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	LIQUID CRYSTAL DISPLAY GROUP	APPLICABLE GROUP		
	SHARP CORPORATION	Liquid Crystal Display		
	SPECIFICATION	Group		
	DEVICE SPECIFICATION FOR BACKLIGHT UNIT MODEL No. LQ0DDB516			
☐ CUSTOMER'S AP	PPROVAL PRESENTED	Tanimura		
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DATE	Department Go	Department General Manager		
	Module Engi	ineering		
	TFT DIVISIO	DN II		
BY	TFT LIQUID	CRYSTAL GROUP		
	SHARP CORE	PORATION		

RECORDS OF REVISION

MODEL	: LQODDB	REVISED		SUMMARY	NOTE
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(1) Subject

LQ0DDB5166: Literature on backlight unit for 38cm(15.0") TFT-LCD module.

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Contact and consult with a SHARP sales representative for any questions about this device.

(2) Introduction

This backlight unit is a service part for 38cm TFT-LCD module (LQ150X1DG11/16) of which backlight is designed to be replaceable. This is composed with lamp unit, lamp reflector and a lamp holder.

(3) Construction and Outline

Fig. 1. is a figure of external form of lamp unit.

Fig. 2. is a figure of external form of backlight unit.

(4) Input / Output terminals

4-1) I/O terminal order

Table 1

			140.10 1
Pin No.	Symbol	i/o	Description
1	V _{HIGH}	i	Power supply for lamp (High voltage side)
2	NC	-	No connection
3	V _{LOW}	i	Power supply for lamp (Low voltage side)

4-2) I/O connector

1) Installed socket housing : BHR-03VS-1

2) Applicable connector housing: SM02(8.0)B-BHS-1

(produced by Japan Solderless Terminal MFG CO., LTD.)

(5) Electrical characteristics

Table 2

Ta=25°C

Symbol	MIN.	TYP.		0	Remarks
7		-	6.0	mArms	(just for reference)
V _L	-	660	-	Vrms	[Note 1]
$W_{\mathtt{L}}$	-	4.0	-	W	[Note 2]
	20	60	70	kHz	I _{L=} 6.0mArms
	_	-	1,250	Vrms	Ta=25°C
<u> </u>	-	-	1,450	Vrms	Ta=0°C
LL	30,000	50,000	-	hours	[Note 3]
	W _L F _L V _S	I _L - V _L - W _L - F _L 20 V _S -		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c cccccccccccccccccccccccccccccc$

[Note 1] Available current range considering light-adjustment.

[Note 2] Calculated value for reference $(I_L \times V_L)$

[Note 3] Lamp life terminates when the luminance under the rated power reached 50% of the initial value after the continuous operation in the room temperature.

(6) Optical characteristics

Table 3

Ta=25°C

			1 aute	J		
Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Remarks
Luminance	Yı	25200	28000		cd/m ²	(just for reference)
Chromaticity	X		0.295			[Note 4]
Cinomation	V		0.273			
	1 1		01270	<u> </u>	<u> </u>	

[Note 4] The measurement shall be executed 15_20 minutes after lighting attracted power.

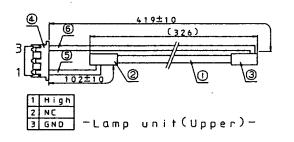
The value is measured at the center of the cold cathode fluorescent tube at a viewing cone 0.1° by TOPCON luminance meter BM-7.

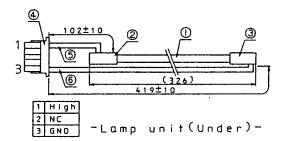
- (7) Environmental condition
 - 7-1) Operating temperature range: It is based on the conformity module.
 - 7-2) Storage temperature range : It is based on the conformity module.
 - (8) Procedure to exchange backlight unit

Fig. 3 shows the procedure to exchange backlight unit.

