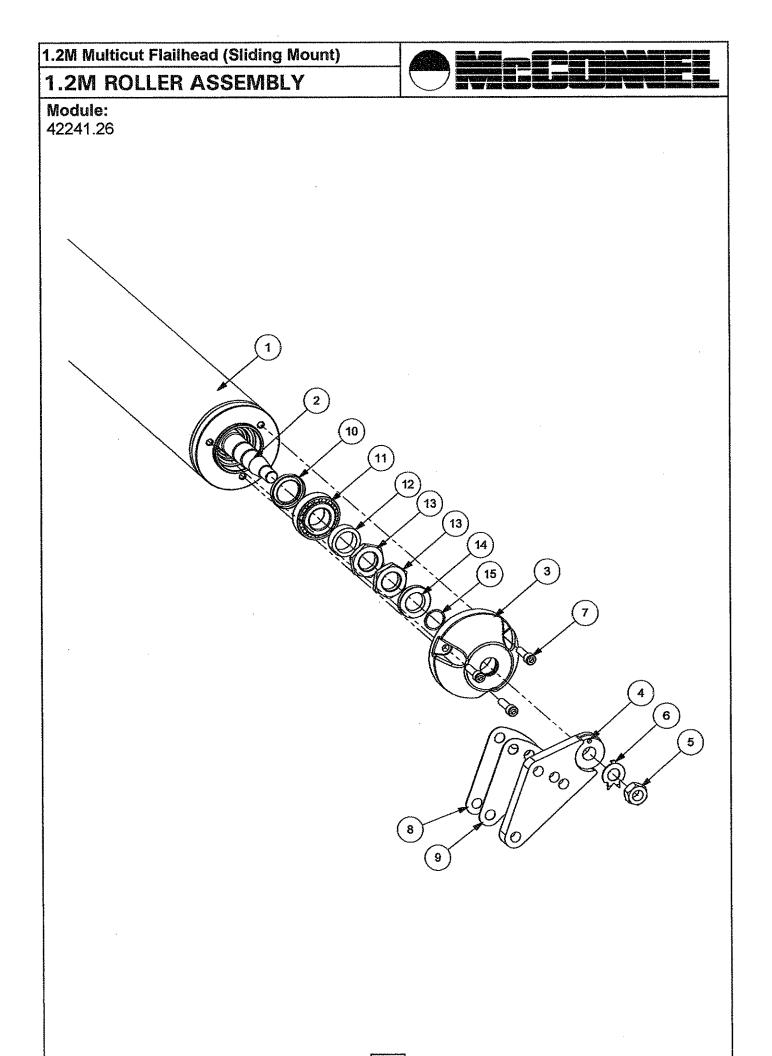


### 1.2M Multicut Flailhead (Sliding Mount)

### **ROTOR & FLAIL OPTIONS**



Ref.	Part No.	Qty.	Description
			ROTOR & FLAILS (Wrap Around Lug)
1	7190320	1	Rotor - 1.2m
	22269.01	1	Rotor - 1.2m
2	7190106	24	Shackle
3	7190462	24	Flail
4	7314366	24	Flail F10H - Cast
	41391.01	24	Flail F10H - Forged
5	7390276	24	Flail - Alternative single edged
6	7314223	24	Pivot Bush
7	7190172	24	Spacer
8	7390025	23	Special Bolt M16 x 1.5p x 83 long
9	9100028	24	Special Self-Locking Nut M16 x 1.5p
10	0100206	48	Spring Washer 5/8" dia.
11	0311146	4	Setscrew 5/8" UNF x 1-3/4" long
12	0141006	4	Self-Locking Nut 5/8" UNF
13	7190315	48	Flail
14	7190010	48	Spacer
			•



