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> [Scalextric C7005 Digital Chip for Non DPR Open Wheel Cars Instruction Manual](#)

## Scalextric C7005

# Scalextric C7005 Digital Chip for Non DPR Open Wheel Cars Instruction Manual

## INTRODUCTION

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The Scalextric C7005 Digital Chip is an in-car microprocessor module designed to convert traditional analog non-DPR (Digital Plug Ready) open-wheel slot cars for use on Scalextric Digital layouts. This chip enables advanced digital racing features, allowing your converted car to participate in multi-car races with lane changing capabilities.

This manual provides essential information for the installation, operation, and troubleshooting of your C7005 Digital Chip.

## SAFETY INFORMATION

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**Warning:** Not suitable for children under 3 years due to small parts, which pose a choking hazard. This product is recommended for ages 14 and up due to the technical skills required for installation. Please remove all packaging before use.

## WHAT'S IN THE BOX

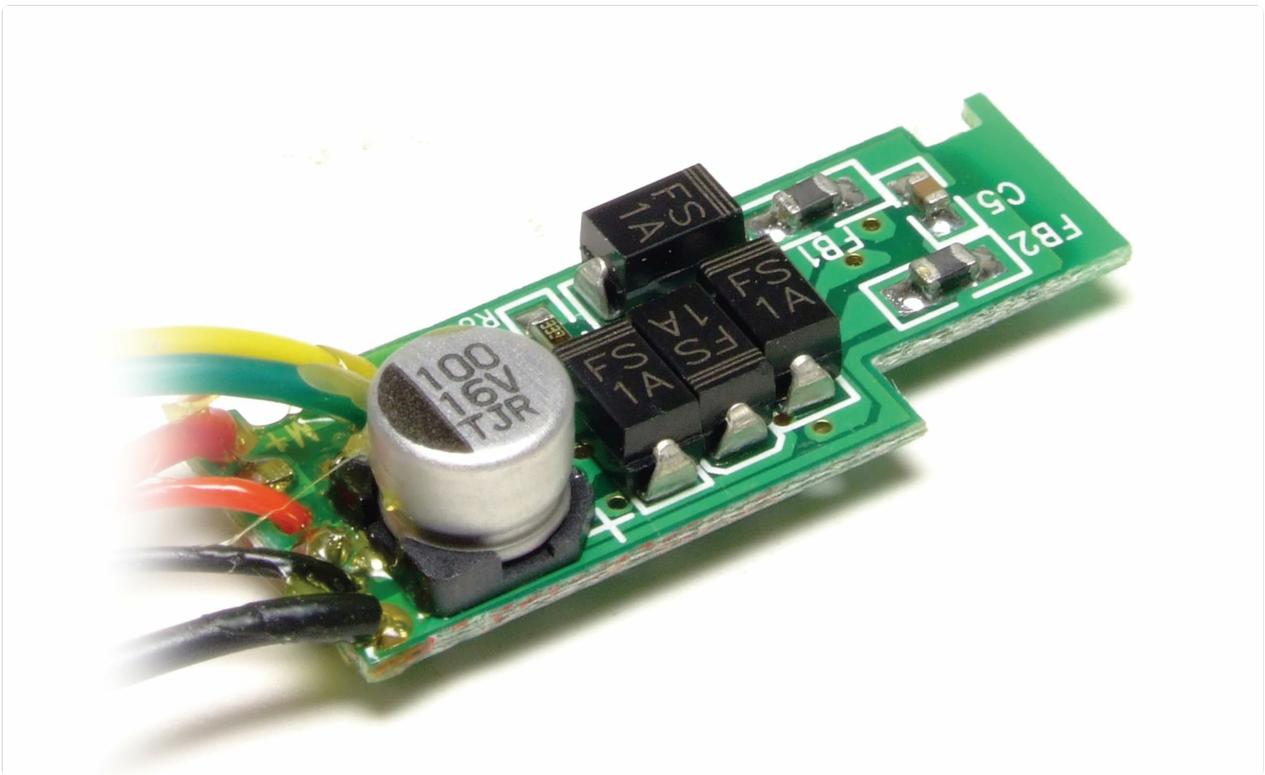
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- 1 x Digital Chip for Non DPR Open Wheel Cars

## SETUP AND INSTALLATION

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The installation of the Scalextric C7005 Digital Chip requires hobbyist skills and specific tools, including a soldering iron. This chip is intended for non-DPR cars; for Digital Plug Ready (DPR) cars, use the C8515 Easy Fit Digital Plug or C8516 F1 Easy Fit Digital Plug instead.



