



WINNING HERITAGE • QUALITY • VALUE • SUPPORT



MADE IN USA

CHOSEN SINCE  
BY WINNERS 1972

## History

In 1972, McLane (Mac) and Adelle Tilton founded Tilton Engineering in El Segundo, California. Their mission was to supply innovative, high-quality products at fair prices and with sound advice. Mac utilized his vast racing and machining experience, most notably as Crew Chief for the 1971 & 1972 Trans Am championship winning Brock Racing Enterprises (BRE) team, to develop some of the most innovative products of their time. Adelle's excellent business sense and experience helped to insure the long-term future of Tilton Engineering.

As Tilton Engineering's reputation grew, demand for its products increased. Tilton relocated in 1979 to Buellton, California where it is still located today. A new custom-built headquarters was completed in 2017, which includes the full machine shop, assembly area, warehouse, office space and a fully integrated quality assurance department.

## Products

Tilton produces a wide range of driveline and brake components, in-cockpit controls and starter motors. Driveline components include clutches, flywheels, bellhousings and hydraulic release bearings. Brake components and in-cockpit controls include pedal assemblies, master cylinders, balance bars, proportioning valves and related accessories. Super Starters by Tilton were introduced in 1981 as the first high torque mini-starter for racing applications.

Tilton products are primarily designed for racing use and can be found worldwide in nearly every form of racing, winning numerous major races and championships each year. Tilton continues to expand its offerings to include products for the high-performance street market, such as with their ST-246 line of twin plate clutches and 6000-Series hydraulic release bearings.

## Innovation

Of the numerous innovations Tilton has brought to the racing world, most recognized is the carbon/carbon racing clutch. Tilton's was the first carbon/carbon clutch to be used in F1, winning its first race at the 1987 Detroit Grand Prix in Ayrton Senna's Lotus-Honda. The technology developed by Tilton can be found in most carbon/carbon racing clutches of today. Tilton Engineering was awarded a US Patent and the Louis Schwitzer Award. Today, Tilton continues to introduce innovative products to the racing industry each year.

## Engineering/Manufacturing/Quality Control

Tilton Engineering believes that having Engineering, Manufacturing and Quality Control within the same building is the best way to insure the highest quality products are delivered to customers. Our products are designed by experienced engineers, who understand the needs of racers, using the latest solid modeling CAD and Finite Element Analysis (FEA) software. 90% of our machined components are manufactured at our facility in Buellton, California using top-level equipment, including a Toyoda Horizontal Milling Center (HMC) and Mori Seike lathes. After machining, products are quality checked using Browne and Sharpe Coordinate Measuring Machines (CMM) and tested using proprietary equipment.

## Service

A great product is nothing without great service behind it and Tilton prides itself in providing excellent customer service. Experienced Tilton employees, most who have been at Tilton for many years, are readily available to assist customers in selecting the most appropriate products and providing technical support. Tilton is supported by a worldwide network of dealers, who are the very best in the industry. These dealers know their customer's and make significant investments in inventory to service them quickly. They, along with Tilton's employees, are there to provide the customer with top-level service and the best purchase experience possible.

# Contents

---

## Clutches

|  |    |
|--|----|
| ST-246 Clutch Flywheel Kits .....        | 3  |
| Sport 5.5 Clutch Assemblies .....        | 4  |
| 5.5 ULTRA Clutch Assemblies .....        | 5  |
| OT-II 7.25" Metallic Clutches .....      | 7  |
| OT-III 5.5" Metallic Clutches .....      | 9  |
| OT-II 7.25" Cerametallic Clutches .....  | 12 |
| OT-II 7.25" Carbon/Carbon Clutches ..... | 14 |
| OT-III 5.5" Carbon/Carbon Clutches ..... | 15 |
| OT-V 4.5" Carbon/Carbon Clutches .....   | 16 |

## Disc Packs

|                                     |    |
|-------------------------------------|----|
| 7.25" Cerametallic Disc Packs ..... | 18 |
| 7.25" Metallic Disc Packs .....     | 19 |
| 5.5" Metallic Disc Packs .....      | 21 |

## Clutch Flywheel-Assemblies

|   |    |
|---|----|
| Metallic Clutch-Flywheel-Assemblies .....     | 24 |
| Cerametallic Clutch-Flywheel-Assemblies ..... | 25 |
| Carbon Clutch-Flywheel-Assemblies .....       | 26 |

## Bellhousing

|                                  |    |
|----------------------------------|----|
| 99T 5.5" Bellhousing Kits .....  | 27 |
| 102T 5.5" Bellhousing Kits ..... | 29 |

## Flywheels, Ring Gears & Bolt Kits

|                             |    |
|-----------------------------|----|
| Flywheel & Ring Gears ..... | 31 |
| Bolt Kits .....             | 33 |

## Hydraulic Release Bearings (HRBs)

|                        |    |
|------------------------|----|
| 1000-Series HRBs ..... | 36 |
| 2000-Series HRBs ..... | 37 |
| 3000-Series HRBs ..... | 38 |
| 4000-Series HRBs ..... | 39 |
| 5000-Series HRBs ..... | 40 |

|   |    |
|---|----|
| 6000-Series HRBs .....                              | 41 |
| 8000-Series HRBs .....                              | 43 |
| 9000-Series & 700-Series HRBs .....                 | 44 |
| HRB Mount Adapters & Mechanical Release Bearings .. | 45 |
| Release Bearing Service Parts .....                 | 46 |

## Super Starters®

|                                   |    |
|-----------------------------------|----|
| 40000-Series Super Starters ..... | 47 |
| XLT Super Starters .....          | 48 |
| Cooler Pumps .....                | 49 |

## Pedal Assemblies

### 600-Series

|                                     |    |
|-------------------------------------|----|
| Underfoot (2 & 3 Pedal) .....       | 51 |
| Floor-Mount (2 & 3-pedal) .....     | 52 |
| Overhung, Firewall & Throttle ..... | 53 |

### 850-Series

|   |    |
|---|----|
| Underfoot (Non-Slider, 2 & 3-Pedal) ..... | 55 |
| Underfoot (Slider, 2 & 3-Pedal) .....     | 56 |

### 800-Series

|                                 |    |
|---------------------------------|----|
| Floor-Mount (2 & 3-Pedal) ..... | 57 |
| Overhung & Firewall .....       | 58 |

### 900-Series

|  |    |
|--|----|
| Floor-Mount, Overhung & Firewall ..... | 60 |
|--|----|

## Master Cylinders

|  |    |
|--|----|
| 79-Series & 78-Series Master Cylinders ..... | 61 |
| 76-Series & 75-Series Master Cylinders ..... | 62 |
| 74-Series & 73-Series Master Cylinders ..... | 63 |
| Master Cylinder Service parts .....          | 64 |
| Reservoirs (3-Chamber & 1-Chamber) .....     | 65 |
| Bias Adjusters, Balance Bars & Valves .....  | 66 |
| Master Cylinder Sizing Form .....            | 67 |

There are many considerations when choosing a clutch that best meets your needs. The selection of clutches on the market is quite large, with a wide range of diameters, friction materials and disc counts. The general rule in selecting a racing clutch is to choose the smallest clutch diameter allowed by sanctioning body rules, determine how many discs it takes to meet your engine's torque capacity, and add one additional plate for heat capacity and durability reasons. For street use, larger diameter clutch such as Tilton's ST-246 range of clutches are recommended. The following is a list of factors to consider when selecting the right clutch for your application.

**Metallic Racing Clutches:** Lug-type clutch design that feature discs with a thin specialized metallic friction material sintered to the core plate. The thin (.104") friction disc offers low weight & inertia, has excellent wear resistance and withstands fairly high temperatures. Metallic clutches are the most commonly used clutch type in circle track and road racing. Tilton offers metallic clutches in their OT-Series 5.5" & 7.25", Sport 5.5 and 5.5 Ultra clutch models.



5.5 ULTRA  
Racing Clutch

**Cerametallic Racing Clutches:** Lug-type clutch design that features discs with a thick ceramic and metallic friction material blend sintered to the core plate. Compared to the metallic clutch of the same number of discs, the thicker (.283") friction material provides increased heat capacity. In addition, the engagement characteristics are less aggressive than metallic clutches. Cerametallic clutches are commonly used in rally, short track off-road, club racing/track day and import drag racing.



7.25" OT-II Cerametallic  
Racing Clutch

**Carbon/Carbon Clutches:** Tilton Engineering designed and patented (4,846,326) the first carbon/carbon clutch in 1989. Features driven and floater plate that are 100% carbon matrix. Tilton carbon/carbon clutches offer many advantages over other friction materials. They are by far the lightest of the clutch types, superior at withstanding high temperatures (will not warp from heat) and have the smoothest engagement characteristics. Although the initial purchase price is higher, their cost per mile is lower, especially when you consider that their smooth engagement can help increase the life of the transmission and other driveline components. Carbon/Carbon clutches are commonly used in road racing, endurance racing, open wheel/formula, rally, short course off-road, 1/2-mile racing, and higher power street/strip applications



7.25" OT-II Carbon  
Racing Clutch

**ST-246 Performance Street Clutches:** Designed specifically for high performance street/strip use. Features a machined aluminum clutch cover that incorporates straps that are attached to the high-mass pressure plate and floater plate to minimum noise. ST-246 clutches are available with either sprung-hub organic discs for street use or solid-hub cerametallic discs for street/strip use. Designed from the ground up as performance twin disc clutch using Tilton 45+ years of experience in racing clutches, ST-246 clutches are competitively priced and are a far superior option to the stamped steel cover "performance" clutches on the market.



ST-246 Twin Disc  
Street Clutch

**Sanctioning Body Rules:** If you are selecting a clutch for use in a sanctioned racing series, you will want to start by checking the clutch rule of the sanctioning body. Most sanctioning body rules specify a minimum clutch diameter. The minimum clutch diameter rule is based on the diameter of the friction/driven discs, not the diameter of the entire clutch. This rule keeps the mass moment-of-inertia to a minimum. In addition, rules typically specify acceptable clutch friction materials. Racing clutch friction materials, as far as racing sanctioning body rules are concerned, are divided into two categories: metallic and carbon/carbon.

## Clutch Performance Limits

**Torque Capacity:** Torque capacity refers to the engine torque that the clutch will hold before slippage occurs. Torque capacity ratings among clutch manufacturers cannot be directly compared. Clutch manufacturers do not have an industry standard with which they set clutch torque ratings. Generally, a Tilton OT-Series clutch does not slip until the torque is 50% above the rated torque capacity, making the rating rather conservative. On the other hand, another clutch manufacturer may rate a clutch at the torque level it starts to slip in an effort to provide a more impressive rating. One can usually use the torque ratings to compare clutches from the same manufacturer, but not from different manufacturers.

