

Operation Manual

Parts and Mountings List of Unit

Model name

CRB2BW 10~ 40 CRB1BW 50~100 CRBU2W 10~ 40

Part number / Series

SMC Corporation

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Safety Instructions

These safety instructions are intended to prevent a hazardous situation and/or equipment damage. These instructions indicate the level of potential hazard by labels of "Caution", "Warning" or "Danger". To ensure safety, be sure to observe ISO 4414, JIS B 8370 and other safety practices.

注意

Operator error could results in injury or equipment damage.

⚠警告

Operator error could result in serious injury or loss of life.

危険

In extreme conditions, there is a possible result of serious injury or loss of life.

⚠警告

1. The compatibility of pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications.

Since the products specified here are used in various operating conditions, their compatibility for the specific pneumatic system must be based on specifications or after analysis and/or tests to meet your specific requirements.

The expected performance and safety assurance will be the responsibility of the person who has determined the compatibility of the system.

This person should continuously review the suitability of all items specified, referring to the latest catalog information with a view to giving due consideration to any possibility of equipment failure when configuring a system.

2. Only trained personnel should operate pneumatically operated machinery and equipment.

Compressed air can be dangerous if an operator is unfamiliar with it.

Assembly, handling or repair of pneumatic systems should be performed by trained and experienced operators.

3. Do not service machinery/equipment or attempt to remove components until safety is confirmed.

- 1. Inspection and maintenance of machinery/equipment should only be performed once measures to prevent falling or runaway of the driven objects have been confirmed.
- 2. When equipment is to be removed, confirm the safety process as mentioned above. Cut the supply pressure for this equipment and exhaust all residual compressed air in the system.
- 3. Before machinery/equipment is restarted, take measures to prevent shooting-out of cylinder piston rod, etc.

4. Contact SMC if the product is to be used in any of the following conditions.

- 1. Conditions and environments beyond the given specifications, or if product is used outdoors.
- 2. Installation on equipment in conjunction with atomic energy, railway, air navigation, vehicles, medical equipment, food and beverages, recreation equipment, emergency stop circuits, clutch and brake circuits in pres applications, or safety equipment.
- 3. An application which has the possibility of having negative effects on people, property, or animals, requiring specials safety analysis.



Switch Block Unit

- When additional auto switch is needed or the switch block is damaged, only the switch block unit can be ordered separately.
- The solid state switch for CRB2BW10/15 and CRBU2W10/15 is provided in the switch block, and can be mounted by only two parts as shown in P611070-13.

CRB2BW10·15/CRBU2W10·15											
	For right hand (Reed	switch	1}	For left –handed (Reed switch)			Common to right-handed and left-handed (Solid state switch)				
	Unit part number: P6	31107	0-8	Unit part number: P611070-9			0-9	Unit part number: P611070-13			
3			4 (5)	1 (2) (4) (5)			/_		Sol	id sta	te switch
	Cross recessed round head screw	1	M3×4ℓ		Cross recessed round head screw	1	M3×4ℓ				
	Crossreacesedroundheadsarew	1	M3×8ℓ	g	Cross recessed round head screw	1	M3×8ŧ				
0	Fixing block(B)	1		0	Fixing block(B)	1					
	Fixing block(A)	1			Fixing block(A)	1			Crossiecessediroundheadscrew	1	M3×8Ł
В	Switch block(A)	1		0	Switch block(B)	1			Fixing block(A)	1	
No,	Description	Qty,	Remarks	No,	Description	Qty,	Remarks	No,	Description	Qty,	Remarks
CRB2BW20·30/CRBU2W20·30			CRB2BW40/CRBU2W40 For right -handed For left -handed								
Co	ommon to right-handed a	nd left-	handed		(Reed switch		25-11-20-11-11-11-11-11-11-11-11-11-11-11-11-11	(Reed switch)			
	Unit part number: P6	Unit part number: P611060-8 Unit			Unit part number: P6	311010	-8	Unit part number: P611010-9			-9
3				2 0 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			39				
П	Cross recessed round head screw	1	M3×4ℓ	В	Cross recessed round head screw	1	M3×4ℓ		Cross recessed round head screw	1	M3×4ℓ
	Cross recessed round head screw	1	M3×8ℓ	D	Cross recessed round head screw	1	M3×8ℓ	0	Cross recessed round head screw	1	M3×8ℓ
0	Fixing block	1			Fixing block	1		0	Fixing block	1	
	Switch block	1			Switch block(A)	1		0	Switch block(B)	1	
No,	Description	Qty,	Remarks	No,	Description	Qty,	Remarks	No,	Description	Qty,	Remarks

