How to Increase Manifold Stations for SQ1000/2000

1. Using Spare Connector to Add Stations

As shown in the table below, wiring specifications for spare connectors are based on to the remaining number of connector pins (remaining number of pins against the maximum number of solenoids for each kit.)
The following steps are for using spare connectors to add stations.

• Spare Connector Wiring

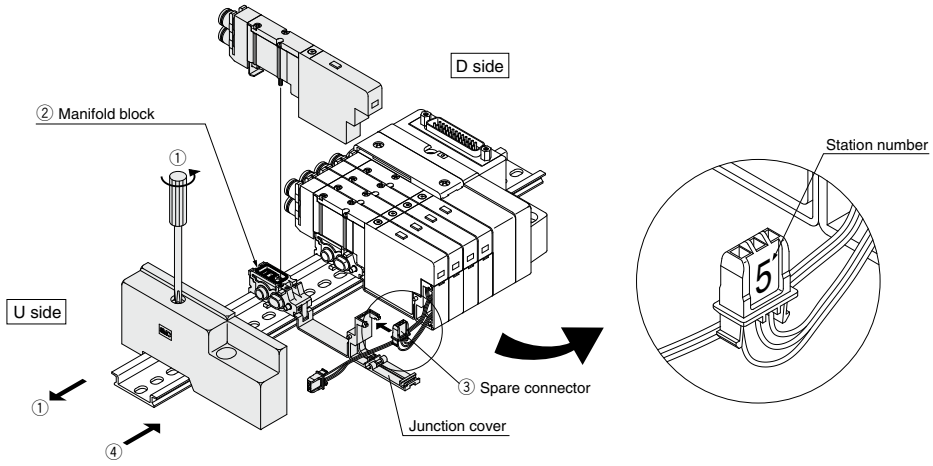
Remaining connector pins	4 pins or more	3 pins	2 pins	1 pin	0 pin
Spare connector wiring	2 for double wiring	1 for double wiring (on the low no. station side) 1 for single wiring	1 for double wiring	1 for single wiring	None

What to order

• Valves with manifold block (refer to pages 767 and 787) or the manifold blocks (Refer to page 817).

Steps for adding stations

① Loosen the clamp screw on the U side end plate and open the manifold.
↓
② Mount the manifold block to be added.
↓
③ Open the junction cover and attach the spare connector. Match the station position of the added station and the spare connector station number.
↓
④ Press on the end plate to eliminate any space between the manifold blocks and tighten the clamp screw.
(Proper tightening torque: 0.8 to 1.0 N·m)
Note 1) Order a manifold block with lead wire for the L kit because a spare connector is not included with the kit. (Refer to page 817.)
Note 2) Do not let the lead wires get caught between manifolds, or when closing the junction cover.



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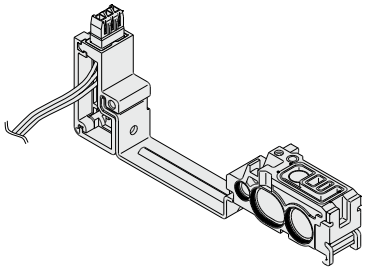
2. Adding Stations Without Required Spare Connectors

Spare connectors for 2 stations are initially included. However, to add 3 or more stations, order manifold blocks with lead wire in the tables below.

How to order manifold blocks with lead wire

SQ1000



SSQ1000−1A−3−FS 03 □ − □

Lead wire type

F0	Without lead wire (for using spare connectors to add stations)
FS	F kit (D-sub connector kit) Single wiring
FW	F kit (D-sub connector kit) Double wiring
PS	P kit (Flat ribbon cable kit) Single wiring
PW	P kit (Flat ribbon cable kit) Double wiring
L0	L kit (Lead wire kit) Lead wire length 0.6 m
L1	L kit (Lead wire kit) Lead wire length 1.5 m
L2	L kit (Lead wire kit) Lead wire length 3.0 m
SS	S kit (Serial transmission kit) Single wiring
SW	S kit (Serial transmission kit) Double wiring

Applicable stations

01	1 station
⋮	⋮
24	24 stations

Note 1) "F0": Nil
Note 2) S kit is from 01 to 16

COM. (L kit only)

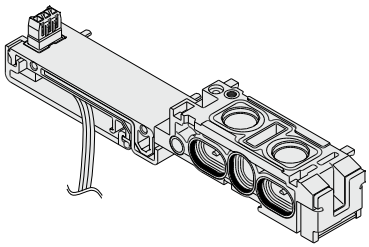
Nil	Positive common
N	Negative common

Option

Nil	None
B	Back pressure check valve
R	External pilot specifications

Note) Enter "-BR" for both options.

