



Model:
GR-N309/319

Built-in Refrigerator
Installation Manual

P/No.: MFL62338202

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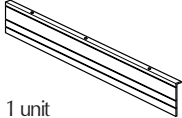
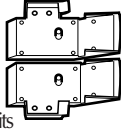
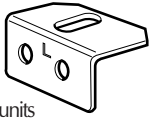
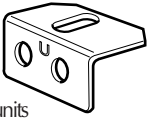
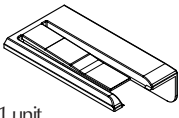
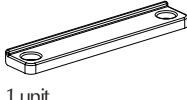
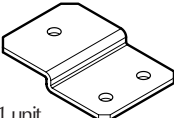
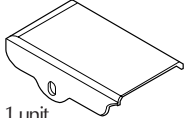
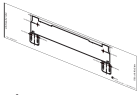
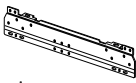
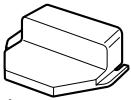
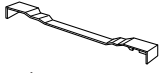
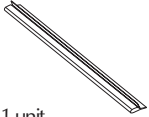


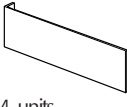
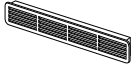
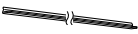
This installation manual was prepared on the door to be opened to the right side. To desire the door to the left side, install product after firstly reading the last page (p. 19).






1. Caution Before Installation

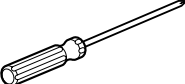



- Product must be installed at a place to avoid heat of the heater or boiler, or direct light ray, or where airflow is smooth or where appropriate ventilation is always provided.
- Prepare the furniture case that air circulation is possible by referring to the dimension of furniture. Install the product so that airflow through the front air suction inlet is smooth. Normal performance of product may be disturbed when an air circulation structure is not obtained.
- Install the product at the place where there is no entrance/exit of the outside object (mouse) since fire may occur due to damage of power cords.
- Install the furniture door attached to the refrigerator so that approximately 5mm interval can be maintained between the side furniture door and the wall.
- Use the specified dimension of furniture case since the furniture door is sagged during use or it is inconvenient to use where the furniture is excessively lengthened for accommodation space on the product.
- Check there is no lay of the product door after attaching the furniture door. Check the gasket of the fridge/the freezer is properly attached.
- Use the furniture case with hard material since bolting force is weak and it is damaged where the furniture case is of soft material (example, gypsum).
- Use the furniture case without twisting by radiation of product, or bending phenomena due to moisture occurred by opening or closing of the refrigerator door.
- Install the product at a place where horizontality and verticality of the furniture case are accurate (within 1mm horizontally or vertically). Verticality of the side panel may be distorted or the furniture case may be slowly twisted for a long time in case of installing the product on the bottom plate with a soft material (Ensure that the product has material or structure that distortion does not occur continuingly).
- Install the built-in refrigerator in cooperation of 2 persons (1 team).
- Protect children during installation, in use of installation parts and from installation location.
- Take and use screws from the packing vinyl one by one since you may be injured due to leaving of screws during work.
- Prohibit use a multi-cord since there is danger of fire.
- Ensure to find normal operation of the product by connection of power cord before installation.

2. Installation Parts

Parts prepared before installing furniture case	① Top cover	② Hinge stand	③ Depth adjust Bracket (hole size = 5.5mm)	④ Depth adjust Bracket (hole size = 8mm)	
	 1 unit	 4 units	 4 units	 4 units	
Parts related with case after inserting furniture case	⑤ Hinge cover	⑥ Bracket case cover	⑦ Bracket case	⑧ Case cover	
	 1 unit	 1 unit	 1 unit	 1 unit	
Parts related with furniture door after inserting furniture case	⑨ Paper jig	⑩ Top bracket	⑪ Depth adjust bracket cover	⑫ Top bracket cover	
	 1 unit	 1 unit	 4 units	 1 unit	
Parts related with finishing work	⑬ Bottom part gasket	⑭ Cap screw	⑮ Hinge front cover	⑯ Air path cover	⑰ Gasket
	 1 unit	 6 units  2 units	 4 units	 1 unit	 2 units

① Wood bolting screw		② Wood bolting screw		③ Upper bracket bolting screw		
	Spec D4×L16	Quantity 8		Spec D4×L12	Quantity 27	
④ Height adjusting nut		⑤ Hinge bolting screw		⑥ Spanner		
	Spec M5	Quantity 8		Spec M5	Quantity 10	
					Spec -	Quantity 1

Parts not provided on the installation	Cross (+) driver	2m tape rule
		

5. Installation Environment for Built-in Refrigerator

- Prepare space for minimum ventilation so that smooth heat exchange of the refrigerator can be done.

1. There must exist a structure that air can enter through the suction inlet and can discharge through the discharge outlet.
2. Ensure that No. ② path can be obtained in case of installation environment where No. ① path is obtained.
3. Ensure that the air circulation space in the No. ①, ② of more than 200cm² can be obtained.

