



# CONVERTER SELECTOR

**\*\* ADVERTISED stall speeds are based off of a 3600 lb. car with 200 HP/275 ft.-lbs., 3.42 gear, and a 26 inch tire.\*\***

With this in mind, to achieve a DESIRED or ACTUAL stall speed for your application, it may require a converter with a substantially different ADVERTISED stall speed.

- Example:** A Street Rod that weighs 2,000 lbs. with a DESIRED stall speed of 1800 RPM. The lighter weight of the vehicle reduces the stall of the torque converter. To achieve a DESIRED stall of 1800 RPM, you would need a converter with an ADVERTISED stall speed of 4200-5000 RPM.
- Weight:** Like the example shows, a vehicle lighter than 3600lbs. will reduce the stall of a converter.  
A vehicle heavier than 3600 lbs. will increase the stall of a converter.  
**\*Rule of thumb for HAYS converters is 500 lbs. up or down = 1 stall range change.**
- HP/Torque:** A vehicle with an engine producing more than 200HP/275 ft.-lbs. will increase the stall of a converter.  
A vehicle with an engine producing less than 200HP/275 ft.-lbs. will decrease the stall of a converter.  
**\*Rule of thumb for HAYS converters is 75 HP or 100 ft.-lbs. up or down = 1 stall range change.**
- Gear:** A vehicle with a numerically higher (lower) rear gear will reduce the stall of a converter.  
A vehicle with a numerically lower (higher) rear gear will increase the stall of a converter.  
**\*Rule of thumb for HAYS converters is 2 gear steps up or down = 1 stall range change.**
- Tire Size:** A vehicle with a tire shorter than 26" will raise (numerically) final drive gear ratio, and reduce the stall of a converter.  
A vehicle with a tire taller than 26" will lower (numerically) the final drive ratio, and increase the stall of a converter.  
**\*Rule of thumb for HAYS converters is 1.5" tire height up or down = 1 gear step change.**
- Exhaust:** Open headers will decrease the stall RPM of a converter when compared to a full exhaust system on the same vehicle.

Customer Name \_\_\_\_\_ Phone \_\_\_\_\_

E-mail address \_\_\_\_\_

Transmission make & model \_\_\_\_\_ Trans-Brake (YES or NO)

Desired Stall RPM \_\_\_\_\_ Engine make & cubic inch \_\_\_\_\_

Compression ratio \_\_\_\_\_ HP (if known) \_\_\_\_\_ TQ (if known) \_\_\_\_\_ Cam RPM range \_\_\_\_\_ to \_\_\_\_\_

Cam info (adv. lift, duration, lobe sep.) \_\_\_\_\_

Intake manifold (brand, model, EFI or carb, single or dual plane, flange pattern) \_\_\_\_\_

Cylinder heads (material, brand and flow) \_\_\_\_\_

Chamber size \_\_\_\_\_ Valve size \_\_\_\_\_ int. \_\_\_\_\_ exh.

Headers or Manifolds (port size and length) \_\_\_\_\_

Exhaust system (explain set-up and sizes) \_\_\_\_\_

Car info... Year \_\_\_\_\_ Make \_\_\_\_\_ Model \_\_\_\_\_

Gross weight \_\_\_\_\_ Rear gear ratio \_\_\_\_\_ Rear tire height \_\_\_\_\_

Power adder (YES or NO) if yes, what type and how much \_\_\_\_\_

Notes explain vehicle and its use (street, street/strip, race only) \_\_\_\_\_

**Hays Technical Support**  
Technical Service: 1-866-464-6553 or 270-781-9741

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