

**SAFETY NOTICE**

Universal Robots expressly disclaims liability for any and all damages or injuries caused as a result of customer's failure to install, operate and maintain the robot in strict compliance with the User Manual and Service Manual, train personnel as needed for the application, follow and implement the recommendations in the safety notice.

<https://www.universal-robots.com/articles/ur/how-to-videos/replacing-a-current-distributor-on-cb3-robots/>

To: Universal Robots Customers and Distributors
From: Universal Robots Global Technical Compliance
Date: 22 March 2021
Subject: **SAFETY NOTICE CB3 (Generation 3) Current Distributor Board Replacement**

<https://www.universal-robots.com/articles/ur/safety/safety-notice-for-cb3-robots-current-distributor> Original EN

Affected Serial Numbers:**UR3 serial numbers:**

starting **2021330** with the last 3 digits: 074, 077-082, 090, 092, 094-096, 098-101, 104, 106, 107, 112.

UR5 serial numbers:

starting **2020351** with the last 3 digits: 156-179, 206-209, 211-215, 217-230, 232-255, 258-262, 264, 270-298, 300-304, 306-340, 342, 343, 346-354, 356, 362, 372-378.

starting **2021350** with the last 3 digits: 005-010, 013-020, 023-051, 053-110, 121-198, 200, 218, 219, 221, 224, 232, 233, 235, 236, 238-245, 248, 290, 295, 300-307, 309-312, 314-320, 322, 323, 325, 332, 342, 343, 374, 416, 460, 467, 496, 517, 518, 557, 582, 591-593, 704, 706-709.

UR10 serial numbers:

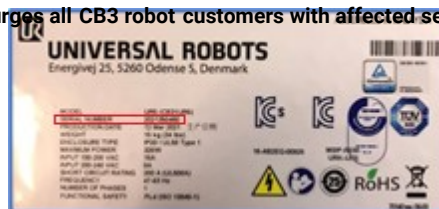
starting **2020301** with the last 3 digits: 026-031, 071, 072, 077, 078, 081, 082, 085, 086, 089, 090, 092, 095-097, 101, 102, 104-108, 110, 116, 120, 123, 126, 127, 129, 130, 139, 159-161, 166, 167, 169, 170, 171, 175-184, 188, 194, 196, 199-204, 207, 208, 210, 212, 227, 228, 233-236, 243, 244, 250-254, 260, 261, 270, 272, 276-280, 285, 286, 295-298, 301-303, 305, 306, 311-325, 327-331, 333, 334, 338-341, 343-346, 348-350, 372-375, 382, 383, 444-461, 464-476, 479-486, 517-520, 565, 567, 568, 570-577, 580, 588, 589, 591, 615, 617, 619-622, 685-689, 725, 728-730, 736-740, 742-748, 751-754.

starting **2021300** with the last 3 digits: 001, 015, 077-079, 087, 088, 159, 160, 165, 166, 173-178, 185, 193, 211, 212, 221-224, 244, 245, 253, 281-284, 287, 311, 312, 316, 317, 322-324, 326-333, 336-342, 344-347, 349, 350, 354, 356, 401, 430, 434, 435, 500, 552, 558, 563, 608, 619.

After extensive testing and analysis, we discovered that the UR CB3 Current Distributor board can fail. The failure typically results in the robot not working (no movement). In limited circumstances, overheating and a fire could result. To prevent this from happening, all Current Distributor Boards version J3 are being replaced with a version having easily recognized relays. All CB3 robots shipping from Universal Robots have the relay-type Current Distributors. This Safety Notice is about the robots in the field that need the Current Distributor Boards replaced.

To minimize risk of a fire due to J3 Current Distributor board, Universal Robots urges all CB3 robot customers with affected serial numbers to change the Current Distributor board to the version with relays.

The Current Distributor board is not readily visible until disassembly of the control box. **First check the serial number to determine if a board change is needed.** The serial number is printed on the labels on the robot and the control box. A control box label example is shown on the right.

**WARNING: CB3 control boxes with the above serial numbers**

- Do not power-up or use these robots if they have J3 Current Distributor boards.
- A fire could result.

To eliminate this risk, replace the J3 Current Distributor board with the board with relays.



The following document links provide the files and procedures to replace the Current Distributor:

- **Procedure for replacement:** <https://www.universal-robots.com/articles/ur/robot-care-maintenance/procedure-for-replacing-the-current-distributor-inside-a-cb3-controlbox/>
- **Video for replacing the part:** <https://www.universal-robots.com/articles/ur/how-to-videos/replacing-a-current-distributor-on-cb3-robots/>.
- **See the CB3 Service Manual:** <https://www.universal-robots.com/download/manuals-cb-series/service/service-manual-ur5-cb3-english/>
- **FAQs for this Safety Notice** are developed and updated on an on-going basis: <https://www.universal-robots.com/articles/ur/safety/faq-for-safety-notice-on-cb3-robots-current-distributor/>
- The UR Support site has many useful files: <https://www.universal-robots.com/download>
- If you have questions about this Safety Notice, contact your regional UR representative: <https://www.universal-robots.com/about-universal-robots/world-wide-offices/>