- * As working, please put on the finger stall, and pay attention by the handling not to pollute the lamp.
- 8-1) Make the module into a back direction, and remove the fixation screw of a backlight.
- 8-2) Pull the backlight unit to the arrow direction, and remove it.
- 8-3) Replace the backlight units for maintenance.
- 8-4) In opposite procedure, please assemble the removed parts again.
- (9) Packing form
 Packing form is shown Fig.4.
- (10) Others

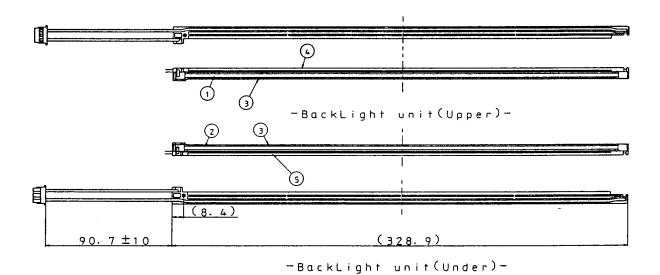
If any problem occurs in relation to the description in the present specifications or other relevant items, it shall be eliminated in all sincerity through discussion.





	Part unit	Q' ty	Material
1	Lamp	1	φ2. 6 L=321
2	Lamp rabber cushionH	1	Silicon rubber(SH502U)
3	Lamp rabber cushionG	1	Silicon rubber(SH502U)
4	Connector	1	BHR-03VS-1(JST)
5	WireH	1	UL10267W Pink
6	WireG	1	UL10267W White

Fig. 1. Outline drawing of lamp unit



	Part unit	Q' ty	Material
1	Lamp_unit(Upper)	1	Ø2. 6 L=321
2	Lamp unit(Under)	1	ϕ 2. 6 L=321
З	Lamp reflecter	2	PET
4	Lamp holder(Upper)	1	PC(GF10%) White
5	Lamp holder(Under)	1	PC(GF10%) White

Fig. 2. Outline drawig of BackLight unit

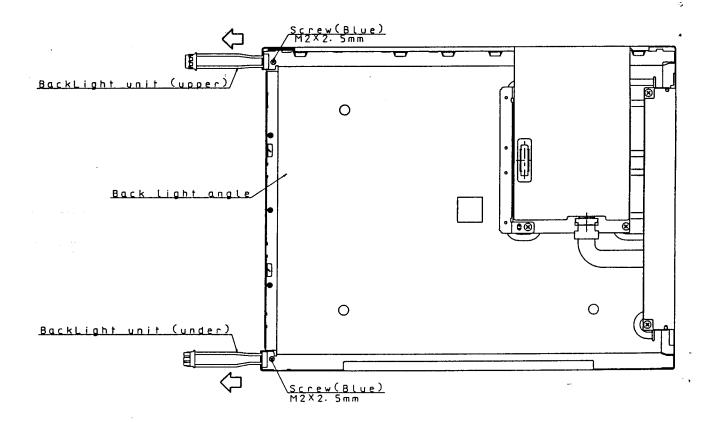
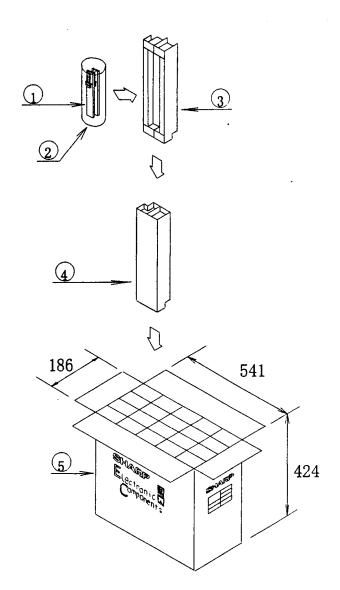


Fig. 3



No.	Part unit	Q'ty
1	Lamp Unit × 2	20set
2	Air cap sheets	20
3	Bumper	20
4	Unit Carton	20
5	Master Carton	1

20 units in each carton Total weight (g): 4,000 g

TYPE	LQ0BDD5166		
QUANTITY	20		
LOT(DATE)			

Fig. 4. Package form