

The Multi-Dimensional Fitment Engine.

The core of Fyresite Parts Intelligence™. A flexible fitment model that captures how parts actually relate to vehicles — Year/Make/Model, engine, submodel, even marine and powersport setups — so every valid combination is real and impossible ones can't exist.

WHY THIS MATTERS

Every fit is a real fit.

- ✓ Handles one-to-one, one-to-many, and overlapping compatibility
- ✓ Supports YMM, YMME, submodel, half-year, and marine models
- ✓ Validates at SKU and variant level — no impossible combinations

01

Flexible by design

One model adapts to vehicle-, engine-, trim-, and marine-based fitment — no rigid schema.

02

Fitment as real entities

Every real combination stands on its own, so results stay accurate at scale.

03

Deep, layered compatibility

Up to seven layers of fitment, half-years, and overlapping groups.

Inside the Engine



Flexible Fitment Variables

Year, Make, Model, Engine, Submodel, Horsepower — mapped to how each catalog defines a fit.



Fitment Entities

Every real vehicle combination exists on its own — impossible ones can't.



One-to-Many Relationships

A single SKU can fit many vehicles without losing accuracy.



Half-Year & Range Fitment

Mid-year changes and year ranges handled natively, not forced into whole years.



Non-Exclusive Groups

Overlapping fitment groups supported side by side, not forced to be exclusive.



SKU & Variant-Level Logic

Fitment resolves to the variant for simple, variable, kitted, and builder products.



Up to 7 Layers of Fitment

Layered fitment data for the most complex automotive and marine catalogs.



Native to Shopify

Modeled and maintained right in the Shopify admin — no bolt-on app to manage.

How it Rolls Out

PHASE 01

Discovery

We learn your catalog, your fitment, and where buyers get stuck.

PHASE 02

Architecture

We design how your fitment data should be structured.

PHASE 03

Migration

Your products and fitment get cleaned up & organized in Shopify.

PHASE 04

Build

We build the vehicle finder and the part-fit checks.

PHASE 05

Launch & tune

We test, launch, then keep tuning sales and order flow.

A fitment foundation that scales.

Flexible fitment, real vehicle combinations, and accuracy down to the exact part.

25%–55%

INCREASE IN CONVERSION RATE

15%–20%

FEWER INCOMPATIBLE RETURNS



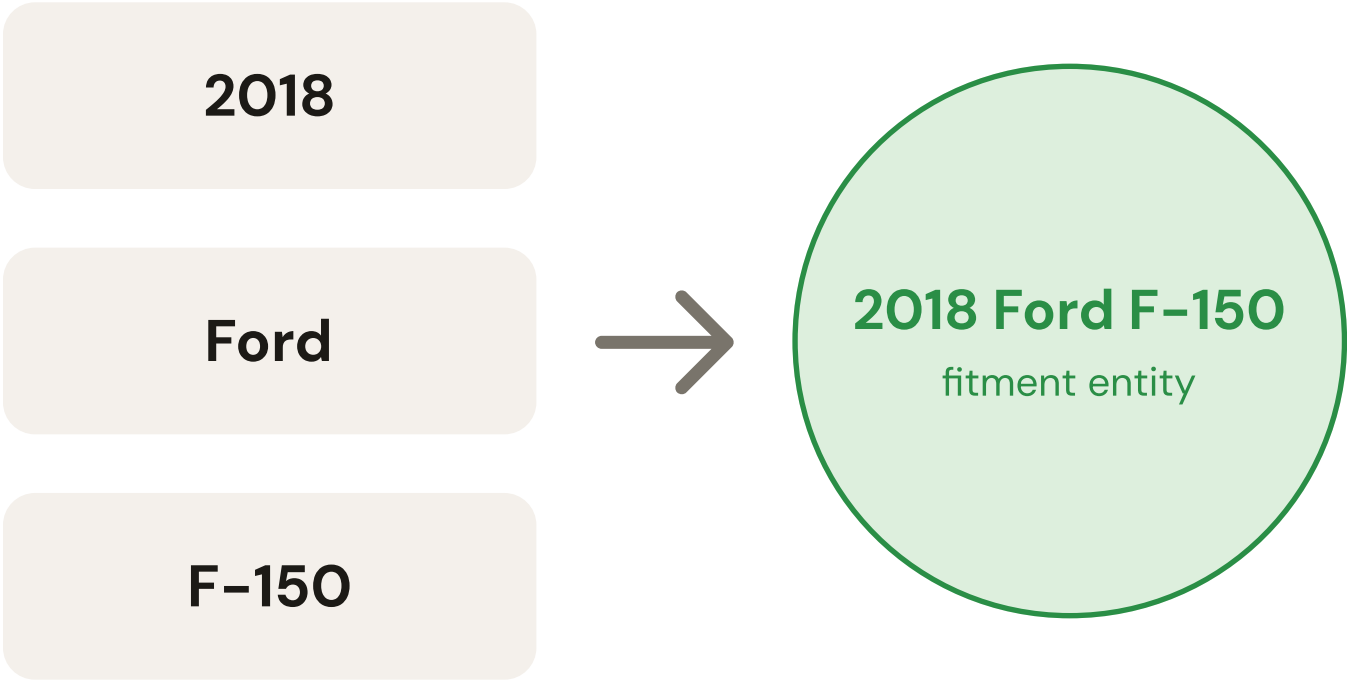
SHOPIFY
PREMIER
PARTNER

See how it works [→](#)

One model behind every vehicle relationship.

Loose attributes become real fitment entities — each a valid Year / Make / Model / Engine combination. Those entities then connect parts, collections, customers, and content across the whole store.

LOOSE ATTRIBUTES



One valid combination, indexed on its own — like a product or collection.

- 1 Fitment variables (Y / M / M / Engine)
- 2 One valid combination = one real vehicle
- 3 Throughlines across the store

1995 Dodge Ram 2500

Year	Make
1995	Dodge
Model	Engine
Ram 2500	L6 5.9L

Compatible Vehicles

- 2001 Dodge Ram 2500
- 2003 Dodge Ram 3500
- 2006 Chevrolet Silverado 2500
- 2008 GMC Sierra 3500
- 2005 Ford F-250

1

Flexible variables

Year, Make, Model, Engine, Submodel, Horsepower — combined to match exactly how each catalog defines a fit.

2

Real fitment entities

Every real combination stands on its own, so impossible vehicles never show up and results stay reliable.

3

Throughlines storewide

One source of fitment truth connects products, smart collections, My Garage customers, and buyer's guides.



Built to perform. Designed to scale.
Ready for the long haul.

Reach out today for Fyresite Parts Intelligence™

Learn more at fyresite.com

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