



HONDA FK8/FL5 TYPE R CHASSIS

GEN2 PODIUM LINE RACING STEERING WHEEL SYSTEM

INFORMATION PACKET

SYSTEM ARCHITECTURE / PROGRAMMING / FUNCTION LIBRARY / FITMENT

DOCUMENT SCOPE

This editable packet summarizes system capabilities and the supplied MadtraceLAB function library. Actual functionality depends on vehicle chassis, market, factory equipment, installed options, and software configuration.



EXAMPLE CONFIGURATION SHOWN WITH OPTIONAL OLED DID

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WHERE THE PODIUM LINE FITS

PRODUCT LINE POSITIONING

Clubsport Line is the streamlined GEN2 entry point. It retains factory steering-wheel functions, plug-and-play installation, programmable buttons, RGB lighting, MadtraceLAB, and multi-profile storage, but it does not include RevLED, center-console commands, advanced race controls, dual paddles, or the rear profile quick switch.

PODIUM Line adds the deeper control layer while preserving the freedom to use compatible round racing wheels. RevLED, center-console functions, advanced race controls, rear profile quick switching, and optional dual paddles distinguish it from Clubsport.

Formula Line carries the same high-level electronic capability into a purpose-designed GT/formula wheel. Its OLED DID and single magnetic paddles are standard, while traditional MOMO and NARDI adapters are not offered.

GEN1 is the legacy fixed-layout platform. It retains factory functions and plug-and-play installation, but it does not include programmable layouts, RGB customization, MadtraceLAB, RevLED, multi-profile operation, or advanced vehicle controls.

LINE	PRIMARY POSITION	KEY DIFFERENCE
Clubsport	GEN2 entry platform	Core factory functions and programmable controls; no RevLED or advanced race controls.
PODIUM	Expanded GEN2 platform	RevLED, center-console and race controls, quick profile switching, and optional dual paddles.
Formula	Dedicated GT wheel	Formula-specific wheel architecture; OLED DID and single paddles are standard.
GEN1	Legacy platform	Fixed layout; no MadtraceLAB, RGB customization, multi-profile operation, or RevLED.

PODIUM LINE TAKEAWAY

PODIUM combines Formula-level electronic control with greater steering-wheel and accessory flexibility.

PRODUCT LINE COMPARISON: CORE PLATFORM

FEATURE	CLUBSPORT	PODIUM	FORMULA	GEN1
Factory steering-wheel functions	Standard	Standard	Standard	Standard
Completely plug and play	Standard	Standard	Standard	Standard
Programmable button layout	Standard	Standard	Standard	Fixed layout
RGB customizable button colors	Standard	Standard	Standard	Not equipped
MadtraceLAB	Standard	Standard	Standard	Not equipped
OLED Driver Information Display (DID)	Optional	Optional	Standard	Not equipped
Single magnetic paddle shifter	Optional for AT	Optional for AT	Standard	Optional for AT

HOW TO READ THE TABLE

Standard = included in the line architecture. Optional items depend on vehicle, transmission, and ordered configuration. AT = automatic transmission.

PRODUCT LINE COMPARISON: RACE CONTROLS + ADAPTERS

FEATURE	CLUBSPORT	PODIUM	FORMULA	GEN1
Dual magnetic paddle shifters	Not equipped	Optional for AT	Not offered as an option	Not equipped
RevLED CAN bus shift lights	Not equipped	Standard	Standard	Not equipped
Center-console functions	Not equipped	Standard	Standard	Not equipped
Advanced race controls	Not equipped	Standard	Standard	Not equipped
Multi-profile settings	Standard	Standard	Standard	Not equipped
Rear button profile quick switch	Not equipped	Standard	Standard	Not equipped
6×70 mm MOMO original horn-cap adapter	Optional	Optional	Not equipped	Optional
6×74 mm NARDI-type steering-wheel adapter	Optional	Optional	Not equipped	Optional

WHY PODIUM STANDS APART

PODIUM adds the major race-control functions missing from Clubsport and GEN1 while retaining optional MOMO/NARDI adapter compatibility that Formula does not offer.