CRB1BW50								
For right-handed			For left-handed					
Unit part number: P411020-8								
Unit part number: P411020-8					Unit part number: P411020-9			
	Cross recessed round head screw	1	M3×4ℓ	D	Cross recessed round head screw	1	M3×4ℓ	
	Cross recessed round head screw	1	M3×8ℓ	П	Cross recessed round head screw	1	M3×8ℓ	
	Fixing block	1			Fixing block	1		
D	Switch block(A)	1		D	Switch block(B)	1		
No,	Description	Qty,	Remarks	No,	Description	Qty,	Remarks	
		С	RB1BW	63, 80	, 100			
	For right-hand	ed			For left-handed	t		
	Unit part number: P4	11040-8	3		Unit part number: P4	11040-9		
					(a)			
0	Hexagon nut	1	OverdæsM33		Hexagon nut	1	OverdæsMB3	
0	Cross recessed round head screw	1	M3×4ℓ		Cross recessed round head screw	1	M3×4ℓ	
0	Cross recessed round head screw	1	M3×8ℓ	D	Cross recessed round head screw	1	M3×8ℓ	
	Fixing block	1			Fixing block	1		
	Switch block(A)	1			Switch block(B)	1		
No,	Description	Qty,	Remarks	No,	Description	Qty,	Remarks	

Anto Switch Buffer

Part number of auto switch unit (The auto switch is not included.)

Product series	Applicable model	Unit part number		
	CDRB2BW 10	P611070-1		
	CDRB2BW 15	P611090-1		
CRB2 series	CDRB2BW 20	P611060-1		
	CDRB2BW 30	P611080-1		
	CDRB2BW 40	P611010-1		
	CDRBUW2BW10	P611070-1		
	CDRBUW2BW15	P611090-1		
CRBU2 series	CDRBUW2BW20	P611060-1		
	CDRBUW2BW30	P611080-1		
	CDRBUW2BW40	P611010-1		
	CDRB1BW 50	P411020-1		
CRB1 series	CDRB1BW 63	P411030-1		
CIAD I Selles	CDRB1BW 80	P411040-1		
	CDRB1BW100	P411050-1		

Each unit can be mounted later on an independent rotary actuator.

If the auto switch becomes necessary after received, the auto switch unit can be added, but the auto switch itself needs to be ordered separately. If the switch block for a solid state auto switch is used for size 10 or 15, a set of parts for the switch block unit for a reed auto switch will become unnecessary.



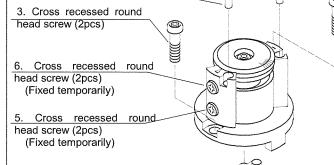
Applicable model CDRB2BW10 and CDRBUW10

Mounting of reed auto switch unit and auto switch (reed type)

Mounting of solid state auto switch unit and auto switch (solid state type)

For the mounting of auto switch (including a unit), follow the procedure below in order (of the number attached to each part). (Note 1 The auto switch 4 is excluded for the order by unit)

(Note 2 Each screw shall be tightened at a torque of approx. 0.49Nm.) 4. Auto switch (2pcs)



Hexagon socket round

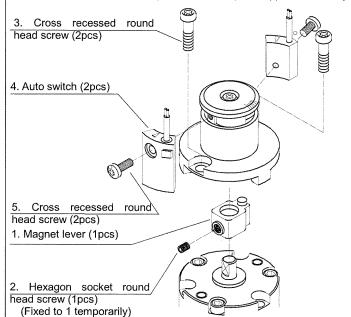
head screw (1pcs) (Fixed to 1 temporarily)

1. Magnet lever (1pcs)

For the mounting of auto switch (including a unit), follow the procedure below in order (of the number attached to each part).