⚠ CAUTION

Required conditions of furniture bottom surface

- Bottom surface:

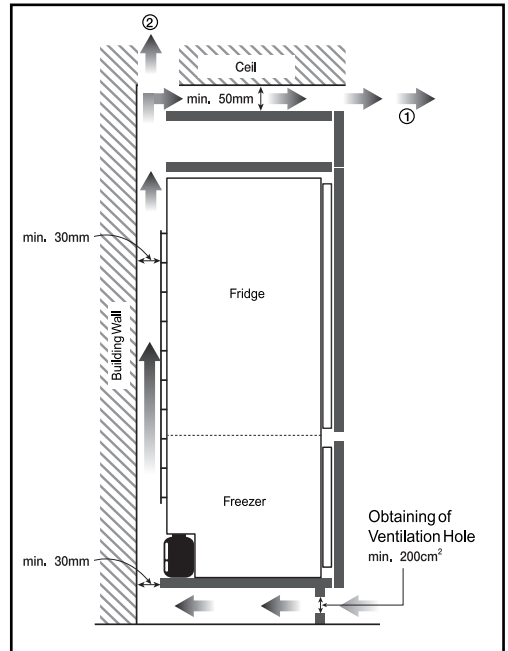
It is required to use T 20mm to obtain strength.

- Space stand:

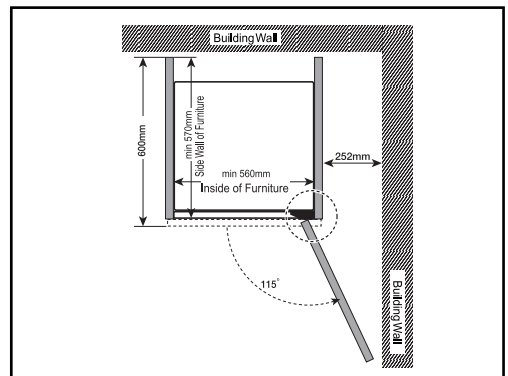
Ensure to install the space stand so that the furniture surface may be distorted due to inside weight (Max 200kg: Product + Food + Furniture Door + Shock in opening or closing).

- Level:

Distortion of the whole of furniture may be resulted in or the door will not be closed due to weight of product unless level of the bottom surface is suitable.



- Plan drawing of installation furniture case and maximum opening of door

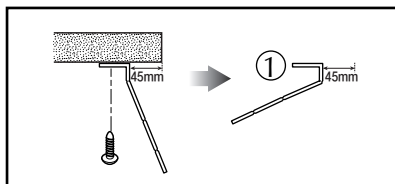


6. Order of Installation

1) Preparation Work Before Installation of Refrigerator

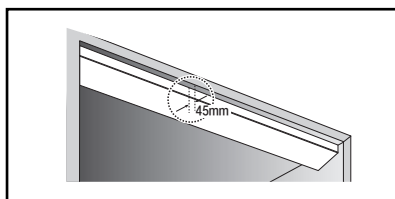
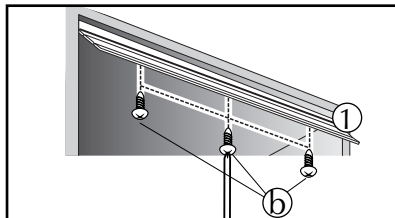
1. Installation of refrigerator top cover ①.

- 1). Previously fold the top cover ① of refrigerator as in the right drawing.

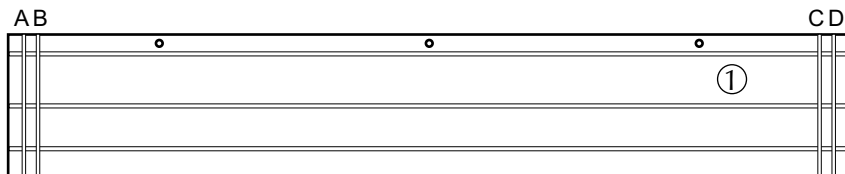


- 2). Fix the refrigerator top cover ① with the wood bolting screw ⑥ (3 places) at a place away 45mm from the end of furniture case.

(In case thickness of the furniture case is 18mm, 20mm, install the product after cutting the refrigerator top cover ① as in the below "Reference".)



※ Reference



In case of door opened to the right

Cut the A-spot when thickness of the furniture case is 18mm, cut the B-spot 20mm.

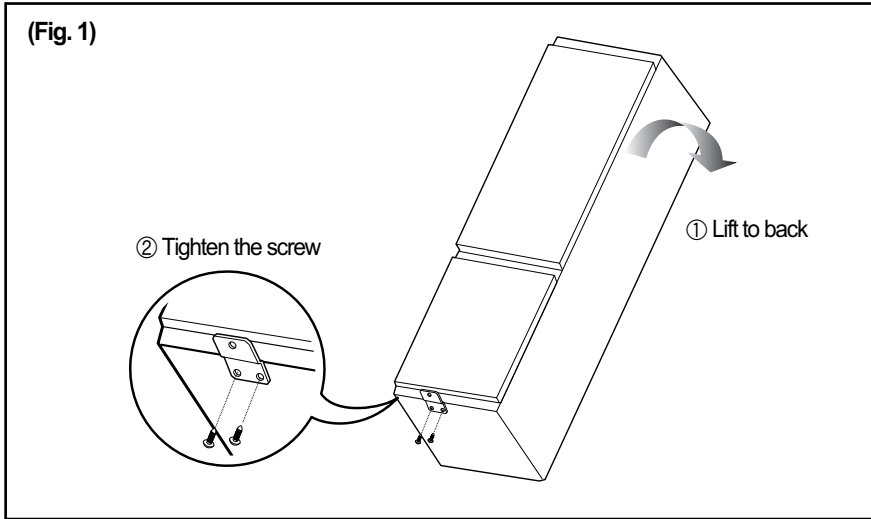
In case of door opened to the left

Cut the D-spot when thickness of the furniture case is 18mm, cut the C-spot 20mm.

