

1. INTRODUCTION

This instruction sheet shows the recommended configuration, instruction method and notices for products for circuit confirmation checker shown in Fig.1.

When making and operating checker for circuit confirmation using this instruction sheet, please contact us.

1.1 Table for applicable product name, product number and SCR housing using checker

Product Name	Part No.	SCR Housing	Part Name
11DIA SQUIB CONNECTOR MK-II	1473139-1	1473368-1	11DIA SQUIB CONNECTOR MK-II PLUG HOUSING
	1473140-1		11DIA SQUIB CONNECTOR MK-II LOCKING BUTTON
	353376-3		SOCKET CONTACT
	353379-2		SQUIB CONNECTOR FERRITE
11DIA SQUIB CONNECTOR SLIM TYPE	1376688-1	1473368-1	11DIA SQUIB CONNECTOR SLIM TYPE PLUG HOUSING
	1376688-3	1473368-3	11DIA SQUIB CONNECTOR SLIM TYPE PLUG HOUSING
	1376689-1	1473368-3	11DIA SQUIB CONNECTOR LOCKING BUTTON
	353376-3		SOCKET CONTACT
	353379-2		SQUIB CONNECTOR FERRITE
11DIA SQUIB CONNECTOR SLIM TYPE MK-II	1612120-1	1473368-1	11DIA SQUIB CONNECTOR SLIM TYPE MK-II PLUG HOUSING
	1612120-3	1473368-3	11DIA SQUIB CONNECTOR SLIM TYPE MK-II PLUG HOUSING
	1612119-1	1473368-3	11DIA SQUIB CONNECTOR SLIM TYPE MK-II LOCKING BUTTON
	353376-3		SOCKET CONTACT
	353379-2		SQUIB CONNECTOR FERRITE

Fig. 1

2. COMPOSITION OF CHECKER

Fig.2 shows the composition of checker for confirming circuit.

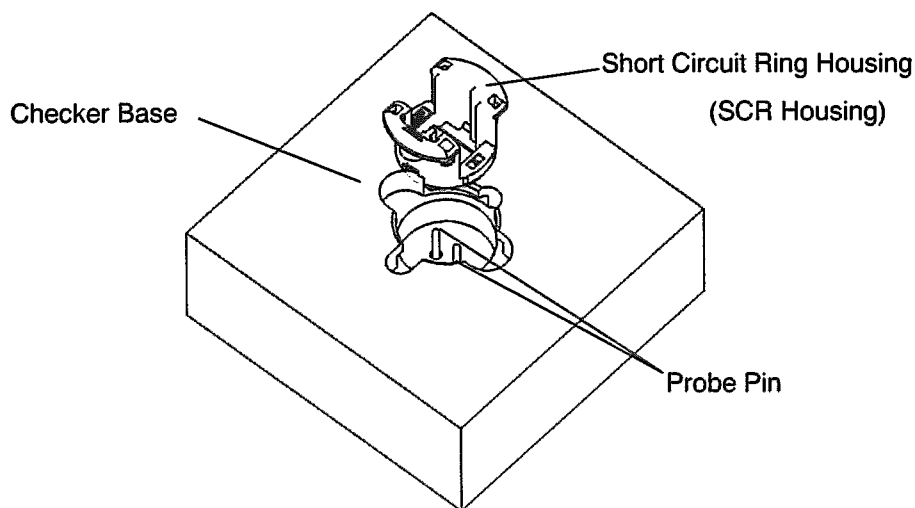


Fig. 2

3. DIMENSION OF CHECKER

When making checker base and installation of probe pin, please refer to the dimension of Fig.3.

