

# k swap conversion harness wiring diagram

**\*\*K Swap Conversion Harness Wiring Diagram: A Complete Guide for Your Engine Swap\*\***

**k swap conversion harness wiring diagram** is an essential resource for anyone undertaking a K-series engine swap, commonly known as the "K-swap," in their vehicle. Whether you're upgrading from a D-series engine or performing a complete drivetrain overhaul, understanding the wiring harness and how it integrates with your vehicle's electronics can feel like a daunting task. But with the right guidance, you can make this complex process much smoother and more straightforward.

In this article, we'll dive deep into everything you need to know about the K swap conversion harness wiring diagram. From the basics of the K series engine wiring to tips on handling ECU connections and troubleshooting common issues, this guide aims to be your go-to manual for a successful K-swap.

## What Is a K Swap Conversion Harness Wiring Diagram?

Before jumping into the technical details, let's clarify what a K swap conversion harness wiring diagram actually represents. Essentially, it's a detailed schematic that outlines the wiring connections necessary to install a Honda K-series engine (such as the K20 or K24) into a vehicle that originally came with a different engine, often a D-series or B-series.

The wiring harness is the nervous system of your engine, carrying signals and power to and from sensors, actuators, the ECU (Engine Control Unit), and other electronic components. The conversion harness is specially designed to bridge the gap between the K-series engine's wiring and the existing vehicle wiring, ensuring everything communicates correctly.

## Why Is the Wiring Harness Important in a K Swap?

The K-series engines come with their own complex wiring setups, including sensors for camshaft position, crankshaft position, MAP sensors, throttle position, and more. When swapping into a chassis that was originally designed for another engine, the stock wiring often won't align perfectly with the K-series ECU or sensors.

This is where the conversion harness steps in:

- **\*\*Simplifies integration:\*\*** It adapts the K-series wiring to your chassis wiring.
- **\*\*Preserves factory ECU functionality:\*\*** Ensures the ECU receives accurate sensor data.
- **\*\*Reduces wiring errors:\*\*** Minimizes the risk of miswiring and electrical faults.
- **\*\*Saves time:\*\*** Prevents hours of trial and error when connecting wires manually.

Without a proper harness or a well-understood wiring diagram, you risk damaging components or facing persistent drivability issues.

## **Understanding the Components of a K Swap Wiring Harness**

A typical K swap wiring harness involves several key components that must be correctly connected for the engine to run smoothly.

### **Engine Control Unit (ECU) Connections**

The ECU is the brain of the engine management system. The conversion harness must connect the K-series ECU pins to the corresponding sensors and actuators on the engine and car. This includes:

- Power and ground circuits
- Sensor inputs (camshaft position sensor, crankshaft position sensor, throttle position sensor, coolant temperature sensor, etc.)
- Actuator outputs (fuel injectors, ignition coils, VTEC solenoid)
- Communication lines (CAN bus or OBD-II connections)

### **Sensors and Actuators Wiring**

Every sensor and actuator on the K-series engine has a specific wiring configuration. The conversion harness ensures that each sensor's signal wire matches the ECU input and that actuators receive their power and ground correctly. Miswiring here can lead to sensor errors, no-start conditions, or poor engine performance.

### **Fuse Box and Power Distribution**

The harness also integrates with the vehicle's fuse box and battery power sources. It usually includes connections for ignition power, constant power, and accessory power circuits, providing the necessary voltage to the ECU and engine components.

## **How to Read a K Swap Conversion Harness Wiring Diagram**

Reading a wiring diagram might seem intimidating, but with some practice and understanding of the symbols and conventions, it becomes manageable.

### **Key Elements to Look For**

When working with a K swap conversion harness wiring diagram, focus on:

- **Wire colors:** Honda wiring harnesses usually follow color codes that indicate the function of each wire (e.g., red for power, black for ground).
- **Connector pinouts:** Diagrams often show pin numbers on connectors, which help identify where each wire plugs in.
- **Symbols:** Sensors, switches, and connectors have standard schematic symbols.
- **Flow direction:** Arrows or lines show which way signals travel.
- **Ground points:** Proper grounding is critical for sensor accuracy.

## Tips for Effective Diagram Reading

- Cross-reference the diagram with physical connectors on the harness.
- Use a multimeter to verify continuity and voltage on wires.
- Label wires as you identify them to avoid confusion.
- Take notes on any modifications or splices you perform.