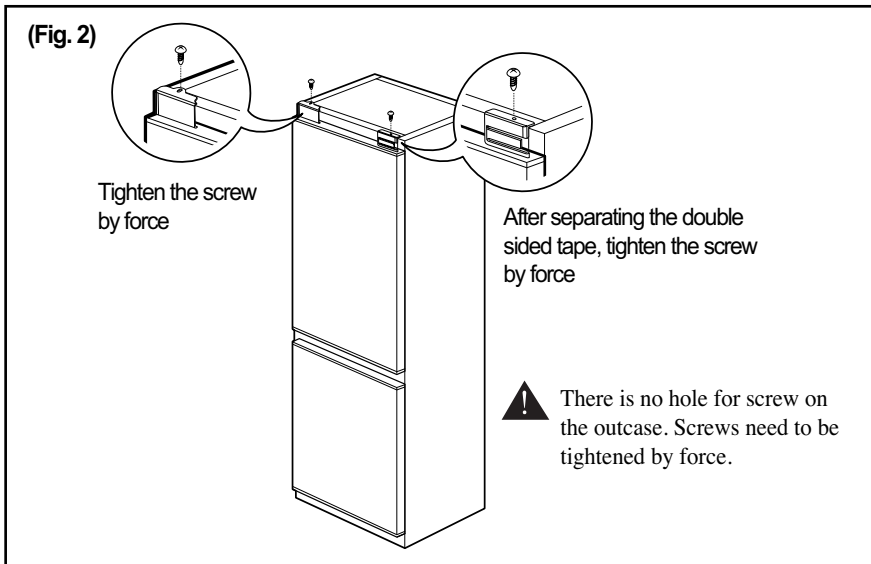
6. Order of Installation

1) Preparation Work Before Installation of Refrigerator

1. Assembly bracket



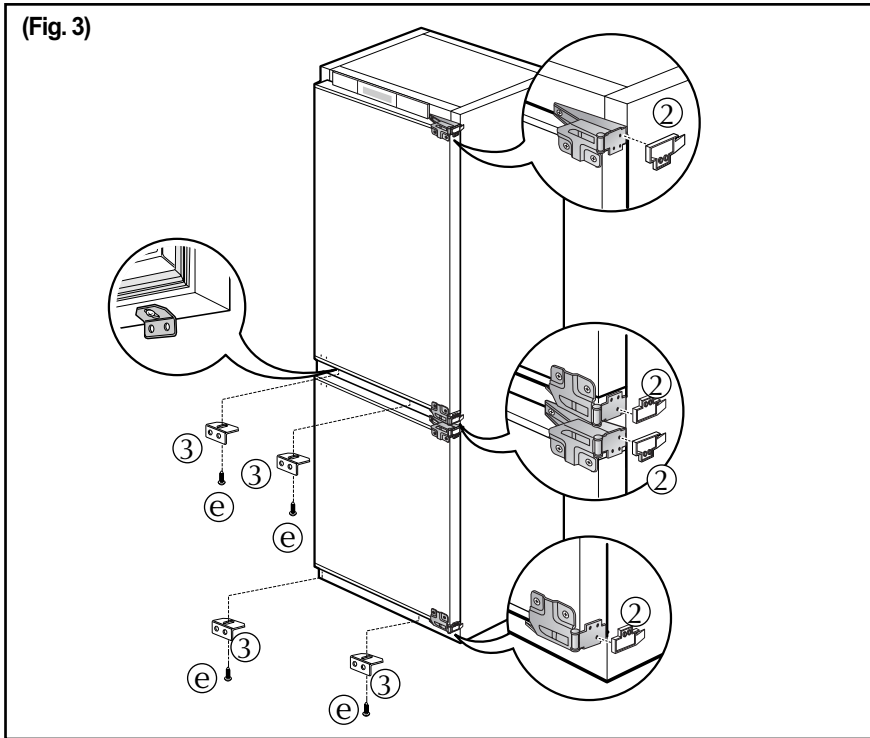
2. Assembly cover



6. Order of Installation

1) Preparation Work Before Installation of Refrigerator

2. Insert the hinge stand ② into the hinge (4places) as in the below figure (See figure 3) (Don't insert the hinge stand when thickness of the furniture case is 20mm.)
3. Lean the refrigerator backward and then fix the depth adjust bracket ③ to the underside (2places) loosely with the hinge bolting screw ④ in figure (Same for door work of the cold store room and the freezing room) (See Fig.3).



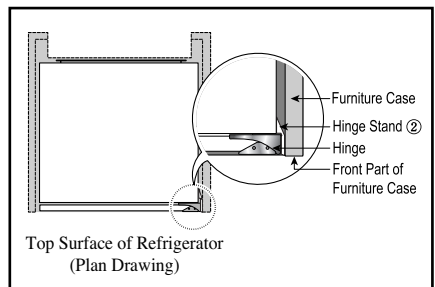
2) Case-related Work After Inserting Refrigerator

4. Pull the power cords at the backside of the furniture case.

! Exercise the power cords are not pressed by the bottom of refrigerator in installing the product. Damage of wires may result in fire.


5. Insert the refrigerator into the furniture case so that the end of the hinge stand ② corresponds to the front part of the furniture case.

! Perform work while exercising the handprint when inserting the refrigerator into the furniture case.