(Note 1 The auto switch 4 is excluded for the order by unit)

(Note 2 Each screw shall be tightened at a torque of approx. 0.49Nm.)



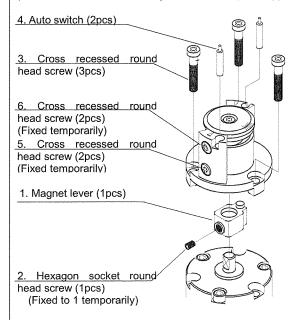
Applicable model: CDRB2BW15 and CDRBU2W15

Mounting of reed auto switch unit and auto switch (reed type)

For the mounting of auto switch (including a unit), follow the procedure below in order (of the number attached to each part).

(Note 1 The auto switch 4 is excluded for the order by unit)

(Note 2 Each screw shall be tightened at a torque of approx. 0.49Nm.)

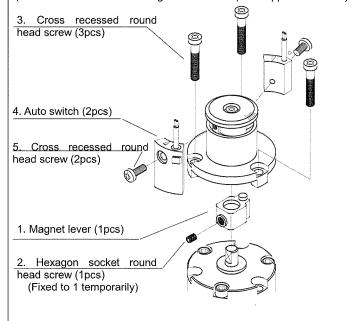


Mounting of solid state auto switch unit and auto switch (solid state type)

For the mounting of auto switch (including a unit), follow the procedure below in order (of the number attached to each part).

(Note 1 The auto switch 4 is excluded for the order by unit)

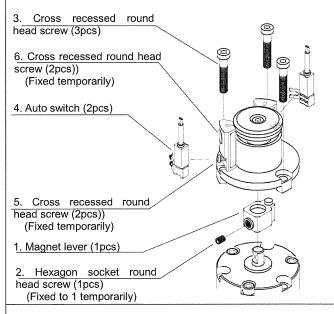
(Note 2 Each screw shall be tightened at a torque of approx. 0.49Nm.)



Applicable model: CDRB2BW20,30 and CDRBU2W20,30

Mounting of reed auto switch unit and auto switch (reed type)

For the mounting of auto switch (including a unit), follow the procedure below in order (of the number attached to each part). (Note 1 The auto switch 4 is excluded for the order by unit) (Note 2 Each screw shall be tightened at a torque of approx. 0.49Nm.)



Applicable model: CDRB1BW50,63,80,100

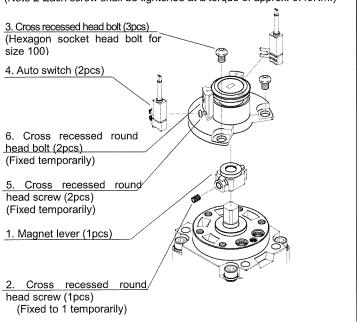
Mounting of auto switch unit and auto switch (common to reed

and solid state type)

For the mounting of auto switch (including a unit), follow the procedure below in order (of the number attached to each part).

(Note 1 The auto switch 4 is excluded for the order by unit)

(Note 2 Each screw shall be tightened at a torque of approx. 0.49Nm.)



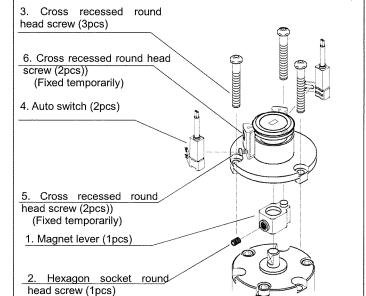
Applicable model: CDRB2BW40

Mounting of auto switch unit and auto switch (common to reed and solid state type)

For the mounting of auto switch (including a unit), follow the procedure below in order (of the number attached to each part).

