



SERVICE DATA

BATTERY POWERED HEDGE CLIPPER

DHC-3000

INTRODUCTION

We are constantly working on technical improvement of our products. For this reason, technical data, equipment and design are subject to change without notice. All specifications, illustrations and directions in this SERVICE DATA are based on the latest products information available at the time of publication.

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1 SERVICE INFORMATION

1-1 Specifications

Dimensions*	Length	mm(in)	1025 (40.4)
	Width	mm(in)	240 (9.4)
	Height	mm(in)	160 (6.3)
weight	Without battery pack	kg(lb)	3.2 (7.1)
	With battery pack	kg(lb)	9.5 (21.0)
Motor	Type		DC magnet motor
	Voltage	V	12
Circuit protector	Type		Bimetal type
	Breaking capacity	V - A	DC 50 - 20
Handle	Type	Front	Rubber grip with hand guard
		Rear	Plastic grip with integrated control (Trigger type ON/OFF switch, Switch lockout, and Circuit breaker reset button)
Gear	Type		Spur
	Reduction ratio		5.88
	Lubrication		Lithium based grease every 10 hours of use
Cutter	Type		Dual action, single-edged
	Length	mm(in)	750 (29.5)
	Knife pitch	mm(in)	35.0 (1.38)
	Knife edge length /height	mm(in)	22.0 (0.87)
	Knife thickness	mm(in)	2.5 (0.098)
	Lubrication		Apply oil daily
Blunt	height	mm(in)	35 (1.4)
Battery pack	Type		Back pack, lead-acid sealed
	Voltage	V	12
	Capacity	Ah	17
	Weight	kg(lb)	6.3 (13.9)
	Fuse type		Cartridge (Glass tube)
	Fuse quantity		1
	Voltage/Ampere rating, fuse	V - A	DC 32 - 30
	Fuse dia. - length	mm(in)	6.4 - 32 (0.25 - 1.18)
Battery charger	Input		AC 120V 60Hz 20W
	Output		DC 12V 0.9A

1-2 Technical data

Minimum cutter speed* at no load Strokes per minute		1850
Cutter clearance	mm(in)	0.2 (0.008) (See NOTE on page 3)

1-3 Torque limits

Descriptions		Size	kgf•cm	in•lbf
Motor	Spur gear to motor	M 4 *	35 - 45	30 - 40
	Motor to gear case	M 5	70 - 110	60 - 95
Gear case	Frame bar to gear case	M 6	45 - 60	40 - 52
	Angle plate nuts	M 6	45 - 75	40 - 65
	Grease nipple	M 6	30 - 40	26 - 35
	Gear case lid	M 4	15 - 25	13 - 30
Cutter	Cutter bolts	M 6	10 - 15	9 - 13
	Cutter nuts	M 6	15 - 25	13 - 35
Handle	Front handle	M 6	25 - 45	22 - 40
	Rear handle	M 5	25 - 45	22 - 40
	Rear handle grip	M 4	18 - 25	15 - 22
Regular bolt, nut, and screw		M 3	6 - 9	5 - 8
		M 4	18 - 23	16 - 20
		M 5	27 - 32	23 - 28
		M 6	45 - 65	40 - 55
		M 8	110 - 150	95 - 130

(See **NOTE** below.)

* Apply thread locking sealant. (See below.)