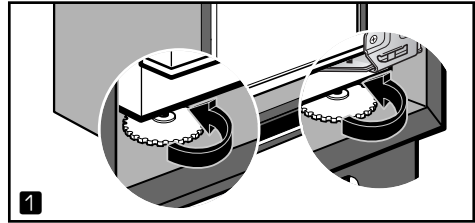


6. Order of Installation

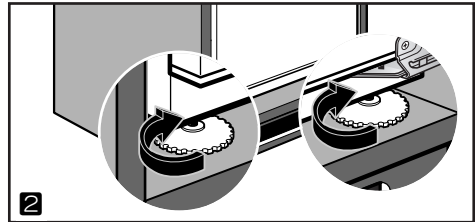
2) Case-related Work After Inserting Refrigerator


6. Adjust both verticality and horizontality by turning the horizontal adjusting leg () of refrigerator.

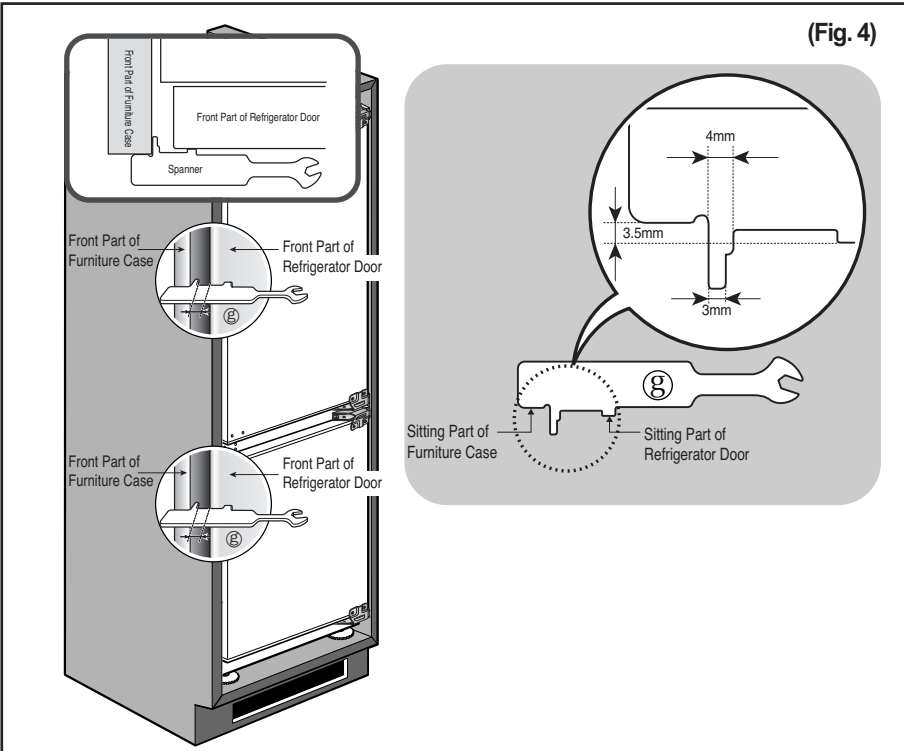
1 When the topside is deep
Adjust the horizontality by turning the horizontal adjusting leg anticlockwise since the refrigerator leans backward.



2 When the underside is deep
Adjust the horizontality by turning the horizontal adjusting leg clockwise since the refrigerator leans forward.



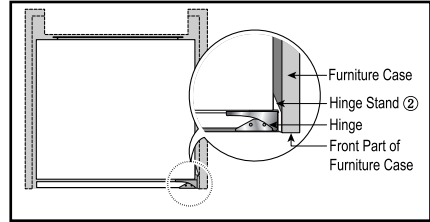
Check that the depth dimensions of the front part of the furniture case and the front part of refrigerator door are constant by using the spanner  (See Fig. 4).



6. Order of Installation

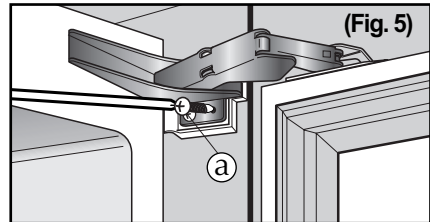
2) Case-related Work After Inserting Refrigerator

7. Check that the end of the hinge stand ② corresponds to the right front side of the kitchen furniture.

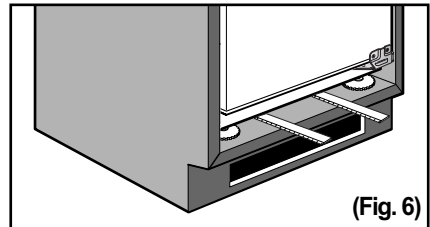


8. Fix the hinge with the wood bolting screw ① (8places) (See Figure 5).

! In bolting screws, perform work with care since you may be injured by hinge operation.