(Note 1 The auto switch 4 is excluded for the order by unit)

(Note 2 Each screw shall be tightened at a torque of approx. 0.49Nm.)



(Fixed to 1 temporarily)





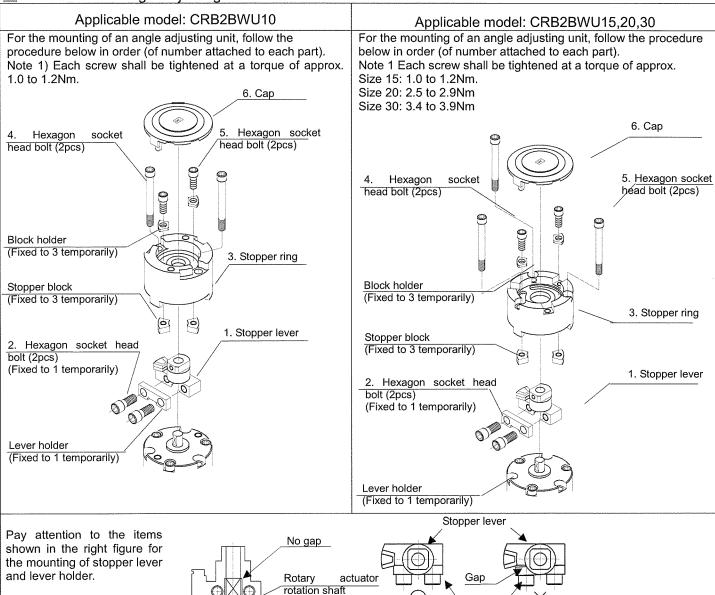
Angle Adjusting Unit

Part number of angle adjusting unit

Product series	Applicable model	Unit part number	
	CRB2BWU10	P611070-3	
	CRB2BWU15	P611090-3	
CRB2 series	CRB2BWU20	P611060-3	
ONDE COMOC	CRB2BWU30	P611080-3	
	CRB2BWU40	P611010-3	
	CRBUW2U10	P611070-3	
	CRBUW2U15	P612090-3	
CRBU2 series	CRBUW2U20	P612060-3	
	CRBUW2U30	P612080-3	
	CRBUW2U40	P611010-3	

Each unit can be mounted later on an independent rotary actuator.

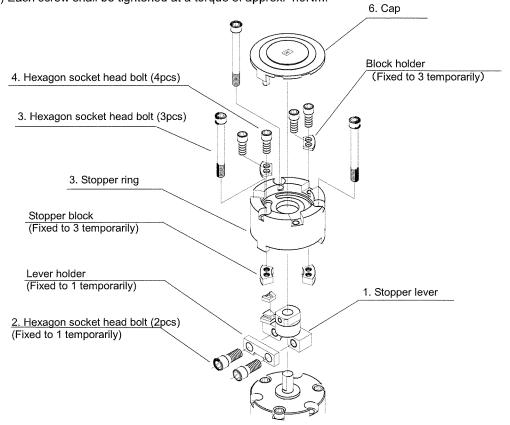
How to mount angle adjusting unit



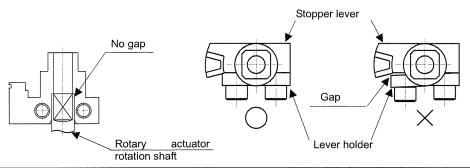
Lever holder

Applicable model: CRB2BWU40

For the mounting of an angle adjusting unit, follow the procedure below in order (of number attached to each part). Note 1) Each screw shall be tightened at a torque of approx. 4.9Nm.



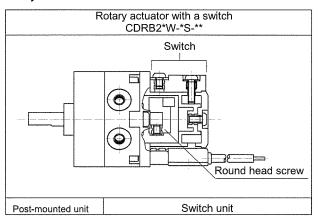
Pay attention to the items shown in the right figure for the mounting of stopper lever and lever holder.