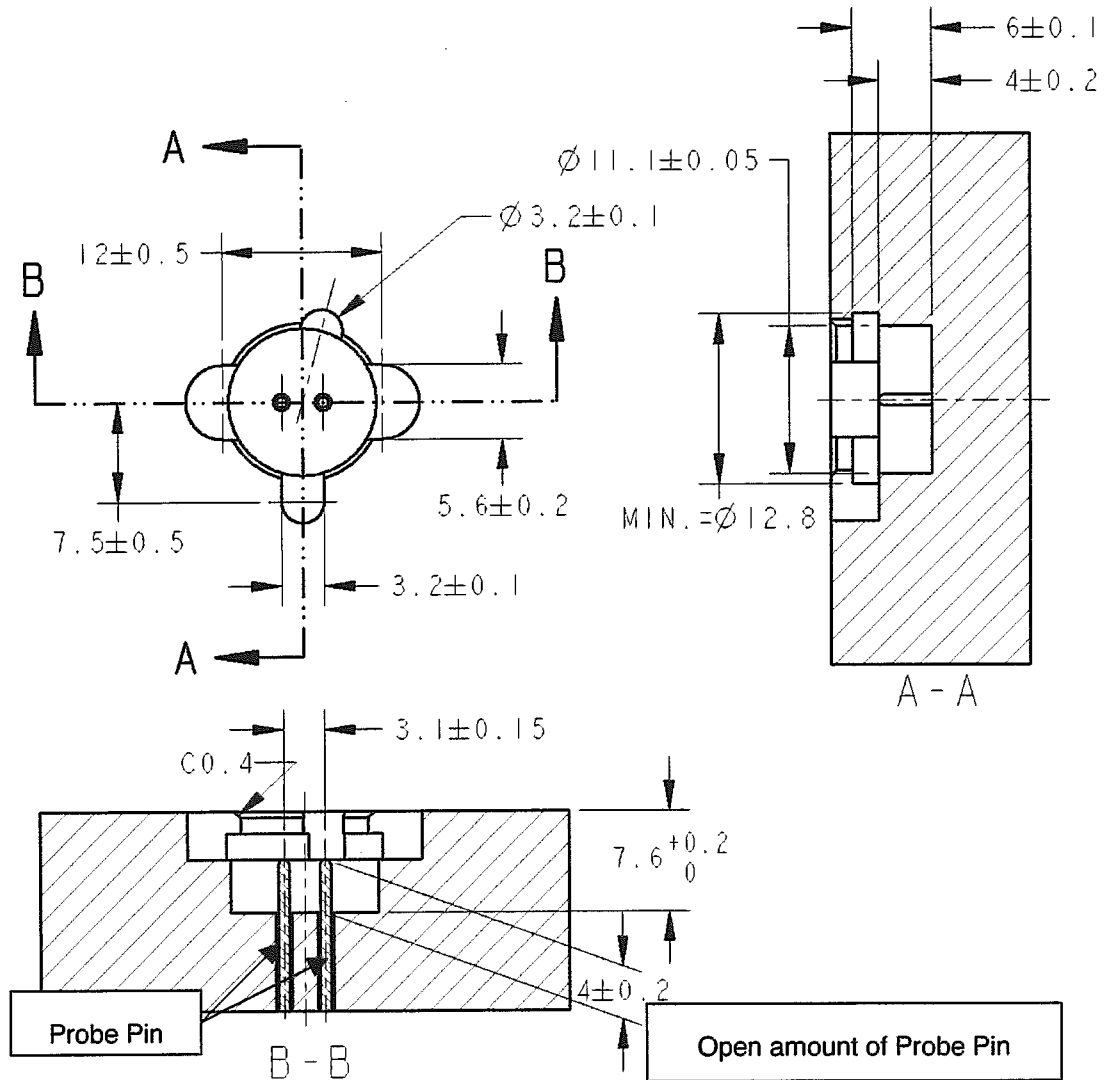


Fig.3

NOTE

1. No occurrence of burrs for checker base when processing.
2. No occurrence of inclination when inserting probe pin.

4. PROBE PIN

When choosing probe pin, please use items which satisfies the condition of Fig.4

	Items	Condition
1	Tip Configuration	Sphere
2	Tip Diameter	Φ0.8mm
3	Tip Plating	Gold Plating
4	Tip Stroke	4mm Min.
5	Contact Pressure	50g or less

Fig.4

Probe pin which satisfies the above conditions is CP12-R made by Sankei Engineering Corp.

NOTE

1. Always use 「R-Configuration」 probe for tip configuration. Deformation of housing and terminal may cause when using except for 「R-Configuration」.
2. Deformation of housing and terminal may cause when using large tip diameter probe.
3. Defective contact for products may cause when using probe except for gold plating.
4. Deformation of housing and terminal may cause when using less tip stroke probe.
5. Deformation of housing and terminal may cause when using high contact pressure probe .

5. SHORT CIRCUIT RING HOUSING

Use after removing AMP product No. : 1473368 shown in Fig.5.

※Three types of aperture different products are available. Please refer to Fig.1 when using, and choose items which fits to the female connector.