9. Check that the left / right depth interval as in Figure 6 is constant by using a rule.

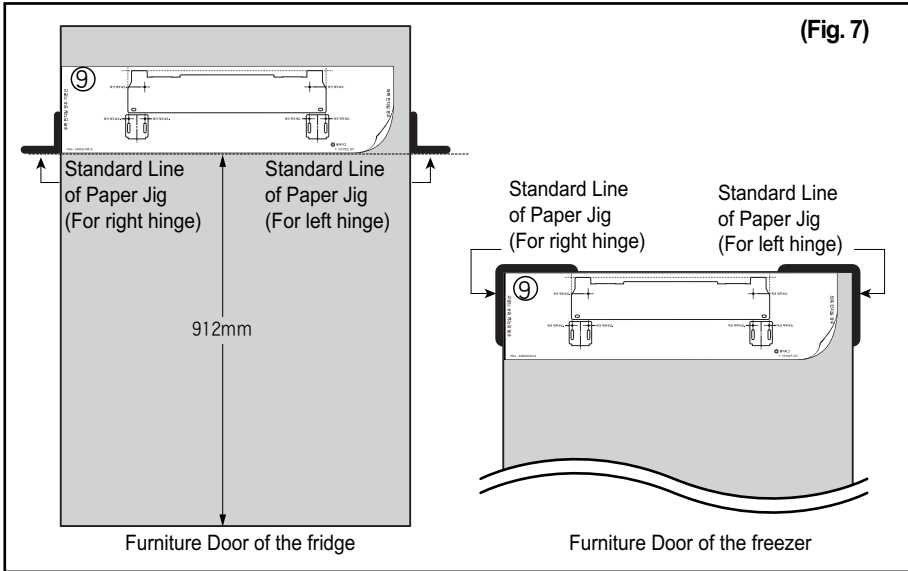


6. Order of Installation

3) Work Related with Furniture Door

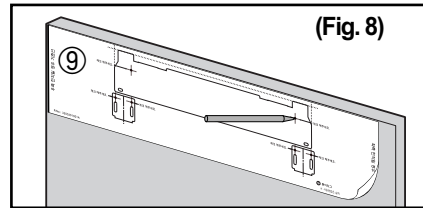
10. Place the paper jig ⑨ on the standard line of the paper jig at the back of the furniture door (See Fig. 7).

※ **Reference** For the door of the fridge: Place the paper jig ⑨ at the point away 912 mm from the underside of the fridger furniture door.

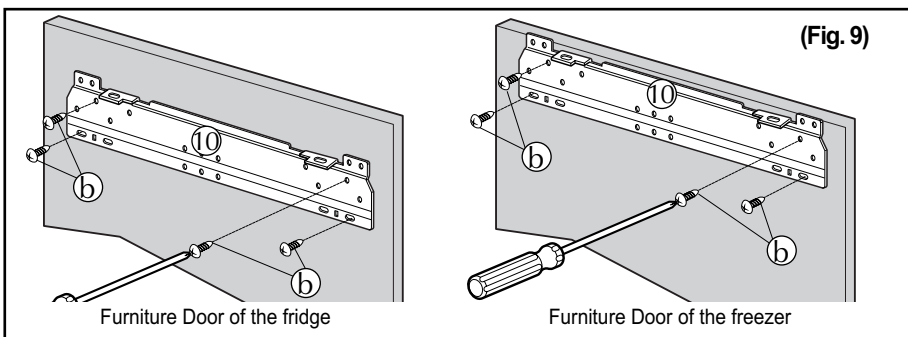


11. Indicate two holes at the paper jig ⑨ on the furniture door (See Figure 8).

⚠ Check the indicated point is laid at accurate position before fixing with the wood bolting screw ⑥ once again.



12. After removing the paper jig ⑨, fix the top bracket ⑩ of the furniture door by using the wood bolting screw ⑥ (4 places) with the top bracket ⑩ of the furniture door touched with the furniture panel (See Figure 9).

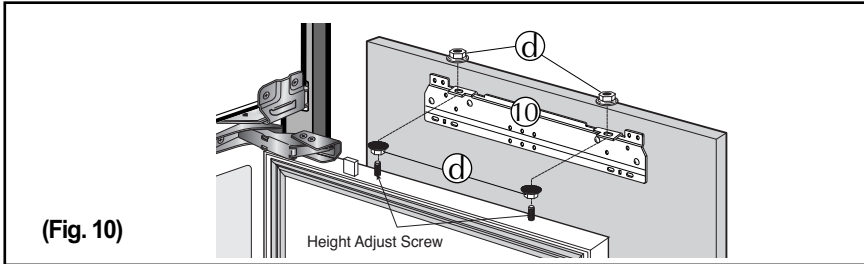


6. Order of Installation

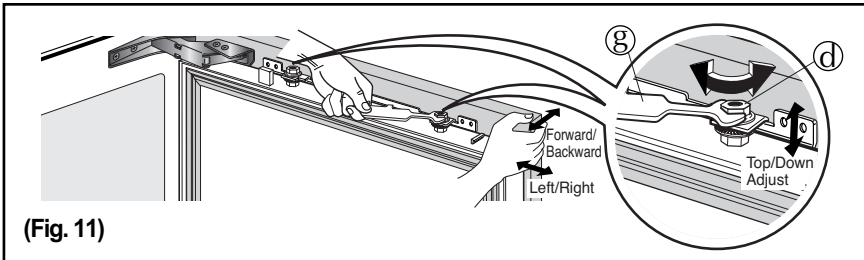
4) Work Related with the Freezer Door

13. Hang the top bracket ⑩ of the furniture door on the height adjusting screw of the door top part after inserting the height adjusting nut ④ (2 places) into the height adjusting screw. Loosely tighten the height adjust nut ④ (2 places) (See Figure 10).

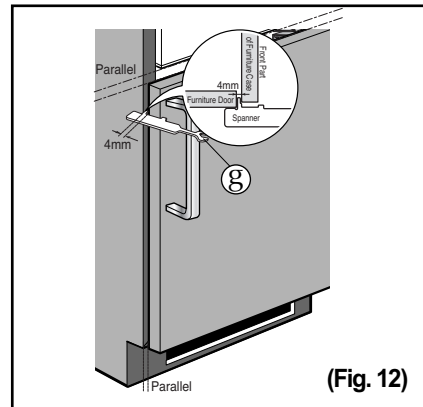
! Perform work with care since you may be injured or the furniture door of the freezer is damaged because the hole is unmatched when installing the furniture door of the freezer.