**Heat Capacity:** Heat capacity refers to the amount of heat the clutch can withstand before damage or failure occurs. Heat is generated every time the clutch is engaged (slipped/modulated). The heat generated during engagement is mostly absorbed by the clutch's pressure plate, floater plates and discs. Some heat is also absorbed by the flywheel. The more mass a clutch has, the more heat/temperature it can absorb. As with brakes and tires, higher temperatures do more damage. Same is true with clutches. A clutch with an extra disc will have better heat capacity due to the increased mass, exposing the clutch to lower overall temperatures. Due to its stability under heat, carbon/carbon has the ability to withstand the highest temperatures before being damaged. The racetrack is usually easy on the clutch. It is the paddock (or street) where the clutch must be slipped, raising clutch temperature and causing the most damage. In addition, even if horsepower levels are equal, a heavier car will require more material (to absorb heat) than a lighter car.

**Durability:** Refers to the service life of the clutch. A smaller diameter clutch, or removing a plate from the clutch, will offer increased performance through a lower inertia. Adding a plate to the clutch, or increasing the diameter of the clutch, will increase the life of the clutch due an increased surface area to wear against. In summary, there is a trade-off to be made between clutch weight and maintenance intervals.

**Release Load:** Force required on the diaphragm spring to disengage the clutch. Lower release loads put less stress on the engine's thrust bearings and reduces pedal effort.

**Clamp Load:** Force applied by the clutch's diaphragm spring onto the driven plates.

**Diaphragm Spring:** The Belleville spring located in the clutch cover.

**Driven Plate(s):** The plate(s) within the clutch assembly that drive the transmission's input shaft.

**Pressure Plate:** The plate directly under the clutch's diaphragm spring, containing the fulcrum point where clamp load is placed onto the driven plates. Many Tilton OT-Series clutches are available with two pressure plate ratio options, High or Ultra-High.

**Floater Plate:** The plate(s) that separate the driven discs on multi-plate clutches.





Tilton has applied their nearly 50 years of experience in racing clutches to develop the ST-246 line of 246mm (9.7") twin disc clutch kits for the high-performance street market. Unlike many of the "performance clutches" on the market, ST-246 clutches were engineered from the ground up as a true performance twin disc clutch and not an OEM-type stamped steel pressure plate with a floater plate added. ST-246 clutches are designed to provide high torque capacity, low wear rate, smooth shifting and good drivability. All ST-246 twin disc clutch kits include a billet chromoly steel flywheel and are available with either sprung-hub organic discs (**850 lb-ft capacity**) or solid-hub cerametallic discs (**1250 lb-ft capacity**).

## Features

- ▶ Precision machined aluminum clutch cover provides high-strength, stiffness and better dynamic balance than OE-type stamped steel covers.
- ▶ High-mass main pressure plate and floater plate, machined from the same proprietary material as used in Tilton's racing clutches, provides high heat capacity and resists.
- ▶ Heavy-duty straps attach pressure plate and floater plate to the clutch cover, minimizing noise and providing fast & clean release between shifts.
- ▶ Chromoly steel flywheel provides high-strength and long-term durability. Features a precision register to locate the clutch and provide optimal balance (as opposed to loose fitting bolts & dowels used with stamped steel clutches).
- ▶ Weight and inertia engineered to provide a good balance of performance and drivability.
- ▶ 246mm sprung-hub organic disc (**850 lb-ft**) and solid-hub cerametallic disc (**1250 lb-ft**) options.

## Car Specific Applications

*Includes: Clutch, discs, flywheel, clutch & flywheel bolts, alignment tool and spline grease.*

| Application       | Weight (lbs) | Organic Disc Kits | Cerametallic Disc Kit |
|-------------------|--------------|-------------------|-----------------------|
| Chevy Camaro GEN6 | 48.3         | <b>55-1000</b>    | <b>55-2000</b>        |
| Chevy Camaro GEN5 | 46.4         | <b>55-1005*</b>   | <b>55-2005*</b>       |
| Chevy Corvette C7 | 48.3         | <b>55-1000</b>    | <b>55-2000</b>        |
| Chevy Corvette C6 | 46.4         | <b>55-1009*</b>   | <b>55-2009*</b>       |
| Chevy Corvette C5 | 46.4         | <b>55-1004</b>    | <b>55-2004</b>        |

*\* Includes 6000-Series hydraulic release bearing*



## Engine/Transmission Applications

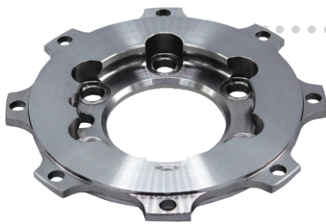
| Engine                 | Transmission                            | Weight (lbs) | Organic Disc Kits | Cerametallic Disc Kit |
|------------------------|---|--------------|-------------------|-----------------------|
| Chevy LS (6-Bolt)      | Tremec T56 6-spd/ TKO 5-spd (26-spline) | 46.4         | <b>55-1004</b>    | <b>55-2004</b>        |
| Chevy LSA/LSX (8-Bolt) | Tremec T56 6-spd/ TKO 5-spd (26-spline) | 46.4         | <b>55-1008</b>    | <b>55-2008</b>        |
| Chevy LT1/LT4          | Tremec T56 6-spd/ TKO 5-spd (26-spline) | 46.4         | <b>55-1008</b>    | <b>55-2008</b>        |
| Chevy V8 (early)*      | Tremec T56 6-spd/ TKO 5-spd (26-spline) | 43.4         | <b>55-1002</b>    | <b>55-2002</b>        |
| Ford Coyote            | Tremec T56 6-spd/ TKO 5-spd (26-spline) | 47.7         | <b>55-1001</b>    | <b>55-2001</b>        |
| Ford Small Block*      | Tremec T56 6-spd/ TKO 5-spd (26-spline) | 44.0         | <b>55-1003</b>    | <b>55-2003</b>        |

*\* Internal Balance*



### Typical Applications

- ▶ Circle Track
- ▶ Road Racing



### Features

- ▶ Tilton's value-oriented 5.5" racing clutch
- ▶ Rigid clutch cover design resists deflection
- ▶ Hardened steel thrust buttons in clutch cover legs provide long term durability
- ▶ Accepts Tilton and QM 110-tooth cover -mount ring gears
- ▶ Direct replacement for QM 8-leg 5.5" Clutches
- ▶ 750 lb-ft capacity for a 3-plate clutch. 500 lb-ft capacity for 2-plate clutch

### SPORT 5.5 Button Clutch Assemblies

*Includes: Clutch, discs, button flywheel, clutch bolts and flywheel bolts*

| Description       | Chevy Early | Chevy Crate | Chevy LS | Ford Small Block |
|-------------------|-------------|-------------|----------|------------------|
| 2-disc, 26 spline | 57-2136     | 57-2336     | 57-2436  | 57-2536          |
| 3-disc, 26-spline | 57-1136     | 57-1336     | 57-1436  | 57-1536          |

### SPORT 5.5 Service Parts

#### Clutch Assemblies

*Includes: Clutch and disc pack*

| Description                         | Part Number        |
|-------------------------------------|--------------------|
| SPORT 5.5 clutch, 2 disc, 26-spline | <b>67-902HG-36</b> |
| SPORT 5.5 clutch, 3 disc, 26-spline | <b>67-903HG-36</b> |

#### Button Flywheel

| Description                               | Part Number  |
|---|--------------|
| Button, 8-leg 5.5", Chevy Early           | <b>19002</b> |
| Button, 8-leg 5.5", Chevy Crate, balanced | <b>19023</b> |
| Button, 8-leg 5.5", Chevy LS              | <b>19044</b> |
| Button, 8-leg 5.5", Ford Small Block      | <b>19045</b> |

#### Disc Packs

| Description                  | Part Number           |
|------------------------------|-----------------------|
| Disc pack, 2-disc, 26-spline | <b>64140-1-AA-36</b>  |
| Disc pack, 3-disc, 26-spline | <b>64140-1-ABA-36</b> |

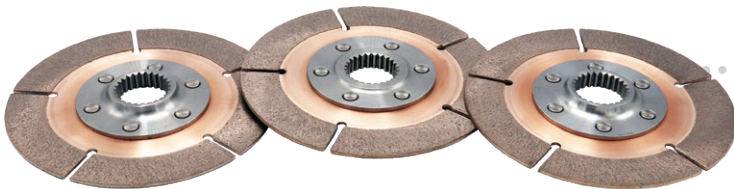
#### Clutch Service Parts

| Description                                  | Part Number     |
|--|-----------------|
| Pressure Plate                               | <b>67-118HR</b> |
| Floater Plate                                | <b>67-119</b>   |
| Clutch Bolt Kit (3 or 2 disc with RG spacer) | <b>95-035</b>   |



### Typical Applications

- ▶ Circle Track
- ▶ Road Racing



### Features

- ▶ Tilton's lightest 5.5" racing clutch
- ▶ Rigid clutch cover design resists deflection
- ▶ Hardened steel thrust buttons in clutch cover legs provide long-term durability
- ▶ Accepts Tilton and QM 99 tooth & 110-tooth cover mount ring gears
- ▶ Direct replacement for QM 6-leg 5.5" clutches
- ▶ 750lb-ft capacity for 3-plate clutch. 500 lb-ft capacity for 2-plate clutch

### ULTRA 5.5 Button Clutch Assemblies

*Includes: Clutch, discs, button flywheel, clutch bolts and flywheel bolts*

| Description       | Chevy Early | Chevy Crate | Chevy LS | Ford Small Block |
|-------------------|-------------|-------------|----------|------------------|
| 2-disc, 26 spline | 57-4136     | 57-4336     | 57-4436  | 57-4536          |
| 3-disc, 26-spline | 57-3136     | 57-3336     | 57-3436  | 57-3536          |

### ULTRA 5.5 Service Parts

#### Clutch Assemblies

*Includes: Clutch and disc pack*

| Description                         | Part Number        |
|-------------------------------------|--------------------|
| ULTRA 5.5 clutch, 2 disc, 26-spline | <b>67-202HG-36</b> |
| ULTRA 5.5 clutch, 3 disc, 26-spline | <b>67-203HG-36</b> |

#### Button Flywheel

| Description                               | Part Number  |
|---|--------------|
| Button, 8-leg 5.5", Chevy Early           | <b>19038</b> |
| Button, 8-leg 5.5", Chevy Crate, balanced | <b>19042</b> |
| Button, 8-leg 5.5", Chevy LS              | <b>19041</b> |
| Button, 8-leg 5.5", Ford Small Block      | <b>19043</b> |

#### Disc Packs

| Description                  | Part Number           |
|------------------------------|-----------------------|
| Disc pack, 2-disc, 26-spline | <b>64140-1-AA-36</b>  |
| Disc pack, 3-disc, 26-spline | <b>64140-1-ABA-36</b> |

#### Clutch Service Parts

| Description                                  | Part Number     |
|--|-----------------|
| Pressure Plate                               | <b>67-118HR</b> |
| Floater Plate                                | <b>67-119</b>   |
| Clutch Bolt Kit (3 or 2 disc with RG spacer) | <b>95-036</b>   |

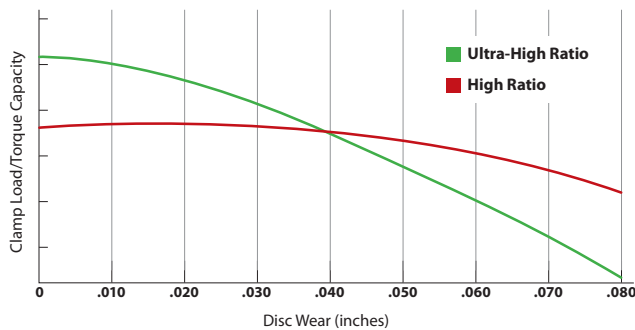




In 1986, Tilton Engineering introduced its first OT-Series clutch. The “open type” design of OT-Series clutches provided lower operating temperatures and cleaner operation when compared to the “closed type” clutches that were the standard at the time.