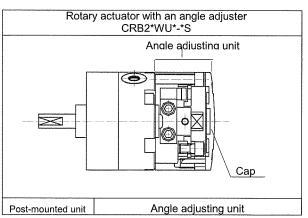


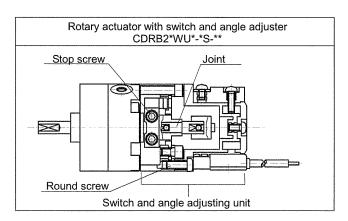
Joint Unit for Combining Switch Unit and Angle Adjusting Unit

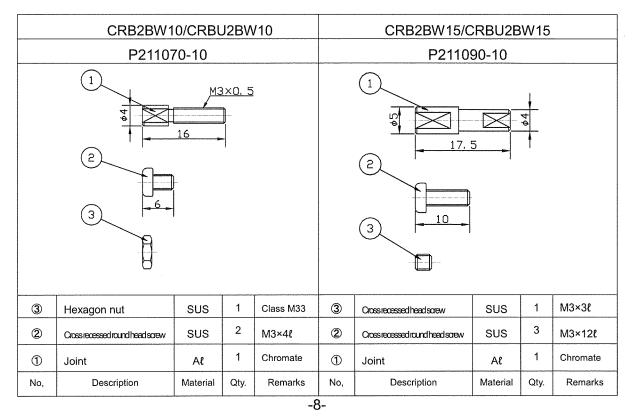
Part number of joint unit

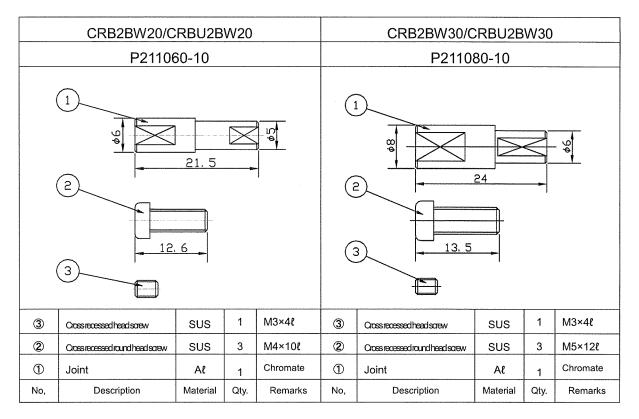
The joint unit is required to change the rotary actuator with a switch and angle adjuster to the switch with an angle adjuster.

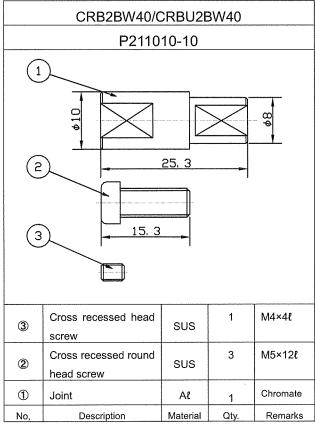










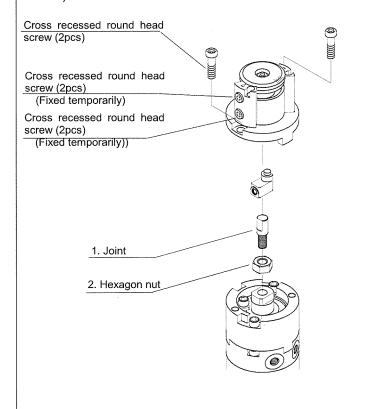


How to mount joint unit

Applicable model: CDRB2BWU10/CDRBU2WU10

For mounting, follow the procedure below in order (of the number attached to each part).

(Note 1 Each screw shall be tightened at a torque of approx. 4.9Nm.)



Applicable model: CDRB2BWU15,20,30,40 CDRBU2WU15,20,30,40

For mounting, follow the procedure below in order (of the number attached to each part).

(Note 1 Each screw shall be tightened at a torque of approx. 4.9Nm.)