EXECUTIVE SUMMARY

This packet documents the JQ Werks Madtrace GEN2 PODIUM Line configuration for the Honda Civic Type R chassis.

The control hub combines CAN bus and LIN bus communication so supported factory and expanded vehicle functions can be operated from the racing steering wheel system.

A vehicle-specific harness, CAN integration module, adapter hub, and quick-release base with integrated chassis PCB create a plug-and-play installation without factory-wire splicing.

Eight front-facing buttons and two joystick-style rotary controls can be assigned through MadtraceLAB to the supported Steering Wheel, Car Control, and General commands reproduced in this packet.

Three complete profiles can be stored in the hub, each with independent button assignments and illumination settings.

RevLED CAN bus shift lights are standard; the OLED Driver Information Display and programmable magnetic paddle configurations are ordered options.

Command availability varies by market configuration, factory equipment, installed hardware, coding, and software.

The system removes the factory steering wheel and airbag and is intended exclusively for off-road, track, racing, and competition use.

FUNCTION AVAILABILITY

Slides 15 through 18 reproduce every function shown in the supplied Honda TYPE R MadtraceLAB Steering Wheel, Car Control, and General screens. A listed command is a mapping option; operation still depends on the exact vehicle and configuration.

MECHANICAL CONSTRUCTION

PODIUM LINE HARDWARE

The control housing is machined from 6061-T6 billet aluminum using 5-axis CNC processes for accurate geometry, consistent alignment, and a premium finished surface.

Black anodizing provides the final exterior finish and complements the matching adapter hub and quick-release assembly.

The motorsport-grade adapter hub and quick-release base are machined from 7075-T6 billet aluminum and designed as a matched mechanical and electrical interface.

The quick-release base contains an integrated chassis PCB, reducing exposed components and keeping the vehicle-side interface compact.

Front button pods and dual joystick controls keep frequently used commands within reach while the driver's hands remain on the wheel.

The standard horn cap can be replaced by the optional OLED DID without redesigning the rest of the steering wheel system.



CONFIGURATION SHOWN

Steering wheel, paddle configuration, horn-cap adapter, and OLED DID selection may change the appearance of the completed system.

VEHICLE INTEGRATION: CAN + LIN

Modern Honda controls are distributed across multiple electronic networks. The PODIUM Line combines CAN bus and LIN bus integration within the steering-wheel control system.

CAN communication provides access to supported vehicle data and commands, including shift-light RPM data, drive-mode controls, stability controls, driver-assistance commands, and general vehicle controls.

LIN communication supports compatible factory steering-wheel electronics and helps preserve expected behavior within the original control environment.

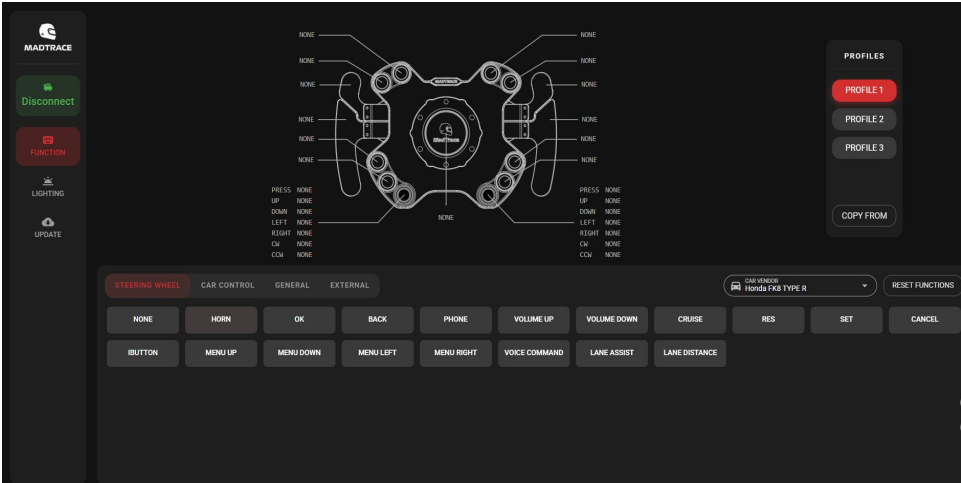
For the Honda TYPE R profile, MadtraceLAB exposes horn, OK/back, phone, audio, cruise-control, menu-navigation, iButton, voice, lane-assistance, lane-distance, ESP, drive-mode, lighting, turn-signal, wiper, and washer commands.