SQ2000



SSQ2000−1A−3−FS 03 □ − □

Lead wire type

F0	Without lead wire (for using spare connectors to add stations)
FS	F kit (D-sub connector kit) Single wiring
FW	F kit (D-sub connector kit) Double wiring
PS	P kit (Flat ribbon cable kit) Single wiring
PW	P kit (Flat ribbon cable kit) Double wiring
TS	T kit (Terminal block kit) Single wiring
TW	T kit (Terminal block kit) Double wiring
L0	L kit (Lead wire kit) Lead wire length 0.6 m
L1	L kit (Lead wire kit) Lead wire length 1.5 m
L2	L kit (Lead wire kit) Lead wire length 3.0 m
SS	S kit (Serial transmission kit) Single wiring
SW	S kit (Serial transmission kit) Double wiring

Applicable stations

01	1 station
⋮	⋮
16	16 stations

Note 1) "F0": Nil

COM. (L kit only)

Nil	Positive common
N	Negative common

Option

Nil	None
B	Back pressure check valve
R	External pilot specifications

Note) Enter "-BR" for both options.

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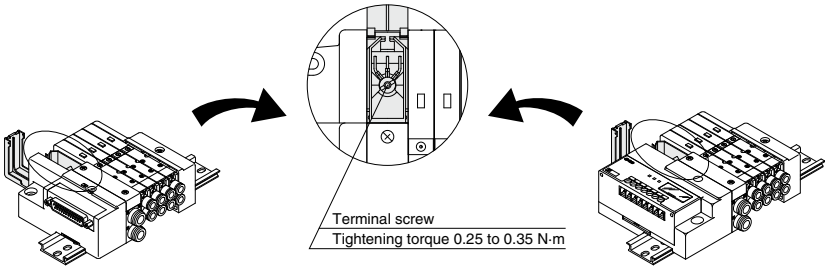
3. Connection Method (Refer to page 816 regarding the steps for adding stations to a manifold block.)

Connect the round terminal of the red lead wire to the common terminal inside the junction cover.

(1) Connecting common terminals

Connect lead wire assemblies included with manifold blocks as follows.