## Popular Tools and Resources for K Swap Wiring

Having the right tools and resources is invaluable when working on a K swap harness.

### Tools You'll Need

- **Multimeter:** To check voltage, continuity, and resistance.
- **Wire strippers and crimpers:** For clean, secure connections.
- **Soldering iron and heat shrink:** For durable wiring repairs.
- **Electrical tape and zip ties:** To organize and protect wiring.
- **Pin removal tools:** To extract wires from connectors without damage.

## Where to Find Wiring Diagrams and Harnesses

- **Online forums:** Sites like K20a.org and Honda-Tech are treasure troves of user-shared wiring diagrams.
- **Service manuals:** Factory service manuals provide official schematics.
- **Aftermarket harness suppliers:** Companies specializing in K swap harnesses often provide detailed diagrams and support.
- **YouTube tutorials:** Visual guides can help clarify complex wiring steps.

## Common Challenges and How to Overcome Them

Even with the best wiring diagram, some hurdles are common during a K swap harness installation.

### Pinout Confusion

One of the biggest headaches is mismatching connector pins. To avoid this:

- Always double-check pin numbers on both the ECU and the harness.
- Use a wiring diagram that matches your specific K-series engine model and ECU version.
- Label connectors before disconnecting anything.

## **Sensor Signal Issues**

If the engine isn't starting or runs rough, sensor wiring could be the culprit. Make sure:

- All sensor grounds are solid.
- Signal wires aren't damaged or shorted.
- Sensor connectors are clean and fully seated.

## **ECU Communication Problems**

Sometimes the ECU won't communicate with diagnostic tools or may throw error codes. This can be due to:

- Missing or incorrect CAN bus wiring.
- Faulty power or ground supply to ECU.
- Damaged ECU connectors.

Double-check these circuits if you face communication issues.

## **Tips for a Successful K Swap Wiring Harness Installation**

Taking your time and planning carefully will pay off. Here are some practical tips:

- **\*\*Start with a clean slate:\*\*** Remove any unnecessary wiring from the original harness.
- **\*\*Use a dedicated conversion harness:\*\*** Avoid splicing with the stock harness unless you're confident.
- **\*\*Label everything:\*\*** Use masking tape and a marker to identify wires and connectors.
- **\*\*Test incrementally:\*\*** Power up and check circuits in stages rather than all at once.
- **\*\*Document your work:\*\*** Take photos and notes as you go for future reference.
- **\*\*Seek expert help:\*\*** If unsure, consult professionals or experienced K swap enthusiasts.

## **Understanding the Differences Between K Series ECU Versions**

The K series family includes various ECU versions like the K20A, K24A, and their respective revisions. Each may have slight differences in wiring and

harness requirements.

- Some ECUs require specific immobilizer bypass wiring.
- Different model years might use different sensor connectors.
- VTEC and non-VTEC versions have different actuator wiring.

Make sure your wiring diagram corresponds to the exact ECU and engine combo you're using.

## **Upgrading Your Wiring Harness for Performance**

If you're planning to tune or upgrade your K swap for higher performance, consider:

- Adding wideband O2 sensor wiring for aftermarket gauges.
- Incorporating standalone ECU wiring for custom engine management.
- Upgrading power and ground wiring with thicker gauge wires for reliability.
- Installing relays for high-current components like fuel pumps and fans.

These enhancements improve engine reliability and provide more control over tuning.

---

Installing a K swap conversion harness can seem intimidating at first, but with a solid wiring diagram, the right tools, and a little patience, it becomes an achievable project. Whether you're swapping a K20 into an older Civic or dropping a K24 into a different chassis, understanding the wiring intricacies is the key to a smooth-running engine and a rewarding build experience. Keep your wiring organized, test thoroughly, and you'll enjoy the power and reliability that the legendary K-series engine brings to your ride.

## **Frequently Asked Questions**

### **What is a K swap conversion harness wiring diagram?**

A K swap conversion harness wiring diagram is a detailed schematic that illustrates how to connect and integrate the wiring harness from a Honda K-series engine into a different vehicle, typically to replace the original engine setup.

### **Why is a wiring diagram important for a K swap conversion?**

A wiring diagram is crucial because it helps ensure all electrical connections are correctly made, preventing damage to components, ensuring proper engine management, and facilitating troubleshooting during and after the swap.