Confirm the FK8/FL5 chassis, market configuration, adapter hub, harness, CAN integration module, factory equipment, coding, and software before mapping. See pages 14 through 18 for paddle and function-library information.

MADTRACELAB 2.0

MadtraceLAB is the configuration and update platform for the GEN2 control hub. The Function workspace displays the steering wheel graphic, available input locations, selected vehicle vendor, function categories, and active profile. A user can select an input and assign a supported command from the Steering Wheel, Car Control, General, or available External category. Lighting settings control button illumination and RevLED behavior for visibility, recognition, and driver preference. The Update section manages compatible software and feature OTA updates through the hub's USB-C service connection. Copy From can transfer an existing layout into another profile before profile-specific changes are made.

MADTRACELAB FUNCTION WORKSPACE



SCREENSHOT CONTEXT

The screenshot shows the Honda TYPE R vehicle configuration. Select this exact vendor profile before programming, then verify every assigned command on the installed vehicle.

MULTI-PROFILE SETTINGS + QUICK SWITCH

Up to three complete profiles can be stored directly in the hub's internal memory.
Each profile keeps independent button assignments and illumination settings.
A performance profile can prioritize ESP, MODE +/-, lane assistance, lane distance, and cruise.
A road-course profile can emphasize OK/back, menu navigation, media, signals, flash, wiper, and washer.
A third profile can support another driver, an endurance layout, or a verified revision.
The rear switch recalls saved maps instantly; the optional DID supports on-wheel mapping and profile changes.

STORED PROFILE	SUGGESTED USE	WHAT IS RETAINED
Profile 1	Primary race layout	Driver-selected functions + lighting
Profile 2	Clubsport / secondary driver	Independent functions + lighting
Profile 3	Endurance / secondary vehicle	Independent functions + lighting

CONTROL INPUT ARCHITECTURE

FRONT-FACING CONTROLS

Eight front-facing push buttons provide direct access to frequently used mapped functions.

Two joystick-style rotary controls expand the input count without adding more button pods.

Each joystick can support Press, Up, Down, Left, Right, Clockwise, and Counterclockwise assignments when enabled.

Paddle inputs are displayed separately and can be assigned to shifting or other supported commands.

An input may be left as None to prevent accidental activation or reserve the position for a future profile revision.

INPUT GROUP	AVAILABLE ACTIONS	TYPICAL HONDA FK8 ASSIGNMENT
FRONT BUTTONS	8 PUSH INPUTS	Horn, OK/back, phone, cruise, ESP, modes, or media
LEFT JOYSTICK	PRESS / U / D / L / R / CW / CCW	Menu navigation, volume, voice, iButton, or other verified commands
RIGHT JOYSTICK	PRESS / U / D / L / R / CW / CCW	Menu navigation, lane assist, lane distance, or cruise
PADDLES	2-4 PROGRAMMABLE INPUTS	Signals, flash, wiper, washer, or other verified commands
REAR SWITCH	PROFILE SELECTION	Profile 1 / Profile 2 / Profile 3

HUMAN-FACTORS NOTE

Place functions where they can be identified and operated without the driver looking away from the track. Keep critical commands consistent across profiles.

REVLED SHIFT LIGHT + ILLUMINATION

RevLED CAN bus shift lights are standard equipment on the PODIUM Line control hub.

In MadtraceLAB 2.0, the user can set the RPM threshold at which the shift-light sequence begins and the redline alert flashes.