Today, Tilton OT-Series clutches have grown to become some of the most widely used and successful clutches in racing. On any given weekend, Tilton OT-Series clutches can be found winning races, from the local racetrack to world renowned racing circuits. They have earned a reputation for providing the level quality, performance and reliability needed to win championships.

OT-Series metallic clutches offer the low weight, low inertia, torque capacity and strength needed for the most demanding racing applications. OT-Series clutches are available in 5.5” and 7.25” diameters, with 1 to 4 friction discs and multiple diaphragm spring rate options to suit a wide range of applications.



### High Ratio Pressure Plate

- Standard pressure plate ratio for 5.5” & 7.25” clutches
- Short release travel for quick engagement and shifting
- Flat clamp load curve for longest wear range

### Ultra-High Ratio Pressure Plate

- Optional pressure plate ratio for 7.25” clutches
- 20% more release travel than High Ratio for improved modulation
- 20% more clamp load than High Ratio for higher peak torque capacity
- Clamp load drops more quickly with wear than High Ratio

## Features

*Open, one-piece clutch cover design provides lower operating temperature, high strength and minimal deflection for quick shifting.*

*Chrome vanadium diaphragm springs and an engineered pressure plate geometry provide a high clamp load-to-wear ratio, low release load and quick shifting.*

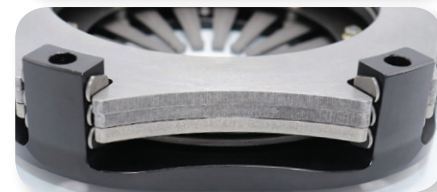
*High-strength steel is used in both the pressure plates and the floater plates.*

*.104”-thick friction disc withstands elevated temperatures while providing low inertia and excellent wear resistance.*

*Hardened steel thrust buttons provide smooth and durable surface for pressure and floater plates.*

*Every Tilton OT clutch is dynamically balanced to ensure the highest level of performance.*

*Each OT clutch is individually inspected for proper assembly and balance, and initialed by the quality personnel as confirmation.*





### Typical Applications

- ▶ Circle Track
- ▶ Road Racing
- ▶ Open Wheel/Formula
- ▶ Drifting
- ▶ Off-Road



### Features

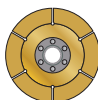
- ▶ Disc Diameter: 7.25" (185mm)
- ▶ Disc Count: 1, 2, 3, 4-disc
- ▶ Pressure Plate Ratios: High, Ultra-High
- ▶ Diaphragm Spring Rates: W, BF, ORA, G, GG, GGG
- ▶ Option: Heavy Duty model features high-mass pressure plate that provides additional heat capacity for severe applications

### Weight & Inertia

| Clutch | Weight<br>(lbs/kg) | Inertia<br>(lb-in <sup>2</sup> /kg-m <sup>2</sup> ) |
|--------|--------------------|---|
| 1 Disc | 5.1/2.3            | 44.1/0130   |
| 2 Disc | 7.5/3.4            | 66.3/0195   |
| 3 Disc | 9.9/4.5            | 87.6/0258   |
| 4 Disc | 10.6/4.8           | 94.6/0278   |

### Clutch Service Parts

| Description                            | Part Number      |
|--|------------------|
| Pressure Plate, High Ratio             | <b>66-118HR</b>  |
| Pressure Plate, Ultra High Ratio       | <b>66-118UHR</b> |
| Pressure Plate, High Ratio, Heavy Duty | <b>66-158HR</b>  |
| Floater Plate                          | <b>66-119</b>    |



See page 19-20 for available clutch disc packs options

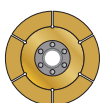
Installation drawing for OT-II 7.25" Metallic Clutches is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



| 1-Disc            | Pressure Plate | Diaphragm Spring | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number |
|-------------------|----------------|------------------|-------------------------------|--------------------------|-------------|
|                   | High           | W                | 200/272                       | 400/180                  | 66-001HW    |
|                   | High           | BF               | 240/326                       | 480/211                  | 66-001HBF   |
|                   | High           | ORA              | 280/381                       | 560/247                  | 66-001HORA  |
|                   | High           | G                | 340/462                       | 680/299                  | 66-001HG    |
|                   | High           | GG               | 380/517                       | 760/334                  | 66-001HGG   |
|                   | Ultra High     | W                | 240/326                       | 400/180                  | 66-001UW    |
|                   | Ultra High     | BF               | 285/388                       | 480/211                  | 66-001UBF   |
|                   | Ultra High     | ORA              | 335/456                       | 560/247                  | 66-001UORA  |
|                   | Ultra High     | G                | 380/517                       | 680/299                  | 66-001UG    |
| Ultra High        | GG             | 455/619          | 760/334                       | 66-001UGG                |             |
| 2-Disc            | Pressure Plate | Diaphragm Spring | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number |
|                   | High           | W                | 400/544                       | 400/180                  | 66-002HW    |
|                   | High           | BF               | 480/652                       | 480/211                  | 66-002HBF   |
|                   | High           | ORA              | 560/762                       | 560/247                  | 66-002HORA  |
|                   | High           | G                | 680/925                       | 680/299                  | 66-002HG    |
|                   | High           | GG               | 760/925                       | 760/334                  | 66-002HGG   |
|                   | Ultra High     | W                | 480/652                       | 400/180                  | 66-002UW    |
|                   | Ultra High     | BF               | 570/775                       | 480/211                  | 66-002UBF   |
|                   | Ultra High     | ORA              | 670/911                       | 560/247                  | 66-002UORA  |
|                   | Ultra High     | G                | 820/1115                      | 680/299                  | 66-002UG    |
| Ultra High        | GG             | 910/1238         | 760/334                       | 66-002UGG                |             |
| 3-Disc            | Pressure Plate | Diaphragm Spring | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number |
|                   | High           | W                | 600/816                       | 400/180                  | 66-003HW    |
|                   | High           | BF               | 720/979                       | 480/211                  | 66-003HBF   |
|                   | High           | ORA              | 840/1142                      | 560/247                  | 66-003HORA  |
|                   | High           | G                | 1020/1387                     | 680/299                  | 66-003HG    |
|                   | High           | GG               | 1140/1550                     | 760/334                  | 66-003HGG   |
|                   | High           | GGG              | 1245/1693                     | 800/330                  | 66-003HGGG  |
|                   | Ultra High     | W                | 720/978                       | 400/180                  | 66-003UW    |
|                   | Ultra High     | BF               | 855/1164                      | 480/211                  | 66-003UBF   |
|                   | Ultra High     | ORA              | 1005/1368                     | 560/247                  | 66-003UORA  |
| Ultra High        | G              | 1140/1551        | 680/299                       | 66-003UG                 |             |
| Ultra High        | GG             | 1365/1857        | 760/334                       | 66-003UGG                |             |
| 3-Disc Heavy Duty | Pressure Plate | Diaphragm Spring | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number |
|                   | High           | ORA              | 840/1142                      | 560/247                  | 66-503HORA  |
|                   | High           | G                | 1020/1387                     | 680/299                  | 66-503HG    |
|                   | High           | GG               | 1140/1550                     | 760/334                  | 66-503HGG   |
|                   | High           | GGG              | 1245/1693                     | 800/352                  | 66-503HGGG  |
| 4-Disc Heavy Duty | Pressure Plate | Diaphragm Spring | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number |
|                   | High           | ORA              | 1120/1523                     | 560/247                  | 66-504HORA  |
|                   | High           | G                | 1360/1850                     | 680/299                  | 66-504HG    |
|                   | High           | GG               | 1520/2067                     | 760/334                  | 66-504HGG   |
| High              | GGG            | 1660/2257        | 800/352                       | 66-504HGGG               |             |

**Notes:**

- Unless noted, clutches are designed for the use with flywheels that have a .100" (2.54mm) step for the friction surface to register the clutch by the ID of the clutch cover legs. Contact Tilton for options available for "pot type" flywheels.
- Weight and inertia values listed include friction discs (sold separately)
- Release load values listed are based on the use of a release bearing with 44mm contact diameter. Larger contact diameter will increase release load.



See page 19-20 for available clutch disc packs options

Installation drawing for OT-II 7.25" Metallic Clutches is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





### Typical Applications

- Road Racing
- Open Wheel/Formula
- Circle Track
- Endurance

### Features

- Disc Diameter: 5.5" (140mm)
- Disc Count: 1, 2, 3, 4-disc
- Pressure Plate Ratios: High
- High Diaphragm Spring Rates: W, ORA, G
- Option: Heavy Duty model features high-mass pressure plate that provides additional heat capacity for severe applications.