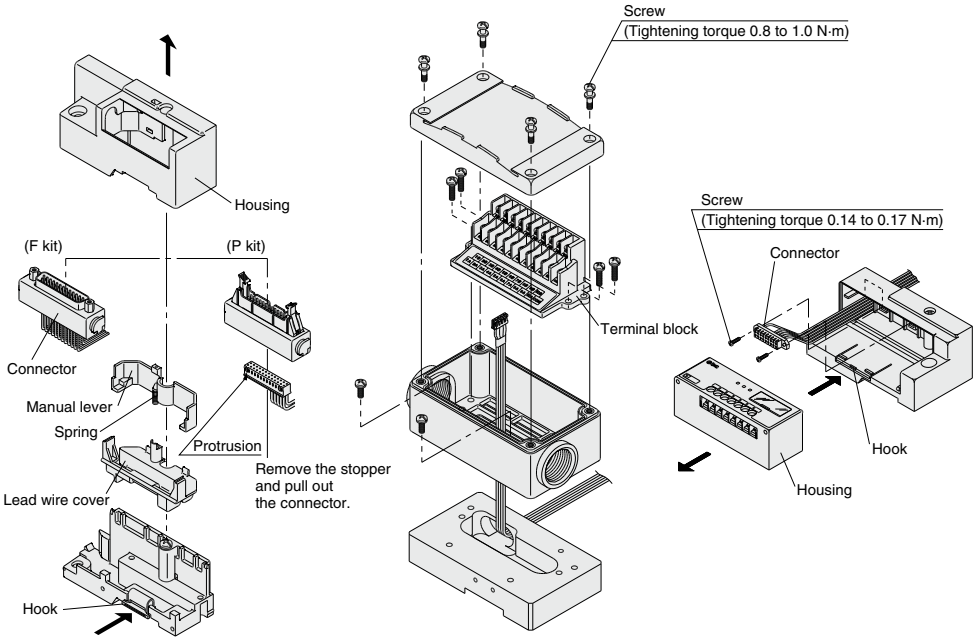


F, P kit **T, S kit**

(2) Pulling out connector

Pull out the connector to connect the lead wire.

- For F and P kits, pull out and remove the housing while pressing down hard on the hook with a flat head screwdriver, etc. Remove the manual lever and lead wire cover, and pull out the connector.
- For T kits, remove the screws and pull out the terminal block.
- For S kits, remove the screws and pull out the connector.



F, P kit **T kit** **S kit**

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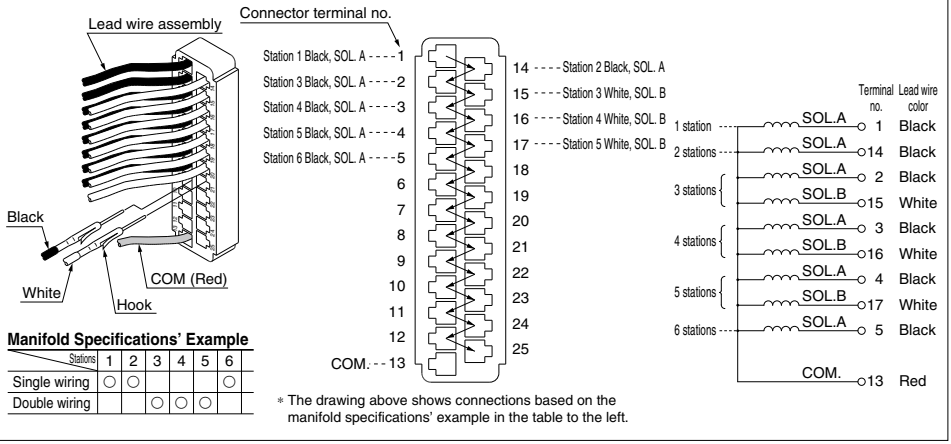
(3) Connect the black and white lead wire pins to the positions shown below in accordance with each kit.

⚠Caution 1. After inserting the pin, confirm that the pin hook is locked by lightly pulling the lead wire.

2. Do not pull the lead wire forcefully when connecting. Also, take care that lead wires do not get caught between manifolds or when closing the junction cover.

Wiring (F Kit: D-sub Connector Kit)

Procedure) Based on the manifold specifications, station 1 of SOL.A (black wire) will be terminal number 1 of the D-sub connector, and for station 2 and thereafter, connect black wires, then white wires in the order as shown below by the arrows.



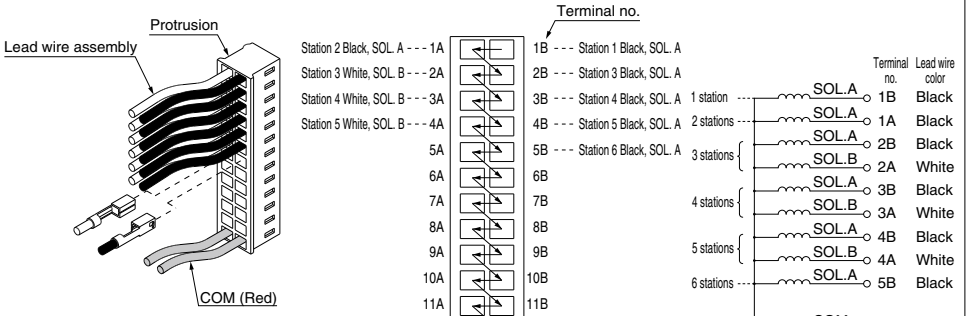
Manifold Specifications' Example

Stations	1	2	3	4	5	6
Single wiring	○	○				○
Double wiring			○	○	○	

∗ The drawing above shows connections based on the manifold specifications' example in the table to the left.