Engine-speed data is received through the vehicle communication system so the sequence can respond to the supported RPM signal.

The LEDs progress through the configured sequence, and all lights flash at the programmed redline condition.

Button illumination colors can be customized so groups of controls are easier to recognize during a driving session.

Different profiles may use different lighting schemes, providing visual confirmation of the active button map.

Without the optional DID, lighting behavior is configured through MadtraceLAB. With the DID installed, brightness and RGB button colors can be adjusted directly.

Review redline and illumination settings whenever the hub is moved to another vehicle or the engine calibration changes.

CONFIGURATION RESPONSIBILITY

Shift lights are a driver aid, not a substitute for the vehicle's engine-protection strategy. Match the visual redline to the verified engine setup.

OPTIONAL OLED DRIVER INFORMATION DISPLAY

The optional OLED Driver Information Display replaces the standard center horn cap on the PODIUM Line system.

Through the integrated CAN bus connection, the DID can display supported real-time telemetry such as vehicle speed.

The display provides direct access to button-layout mapping and profile selection without reconnecting the hub to a computer.

Display brightness and RGB button illumination can be adjusted from the DID interface.

Available telemetry channels depend on the selected vehicle and software configuration.

Test the vehicle after any on-wheel mapping change, even when the DID confirms that the assignment was saved.

DID CAPABILITIES

CAPABILITY	STATUS
Real-time speed	Supported telemetry
Button mapping	Direct control
Profile switching	Direct control
Display brightness	Adjustable
RGB button colors	Adjustable
Computer connection	Not required for DID changes

ORDER CONFIGURATION

The OLED DID is optional and is not included in the standard hub kit unless selected with the order.

OPTIONAL MAGNETIC PADDLE CONFIGURATIONS

The PODIUM Line can be configured with optional magnetic paddle controls for the Honda Civic Type R application. The dual-paddle option adds a second paddle on each side, creating four individually programmable paddle inputs. Paddle mechanisms are machined from 6061-T6 billet aluminum and designed to provide a motorsport-style interface. Paddles are not restricted to upshift and downshift; any supported function available to that input may be assigned. On the manual-transmission FK8/FL5, optional paddles can be used for verified auxiliary functions such as turn signals, flash, wiper, or washer. Paddle availability, quantity, and vehicle compatibility must be confirmed when ordering; the standard hub kit does not include every option.

MAPPING SAFETY

Program only functions that can be safely operated from a paddle. Avoid assignments that could cause an unintended vehicle-state change during steering input.

STEERING WHEEL FUNCTIONS FOR FL5: CORE + MEDIA

MADTRACELAB FUNCTION	COMMAND PURPOSE
NONE	Leaves the selected input unassigned.
HORN	Activates the supported horn command.
LAST TRACK	Selects the previous supported audio track.
NEXT TRACK	Selects the next supported audio track.
VOLUME UP	Raises the supported audio volume.
VOLUME DOWN	Lowers the supported audio volume.
VOICE COMMAND	Activates the supported voice-command function.
LEFT SCROLL UP	Moves the supported left steering-wheel scroll control upward.
LEFT SCROLL PRESS	Presses the supported left steering-wheel scroll control.
LEFT SCROLL DOWN	Moves the supported left steering-wheel scroll control downward.

SOURCE + VERIFICATION

Labels match the supplied Honda FL5 TYPE R Steering Wheel screen. Media, voice, and scroll commands require corresponding factory systems, pairing, coding, and software support.

STEERING WHEEL FUNCTIONS FOR FL5: CRUISE + ASSISTANCE

MADTRACELAB FUNCTION	COMMAND PURPOSE
CRUISE	Activates the supported cruise-control main command.
RES	Resumes the supported stored cruise-control speed.
SET	Sets the supported cruise-control speed.
CANCEL	Cancels the active supported cruise-control command.
RIGHT SCROLL UP	Moves the supported right steering-wheel scroll control upward.
RIGHT SCROLL PRESS	Presses the supported right steering-wheel scroll control.
RIGHT SCROLL DOWN	Moves the supported right steering-wheel scroll control downward.
LANE ASSIST	Activates the supported lane-assistance command.
LANE DISTANCE	Adjusts the supported lane-distance setting.