### Weight & Inertia

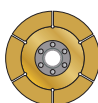
| Clutch            | Weight<br>(lbs/kg) | Inertia<br>(lb-in <sup>2</sup> /kg-m <sup>2</sup> ) |
|-------------------|--------------------|---|
| 1 Disc            | 4.1/1.9            | 19.5/0057   |
| 2 Disc            | 5.7/2.6            | 29.8/0087   |
| 3 Disc            | 7.3/3.3            | 40.1/0118   |
| 3 Disc Heavy Duty | 7.7/3.5            | 42.4/0125   |
| 4 Disc            | 8.9/4.0            | 50.4/0148   |
| 4 Disc Heavy Duty | 9.3/4.2            | 52.7/0154   |



### Clutch Service Parts

| Description                            | Part Number      |
|--|------------------|
| Pressure Plate, High Ratio             | <b>67-118HR</b>  |
| Pressure Plate, High Ratio, Heavy Duty | <b>67-158HR*</b> |
| Floater Plate                          | <b>67-119</b>    |
| Floater Plate, Heavy Duty              | <b>67-159*</b>   |

*\*Only fits Heavy Duty version of 5.5" clutches. Cannot be installed into standard 5.5" clutches.*



See page 21-22 for available clutch disc packs options

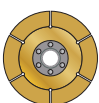
Installation drawing for OT-III 5.5" Metallic Clutches is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



| 1-Disc               | Pressure Plate | Diaphragm Spring | Flywheel Type | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number       |
|----------------------|----------------|------------------|---------------|-------------------------------|--------------------------|-------------------|
|                      | High           | W                | Step          | 150/204                       | 480/211                  | <b>67-001HW</b>   |
|                      | High           | ORA              | Step          | 200/272                       | 510/225                  | <b>67-001HORA</b> |
|                      | High           | G                | Step          | 250/340                       | 850/375                  | <b>66-001HG</b>   |
| 2-Disc               | Pressure Plate | Diaphragm Spring | Flywheel Type | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number       |
|                      | High           | W                | Step          | 300/408                       | 480/211                  | <b>67-002HW</b>   |
|                      | High           | ORA              | Step          | 400/544                       | 510/225                  | <b>67-002HORA</b> |
|                      | High           | G                | Step          | 500/680                       | 850/375                  | <b>66-002HG</b>   |
| 3-Disc               | Pressure Plate | Diaphragm Spring | Flywheel Type | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number       |
|                      | High           | W                | Step          | 450/612                       | 480/211                  | <b>67-003HW</b>   |
|                      | High           | W                | Pot           | 450/612                       | 480/211                  | <b>67-013HW</b>   |
|                      | High           | ORA              | Step          | 600/816                       | 600/816                  | <b>67-003HORA</b> |
|                      | High           | ORA              | Pot           | 600/816                       | 600/816                  | <b>67-013HORA</b> |
|                      | High           | G                | Step          | 750/1020                      | 850/375                  | <b>67-003HG</b>   |
|                      | High           | G                | Pot           | 750/1020                      | 850/375                  | <b>67-013HG</b>   |
| 3-Disc<br>Heavy Duty | Pressure Plate | Diaphragm Spring | Flywheel Type | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number       |
|                      | High           | W                | Step          | 450/612                       | 480/211                  | <b>67-503HW</b>   |
|                      | High           | W                | Pot           | 450/612                       | 480/211                  | <b>67-513HW</b>   |
|                      | High           | ORA              | Step          | 600/816                       | 510/225                  | <b>67-503HORA</b> |
|                      | High           | ORA              | Pot           | 600/816                       | 510/225                  | <b>67-513HORA</b> |
|                      | High           | G                | Step          | 750/1020                      | 850/375                  | <b>67-503HG</b>   |
|                      | High           | G                | Pot           | 750/1020                      | 850/375                  | <b>67-513HG</b>   |
| 4-Disc               | Pressure Plate | Diaphragm Spring | Flywheel Type | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number       |
|                      | High           | ORA              | Step          | 800/1088                      | 510/225                  | <b>67-004HORA</b> |
|                      | High           | ORA              | Pot           | 800/1088                      | 510/225                  | <b>67-014HORA</b> |
|                      | High           | G                | Step          | 1000/1360                     | 850/375                  | <b>67-004HG</b>   |
|                      | High           | G                | Pot           | 1000/1360                     | 850/375                  | <b>67-014HG</b>   |
| 4-Disc<br>Heavy Duty | Pressure Plate | Diaphragm Spring | Flywheel Type | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number       |
|                      | High           | ORA              | Step          | 800/1088                      | 510/225                  | <b>67-504HORA</b> |
|                      | High           | ORA              | Pot           | 800/1088                      | 510/225                  | <b>67-514HORA</b> |
|                      | High           | G                | Step          | 1000/1360                     | 850/375                  | <b>67-504HG</b>   |
|                      | High           | G                | Pot           | 1000/1360                     | 850/375                  | <b>67-514HG</b>   |

**Notes:**

- Unless noted, clutches are designed for the use with flywheels that have a .100" (2.54mm) step for the friction surface to register the clutch by the ID of the clutch cover legs. Contact Tilton for options available for "pot type" flywheels.
- Weight and inertia values listed include friction discs (sold separately)
- Release load values listed are based on the use of a release bearing with 38mm contact diameter. Larger contact diameter will increase release load.



See page 21-22 for available clutch disc packs options

Installation drawing for OT-III 5.5" Metallic Clutches is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



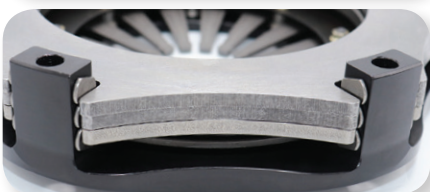
## Features



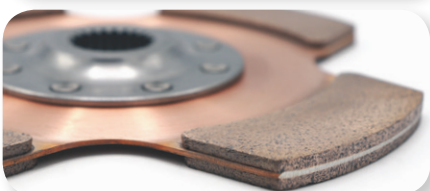
Open, one-piece clutch cover design provides lower operating temperature, high strength and minimal deflection for quick shifting.



Chrome vanadium diaphragm springs and an engineered pressure plate geometry provide a high clamp load-to-wear ratio, low release load and quick shifting.



High-strength steel is used in both the pressure plates and the floaters plates.



.283"-thick friction disc withstands elevated temperatures while providing low inertia and excellent wear resistance.



Hardened steel thrust buttons provide smooth and durable surface for pressure and floater plates.



Every Tilton OT clutch is dynamically balanced to ensure the highest level of performance.

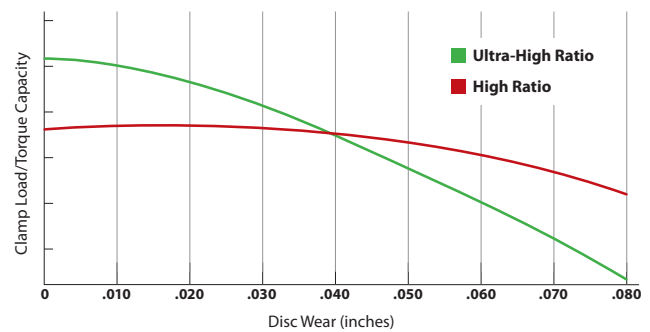


Each OT clutch is individually inspected for proper assembly and balance, and initialed by the quality personnel as confirmation.



Tilton OT-Series ceramic metallic clutches share many of the same features with OT-Series metallic clutches, but feature thicker friction discs that utilize a unique blend of ceramic and metallic materials. The engagement characteristics of the ceramic metallic discs provide smoother engagement characteristics than metallic discs, making them a good choice for applications that require some clutch modulation (such as rally, hill climb and autocross). In addition, the thicker friction discs provide a higher heat capacity than metallic discs due to the increased mass they provide.

OT-Series ceramic metallic clutches offer the low weight, low inertia, torque capacity and the strength needed for the most demanding racing applications. OT-Series ceramic metallic clutches are available in 7.25" diameter, with 1 or 2 friction discs and multiple diaphragm spring rate options to suit a wide range of applications.



### High Ratio Pressure Plate

- Short release travel for quick engagement and shifting
- Flat clamp load curve for longest wear range

### Ultra-High Ratio Pressure Plate

- 20% more release travel than High Ratio for improved modulation
- 20% more clamp load than High Ratio for higher peak torque capacity
- Clamp load drops more quickly with wear than High Ratio



## Features

- ▶ Disc Diameter: 7.25" (185mm)
- ▶ Disc Count: 1, 2-disc
- ▶ Pressure Plate Ratios: High, Ultra-High
- ▶ Diaphragm Spring Rates: W, BF, ORA, G, GG, GGG

## Weight & Inertia

| Clutch | Weight (lbs/kg) | Inertia (lb-in <sup>2</sup> /kg-m <sup>2</sup> ) |
|--------|-----------------|--|
| 1 Disc | 5.6/2.5         | 52.4/.0154                                       |
| 2 Disc | 8.2/3.7         | 76.3/.0225                                       |

## Typical Applications

- ▶ Rally
- ▶ Club Racing
- ▶ Road Racing
- ▶ Import Drag Racing
- ▶ Off-Road

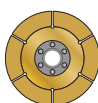
## Clutch Service Parts

| Description                      | Part Number        |
|----------------------------------|--------------------|
| Pressure Plate, High Ratio       | <b>66-118HR-R</b>  |
| Pressure Plate, Ultra High Ratio | <b>66-118UHR-R</b> |
| Floater Plate                    | <b>66-119</b>      |

|            | Pressure Plate | Diaphragm Spring | Torque Capacity (lb-ft/Nm) | Release Load (lb/daN) | Part Number       |
|------------|----------------|------------------|----------------------------|-----------------------|-------------------|
|            | 1-Disc         | High             | W                          | 200/272               | 400/180           |
| High       |                | BF               | 240/326                    | 480/211               | <b>66-301HBF</b>  |
| High       |                | ORA              | 280/381                    | 560/247               | <b>66-301HORA</b> |
| High       |                | G                | 340/462                    | 680/299               | <b>66-301HG</b>   |
| High       |                | GG               | 380/517                    | 760/334               | <b>66-301HGG</b>  |
| Ultra High |                | W                | 240/326                    | 400/180               | <b>66-301UW</b>   |
| Ultra High |                | BF               | 285/388                    | 480/211               | <b>66-301UBF</b>  |
| Ultra High |                | ORA              | 335/456                    | 560/247               | <b>66-301UORA</b> |
| Ultra High |                | G                | 380/517                    | 680/299               | <b>66-301UG</b>   |
| Ultra High |                | GG               | 455/619                    | 760/334               | <b>66-301UGG</b>  |
|            | Pressure Plate | Diaphragm Spring | Torque Capacity (lb-ft/Nm) | Release Load (lb/daN) | Part Number       |
|            | 2-Disc         | High             | W                          | 400/544               | 400/180           |
| High       |                | BF               | 480/652                    | 480/211               | <b>66-302HBF</b>  |
| High       |                | ORA              | 560/762                    | 560/247               | <b>66-302HORA</b> |
| High       |                | G                | 680/925                    | 680/299               | <b>66-302HG</b>   |
| High       |                | GG               | 760/925                    | 760/334               | <b>66-302HGG</b>  |
| Ultra High |                | W                | 480/652                    | 400/180               | <b>66-302UW</b>   |
| Ultra High |                | BF               | 570/775                    | 480/211               | <b>66-302UBF</b>  |
| Ultra High |                | ORA              | 670/911                    | 560/247               | <b>66-302UORA</b> |
| Ultra High |                | G                | 820/1115                   | 680/299               | <b>66-302UG</b>   |
| Ultra High |                | GG               | 910/1238                   | 760/334               | <b>66-302UGG</b>  |

### Notes:

- Unless noted, clutches are designed for the use with flywheels that have a .100" (2.54mm) step for the friction surface to register the clutch by the ID of the clutch cover legs.
- Weight and inertia values listed include friction discs (sold separately)
- Release load values listed are based on the use of a release bearing with 44mm contact diameter. Larger contact diameter will increase release load.



