

# Design Change Notification

May 16th, 2022

To: Sanyo Denki America Cooling Distributors

Product: BLDC FAN MOTOR

Model: San Ace 150 (9GV) 150mm sq. x 50mm thick

(Please refer Attached Sheet for a complete part number list.)

SANYO DENKI CO., LTD.  
Design Dept., Cooling Systems Div.

Approved	Checked	Designed
		

SANYO DENKI America, Inc.  
Cooling Systems Division

No.	Contents	Before Change	After Change	Description
1	Motor drive IC, electronic parts, Motor Windings and PWB	Use motor drive IC manufactured by ON-Semiconductor.	Use motor drive IC manufactured by Microchip.	Change to the motor drive IC due to discontinuation of production by the semiconductor manufacturer. Also change to some electric parts except IC, Motor windings and PWB due to the change of the motor drive IC.
2	Specifications	See the Attached Sheet.	See the Attached Sheet.	
3	Implementation Date			Implementation Date: From September, 2022 production (Estimated). Please note that the changeover schedule to new IC may change according to the number of products in the inventory.

**No. A0053083 - Attached Sheet 1**

[MODEL LIST]

San Ace 150 (9GV) – 150mm x 50mm thick

MODEL	Change contents
9GV1512H501	Attached Sheet 2
9GV1512H5011	
9GV1512H502	
9GV1512H5021	
9GV1512M501	
9GV1512M5011	
9GV1512M502	
9GV1512M5021	
9GV1512M5031	
9GV1512P5M011	Attached Sheet 3
9GV1512P5M03	
9GV1512P5M031	
9GV1512P5M04-X	
9GV1512P5M051	
9GV1512P5M05-X	
9GV1512P5M06	
9GV1512P5M061	

**No. A0053083 - Attached Sheet 2**

[MODEL]

9GV1512H501, 9GV1512H5011, 9GV1512H502, 9GV1512H5021,  
 9GV1512M501, 9GV1512M5011, 9GV1512M502, 9GV1512M5021, 9GV1512M5031

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967	PIC16F1823
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		Non-applicable	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		Non-applicable	
Sensor spec.		No change	

**No. A0053083 - Attached Sheet 3**

[MODEL]

9GV1512P5M011, 9GV1512P5M03, 9GV1512P5M031, 9GV1512P5M04-X, 9GV1512P5M051,  
 9GV1512P5M05-X,  
 9GV1512P5M06, 9GV1512P5M061

[Contents of change]

		Before Change	After Change
Motor drive IC	Type name	LB11967	PIC16F1823
	Manufacture	On-semiconductor	Microchip
Operating voltage		No change	
Electrical current		No change	
Speed		No change	
Operating temp.		No change	
Sound pressure level		No change	
Control terminal		No change	
Air flow – static pressure character		No change	
PWM duty cycle - Speed characteristic		No change	
Sensor spec.		No change	