NOTE: Adjusting cutter clearance

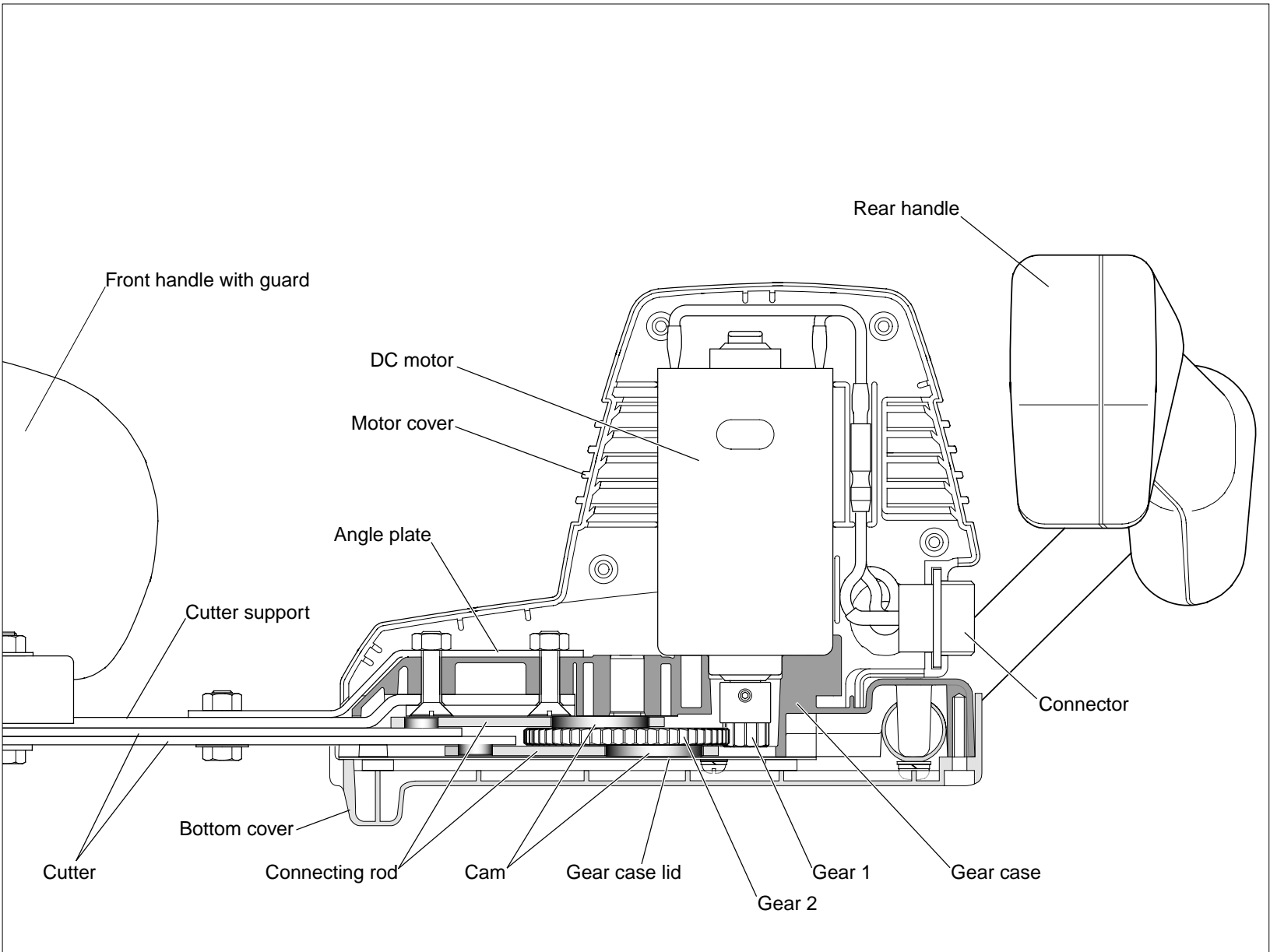
Fasten all cutter bolts to this torque, then back front handle bolt 2/3 turns and other bolts 1/2 turns counterclockwise.

