



SERVICE DATA

BATTERY CHAIN SAW

ECHO: DCS-1600

(Serial number : 24000001 and after)
(Serial number : 35000001 and after)

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 and directions in this SERVICE DATA are based on the latest product information available at the time of publication.

CONTENTS

	page
1 SERVICE INFORMATION	2
1-1 Specifications.....	2
1-2 Technical data.....	3
1-3 Torque limits.....	3
1-4 Special repairing materials	3
1-5 Special tool	3

Reference No. **02-16A-02**
REVISED : 201904
ISSUED: 201801



1 SERVICE INFORMATION

1-1 Specifications

Dimensions*	Length	mm(in)	459 (18.1)
	Width	mm(in)	219 (8.6)
	Height	mm(in)	262 (10.3)
Dry weight**		kg(lb)	3.1 (6.8)
Motor	Type		DC electric motor
	Rotation		Clockwise as viewed from the output end
	Rated current	A	42.5
	Rated voltage	V	50.4
	Rated output	kW	1.73
Li-Ion Battery	Standard battery		LBP-560-200
	Rated voltage	V	50.4
	Capacity	Ah, Wh	3.66, 185
	Weight	kg(lb)	1.8 (4.0)
Battery charger	Standard charger		LCJQ-560C
	Input voltage	V	AC220-240
	Rated output	V	58.1
Guide bar / Saw chain lubrication type			Automatic oil pump
Oil	Tank capacity	L (UK.fl.oz.)	0.38 (13.4)
Auto oiler	Type		Motor driven type
Sprocket	Type		Spur
	Number of teeth		6
	Pitch		3/8

* Without guide bar and saw chain

** Without battery, guide bar and saw chain

Cutting devices			
Guide bar	Type		C35S90-52SA
	Called length	cm	35
	Gauge	in	0.043
Saw chain	Type		OREGON 90PX
	Number of drive links		52
	Pitch	in	3/8
	Gauge	in	0.043

1-2 Technical data

Motor	Speed at maximum power	r/min	8,940
Speed control		r/min	Low (6,000 r/min) - High (10,000 r/min)
Battery	Charging time	min.	48 (80%) / 88 (100%)
	Operating time/one charge*	min.	32

*It varies according to work.

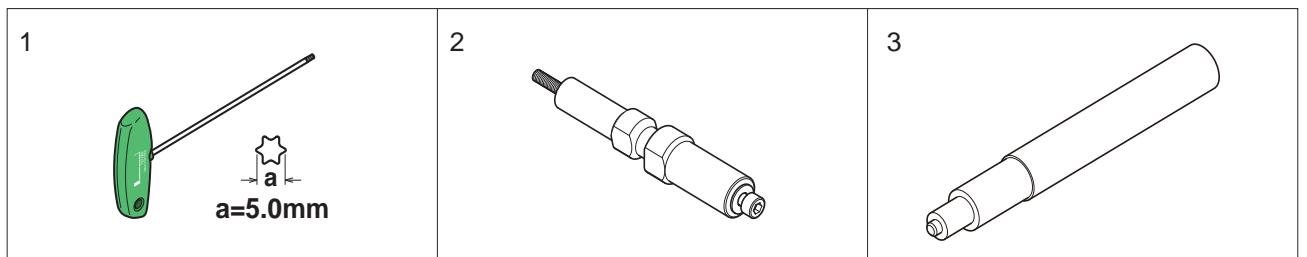
1-3 Torque limits

Descriptions		Size	kgf•cm	N•m	lbf•in
Motor	Motor assembly (w/ Motor cover assembly)	M5	30 - 45	3 - 4.5	25 - 40
Others	Cover	M4	20 - 30	2 - 3	20 - 25
	Stud bolt	M8*	80 - 100	8 - 10	70 - 87
Regular bolt, nut and screw		M4	15 - 25	1.5 - 2.5	13 - 22
		M5	25 - 45	2.5 - 4.5	22 - 40

*Apply thread locking sealant described in "1-4 Special repairing materials"

1-4 Special repairing materials

Material	Location	Remarks
Thread locking sealant	Stud bolt	Loctite #272 or equivalent
Grease	Worm gear	EPNOC AP2 (Lithium based grease) P/N X695-000060
	Chain brake (metal contact part)	Molybdenum grease (approx. 1 gram)

1-5 Special tool

Key	Part Number	Description	Reference
1	X602-000340	Torx wrench (T27)	Removing and installing torx bolt
2	Y089-000131	Auto-oiler puller	Removing pencil type auto-oiler
3	91073A	Auto-oiler installer	Installing pencil type auto-oiler