

# DC Servo Gripper Installation Guide

for

Scorbot-ER 9 Pro

Scorbot-ER 14 Pro



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# Table of Contents

<i>Installation for SCORBOT-ER 9 Pro.....</i>	<i>1</i>
<i>Installation for SCORBOT-ER 14 Pro.....</i>	<i>3</i>



## Installation for SCORBOT-ER 9 Pro

To install the DC servo gripper, follow the procedure below:

1. Turn on the computer and the USB-Pro controller.
2. Start Scorbase Pro or Robocell Pro as relevant.
3. Enter On-line mode by selecting **Options | On-line** from the menu bar.
4. Click the **Search Home** button  and verify that the routine is successfully completed.

**Note:** *The robot must be in the home position for the proper installation of the gripper.*

*Do not change the position of the robot after it has been homed.*

5. Turn off the controller.
6. Attach the gripper to the gripper mounting flange at the end of the robot arm using four M4x10 socket screws and a 3mm Allen key (hex wrench), as shown in the inset in Figure 1.

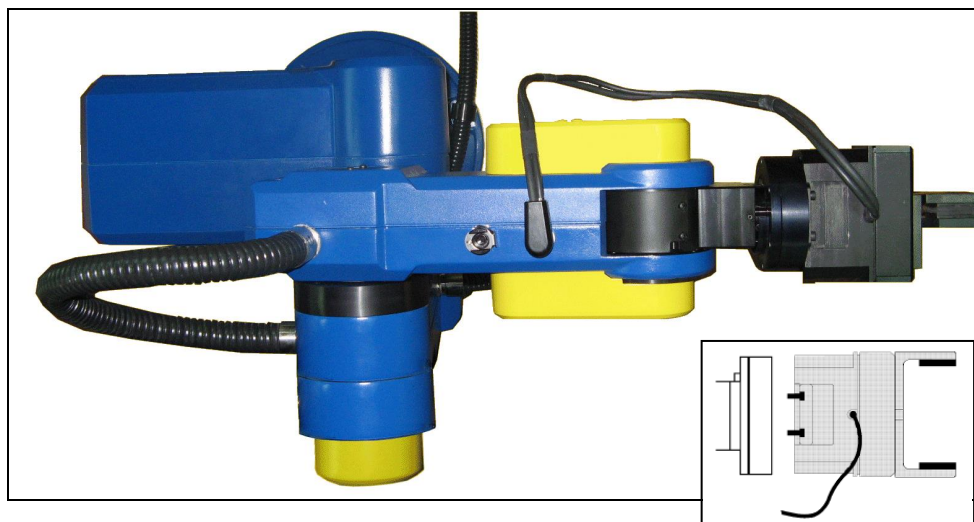


Figure 1: Attaching Gripper to SCORBOT-ER 9Pro

7. Connect the gripper cable to the electrical connector on the robot arm.
8. Ensure that the connector is oriented as shown in Figure 1 and that the gripper cable is positioned as shown in Figure 2.





Figure 2: Connecting Gripper Cable to SCORBOT-ER 9Pro

9. Turn on the controller.
10. Enter On-line mode.
11. Select **Options | Hardware setup** from the menu bar.
12. Select **Servo** from the *Gripper Type* drop-down menu.
13. Click **OK**.
14. Refer to the Controller USB-Pro User Manual and the Scorbbase for ER 9Pro/ER 14Pro User Manual for details on installation and setup.

15. Click the **Search Home**  button.

**Note:** *If the gripper cable becomes entangled or excessively stretched while homing, abort the procedure immediately.*

16. Select **File | New Project** from the menu bar.


17. Click on the **Open Gripper**  and **Close Gripper**  buttons in the *Manual Movement* dialog box to open and close the gripper to verify that it functions properly.