### **Where can I find a reliable K swap conversion harness**

## wiring diagram?

Reliable wiring diagrams can often be found on automotive forums dedicated to Honda swaps, official service manuals, or specialized websites that offer wiring guides for engine swaps.

## What are the common challenges when wiring a K swap conversion harness?

Common challenges include matching pinouts between the donor engine harness and the recipient vehicle's ECU, adapting sensors and grounds, and ensuring compatibility with the vehicle's electrical system such as lights and gauges.

## Do I need to modify the K series harness for my specific vehicle?

Yes, often the K series harness requires modifications or custom adapters to fit the wiring needs of the target vehicle due to differences in connectors, sensor types, or ECU requirements.

## Can I use a standalone ECU with the K swap conversion harness wiring?

Yes, many builders use standalone ECUs for greater tuning flexibility. The wiring diagram will need to be adapted to interface the K series harness with the standalone ECU correctly.

## What tools do I need to work with a K swap conversion harness wiring diagram?

Essential tools include a multimeter, wire strippers, crimping tools, soldering iron, heat shrink tubing, and possibly a wiring pin removal tool to safely modify and verify connections during the swap.

## Additional Resources

k Swap Conversion Harness Wiring Diagram: A Detailed Exploration

**k swap conversion harness wiring diagram** is a critical component for automotive enthusiasts and mechanics undertaking the popular Honda K-series engine swap into various chassis, notably older Honda models like the Civic and Integra. Understanding the wiring diagram is essential for a successful conversion, ensuring all electrical systems communicate effectively with the engine management system, sensors, and vehicle electronics. This article delves into the intricacies of the k swap conversion harness wiring diagram, examining its structure, key components, and practical considerations for installation.

## Understanding the K Swap Conversion Harness

# Wiring Diagram

The k swap conversion harness wiring diagram is a technical blueprint illustrating how the wiring harness interfaces between the K-series engine and the vehicle's existing electrical system. Unlike stock wiring harnesses designed for factory configurations, the conversion harness is customized to accommodate the unique demands of engine swaps. It facilitates integration of the engine control unit (ECU), sensors, fuel injectors, ignition coils, and other electrical components necessary for the K-series engine to function seamlessly within a different chassis.

One primary challenge addressed by the conversion harness is adapting the K-series ECU signals to the vehicle's wiring and electrical architecture. This requires meticulous mapping of wires, connectors, and pinouts to ensure compatibility and avoid electrical faults. The wiring diagram serves as a roadmap for enthusiasts and technicians, guiding the correct connection sequence and wire routing.

## Key Components in the Wiring Diagram

A thorough review of the k swap conversion harness wiring diagram reveals several vital components:

- **Engine Control Unit (ECU) Connector:** Central to the harness, this connector links the ECU to the engine sensors and actuators.
- **Sensor Wires:** These include connections for the crankshaft position sensor, camshaft position sensor, throttle position sensor, coolant temperature sensor, and oxygen sensors.
- **Ignition System Wiring:** Wires for coil-on-plug ignition coils, distributor (if applicable), and related control signals.
- **Fuel Injection Wiring:** Harness sections that control fuel injector operation, ensuring proper fuel delivery timing and quantity.
- **Power and Ground Circuits:** Essential for providing stable voltage supply and grounding to prevent electrical noise and interference.
- **Vehicle Interface Connectors:** Adaptors or splices that connect to the vehicle's existing wiring, such as the dashboard indicators, starter, alternator, and fuse box.

Understanding the roles and routing of these components within the wiring diagram is fundamental for a flawless k swap installation.

## Challenges and Best Practices in Wiring Harness Integration

Integrating a k swap conversion harness requires more than just following the

wiring diagram; it demands attention to detail and an understanding of automotive electrical systems. Several challenges commonly arise during the process.

## **Complexity of Factory Wiring vs. Conversion Harness**

The factory wiring harness of a donor vehicle is designed for a specific engine and configuration. When swapping a K-series engine, the original harness may be incompatible due to differences in sensor types, ECU pinouts, and electronic control protocols. The conversion harness acts as a mediator but may require additional modifications or splicing.