14. Move the furniture door to the left or right and adjust the left/right interval uniformly after checking the door of the furniture door and the door of the fridge are parallel (Move position of the height adjust nut ④ for adjustment up or down when they are not parallel) (See Figure 11)



15. Check the dimension by using the spanner ⑧ (See Figure 12).

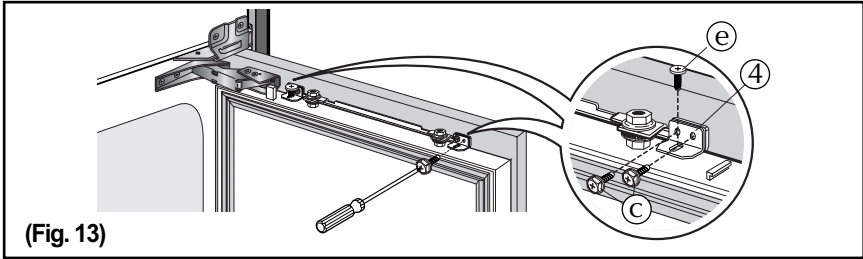


16. Start work from No. 16 again after releasing the height adjust nut ④ where the dimension is not matched.

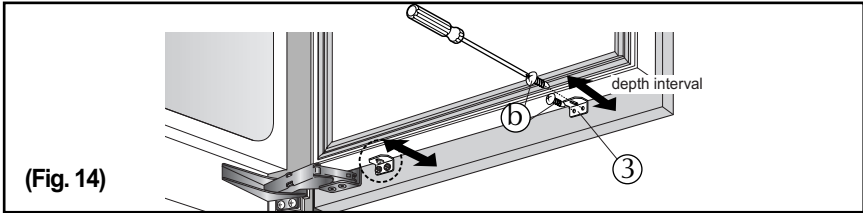
6. Order of Installation

4) Work Related with the Freezer Door

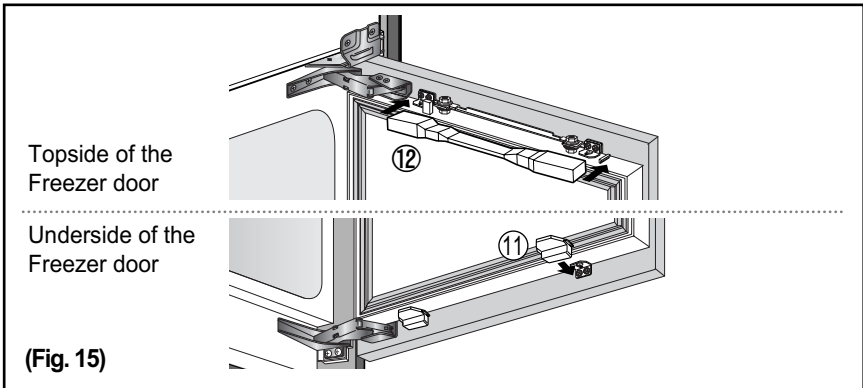
17. After positioning the depth adjust bracket ④ as Figure, fix it with the hinge adjust screw ②(2 places) and then fix it with the top bracket bolting screw ③ (4 places) (See Figure 13).



18. After inserting the wood bolting screw ⑤ (4 places) into the depth adjust bracket ③, move the furniture door to the depth direction and adjust the interval to 4mm (see Figure 12). (See Figure 14).



19. Cover the top bracket cover ⑫ of the furniture door on the door top side of the freezer door, and cover the depth adjust bracket cover ⑪ on the underside of the freezer (See Figure 15).

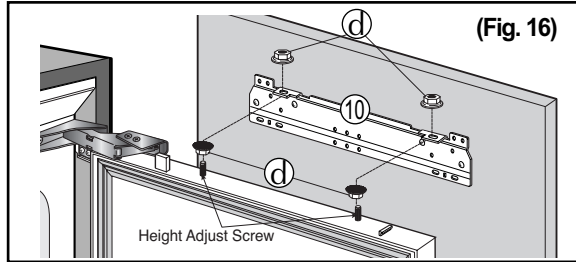


6. Order of Installation

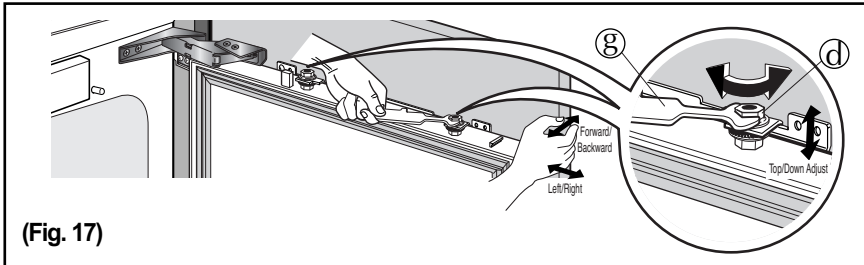
5) Work Related with the Fridge Door

20. After inserting the height adjust nut ④ (2 places) into the height adjust screw, hang the top bracket ⑩ of the furniture door on the height adjust screw on the top part of the refrigerator door. Loosely tighten the height adjust nut ④ (2 places) (See Figure 16).