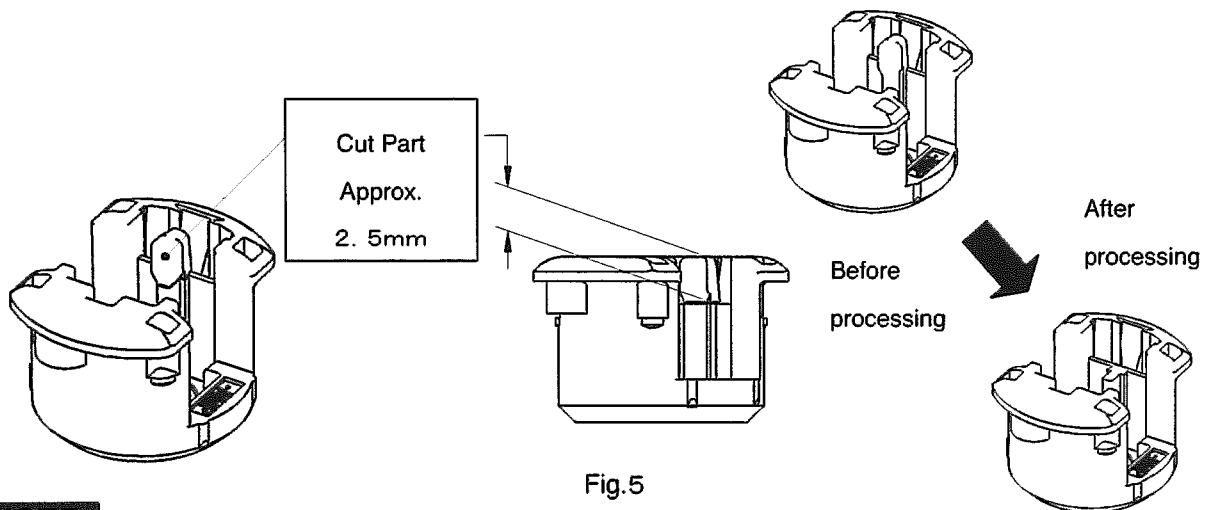


Fig.5

NOTE

1. When processing, mind for occurrence of deformation and burrs for other parts.
2. Use of unprocessed products may cause deformation of housing and locking button.

6. INSERTING SHORT CIRCUIT RING HOUSING TO CHECKER BASE

As Fig.6 shows, make sure that the aperture of checker base and the stick of short circuit ring housing matches, and confirm surface A contacts checker base when inserting.

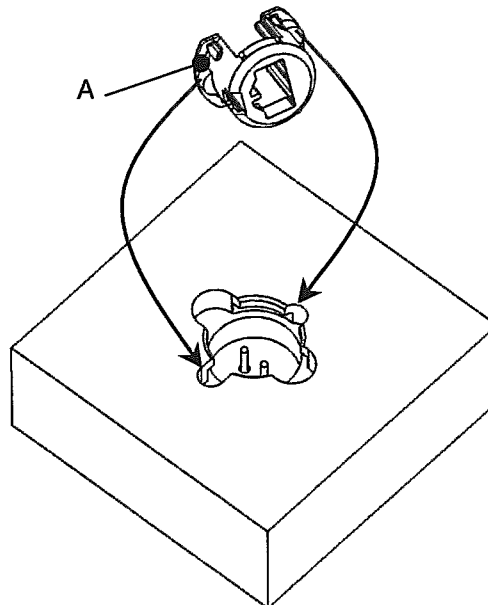


Fig.6

NOTE

1. Short circuit ring housing has directions. Mind for deformation when inserting.
2. Deformation of housing and terminal may cause when short circuit ring housing are not inserted accurately.

7. REPLACEMENT OF SHORT CIRCUIT RING HOUSING

When replacing short circuit ring housing, please use the part shown in Fig.7.

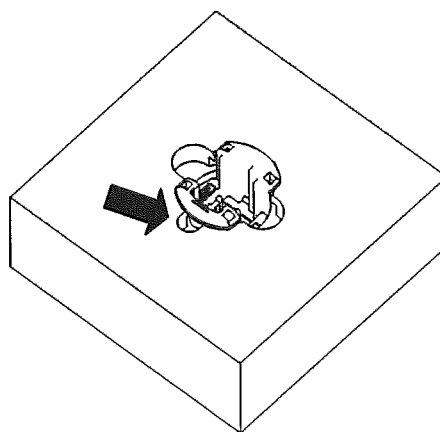


Fig.7

NOTE

1. Usage of around 500 mating frequency of female connectors, replace short circuit ring housing. When deformation of short circuit ring housing occurred before the above frequency, replace immediately as deformation of housing and terminal may cause.
2. When replacing short circuit ring housing, mind for deformation of probe.