One prevalent issue is the mismatch in sensor wiring. For example, the K-series crankshaft position sensor may use different connectors or signal types than the original engine. The wiring diagram helps technicians identify these differences and adapt appropriately, but incomplete or inaccurate diagrams can cause troubleshooting headaches.

## **Ensuring Signal Integrity and Safety**

Electrical integrity is paramount. Poor connections, incorrect wire gauges, or inadequate insulation can lead to signal loss, ECU errors, or even shorts that damage components. The wiring diagram details recommended wire gauges and shielding practices, which should be strictly followed.

Additionally, fusing and relay configurations must be reviewed. Since the K-series engine may draw different current levels for fuel pumps or ignition coils, the conversion harness wiring diagram typically includes specifications for fuse ratings and relay types to safeguard the circuit.

## **Harness Customization and Aftermarket Solutions**

Many aftermarket companies offer pre-assembled k swap conversion harnesses designed to simplify installation. These harnesses often come with comprehensive wiring diagrams that include color-coded wires and detailed pinouts. However, variations in vehicle models and additional modifications (like turbocharging or standalone engine management systems) may necessitate custom alterations.

Professionals often recommend reviewing the wiring diagram alongside the vehicle's service manual wiring schematics to cross-reference and validate connections. This dual-document approach reduces errors and helps tailor the harness to specific project needs.

## **Comparing Wiring Diagrams: OEM vs. Aftermarket K Swap Harnesses**

Different wiring diagrams exist depending on whether the harness is sourced from OEM parts, aftermarket kits, or custom builds. Each has its advantages and trade-offs.



## OEM-Based Wiring Diagrams

OEM wiring diagrams tend to be highly detailed and accurate for stock configurations. When available, these provide a reliable foundation for understanding the exact pinouts and wiring functions of the K-series ECU and sensors. However, adapting OEM diagrams to a swap scenario often requires significant interpretation and modification, which can increase complexity for users without advanced electrical knowledge.

## Aftermarket Wiring Diagrams

Aftermarket harness providers typically design wiring diagrams with user-friendliness in mind. They often simplify the layout, highlight critical connections, and provide clear instructions for common swap vehicles. Many aftermarket diagrams also integrate troubleshooting tips and wiring color codes, reducing the likelihood of errors during installation.

On the downside, aftermarket wiring diagrams may omit less common sensor connections or advanced features present in OEM designs. Users undertaking complex swaps or integrating additional systems might find aftermarket diagrams insufficient without supplementary documentation.

## Practical Tips for Utilizing the K Swap Conversion Harness Wiring Diagram

Successfully leveraging a k swap conversion harness wiring diagram involves strategic planning and execution. Here are several professional tips to maximize efficiency and accuracy:

1. **Acquire Accurate and Updated Diagrams:** Use the most recent and vehicle-specific wiring diagrams available. Community forums, official service manuals, and aftermarket vendors can be valuable sources.
2. **Label Wires During Disassembly:** If modifying or splicing the original harness, labeling wires according to the diagram helps prevent confusion during reassembly.
3. **Use Quality Tools and Materials:** Employ proper crimpers, soldering equipment, and heat shrink tubing to ensure solid, insulated connections.
4. **Test Continuity and Signals:** Utilize a multimeter to verify wiring continuity and correct signal transmission before completing the installation.
5. **Document Modifications:** Keep detailed notes and updated wiring diagrams reflecting any changes made during the swap for future reference and troubleshooting.

## Common Mistakes to Avoid

- **Ignoring Grounding Points:** Poor grounding can cause erratic ECU behavior and sensor errors.
- **Misrouting Wires:** Routing wires near heat sources or moving components can lead to insulation damage.
- **Overlooking ECU Pinouts:** Connecting wires to incorrect ECU pins can damage the ECU or prevent engine start.
- **Neglecting Fuse Ratings:** Using incorrect fuse sizes can compromise circuit protection.

## Final Thoughts on the K Swap Conversion Harness Wiring Diagram

The k swap conversion harness wiring diagram is more than a technical schematic; it is the backbone of a successful K-series engine swap project. By providing a detailed map of electrical connections, it enables precision, reliability, and safety in integrating modern engine technology into older or different chassis configurations. Whether utilizing OEM information, aftermarket kits, or custom solutions, understanding and correctly applying the wiring diagram is indispensable.