See page 18 for available clutch disc packs options

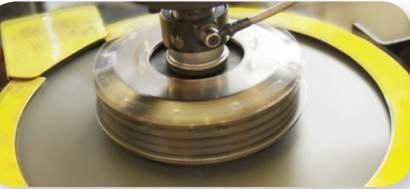
Installation drawing for OT-II 7.25" Ceramic Metallic Clutches is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



## Features



Open, one-piece clutch cover design provides lower operating temperature, high strength and minimal deflection for quick shifting.



Individually clamp-load and dyno-tested before shipping.



Each clutch is assigned a unique serial number to clutch history through the Tilton database.



Steel pressure plate/shims are available in varying thicknesses, enabling customers to service clutches as carbon stack wears.

### Pressure Plate Options

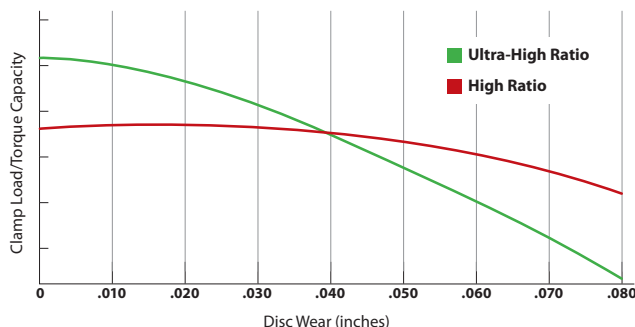
OT-Series carbon/carbon clutches are available in 4.5", 5.5" & 7.25" diameters, with 1 to 4 discs and multiple diaphragm spring rate options to suit a wide range of applications.

#### High Ratio Pressure Plate

- Standard pressure plate ratio for 4.5"/5.5" carbon clutches
- Short release travel for quick engagement and shifting
- Flat clamp load curve for longest wear range

#### Ultra-High Ratio Pressure Plate

- Optional pressure plate ratio for 5.5" carbon clutches.
- Standard pressure plate ratio for 7.25" carbon clutches.
- 20% more release travel than High Ratio for improved modulation
- 20% more clamp load than High Ratio for higher peak torque capacity
- Clamp load drops more quickly with wear than High Ratio



Tilton Engineering invented the carbon/carbon racing clutch and patented the drive system in the mid-80's. It was the first carbon/carbon clutch ever to win a Formula One Grand Prix (Ayrton Senna's Lotus-Honda at the 1987 US Grand Prix in Detroit). Since then, Tilton OT-Series carbon clutches have been continually refined to be the best on the market.

**Utilizing the experience Tilton has gained over the 40 plus years,** OT-Series carbon/carbon clutches have evolved to be second to none in quality. Each is built using the finest materials and the latest manufacturing processes while holding to strict quality control standards. As part of their build process, OT-Series carbon clutches are rigorously tested and documented before being delivered to the customer.

Tilton OT-Series carbon clutches offer a unique combination of an extremely low inertia, high torque capacity, high heat capacity and smooth engagement characteristics. Because of these features, they can be found used in road racing, endurance racing, off-road and high-performance street applications.

The carbon matrix plates (driven & floater) do not warp from heat, providing consistent shifting and minimizing heat-related clutch failures. The smooth engagement characteristics of the carbon plates provide good drivability and reduce "shock" to other driveline components. Through the use of additional pressure plates (shims) and periodic rebuilds, OT-Series carbon/carbon clutches offer long life under extreme-performance conditions.





## Features

- ▶ Disc Diameter: 7.25" (185mm)
- ▶ Disc Count: 2, 3, 4-disc
- ▶ Pressure Plate Ratios: Ultra-High
- ▶ Diaphragm Spring Rates: ORA, G, GG, GGG

## Weight & Inertia

| Clutch | Weight (lbs/kg) | Inertia (lb-in <sup>2</sup> /kg-m <sup>2</sup> ) |
|--------|-----------------|--|
| 2 Disc | 6.2/2.8         | 52.8/.0155                                       |
| 3 Disc | 7.6/3.4         | 63.7/.0186                                       |
| 4 Disc | 9.1/4.1         | 74.9/.0219                                       |

## Typical Applications

- ▶ Road Racing
- ▶ Endurance
- ▶ Rally/Rallycross
- ▶ Extreme Street
- ▶ Hill Climb
- ▶ Short Course Off-Road

| 2-Disc | Diaphragm Spring | Torque Capacity (lb-ft/Nm) | Release Load (lb/daN) | Part Number (Step-type Flywheel) | Part Number (Pot-type Flywheel) |
|--------|------------------|----------------------------|-----------------------|----------------------------------|---------------------------------|
|        | ORA              | 670/911                    | 560/247               | 6572USORA-S                      | 6572USORA-P                     |
|        | G                | 820/1115                   | 680/299               | 6572USG-S                        | 6572USG-P                       |
|        | GG               | 910/1238                   | 760/334               | 6572USGG-S                       | 6572USGG-P                      |
|        | GGG              | 990/1347                   | 800/352               | 6572USGGG-S                      | 6572USGGG-P                     |
| 3-Disc | Diaphragm Spring | Torque Capacity (lb-ft/Nm) | Release Load (lb/daN) | Part Number (Step-type Flywheel) | Part Number (Pot-type Flywheel) |
|        | ORA              | 1005/1367                  | 560/247               | 6573USORA-S                      | 6573USORA-P                     |
|        | G                | 1230/1673                  | 680/299               | 6573USG-S                        | 6573USG-P                       |
|        | GG               | 1365/1856                  | 760/334               | 6573USGG-S                       | 6573USGG-P                      |
|        | GGG              | 1485/2020                  | 800/352               | 6573USGGG-S                      | 6573USGGG-P                     |
| 4-Disc | Diaphragm Spring | Torque Capacity (lb-ft/Nm) | Release Load (lb/daN) | Part Number (Step-type Flywheel) | Part Number (Pot-type Flywheel) |
|        | ORA              | 1340/1823                  | 560/247               | 6574USORA-S                      | 6574USORA-P                     |
|        | G                | 1640/2230                  | 680/299               | 6574USG-S                        | 6574USG-P                       |
|        | GG               | 1820/2475                  | 760/334               | 6574USGG-S                       | 6574USGG-P                      |
|        | GGG              | 1980/2693                  | 800/352               | 6574USGGG-S                      | 6574USGGG-P                     |

### Notes:

- Clutch includes .360" pressure plate and drive hub (designate spline size when ordering)
- Release load values listed are based on the use of a release bearing with 44mm contact diameter. Larger contact diameter will increase release load.

### Pressure Plates (wear compensating shims)

Tilton offers a range of pressure plate thickness that are designed to compensate for carbon stack wear and maintain optimal clutch torque capacity. Pressure plates are available in .010" increments, .360" to .500" thick. For a list of parts numbers, please visit [www.tiltonracing.com/product/7-25-inch-carbon-clutch-pressure-plates](http://www.tiltonracing.com/product/7-25-inch-carbon-clutch-pressure-plates).

Installation drawing for OT-II 7.25" Carbon/Carbon Clutches is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





## Features

- ▶ Disc Diameter: 5.5" (185mm)
- ▶ Disc Count: 2, 3, 4-Disc
- ▶ Pressure Plate Ratios: High, Ultra-High
- ▶ Diaphragm Spring Rates: ORA, G

## Weight & Inertia

| Clutch | Weight<br>(lbs/kg) | Inertia<br>(lb-in <sup>2</sup> /kg-m <sup>2</sup> ) |
|--------|--------------------|---|
| 2 Disc | 3.7/1.7            | 17.8/0052   |
| 3 Disc | 4.4/2.0            | 22.0/0065   |
| 4 Disc | 5.2/2.3            | 25.3/0074   |

## Typical Applications

- ▶ Road Racing
- ▶ Endurance
- ▶ Open Wheel/Formula

|     | Diaphragm Spring | Pressure Plate Ratio | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number<br>(Step-type Flywheel) | Part Number<br>(Pot-type Flywheel) |
|-----|------------------|----------------------|-------------------------------|--------------------------|-------------------------------------|------------------------------------|
|     | 2-Disc           | ORA                  | High                          | 400/272                  | 480/211                             | <b>6552HSORA-S</b>                 |
| G   |                  | High                 | 500/680                       | 850/375                  | <b>6552HSG-S</b>                    | <b>6552HSG-P</b>                   |
| ORA |                  | Ultra High           | 480/652                       | 480/211                  | <b>6552USORA-S</b>                  | <b>6552USORA-P</b>                 |
| G   |                  | Ultra High           | 600/816                       | 850/375                  | <b>6552USG-S</b>                    | <b>6552USG-P</b>                   |
|     | Diaphragm Spring | Pressure Plate Ratio | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number<br>(Step-type Flywheel) | Part Number<br>(Pot-type Flywheel) |
|     | 3-Disc           | ORA                  | High                          | 600/816                  | 480/211                             | <b>6553HSORA-S</b>                 |
| G   |                  | High                 | 750/928                       | 850/375                  | <b>6553HSG-S</b>                    | <b>6553HSG-P</b>                   |
| ORA |                  | Ultra High           | 720/928                       | 480/211                  | <b>6553USORA-S</b>                  | <b>6553USORA-P</b>                 |
| G   |                  | Ultra High           | 900/1224                      | 850/375                  | <b>6553USG-S</b>                    | <b>6553USG-P</b>                   |
|     | Diaphragm Spring | Pressure Plate Ratio | Torque Capacity<br>(lb-ft/Nm) | Release Load<br>(lb/daN) | Part Number<br>(Step-type Flywheel) | Part Number<br>(Pot-type Flywheel) |
|     | 4-Disc           | ORA                  | High                          | 800/1088                 | 480/211                             | <b>6554HSORA-S</b>                 |
| G   |                  | High                 | 1000/1360                     | 850/375                  | <b>6554HSG-S</b>                    | <b>6554HSG-P</b>                   |
| ORA |                  | Ultra High           | 960/1324                      | 480/211                  | <b>6554USORA-S</b>                  | <b>6554USORA-P</b>                 |
| G   |                  | Ultra High           | 1200/1632                     | 850/375                  | <b>6554USG-S</b>                    | <b>6554USG-P</b>                   |

### Notes:

- Clutch includes .187" pressure plate and drive hub (designate spline size when ordering)
- Release load values listed are based on the use of a release bearing with 38mm contact diameter. Larger contact diameter will increase release load.

### Pressure Plates (wear compensating shims)

Tilton offers a range of pressure plate thickness that are designed to compensate for carbon stack wear and maintain optimal clutch torque capacity. Pressure plates are available in .010" increments, .187" to .307" thick. For a list of parts numbers, please visit [www.tiltonracing.com/product/5-5-inch-carbon-clutch-pressure-plates](http://www.tiltonracing.com/product/5-5-inch-carbon-clutch-pressure-plates).