! Perform work with care since you may be injured or the furniture door of the fridge is damaged because the hole is unmatched when installing the furniture door of the fridge.

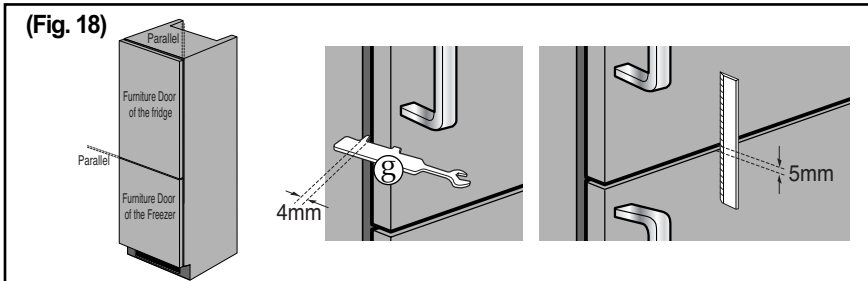


21. Move the furniture door to the left or right and adjust the left/right interval uniformly after checking the door of the furniture door and the door of the fridge are parallel (See Figure 17). (Move position of the height adjust nut ④ for adjustment up or down when they are not parallel)



22. Adjust depth interval between the furniture door and the front part of the furniture case to 4mm. Adjust interval between the furniture door of the freezer and the furniture door of the fridge to 5mm. Securely tighten the loose height adjust nut ④ after adjustment.

23. Check the size by using the spanner ⑨ (See Figure 18). Specially, check the interference between the fridge door and the freezer door(or freezer hinge).

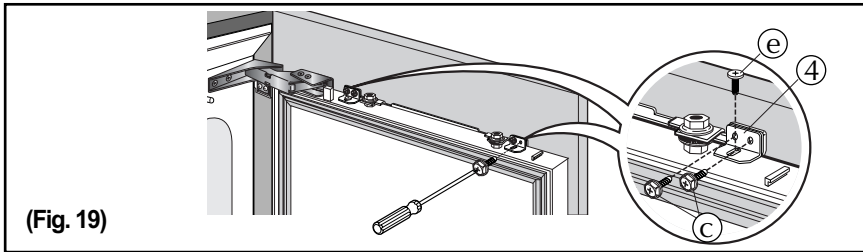


24. Start work from No. 22 again after releasing the ④ height adjust nut where the size is not matched. And adjust height of the fridge door with ④ when interference occurs between the fridge door and the freezer door(or freezer hinge)

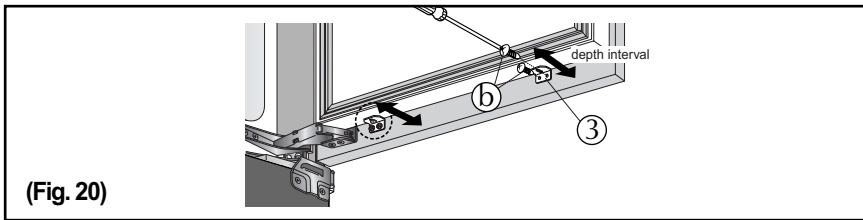
6. Order of Installation

5) Work Related with the Fridge Door

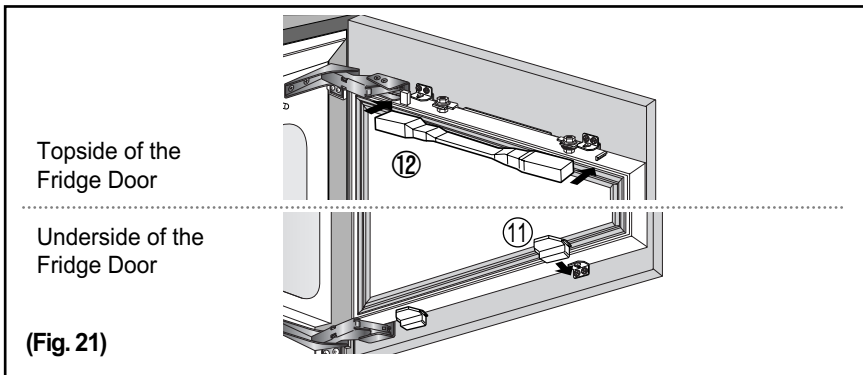
25. After positioning the depth adjust bracket ④ as Figure, fix it with the hinge bolting screw ② (2 places) and then fix it with the top bracket bolting screw ③ (4 places) (See Figure 19).



26. After bolting the wood bolting screw ⑤ (4 places) to the height adjust bracket ③, move the furniture door to the depth direction and adjust the interval to 4mm (see Figure 12). (See Figure 20).



27. Cover the top bracket cover ⑫ on the door top side of the fridge, and cover the depth adjust bracket cover ⑪ on the underside of the fridge (See Figure 21).