For enthusiasts aiming to maximize performance while maintaining electrical integrity, investing time in studying and preparing for the wiring complexities pays dividends. As automotive electronics become increasingly sophisticated, the role of accurate, user-friendly wiring diagrams in swap projects like the K-series conversion will only grow in importance.

## [K Swap Conversion Harness Wiring Diagram](#)

Find other PDF articles:

<https://old.rga.ca/archive-th-081/pdf?dataid=Nso17-9897&title=importance-of-beauty-in-society.pdf>

**k swap conversion harness wiring diagram: How to Swap Ford Modular Engines into Mustangs, Torinos and More** Dave Stribling, 2017-03-15 The Ford modular engine is a popular swap for 1964-1/2-1973 Mustangs, Fox-Body Mustangs, trucks, hot rods, and other muscle cars because these high-tech engines provide exceptional performance and improved economy compared to their dated counterparts. Found in Mustangs and other Fords since the 1990s, installing a modular motor in a classic Ford infuses new technology and all the benefits that come with it into a classic car. Modular engines feature an overhead cam design that has massive horsepower potential, and are offered in 4.6-, 5.0-, 5.2- 5.4-, and 5.8-liter iterations. These high-tech 2-, 3-, and 4-valve

engines are readily available as a crate engine, from salvage yards, and in running cars. This engine design has a large physical footprint, and swapping the engine requires a thorough plan, using the proper tools and facilities. Author Dave Stribling specializes in modular engine swaps, and expertly guides you through each crucial step of the engine transplant process. Because of the large physical size, many components, such as brake boosters, steering rods and boxes, and other underhood components, may need repositioning or modification to co-exist in the engine bay. Stribling covers motor-mount selection and fabrication, suspension and chassis modifications, aftermarket suspension options, firewall and transmission tunnel modifications, engine management and wiring procedures, fuel systems, exhaust systems, electrical mods and upgrades, and much more. Many older Ford muscle and performance cars are prime candidates for a modular swap; however, shock towers protrude into the engine bay of these cars, so modifications are necessary to fit the engine into the car, which is also covered here. Swapping the engine and transmission into a muscle car or truck requires specialized processes, and this insightful, explanatory, and detailed instruction is found only in this book. If you are considering swapping one of these high-tech engines into a non-original chassis, this book is a vital component to the process. p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px Arial}

## Related to k swap conversion harness wiring diagram

**K-means**클러스터링K클러스터링 - 클러스터링 K클러스터링 클러스터링클러스터링k클러스터링클러스터링k클러스터링 클러스터링클러스터링 클러스터링클러스터링클러스터링10^1클러스터링

클러스터링클러스터링클러스터링클러스터링 Win + K 클러스터링클러스터링클러스터링클러스터링클러스터링클러스터링 Win + P 클러스터링클러스터링클러스터링 클러스터링클러스터링클러스터링

클러스터링**B760**클러스터링|**B760M**클러스터링클러스터링**B760M-K** 클러스터링B760M-K클러스터링클러스터링 CPU클러스터링클러스터링13600KF클러스터링 클러스터링13600KF클러스터링클러스터링클러스터링B760M-K클러스터링13600KF클러스터링

클러스터링**13**클러스터링**14**클러스터링클러스터링클러스터링? - 클러스터링 클러스터링클러스터링클러스터링클러스터링클러스터링13클러스터링14클러스터링클러스터링 클러스터링13클러스터링14클러스터링클러스터링K클러스터링클러스터링

클러스터링**K (클러스터링)클러스터링°K** - 클러스터링 클러스터링클러스터링K (클러스터링)클러스터링°K 클러스터링클러스터링클러스터링°C클러스터링°F클러스터링클러스터링K클러스터링 클러스터링°°클러스터링 클러스터링 클러스터링 9 클러스터링

**C클러스터링Z클러스터링T클러스터링K클러스터링G클러스터링D**클러스터링클러스터링 - 클러스터링 클러스터링G클러스터링클러스터링클러스터링300클러스터링 D클러스터링클러스터링클러스터링200클러스터링 C클러스터링클러스터링 클러스터링클러스터링 클러스터링클러스터링클러스터링

클러스터링클러스터링**"k"**클러스터링"클러스터링"클러스터링클러스터링 - 클러스터링 클러스터링클러스터링"k"클러스터링"클러스터링"클러스터링k클러스터링"클러스터링kilo"클러스터링클러스터링클러스터링클러스터링 클러스터링1k클러스터링2k클러스터링10k