Installation drawing for OT-III 5.5" Carbon/Carbon Clutches is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





## Features

- ▶ Disc Diameter: 4.5" (114mm)
- ▶ Disc Count: 3, 4-disc
- ▶ Pressure Plate Ratios: High
- ▶ Diaphragm Spring Rates: G

## Weight & Inertia

| Clutch | Weight (lbs/kg) | Inertia (lb-in <sup>2</sup> /kg-m <sup>2</sup> ) |
|--------|-----------------|--|
| 3 Disc | 3.2/1.5         | 12.3/.0036                                       |
| 4 Disc | 3.8/1.8         | 13.0/.0038                                       |

## Typical Applications

- ▶ Road Racing
- ▶ Open Wheel/Formula

| 3-Disc    | Flywheel Type | Pressure Plate Ratio | Torque Capacity (lb-ft/Nm) | Release Load (lb/daN) | Part Number      |
|-----------|---------------|----------------------|----------------------------|-----------------------|------------------|
|           | Pot-type      | High                 | 690/938                    | 800/352               | <b>6513HSG-P</b> |
| Step-type | High          | 690/938              | 800/352                    | <b>6513HSG-S</b>      |                  |
| 4-Disc    | Flywheel Type | Pressure Plate Ratio | Torque Capacity (lb-ft/Nm) | Release Load (lb/daN) | Part Number      |
|           | Pot-type      | High                 | 920/1251                   | 800/352               | <b>6514HSG-P</b> |
| Step-type | High          | 920/1251             | 800/352                    | <b>6514HSG-S</b>      |                  |

### Notes:

- Clutch includes .160" pressure plate and drive hub (designate spline size when ordering)
- Release load values listed are based on the use of a release bearing with 38mm contact diameter. Larger contact diameter will increase release load.

### Pressure Plates (wear compensating shims)

Tilton offers a range of pressure plate thickness that are designed to compensate for carbon stack wear and maintain optimal clutch torque capacity. Pressure plates are available in .010" increments, .160" to .310" thick.

| Thickness | Part Number   | Thickness | Part Number   |
|-----------|---------------|-----------|---------------|
| .160"     | 651-118H-160S | .240"     | 651-118H-240S |
| .170"     | 651-118H-170S | .250"     | 651-118H-250S |
| .180"     | 651-118H-180S | .260"     | 651-118H-260S |
| .190"     | 651-118H-190S | .270"     | 651-118H-270S |
| .200"     | 651-118H-200S | .280"     | 651-118H-280S |
| .210"     | 651-118H-210S | .290"     | 651-118H-290S |
| .220"     | 651-118H-220S | .300"     | 651-118H-300S |
| .230"     | 651-118H-230S | .310"     | 651-118H-310S |

Installation drawing for OT-V 4.5" Carbon/Carbon Clutches is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



Tilton Engineering offers a large selection of disc packs for OT-Series clutches. Every Tilton disc pack benefits from over 30 years of experience in friction material testing and development. The result is disc packs that offer the highest levels of performance and durability.

The proceeding pages contains information on disc packs for popular applications. Due to the wide variety of transmission input fast size and lengths, disc pack configurations can vary significantly with multi-plate clutches. If you do not see your application listed, please contact Tilton Engineering for information and part numbers.

## Part Number System

Example:

# 64185-2-ABA-36

Product Class

Disc Diameter

Material Type

Hub Configuration

Spline Size

### Disc Diameter:

140 = 140mm (5.5")

185 = 185mm (7.25")

### Friction Material/Type:

2 = 7.25" sintered metallic full-circle disc (6-rivet hub)

3 = 5.5" & 7.25" sintered metallic paddle-type disc

4 = 7.25" sintered ,metallic full circle disc (8-rivet hub)

8 = 7.25" cerametallic paddle-type disc

9 = 5.5" sintered metallic full-circle disc

### Hub Type:

A = Outer hub, 6-rivet, .375" thick

B = Inner hub, 6-rivet, .375" thick

C = Inner hub, rivet, .250" thick

F = Long hub, 6-rivet, .550" thick (1-disc clutches only)

H = Outer hub, nested 12-rivet

J = Inner hub, nested, 12-rivet

R = Inner hub, 8-rivet, .250" thick

T = Inner Hub, 8-rivet, .375" thick

V = Outer hub, 8-rivet, .375" thick

W = Long hub, 8-rivet, .550" thick (1-disc clutches only)

### Spline Size (# teeth x diameter)

03 = 10 x 7/8"

18 = 18 x 25/32"

36 = 24 x 1" x 30°

04 = 10 x 1"

19 = 18 x 1 3/16"

38 = 24 x 26mm

05 = 10 x 1 1/16"

25 = 20 x 7/8"

39 = 28 x 7/8"

06 = 10 x 1 1/8"

26 = 21 x 29/32"

41 = 23 x 24mm x 25°

07 = 10 x 1 1/4"

27 = 21 x 24mm

42 = 22 x 15/16"

08 = 10 x 1 3/8"

28 = 21 x 29mm

47 = 24 x 15/16"

10 = 10 x 29mm

29 = 22 x 1"

51 = 22 x 29.4mm

12 = 14x 25mm

30 = 23 x 1" x 30°

52 = 10 x 35mm

14 = 14 x 30.8"

32 = 24 x 13/16"

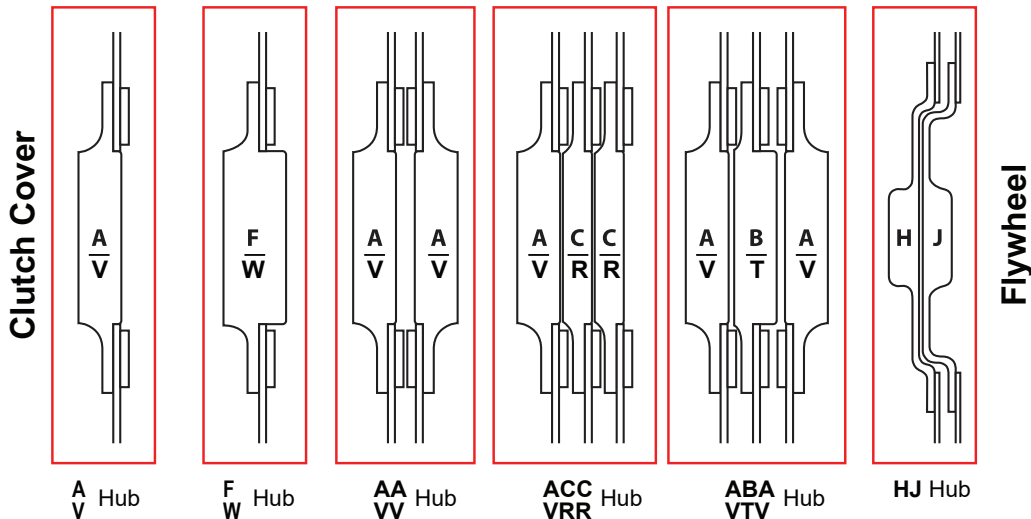
55 = 26 x 35mm

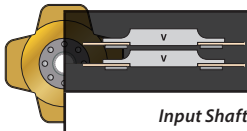
17 = 18 x 21mm

33 = 24 x 1" x 27.5°

58 = 29 x 1 1/4"

## Hub Configuration:

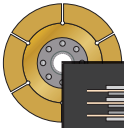




## "Back-to-Back" Hub Configuration


**PADDLE | 8-rivet**


| <i>Input Shaft Size (# of teeth x diameter)</i> | <i>1-plate</i> | <i>2-plate</i> |
|---|----------------|----------------|
| 10 x 7/8"                                       | 64185-8-V-03   | 64185-8-VV-03  |
| 10 x 1"   | 64185-8-V-04   | 64185-8-VV-04  |
| 10 x 1 1/16"                                    | 64185-8-V-05   | 64185-8-VV-05  |
| 10 x 1 1/8"                                     | 64185-8-V-06   | 64185-8-VV-06  |
| 10 x 1 3/8"                                     | 64185-8-V-08   | 64185-8-VV-08  |
| 10 x 29mm                                       | 64185-8-V-10   | 64185-8-VV-10  |
| 10 x 35mm                                       | 64185-8-V-52   | 64185-8-VV-52  |
| 14 x 25mm                                       | 64185-8-V-12   | 64185-8-VV-12  |
| 14 x 30.8mm                                     | 64185-8-V-14   | 64185-8-VV-14  |
| 18 x 1 3/16"                                    | 64185-8-V-19   | 64185-8-VV-19  |
| 20 x 7/8"                                       | 64185-8-W-25   | 64185-8-VV-25  |
| 21 x 29/32"                                     | 64185-8-V-26   | 64185-8-VV-26  |
| 21 x 24mm                                       | 64185-8-V-27   | 64185-8-VV-27  |
| 21 x 29mm                                       | 64185-8-V-28   | 64185-8-VV-28  |
| 22 x 15/16"                                     | 64185-8-V-42   | 64185-8-VV-42  |
| 22 x 1"   | 64185-8-V-29   | 64185-8-VV-29  |
| 22 x 29.4mm                                     | 64185-8-V-51   | 64185-8-VV-51  |
| 23 x 1" x 30 degree                             | 64185-8-W-30   | 64185-8-VV-30  |
| 23 x 24mm x 25 degree                           | 64185-8-V-41   | 64185-8-VV-41  |
| 24 x 13/16"                                     | 64185-8-V-32   | 64185-8-VV-32  |
| 24 x 15/16"                                     | 64185-8-V-47   | 64185-8-VV-47  |
| 24 x 1 x 27.5 degree (early Nissan)             | 64185-8-V-33   | 64185-8-VV-33  |
| 24 x 1 x 30 degree (late Nissan)                | 64185-8-V-57   | 64185-8-VV-57  |
| 24 x 26mm                                       | 64185-8-V-38   | 64185-8-VV-38  |
| 26 x 1 5/32"                                    | 64185-8-W-36   | 64185-8-VV-36  |
| 26 x 35mm                                       | 64185-8-V-55   | 64185-8-VV-55  |
| 29 x 1 1/4"                                     | 64185-8-V-58   | 64185-8-VV-58  |



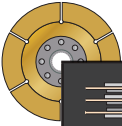
Standard disc that is suitable for most applications.  
Six friction pads provide maximum surface area for low wear rate and high heat capacity