HONDA FL5 EQUIPMENT DEPENDENCY

Availability depends on the exact FL5 market configuration, factory controls, installed equipment, coding, and software. Verify every mapping with the vehicle stationary.

CAR CONTROL FUNCTIONS FOR FL5

MADTRACELAB FUNCTION	COMMAND PURPOSE
R +	Activates the supported Honda +R drive-mode command.
ESP	Accesses the supported stability-control command.
MODE +	Moves the supported drive-mode selection upward.
MODE -	Moves the supported drive-mode selection downward.

HONDA FL5 CHASSIS + EQUIPMENT DEPENDENCY

Availability depends on the exact FL5 market configuration, factory equipment, coding, and software. Verify every control before competition use.

GENERAL VEHICLE FUNCTIONS FOR FL5

MADTRACELAB FUNCTION	COMMAND PURPOSE
NONE	Leaves the selected input unassigned.
FLASH	Activates the supported high-beam flash command.
LEFT TURN SIGNAL	Activates the supported left-turn-signal command.
RIGHT TURN SIGNAL	Activates the supported right-turn-signal command.
SINGLE WIPE	Requests one supported windshield-wiper cycle.
WINDSHIELD WASHER	Activates the supported windshield-washer command.

These labels match the supplied Honda FL5 TYPE R General screen.
Lighting, turn-signal, wiper, and washer commands depend on the exact vehicle, market configuration, installed equipment, coding, and software.
Verify every assignment with the vehicle stationary before competition use.

STEERING WHEEL FUNCTIONS FOR FK8: CORE + MEDIA

MADTRACELAB FUNCTION	COMMAND PURPOSE
NONE	Leaves the selected input unassigned.
HORN	Activates the supported horn command.
OK	Confirms the supported menu or display selection.
BACK	Returns to the previous supported menu or display level.
PHONE	Activates the supported phone command.
VOLUME UP	Raises the supported audio volume.
VOLUME DOWN	Lowers the supported audio volume.
IBUTTON	Activates the supported Honda iButton command.
MENU UP	Moves the supported menu selection upward.
MENU DOWN	Moves the supported menu selection downward.
MENU LEFT	Moves the supported menu selection left.
MENU RIGHT	Moves the supported menu selection right.
VOICE COMMAND	Activates the supported voice-command function.

SOURCE + VERIFICATION

Labels match the supplied Honda FK8 TYPE R Steering Wheel screen. Menu, media, phone, voice, and iButton commands require corresponding factory systems, pairing, coding, and software support.

STEERING WHEEL FUNCTIONS FOR FK8: CRUISE + ASSISTANCE

MADTRACELAB FUNCTION	COMMAND PURPOSE
CRUISE	Activates the supported cruise-control main command.
RES	Resumes the supported stored cruise-control speed.
SET	Sets the supported cruise-control speed.
CANCEL	Cancels the active supported cruise-control command.
LANE ASSIST	Activates the supported lane-assistance command.
LANE DISTANCE	Adjusts the supported lane-distance setting.

HONDA FK8 EQUIPMENT DEPENDENCY

Availability depends on the exact FK8 market configuration, factory controls, installed equipment, coding, and software. Verify every mapping with the vehicle stationary.

CAR CONTROL FUNCTIONS FOR FK8:

MADTRACELAB FUNCTION	COMMAND PURPOSE
ESP	Accesses the supported stability-control command.
MODE +	Moves the supported drive-mode selection upward.
MODE -	Moves the supported drive-mode selection downward.

HONDA FK8 CHASSIS + EQUIPMENT DEPENDENCY

Availability depends on the exact FK8 market configuration, factory equipment, coding, and software. Verify every control before competition use.