**Note:** *The Teach Pendant can also be used to open and close the gripper by keying in **Open/Close** several times.*



## Installation for SCORBOT-ER 14 Pro

To install the DC servo gripper, follow the procedure below:

1. Turn on the computer and the USB-Pro controller.
2. Start Scorbase Pro or Robocell Pro as relevant.
3. Enter On-line mode by selecting **Options | On-line** from the menu bar.
4. Click the **Search Home**  button and verify that the routine is completed successfully.

**Note:** *The robot must be in the home position for the proper installation of the gripper.*

*Do not change the position of the robot after it has been homed.*

5. Turn off the controller.
6. Attach the gripper to the gripper mounting flange at the end of the robot arm, using four M4x10 socket screws and a 3mm Allen key (hex wrench), as shown in the inset in Figure 3.

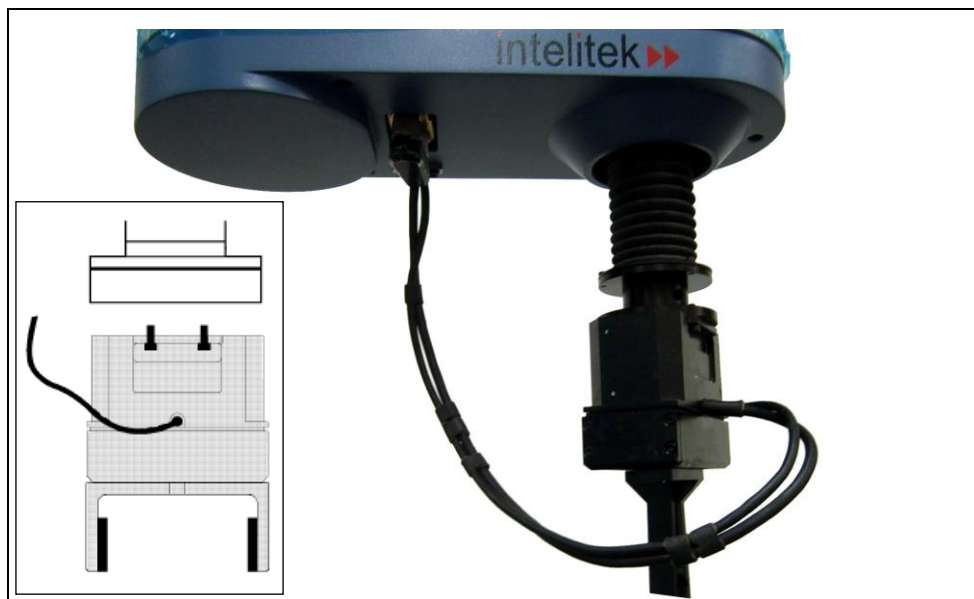



Figure 3: Attaching Gripper to SCORBOT-ER 14Pro

7. Connect the gripper cable to the electrical connector on the robot arm.





*Figure 4: Connecting Gripper Cable to SCORBOT-ER 14 Pro*

8. Fit the two cable clamps onto the two gripper cables.
9. Place the clamps on the flange.
10. Fit the spacer on the cable clamp screw, and tighten the screw onto the flange.
11. Turn on the controller
12. Enter On-line mode.
13. Select **Options | Hardware setup** from the menu bar.
14. Select **Servo** from the *Gripper Type* drop-down menu.
15. Click **OK**.
16. Refer to the Controller USB-Pro User Manual and the Scorbbase for ER 9Pro/ER 14Pro User Manual for details on installation and setup.
17. Click the **Search Home**  button.

**Note:** *If the gripper cable becomes entangled or excessively stretched while homing, abort the procedure immediately.*

18. Select **File | New Project** from the menu .

19. Click on the **Open Gripper**  and **Close Gripper**  buttons in the *Manual Movement* dialog box to open and close the gripper to verify that it functions properly.

**Note:** *The Teach Pendant can also be used to open and close the gripper by keying in Open/Close several times.*

*The gripper has a rotation of  $\pm 270^\circ$ . Do not attempt to move the gripper beyond this limit.*