FULL CIRCLE | 6-rivet

|  <b>"Back-to-Back" Hub Configuration</b> |                |                |                |
|---|----------------|----------------|----------------|
| <i>Input Shaft Size (# of teeth x diameter)</i>   | <i>1-plate</i> | <i>2-plate</i> | <i>3-plate</i> |
| 10 x 7/8"   | 64185-2-A-03   | 64185-2-AA-03  | N/A            |
| 10 x 1"   | 64185-2-A-04   | 64185-2-AA-04  | N/A            |
| 10 x 1 1/4"   | 64185-2-A-07   | 64185-2-AA-07  | N/A            |
| 10 x 1 1/8"   | 64185-2-A-06   | 64185-2-AA-06  | 64185-2-ABA-06 |
| 10 x 1 3/8"   | 64185-2-A-08   | 64185-2-AA-08  | 64185-2-ABA-08 |
| 10 x 29mm   | 64185-2-A-10   | 64185-2-AA-10  | 64185-2-ABA-10 |
| 10 x 35mm   | 64185-2-A-52   | 64185-2-AA-52  | 64185-2-ABA-52 |
| 14 x 25mm   | 64185-2-A-12   | 64185-2-AA-12  | N/A            |
| 14 x 30.8mm   | 64185-2-A-14   | 64185-2-AA-14  | 64185-2-ABA-14 |
| 18 x 21mm   | 64185-2-A-17   | 64185-2-AA-17  | N/A            |
| 18 x 1 3/16"  | 64185-2-A-19   | 64185-2-AA-19  | 64185-2-ABA-19 |
| 20 x 7/8"   | 64185-2-F-25   | 64185-2-AA-25  | 64185-2-ABA-25 |
| 21 x 29/32"   | 64185-2-A-26   | 64185-2-AA-26  | 64185-2-ABA-26 |
| 21 x 24mm   | 64185-2-A-27   | 64185-2-AA-27  | N/A            |
| 21 x 29mm   | 64185-2-A-28   | 64185-2-AA-28  | 64185-2-ABA-28 |
| 22 x 15/16"   | 64185-2-A-42   | 64185-2-AA-42  | N/A            |
| 22 x 1"   | 64185-2-A-29   | 64185-2-AA-29  | 64185-2-ABA-29 |
| 22 x 29.4mm   | 64185-2-A-51   | 64185-2-AA-51  | 64185-2-ABA-51 |
| 23 x 1" x 30 degree   | 64185-2-F-30   | 64185-2-AA-30  | 64185-2-ABA-30 |
| 23 x 24mm x 25 degree   | 64185-2-A-41   | 64185-2-AA-41  | 64185-2-ABA-41 |
| 24 x 13/16"   | 64185-2-A-32   | 64185-2-AA-32  | N/A            |
| 24 x 15/16"   | 64185-2-A-47   | 64185-2-AA-47  | N/A            |
| 24 x 1 x 27.5 degree (early Nissan)   | 64185-2-A-33   | 64185-2-AA-33  | 64185-2-ABA-33 |
| 24 x 1 x 30 degree (late Nissan)  | 64185-2-A-57   | 64185-2-AA-57  | 64185-2-ABA-57 |
| 24 x 26mm   | 64185-2-A-38   | 64185-2-AA-38  | N/A            |
| 26 x 1 5/32"  | 64185-2-A-36   | 64185-2-AA-36  | 64185-2-ABA-36 |
| 26 x 35mm   | 64185-2-A-55   | 64185-2-AA-55  | 64185-2-ABA-55 |
| 28 x 7/8"   | 64185-2-A-39   | 64185-2-AA-39  | N/A            |
| 29 x 1 1/4"   | 64185-2-A-58   | 64185-2-AA-58  | 64185-2-ABA-58 |

|  <b>"Stacked" Hub Configuration</b> |                |                |                |
|--|----------------|----------------|----------------|
| <i>Input Shaft Size (# of teeth x diameter)</i>  | <i>1-plate</i> | <i>2-plate</i> | <i>3-plate</i> |
| 10 x 1 1/16"   | 64185-2-A-05   | 64185-2-AC-05  | 64185-2-ACC-05 |
| 10 x 35 mm   | 64185-2-A-52   | 64185-2-AC-52  | 64185-2-ACC-52 |
| 10 x 29mm  | 64185-2-A-10   | 64185-2-AC-10  | 64185-2-ACC-10 |
| 18 x 25/32"  | 64185-2-A-18   | 64185-2-AC-18  | 64185-2-ACC-18 |
| 20 x 7/8"  | 64185-2-F-25   | 64185-2-AC-25  | 64185-2-ACC-25 |
| 21 x 29/32"  | 64185-2-A-26   | 64185-2-AC-26  | 64185-2-ACC-26 |
| 23 x 1" x 30 degree  | 64185-2-F-30   | 64185-2-AC-30  | 64185-2-ACC-30 |
| 23 x 24mm x 25 degree  | 64185-2-A-41   | 64185-2-AC-41  | 64185-2-ACC-41 |
| 24 x 13/16"  | 64185-2-A-32   | 64185-2-AC-32  | 64185-2-ACC-32 |
| 24 x 1" (late Nissan)  | 64185-2-A-57   | 64185-2-AC-57  | 64185-2-ACC-57 |
| 26 x 22mm  | 64185-2-A-35   | 64185-2-AC-35  | 64185-2-ACC-35 |
| 26 x 1 5/32"   | 64185-2-A-36   | 64185-2-AC-36  | 64185-2-ACC-36 |
| 26 x 35mm  | 64185-2-A-55   | 64185-2-AC-55  | 64185-2-ACC-55 |

Feature 8-rivet hubs on a larger BCD for additional attachment strength for the most demanding applications.



FULL CIRCLE | 8-rivet

**"Back-to-Back" Hub Configuration**

| Input Shaft Size (# of teeth x diameter) | 1-plate      | 2-plate       | 3-plate        | 4-plate |
|--|--------------|---------------|----------------|---------|
| 10 x 1 1/8"                              | 64185-4-V-06 | 64185-4-VV-06 | 64185-4-VTV-06 | N/A     |
| 10 x 29mm                                | 64185-4-V-10 | 64185-4-VV-10 | 64185-4-VTV-10 | N/A     |
| 10 x 35mm                                | 64185-4-V-52 | 64185-4-VV-52 | 64185-4-VTV-52 | N/A     |
| 20 x 7/8"                                | 64185-4-V-25 | 64185-4-VV-25 | 64185-4-VTV-25 | N/A     |
| 23 x 1" x 30 degree                      | 64185-4-W-30 | 64185-4-VV-30 | 64185-4-VTV-30 | N/A     |
| 23 x 24mm x 25 degree                    | 64185-4-V-41 | 64185-4-VV-41 | N/A            | N/A     |
| 26 x 1 5/32"                             | 64185-4-V-36 | 64185-4-VV-36 | 64185-4-VTV-36 | N/A     |
| 26 x 35mm                                | 64185-4-V-55 | 64185-4-VV-55 | 64185-4-VTV-55 | N/A     |
| 29 x 1 1/4"                              | 64185-4-V-58 | 64185-4-VV-58 | 64185-4-VTV-58 | N/A     |

**"Stacked" Hub Configuration**

| Input Shaft Size (# of teeth x diameter) | 1-plate      | 2-plate       | 3-plate        | 4-plate         |
|--|--------------|---------------|----------------|-----------------|
| 10 x 1 1/8"                              | 64185-4-V-06 | 64185-4-VR-06 | 64185-4-VRR-06 | N/A             |
| 10 x 29mm                                | 64185-4-V-10 | 64185-4-VR-10 | 64185-4-VRR-10 | N/A             |
| 14 X 30.8mm                              | 64185-4-V-14 | 64185-4-VR-14 | 64185-4-VRR-14 | 64185-4-VRRR-14 |
| 23 x 1" x 30 degree                      | 64185-4-W-30 | 64185-4-VR-30 | 64185-4-VRR-30 | 64185-4-VRRR-30 |
| 23 x 24mm x 25 degree                    | 64185-4-V-41 | 64185-4-VR-41 | 64185-4-VRR-41 | N/A             |
| 26 x 1 5/32"                             | 64185-4-V-36 | 64185-4-VR-36 | 64185-4-VRR-36 | 64185-4-VRRR-36 |
| 29 x 1 1/4"                              | 64185-4-V-58 | 64185-4-VR-58 | 64185-4-VRR-58 | 64185-4-VRRR-58 |

Lower inertia than full-circle discs, but have a slightly higher wear rate. Smooth radius between the friction segments also lowers core plate stress cause by misalignment between engine & transmission and/or engine harmonics, resisting core plate cracking.



PADDLE | 8-rivet

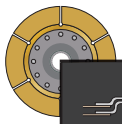
**"Back-to-Back" Hub Configuration**

| Input Shaft Size (# of teeth x diameter) | 1-plate      | 2-plate       | 3-plate        | 4-plate |
|--|--------------|---------------|----------------|---------|
| 10 x 1 1/8"                              | 64185-3-V-06 | 64185-3-VV-06 | 64185-3-VTV-06 | N/A     |
| 10 x 29mm                                | 64185-3-V-10 | 64185-3-VV-10 | 64185-3-VTV-10 | N/A     |
| 10 x 35mm                                | 64185-3-V-52 | 64185-3-VV-52 | 64185-3-VTV-52 | N/A     |
| 20 x 7/8"                                | 64185-3-W-25 | 64185-3-VV-25 | 64185-3-VTV-25 | N/A     |
| 23 x 1" x 30 degree                      | 64185-3-V-30 | 64185-3-VV-30 | 64185-3-VTV-30 | N/A     |
| 23 x 24mm x 25 degree                    | 64185-3-V-41 | 64185-3-VV-41 | N/A            | N/A     |
| 26 x 1 5/32"                             | 64185-3-V-36 | 64185-3-VV-36 | 64185-3-VTV-36 | N/A     |
| 26 x 35mm                                | 64185-3-V-55 | 64185-3-VV-55 | 64185-3-VTV-55 | N/A     |
| 29 x 1 1/4"                              | 64185-3-V-58 | 64185-3-VV-58 | 64185-3-VTV-58 | N/A     |

**"Stacked" Hub Configuration**

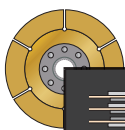
| Input Shaft Size (# of teeth x diameter) | 1-plate      | 2-plate       | 3-plate        | 4-plate         |
|--|--------------|---------------|----------------|-----------------|
| 10 x 1 1/8"                              | 64185-3-V-06 | 64185-3-VR-06 | 64185-3-VRR-06 | N/A             |
| 10 x 29mm                                | 64185-3-V-10 | 64185-3-VR-10 | 64185-3-VRR-10 | N/A             |
| 23 x 1" x 30 degree                      | 64185-3-W-30 | 64185-3-VR-30 | 64185-3-VRR-30 | 64185-3-VRRR-30 |
| 23 x 24mm x 25 degree                    | 64185-3-V-41 | 64185-3-VR-41 | 64185-3-VRR-41 | N/A             |
| 26 x 1 5/32"                             | 64185-3-V-36 | 64185-3-VR-36 | 64185-3-VRR-36 | 64185-3-VRRR-36 |
| 29 x 1 1/4"                              | 64185-3-V-58 | 64185-3-VR-58 | 64185-3-VRR-58 | 64185-3-VRRR-58 |

**FULL CIRCLE NESTED | 12-rivet** Offset hubs designed to engage short splines on some input shafts.



**"Nested" Hub Configuration for crank bolt clearance**


| Input Shaft Size (# of teeth x diameter) | 1-plate      | 2-plate       | 3-plate | 4-plate |
|--|--------------|---------------|---------|---------|
| 20 x 7/8"                                | 64185-2-H-25 | 64185-2-HJ-25 | N/A     | N/A     |
| 23 x 1" x 30 degree                      | 64185-2-H-30 | 64185-2-HJ-30 | N/A     | N/A     |




Standard disc that is suitable for most applications.