Wiring (P Kit: Flat Ribbon Cable Kit)

Procedure) Based on the manifold specifications, station 1 of SOL.A (black wire) will be terminal number 1B of the flat ribbon cable connector, and for station 2 and thereafter, connect black wires, then white wires in the order as shown below by the arrows.



Manifold Specifications' Example

Stations	1	2	3	4	5	6
Single wiring	○	○				○
Double wiring			○	○	○	

∗ The drawing above shows connections for type 26P flat ribbon cable connector based on the manifold specifications' example in the table to the left. For type 20P, the connection will be the same as above except that COM changes to 10A and 10B.

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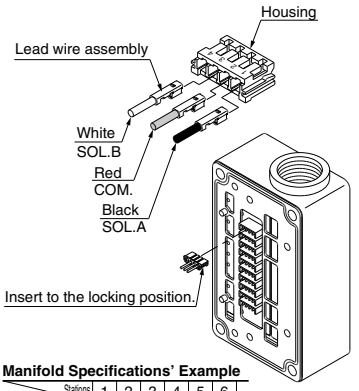
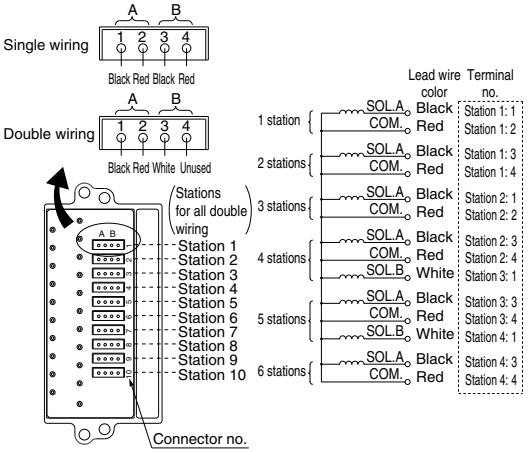
Wiring (T Kit: Terminal Block Kit)

Procedure) Based on the manifold specifications, connect to the housing according to the wiring example below.



Manifold Specifications' Example

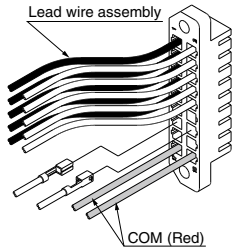
Stations	1	2	3	4	5	6
Single wiring	○	○	○			○
Double wiring				○	○	

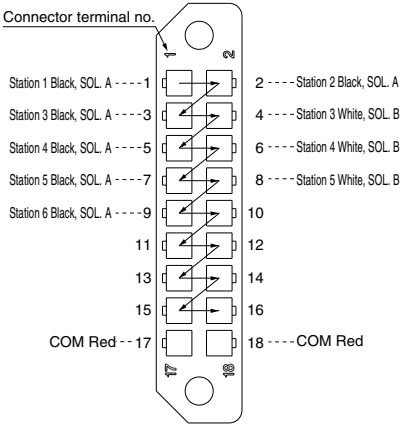


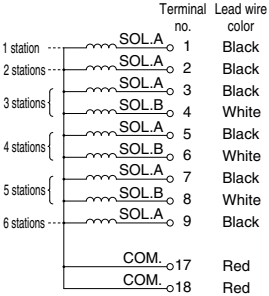
How to Increase Manifold Stations for SQ1000/2000

Wiring (S Kit: Serial Transmission Kit)

Procedure) Based on the manifold specifications, station 1 of SOL.A (black wire) will be terminal number 1 of the serial connector, and for station 2 and thereafter, connect black wires, then white wires in the order as shown below by the arrows.







Manifold Specifications' Example

Stations	1	2	3	4	5	6
Single wiring	○	○				○
Double wiring			○	○	○	

* The drawing above shows connections based on the manifold specifications' example in the table to the left.