This image displays the Scalextric C7005 Digital Chip, an in-car microprocessor module, alongside its product packaging. The chip is visible with its circuit board and attached wires, indicating its nature as an electronic component requiring installation.

### Required Tools and Skills:

- Soldering iron (low-wattage recommended)
- Solder
- Wire cutters/strippers
- Small screwdriver set
- Insulating tape or heat shrink tubing
- Basic hobbyist soldering skills

### Installation Steps:

1. **Prepare the Car:** Carefully disassemble your non-DPR open-wheel slot car to access its internal wiring and motor.
2. **Identify Connections:** Locate the motor connections and the pick-up braids (guide wires) connections.
3. **Plan Chip Placement:** Determine an optimal location within the car's chassis for the C7005 chip, ensuring it does not interfere with moving parts and that the electronic eye (if present on the chip) has a clear view of the track slot.
4. **Solder Connections:** The chip typically requires soldering 8 pre-solder wires and 4 combining wires. Connect the chip's wires to the car's motor and pick-up braids according to the wiring diagram provided with the chip (refer to the specific diagram for your car model if available). Ensure all connections are secure and clean.
5. **Insulate Wires:** After soldering, insulate all exposed wire connections using electrical tape or heat shrink tubing. This is crucial to prevent short circuits and damage to the chip if wires come into contact with metal chassis components.
6. **Test Functionality:** Before reassembling the car, place it on a digital track and test its basic functionality. If the car runs backward, reverse the motor wire connections at the chip.
7. **Reassemble Car:** Once tested and confirmed working, carefully reassemble your slot car.

## OPERATING INSTRUCTIONS

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Once the C7005 Digital Chip is successfully installed, your converted slot car is ready for use on Scalextric Digital layouts. This chip enables your car to utilize the advanced features of the Scalextric Digital system.

### Key Operating Features:

- **Multi-Car Racing:** Race up to six cars simultaneously on a two-lane Scalextric Digital track.
- **Lane Changing:** Utilize digital lane change track pieces to overtake opponents or enter pit lanes.
- **Digital Powerbase Compatibility:** The chip works with Scalextric Digital Powerbases (e.g., C8435) and Digital Hand Controllers (C8438).
- **ARC Pro Compatibility:** The converted car is compatible with the Scalextric ARC Pro system, allowing for wireless race management and advanced race modes via a smart device.

For detailed instructions on operating your Scalextric Digital layout and its features, please refer to the manual provided with your Scalextric Digital Powerbase or ARC Pro system.

## MAINTENANCE

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The Scalextric C7005 Digital Chip is an electronic component and requires no routine maintenance. To ensure optimal performance of your converted slot car, regularly inspect and clean the car's electrical contacts, motor, and pick-up braids. Keep the track clean and free of debris.

## TROUBLESHOOTING

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- **Car Runs Backward:** If your car operates in reverse after installation, the motor wires are likely connected incorrectly to the chip. Reverse the motor wire connections to correct this.
- **Chip Not Functioning / Car Not Responding:**
  - Verify all soldered connections are secure and properly insulated. Contact between exposed wires and metal chassis components can cause short circuits and chip failure.
  - Ensure the digital track has power and that the car's pick-up braids are making good contact with the track rails.
  - Confirm the chip is correctly installed according to the wiring diagram.
- **Difficulty Synchronizing with ARC PRO:** Some users may experience occasional challenges in synchronizing converted cars with ARC PRO systems. Ensure your ARC PRO system firmware is up-to-date and follow the specific pairing instructions provided with the ARC PRO system. Multiple attempts may be necessary for successful pairing.
- **Chip Damage / Poor Performance:** The C7005 chip is not designed for use with high-amp-draining motors or strong magnets, which can lead to chip damage. This chip also does not support headlight functionality. Using it outside its intended specifications may result in malfunction or reduced lifespan.

## SPECIFICATIONS

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Feature	Detail
Product Dimensions	1 x 1 x 1 inches

Item Weight	0.352 ounces
Model Number	C7005
ASIN	B0009I6UOS
Manufacturer Recommended Age	14 years and up
Release Date	April 18, 2024
Manufacturer	Hornby

## WARRANTY AND SUPPORT

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Warranty and support information for the Scalextric C7005 Digital Chip is not provided in the available product data. For detailed warranty terms, technical support, or customer service inquiries, please refer to the official Scalextric website or contact Scalextric customer support directly.