6. Order of Installation

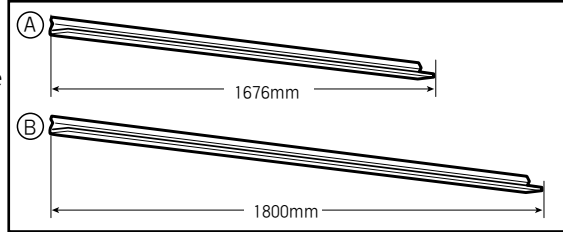
6) Installation Check and Finishing Work

28. Insert the hinge front cover ⑮ into the front part inside the hinge (4places).

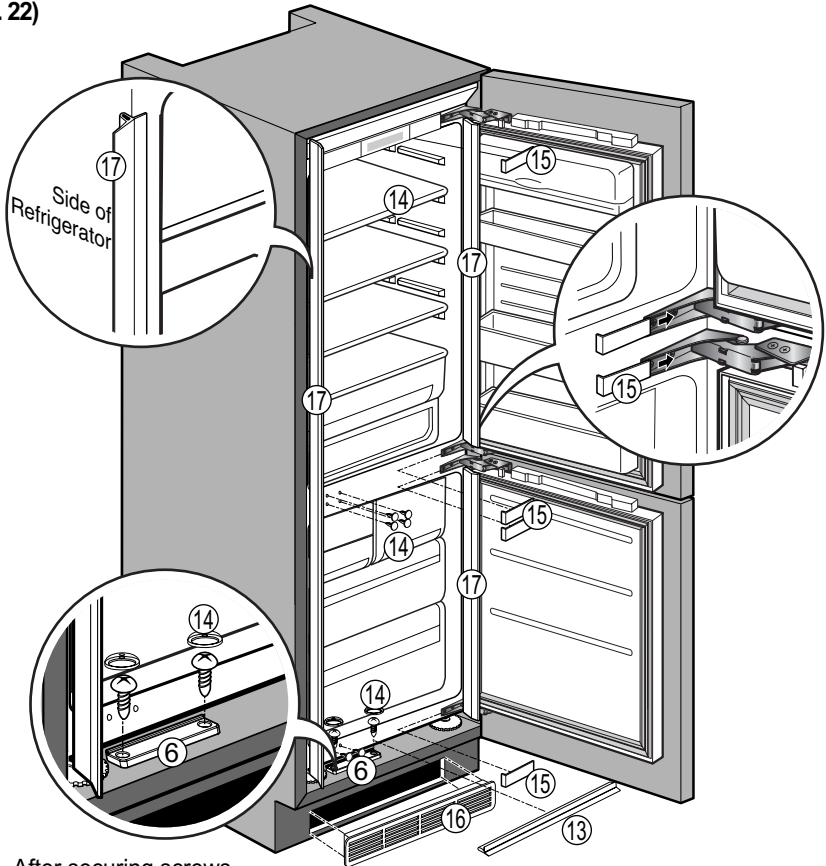
29. Insert the air path cover ⑯ into the square cloth support.

30. After cutting the gasket ⑰ to suit the interval, attach it as Figure. Use the gasket ⑰A to the hinge side, the gasket ⑰B to the reverse side of hinge.

31. Insert the cap screws ⑭ as Figure (6 places).



(Fig. 22)



After securing screws,
cover the cap screw.

6. Order of Installation

7) Change of Door Open Direction of Refrigerator

※ Perform work after changing the door before installation.

1. Loosely release the screws ①, ③ of the hinge on the case part of the freezer and then separate the door by pushing it to the right (See Figure 23).

2. Release the No. ①, ③ completely and then fix them loosely to the reverse side (See Figure 24)

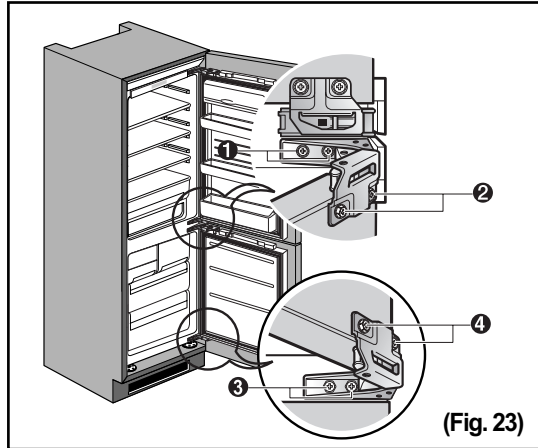
3. Separate the hinge by releasing the No. ②, ④ bolt to the door.

4. Move the separated hinge (Figure 24) diagonally and fix it to the door by turning it 180°.

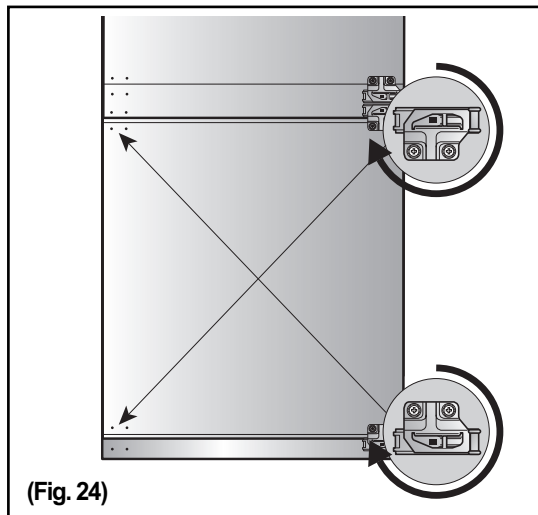
5. Push the hinge from the left side to the right side to ensure that the door hinge and the screws fixed to the case (See page 2) match.

6. Adjust the top/down or the left/right interval of the refrigerator door so that leaning should not occur to either side, and then tighten screws.

7. If the hinge bolting is completed, insert the ⑭ cap screws at the opposit side of the hinge (6 places).



(Fig. 23)



(Fig. 24)

※ Same as above order for change of the door open direction of the cold store room door.