1-4 Special repairing materials

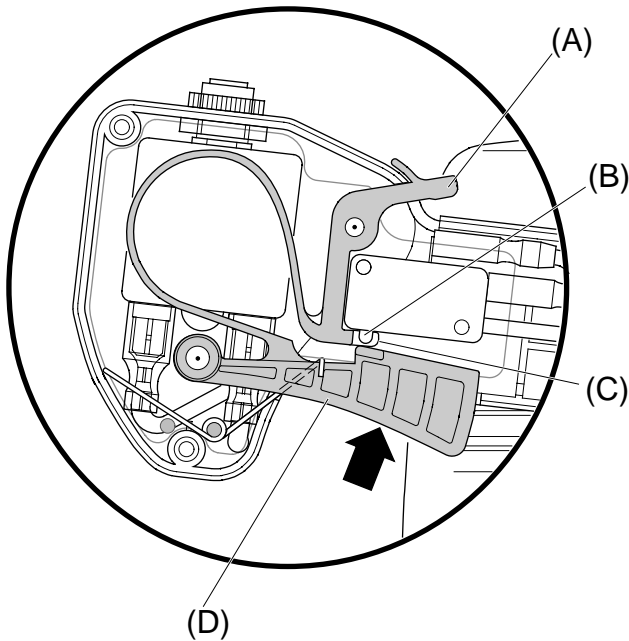
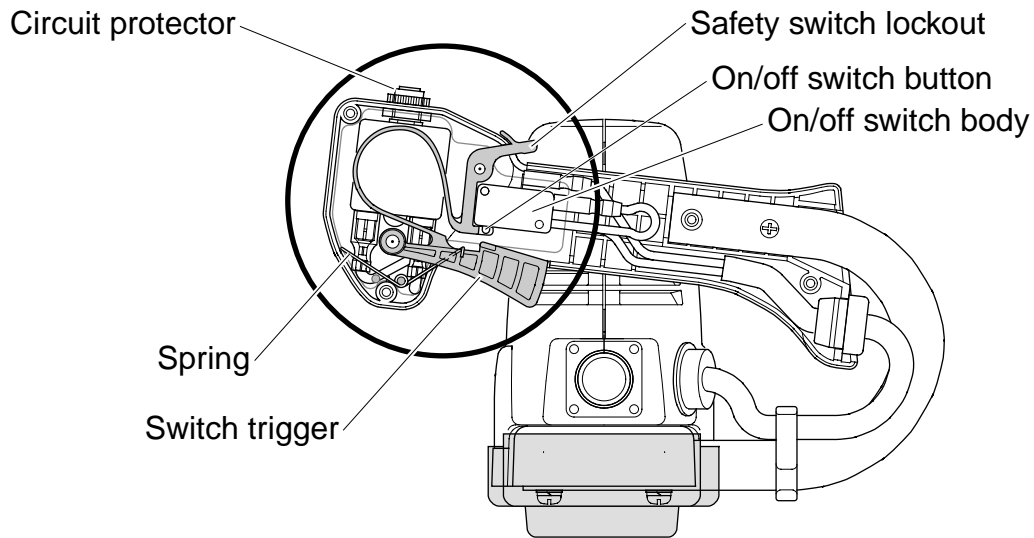
Material	Location	Remarks
Grease	Gear case	Lithium based grease, 20 grams (0.7 oz)
	Spur gear	Lithium based grease
Thread locking sealant	Spur gear set screw	Loctite #675 or equivalent

2 SERVICE HINT

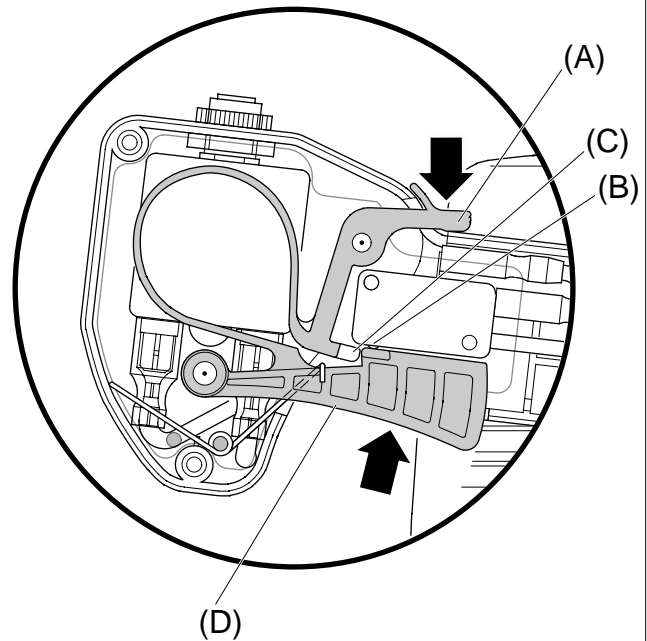
2-1 Construction



2-2 Switch function



When switch lockout (A) isn't pushed down, switch isn't turned on even if switch trigger (D) is squeezed. Because heels (C) of the switch lockout (A) obstruct that the switch trigger (D) pushes switch button (B).



When switch lockout (A) is pushed down, heels (C) of the switch lockout (A) release switch button (B). And switch trigger (D) is squeezed, switch button (B) is pushed by switch trigger (D), and switch is turned on. Then motor will turn and blade will immediately start moving at full speed.