GENERAL VEHICLE FUNCTIONS FOR FK8:

MADTRACELAB FUNCTION	COMMAND PURPOSE
NONE	Leaves the selected input unassigned.
FLASH	Activates the supported high-beam flash command.
LEFT TURN SIGNAL	Activates the supported left-turn-signal command.
RIGHT TURN SIGNAL	Activates the supported right-turn-signal command.
SINGLE WIPE	Requests one supported windshield-wiper cycle.
WINDSHIELD WASHER	Activates the supported windshield-washer command.

These labels match the supplied Honda FK8 TYPE R General screen.
Lighting, turn-signal, wiper, and washer commands depend on the exact vehicle, market configuration, installed equipment, coding, and software.
Verify every assignment with the vehicle stationary before competition use.

VEHICLE FITMENT + INCLUDED EQUIPMENT

HONDA CIVIC TYPE R APPLICATION

VEHICLE FAMILY	CHASSIS	APPLICATION NOTE
HONDA CIVIC TYPE R	FL5	CONFIRM FL5 CHASSIS, MARKET CONFIGURATION, FACTORY CONTROLS, AND ORDERED HARDWARE
HONDA CIVIC TYPE R	FK8	CONFIRM FK8 CHASSIS, MARKET CONFIGURATION, FACTORY CONTROLS, AND ORDERED HARDWARE

EACH PODIUM LINE HUB KIT INCLUDES

- 1x PODIUM Line control hub unit
- 1x Quick-release base with integrated chassis PCB
- 1x CAN bus integration module
- 1x Vehicle harness kit
- 1x Resistor
- 1x Adapter hub

- 1x Adapter hub locking wrench
- 1x Trim-removal tool
- 1x Hardware kit
- 1x USB Cable
- 1x Allen key
- 1x Button-sticker set
- 1x JQ Werks / Madtrace sticker set

OPTIONAL EQUIPMENT

OLED DID, paddle shifters, MOMO horn-cap adapter, NARDI steering-wheel adapter, and steering-wheel rim selection are optional unless included in the purchased configuration.

CONFIGURATION WORKFLOW

- 1 Confirm the Honda Civic Type R chassis, market/region, factory steering-wheel controls, installed options, adapter hub, harness, and required commands.
- 2 Install the vehicle-specific adapter hub, harness, CAN integration module, and quick-release base according to the applicable guide. Do not splice factory wiring.
- 3 Connect the control hub through USB-C and confirm compatible MadtraceLAB software and system updates.
- 4 Select the correct vehicle configuration and map only commands supported by the actual vehicle and required by the driver.
- 5 Create Profile 1 as the verified baseline. Copy that layout to Profiles 2 and 3 before condition- or driver-specific changes.
- 6 With the vehicle stationary, test every button, joystick direction, rotary action, paddle, profile switch, RevLED sequence, and optional DID command.
- 7 Repeat verification after any software update, vehicle change, engine calibration change, or profile revision, then record the final map.

IMPORTANT

This is a high-level configuration workflow, not an installation manual. Follow application-specific instructions and use a qualified professional where required.

SAFETY, USE RESTRICTIONS + SUMMARY

IMPORTANT SAFETY INFORMATION

The JQ Werks Madtrace Racing Steering Wheel System is designed only for off-road, track, racing, and competition purposes. It is not intended for street use.

Installation removes the factory steering wheel and airbag. A solid racing steering wheel can increase the risk of bodily injury in a collision.

Do not use the system with the factory three-point seat belt. JQ Werks requires a six-point racing harness with a racing roll bar for off-road use.

Do not install the system on a vehicle subject to state safety inspection.

Laws and required safety equipment vary by country, state, and region. Consult qualified legal and motorsport-safety professionals.

Professional installation, complete stationary function testing, and driver familiarization are recommended before track use.

CONTROL WITH PURPOSE.

JQ WERKS x MADTRACE

SUMMARY

The GEN2 PODIUM Line combines precision-machined hardware, vehicle-network integration, configurable controls, stored profiles, and track-focused information systems in one removable driver-control platform.