8. INSPECTION OF CHECKER

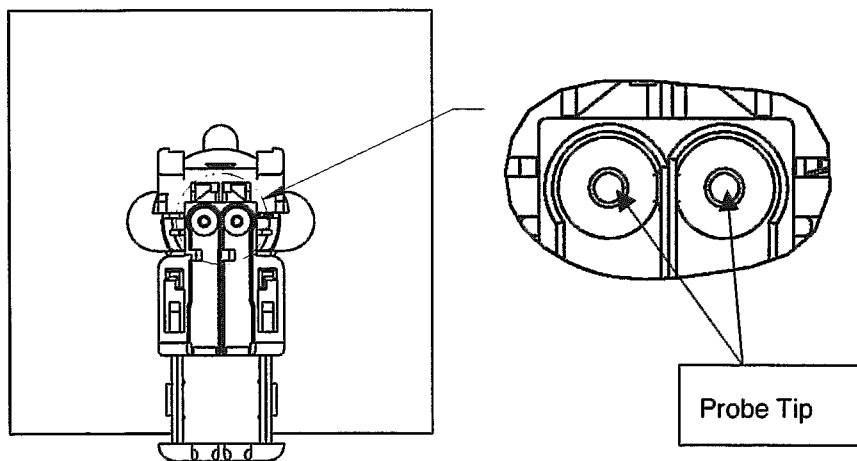
Before starting circuit confirmation work, please inspect the problems at least shown in Fig.8 below. This inspection should be operated before and after opening time, and when replacing short circuit ring housing.

	Items
1	Deformation of Checker Base
2	Deformation of Short Circuit Ring Housing
3	Inserting condition of Short Circuit Ring Housing
4	Deformation of Probe
5	Gold Plating at Probe Tip
6	Stain at Probe Tip
7	Condition of Probe stroke
8	Open amount of Probe
9	Location misalignment for Probe
10	Foreign matter inside Checker

Fig.8

NOTE

1. If any incident found during the inspection, adjust immediately. At the same time, check any incident for of harness completed before the inspection.
2. When checking location misalignment for probe, use plug housing shown as Fig.9.
 - When inserting plug housing, there should be no collision to probe during operation.
 - After inserting, probe tip should be confirmed same as below from front of plug Housing.



9. INSTRUCTIONS DURING CIRCUIT CONFIRMATION WORK

During circuit confirmation work using checker, mind the following points to avoid the deformation of checker and female connector.

9.1 INSERTING CONNECTOR TO CHECKER

- Mate straight and do not mate from angle direction.
- Mate female connector to checker completely.

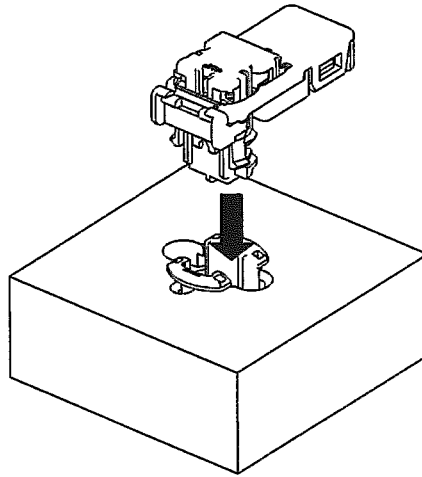


Fig.10

9.2 CONFIRMATION OF CIRCUIT

- Do not put excess load to female connector.

9.3 SEPARATION OF CONNECTOR FROM CHECKER

- Separate female connector straight up.

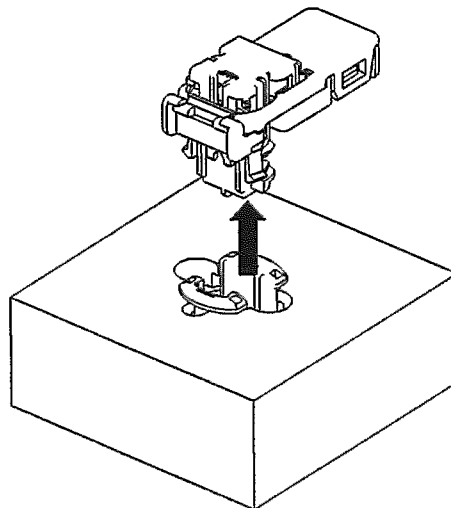


Fig.11