### 1.2M Multicut Flailhead (Sliding Mount)





Ref.	Part No.	Qty.	Description
	42241.26		ROLLER ASSEMBLY
1	42241.01	1	Roller - 1.2m
2	42242.01	1	Roller Axle - 1.2m
2 3	42243.01	2	Roller End Cap
4	42246.01	1	Roller Bracket - L/H
	42246.02	1	Roller Bracket - R/H
5	9100026	1	Nut - L/H
	9113008	1	Nut - R/H
6	7190023	2	Tab Washer
7	9343075	6	Capscrew
8	42257.01	as reg'd	Roller Shim - 1.2mm
9	42257.02	as req'd	Roller Shim - 2.0mm
10	8629213	2 *	Rotary Lip Seal
11	0600105	2	Taper Roller Bearing
12	42245,01	2	Spacer - Roller
13	42244.01	4	Locknut
14	8629125	2	Rotary Lip Seal
15	0412120	2	Spirolox Ring





## **ATTENTION**



Recommended P.T.O. speed500 r.p.m.

Vitesse recommandee 500 T/min a la prise de force.

### **DANGER**

Rotating cutters under here.

### DANGER

Rotor ne pas approcher.

BEWARE OF FLYING DEBRIS. KEEP PEOPLE AWAY.

#### **KEEP BOLTS TIGHT**

Check bolt tightness after 1 hour. 4 hours, 10 hours and thereafter daily

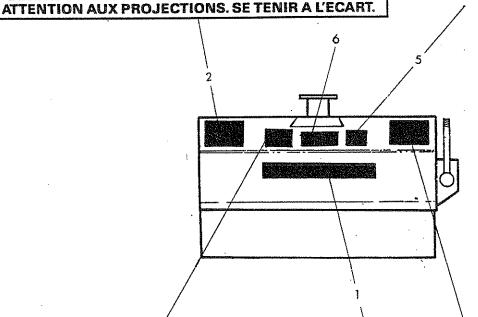
#### **MAINTENEZ LES BOULONS SERRES**

Et controlez serrage apres 1 neure. 4 heures, 10 heures puis chaque jour

#### FLAIL PARTS INFORMATION

McConnel Flail Mowers use dynamically balanced and mated system components for Cutter Shafts (Rotors), Knives (Flails), Knife Hangers (Shackles), Bolts, Bushes, Rollers, Drivetrain Components, Bearings Belts and Belt Pulleys, McConnel parts are made and tested to meet close-tolerance specifications of balance, quality and consistency that assure long, trouble-free service. "Will-fit" parts do not ordinarily meet McConnel Standards and could geduce Mower performance, void warranties, and present an increase in the safety hazard potential.

DON'T GAMBLE!
USE GENUINE McCONNEL SERVICE PARTS
See your McConnel dealer











#### ROTATING BLADES KEEP AWAY

SERIOUS INJURY OR DEATH CAN RESULT

- \* STOP MOWING IF PERSONS ARE NOT CLEAR OF THROWN GELECTS \* DO NOT STAND ON OR NEAR MACHINE WHEN IN OPERATION \* DO NOT OPERATE WITH DEFLECTORS OR GUARDS REMOVED

#### **GUARDING REQUIREMENTS EQUIPMENTS DE SECURITE**

#### GROUND CUTTING COUPE DE SOL



Always cut nowards. Roller set below flails. Skids recommended.

Toulours couper en aspiration Rouleau regle sous les fleaux. Patins recommandes.

#### HEDGE CUTTING TAILLE DE HAIES



With flails cutting upwards oller set above flails.

Les fleaux travaillant en aspiration. Rouleau regle au dessus des

#### **HEDGE CUTTING** TAILLE DE HAIES



With figils cutting downwards. Roller set above flails.

Les fleaux trevaillant en attaque. Rouleau regio au dessus des fieaux:



Ref	Part No.	Qty	Description
			STICKERS
1	12 90 255	1	McConnel
2	12 90 377	1	Flail head instructions
3	12 90 341	1	Flail head guarding
4	0075 6485	1	Rotating blade warning
5	12 90 392	1	Use McConnel spares
- 6	12 00 401	1	65 hp - Hy power +



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