

LS4 Swap Discussion

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Agenda

- Build Goal
- Research
- Implementing Build Plans
- Build Sheet
- Prep
- Installation
- Finishing
- Preferred Vendors & POCs
- Questions

Build Goal

- Keep in mind
 - Not a bolt on / off the shelf project
 - Little Decisions have Big Impacts
 - LS4's are great, but not the only option
- Budget & Ability
 - What can you budget towards the build?
 - What aspects of the build can you do yourself?
 - Expectation Management
- Build Details
 - What is the end goal?
 - Specific Components
 - Performance
 - Comfort & Drivability
 - Aesthetics



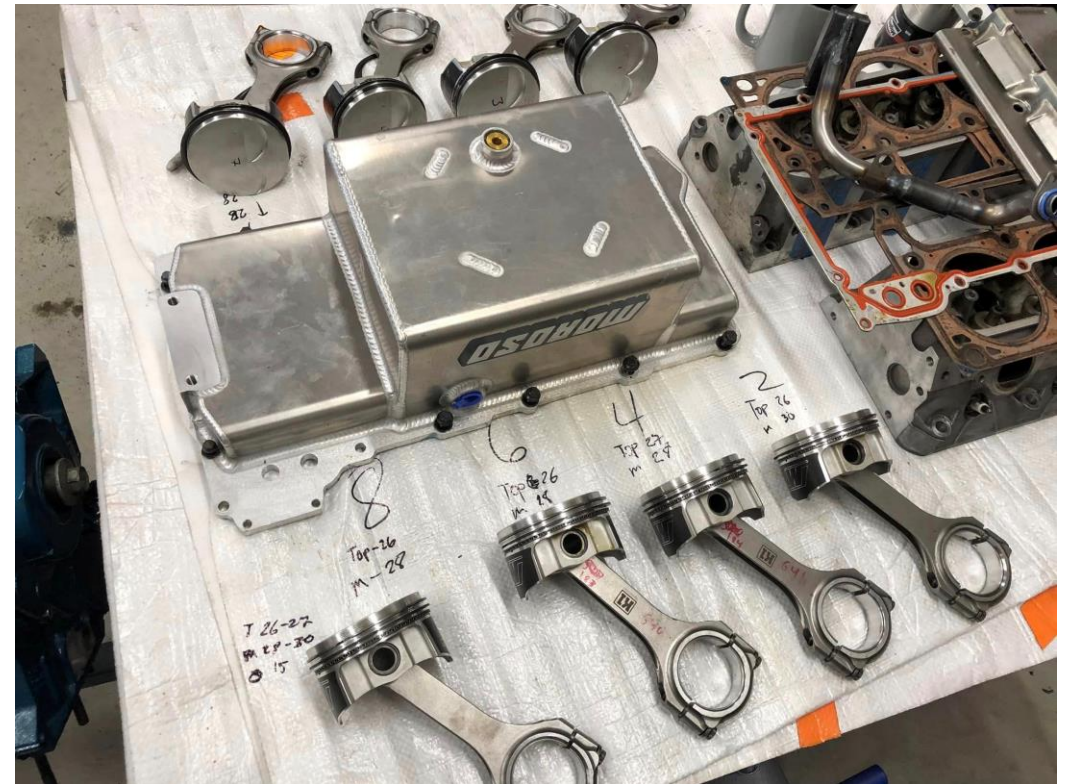
Research

- Informational Sources
 - FieroGuru's build thread(s)
 - Pennocks
 - LS1 Tech
 - Facebook / GM Forums
- Things to Keep in Mind
 - Auto / Manual transmission
 - 24x vs 58x Engines
 - Harness Design is Dependent on Specific Components
 - Decide on AC First

Implementing Build Plans

Now that you know what you want the car to do and have done some research on what that will entail, how do you start building?

- Engine & Transmission
 - Rebuild?
 - Upgrades & Modifications
 - Performance Considerations
- Mounts / Brackets / Accessories
- Electronics & Tuning
 - Gauges
 - Harness / ECU



Implementing Build Plans

Now that you know what you want the car to do and have done some research on what that will entail, how do you start building?

- Axles / Suspension / Brakes
- Coolant System
 - Filling & Servicing
 - Routing
 - Heater Core
 - Mechanical vs Electric Pump
- Exhaust
 - Manifolds
 - Front half
 - Muffler & Tips
- Fuel System

Prep

- Engine Removal
 - Remove Stock Fiero Engine Bay Components
- Engine Bay Modifications
 - Passenger Decklid Hinge Box
 - Battery Tray
 - Dog-Bone Mount
 - TEST FIT ENGINE PACKAGE
- Paint & Finishing Touches
 - Rust & Damage Correction
 - Protecting Exposed Components & Surfaces
 - Prime & Paint

Installation

- Battery Relocation & Cable Routing
 - Location, Connections, and Routing
 - Prep for Grounds
- Fuel Tank / Pump Conversion
 - Dropping the Fuel Tank
 - Upgraded Fuel Pump
 - Fuel Filter / Line Installation



Installation

- Interior Prep
 - Upgraded Electronics
 - Center Console Prep
 - PCM Mounting Tray
 - Relay and Fuse block Location
- Engine Package Install
 - Install Engine & Cradle
 - Harness Routing / Layout
 - Brakes / Suspension / Axles
 - Fuel / Coolant / AC / Transmission Lines
 - PREP FOR START

Finishing

- What we forgot to Account for
 - Oil / Coolant / Fluids
 - Ignition / Spark
 - Filters
- Exhaust
 - Heat Shields
 - Muffler
 - Proper Alignment
- Parking Brake (if used)



Finishing

- Clearances & Heat Management
 - Heat Wrap / Shields
 - Fuel Lines & Wiring
- Checks
 - Electrical
 - Fuel System
 - Double Checks
 - Wiring
 - Components Torqued & Secure
 - Exhaust Leaks & Clamps
- First Start
- Diagnostics and Troubleshooting

Preferred Vendors & POCs

- FieroGuru Performance
- Rodney Dickman
- Fiero Store
- Pickardt Performance
- G3 Fieros
- Sinister Performance
- Holley Performance
- Meziere Enterprises
- Moroso
- 2 Feet In Fabrication
- LSC Performance
- SPEC Clutch



Questions?

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