**Intel CPU 클러스터링K클러스터링KF클러스터링F**클러스터링? - 클러스터링 K클러스터링클러스터링CPU클러스터링클러스터링 KF클러스터링CPU클러스터링클러스터링 F클러스터링 클러스터링CPU클러스터링클러스터링 X클러스터링CPU클러스터링클러스터링

**2025**클러스터링클러스터링클러스터링**9**클러스터링클러스터링클러스터링 5 days ago 클러스터링14클러스터링클러스터링클러스터링7Ultra클러스터링클러스터링클러스터링 클러스터링 클러스터링클러스터링클러스터링K Pad클러스터링

클러스터링클러스터링**Coefficient of Thermal Expansion**클러스터링**CTE**클러스터링 클러스터링 클러스터링클러스터링20°C (클러스터링1E-6 /K클러스터링1E-6 /°C) 클러스터링 클러스터링 클러스터링 클러스터링CTE클러스터링클러스터링클러스터링 클러스터링클러스터링 클러스터링

**K-means**클러스터링클러스터링K클러스터링클러스터링 - 클러스터링 K-means클러스터링클러스터링K클러스터링클러스터링 클러스터링클러스터링클러스터링k클러스터링클러스터링클러스터링k클러스터링 클러스터링클러스터링 클러스터링클러스터링클러스터링클러스터링10^1클러스터링

클러스터링클러스터링클러스터링클러스터링클러스터링 Win + K 클러스터링클러스터링클러스터링클러스터링클러스터링클러스터링 Win + P 클러스터링클러스터링클러스터링클러스터링 클러스터링클러스터링클러스터링

클러스터링**B760**클러스터링클러스터링|**B760M**클러스터링클러스터링클러스터링**B760M-K** 클러스터링B760M-K클러스터링클러스터링 CPU클러스터링클러스터링13600KF클러스터링 클러스터링13600KF클러스터링클러스터링클러스터링클러스터링B760M-K클러스터링13600KF클러스터링

클러스터링**13**클러스터링**14**클러스터링클러스터링클러스터링클러스터링? - 클러스터링 클러스터링클러스터링클러스터링클러스터링클러스터링13클러스터링14클러스터링클러스터링 클러스터링13클러스터링14클러스터링클러스터링K클러스터링클러스터링

클러스터링클러스터링**K (클러스터링)클러스터링°K** - 클러스터링 클러스터링클러스터링K (클러스터링)클러스터링°K 클러스터링클러스터링클러스터링°C클러스터링°F클러스터링클러스터링K클러스터링 클러스터링°°클러스터링 클러스터링 클러스터링 9 클러스터링

**C클러스터링Z클러스터링T클러스터링K클러스터링G클러스터링D**클러스터링클러스터링 - 클러스터링 클러스터링G클러스터링클러스터링클러스터링300클러스터링 D클러스터링클러스터링클러스터링200클러스터링 C클러스터링클러스터링 클러스터링클러스터링 클러스터링클러스터링클러스터링

클러스터링클러스터링**"k"**클러스터링"클러스터링"클러스터링클러스터링 - 클러스터링 클러스터링클러스터링"k"클러스터링"클러스터링"클러스터링k클러스터링"클러스터링kilo"클러스터링클러스터링클러스터링클러스터링

1k2k10k

**Intel CPU KKF? - K CPU KF CPU F**  
CPU X CPU

**20259** 5 days ago 147Ultra  
K Pad

**Coefficient of Thermal Expansion**CTE 20°C (1E-6 /K1E-6 /°C CTE

## Related to k swap conversion harness wiring diagram

**Modular Engine Swap Wiring - MMF Quick Tech** (Motor Trend15y) For those of us who've been around the block a few times I'm sure you remember hearing about the first 5.0L EFI Mustang engine swap into a classic Mustang. Maybe it was in your favorite magazine, or

**Modular Engine Swap Wiring - MMF Quick Tech** (Motor Trend15y) For those of us who've been around the block a few times I'm sure you remember hearing about the first 5.0L EFI Mustang engine swap into a classic Mustang. Maybe it was in your favorite magazine, or

Back to Home: <https://old.rga.ca>