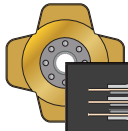
Six friction pads provide maximum surface area for low wear rate and high heat capacity

FULL CIRCLE | 6-rivet

|  <b>"Back-to-Back" Hub Configuration</b> |                |                |                |
|---|----------------|----------------|----------------|
| <i>Input Shaft Size (# of teeth x diameter)</i>   | <i>1-plate</i> | <i>2-plate</i> | <i>3-plate</i> |
| 10 x 7/8"   | 64140-9-A-03   | 64140-9-AA-03  | N/A            |
| 10 x 1"   | 64140-9-A-04   | 64140-9-AA-04  | N/A            |
| 10 x 1 1/4"   | 64140-9-A-07   | 64140-9-AA-07  | N/A            |
| 10 x 1 1/8"   | 64140-9-A-06   | 64140-9-AA-06  | 64140-9-ABA-06 |
| 10 x 1 3/8"   | 64140-9-A-08   | 64140-9-AA-08  | 64140-9-ABA-08 |
| 10 x 29mm   | 64140-9-A-10   | 64140-9-AA-10  | 64140-9-ABA-10 |
| 10 x 35mm   | 64140-9-A-52   | 64140-9-AA-52  | 64140-9-ABA-52 |
| 14 x 25mm   | 64140-9-A-12   | 64140-9-AA-12  | N/A            |
| 14 x 30.8mm   | 64140-9-A-14   | 64140-9-AA-14  | 64140-9-ABA-14 |
| 18 x 21mm   | 64140-9-A-17   | 64140-9-AA-17  | N/A            |
| 18 x 1 3/16"  | 64140-9-A-19   | 64140-9-AA-19  | 64140-9-ABA-19 |
| 20 x 7/8"   | 64140-9-F-25   | 64140-9-AA-25  | 64140-9-ABA-25 |
| 21 x 29/32"   | 64140-9-A-26   | 64140-9-AA-26  | 64140-9-ABA-26 |
| 21 x 24mm   | 64140-9-A-27   | 64140-9-AA-27  | N/A            |
| 21 x 29mm   | 64140-9-A-28   | 64140-9-AA-28  | 64140-9-ABA-28 |
| 22 x 15/16"   | 64140-9-A-42   | 64140-9-AA-42  | N/A            |
| 22 x 1"   | 64140-9-A-29   | 64140-9-AA-29  | 64140-9-ABA-29 |
| 22 x 29.4mm   | 64140-9-A-51   | 64140-9-AA-51  | 64140-9-ABA-51 |
| 23 x 1" x 30 degree   | 64140-9-F-30   | 64140-9-AA-30  | 64140-9-ABA-30 |
| 23 x 24mm x 25 degree   | 64140-9-A-41   | 64140-9-AA-41  | 64140-9-ABA-41 |
| 24 x 13/16"   | 64140-9-A-32   | 64140-9-AA-32  | N/A            |
| 24 x 15/16"   | 64140-9-A-47   | 64140-9-AA-47  | N/A            |
| 24 x 1 x 27.5 degree (early Nissan)   | 64140-9-A-33   | 64140-9-AA-33  | 64140-9-ABA-33 |
| 24 x 1 x 30 degree (late Nissan)  | 64140-9-A-57   | 64140-9-AA-57  | 64140-9-ABA-57 |
| 24 x 26mm   | 64140-9-A-38   | 64140-9-AA-38  | N/A            |
| 26 x 1 5/32"  | 64140-9-A-36   | 64140-9-AA-36  | 64140-9-ABA-36 |
| 26 x 35mm   | 64140-9-A-55   | 64140-9-AA-55  | 64140-9-ABA-55 |
| 28 x 7/8"   | 64140-9-A-39   | 64140-9-AA-39  | N/A            |
| 29 x 1 1/4"   | 64140-9-A-58   | 64140-9-AA-58  | 64140-9-ABA-58 |

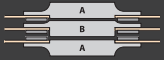
|  <b>"Stacked" Hub Configuration</b> |                |                |                |                 |
|--|----------------|----------------|----------------|-----------------|
| <i>Input Shaft Size (# of teeth x diameter)</i>  | <i>1-plate</i> | <i>2-plate</i> | <i>3-plate</i> | <i>4-plate</i>  |
| 10 x 1 1/16"   | 64140-9-A-05   | 64140-9-AC-05  | 64140-9-ACC-05 | N/A             |
| 10 x 35 mm   | 64140-9-A-52   | 64140-9-AC-52  | 64140-9-ACC-52 | N/A             |
| 10 x 29mm  | 64140-9-A-10   | 64140-9-AC-10  | 64140-9-ACC-10 | N/A             |
| 18 x 25/32"  | 64140-9-A-18   | 64140-9-AC-18  | 64140-9-ACC-18 | N/A             |
| 20 x 7/8"  | 64140-9-F-25   | 64140-9-AC-25  | 64140-9-ACC-25 | N/A             |
| 21 x 29/32"  | 64140-9-A-26   | 64140-9-AC-26  | 64140-9-ACC-26 | N/A             |
| 23 x 1" x 30 degree  | 64140-9-F-30   | 64140-9-AC-30  | 64140-9-ACC-30 | 64140-9-ACCC-30 |
| 23 x 24mm x 25 degree  | 64140-9-A-41   | 64140-9-AC-41  | 64140-9-ACC-41 | N/A             |
| 24 x 13/16"  | 64140-9-A-32   | 64140-9-AC-32  | 64140-9-ACC-32 | N/A             |
| 24 x 1" (late Nissan)  | 64140-9-A-57   | 64140-9-AC-57  | 64140-9-ACC-57 | N/A             |
| 26 x 22mm  | 64140-9-A-35   | 64140-9-AC-35  | 64140-9-ACC-35 | N/A             |
| 26 x 1 5/32"   | 64140-9-A-36   | 64140-9-AC-36  | 64140-9-ACC-36 | 64140-9-ACCC-36 |
| 26 x 35mm  | 64140-9-A-55   | 64140-9-AC-55  | 64140-9-ACC-55 | N/A             |

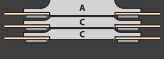




Lower inertia than full-circle discs, but have a slightly higher wear rate. Smooth radius between the friction segments also lowers core plate stress cause by misalignment between engine & transmission and/or engine harmonics, resisting core plate cracking.

**PADDLE | 8-rivet**

|  <b>"Back-to-Back" Hub Configuration</b> |                |                |                |
|---|----------------|----------------|----------------|
| <i>Input Shaft Size (# of teeth x diameter)</i>   | <i>1-plate</i> | <i>2-plate</i> | <i>3-plate</i> |
| 10 x 7/8"   | 64140-3-A-03   | 64140-3-AA-03  | N/A            |
| 10 x 1"   | 64140-3-A-04   | 64140-3-AA-04  | N/A            |
| 10 x 1 1/4"   | 64140-3-A-07   | 64140-3-AA-07  | N/A            |
| 10 x 1 1/8"   | 64140-3-A-06   | 64140-3-AA-06  | 64140-3-ABA-06 |
| 10 x 1 3/8"   | 64140-3-A-08   | 64140-3-AA-08  | 64140-3-ABA-08 |
| 10 x 29mm   | 64140-3-A-10   | 64140-3-AA-10  | 64140-3-ABA-10 |
| 10 x 35mm   | 64140-3-A-52   | 64140-3-AA-52  | 64140-3-ABA-52 |
| 14 x 25mm   | 64140-3-A-12   | 64140-3-AA-12  | N/A            |
| 14 x 30.8mm   | 64140-3-A-14   | 64140-3-AA-14  | 64140-3-ABA-14 |
| 18 x 21mm   | 64140-3-A-17   | 64140-3-AA-17  | N/A            |
| 18 x 1 3/16"  | 64140-3-A-19   | 64140-3-AA-19  | 64140-3-ABA-19 |
| 20 x 7/8"   | 64140-3-F-25   | 64140-3-AA-25  | 64140-3-ABA-25 |
| 21 x 29/32"   | 64140-3-A-26   | 64140-3-AA-26  | 64140-3-ABA-26 |
| 21 x 24mm   | 64140-3-A-27   | 64140-3-AA-27  | N/A            |
| 21 x 29mm   | 64140-3-A-28   | 64140-3-AA-28  | 64140-3-ABA-28 |
| 22 x 15/16"   | 64140-3-A-42   | 64140-3-AA-42  | N/A            |
| 22 x 1"   | 64140-3-A-29   | 64140-3-AA-29  | 64140-3-ABA-29 |
| 22 x 29.4mm   | 64140-3-A-51   | 64140-3-AA-51  | 64140-3-ABA-51 |
| 23 x 1" x 30 degree   | 64140-3-F-30   | 64140-3-AA-30  | 64140-3-ABA-30 |
| 23 x 24mm x 25 degree   | 64140-3-A-41   | 64140-3-AA-41  | 64140-3-ABA-41 |
| 24 x 13/16"   | 64140-3-A-32   | 64140-3-AA-32  | N/A            |
| 24 x 15/16"   | 64140-3-A-47   | 64140-3-AA-47  | N/A            |
| 24 x 1" (early Nissan)  | 64140-3-A-33   | 64140-3-AA-33  | 64140-3-ABA-33 |
| 24 x 1" (late Nissan)   | 64140-3-A-57   | 64140-3-AA-57  | 64140-3-ABA-57 |
| 24 x 26mm   | 64140-3-A-38   | 64140-3-AA-38  | N/A            |
| 26 x 1 5/32"  | 64140-3-A-36   | 64140-3-AA-36  | 64140-3-ABA-36 |
| 26 x 35mm   | 64140-3-A-55   | 64140-3-AA-55  | 64140-3-ABA-55 |
| 28 x 7/8"   | 64140-3-A-39   | 64140-3-AA-39  | N/A            |
| 29 x 1 1/4"   | 64140-3-A-58   | 64140-3-AA-58  | 64140-3-ABA-58 |

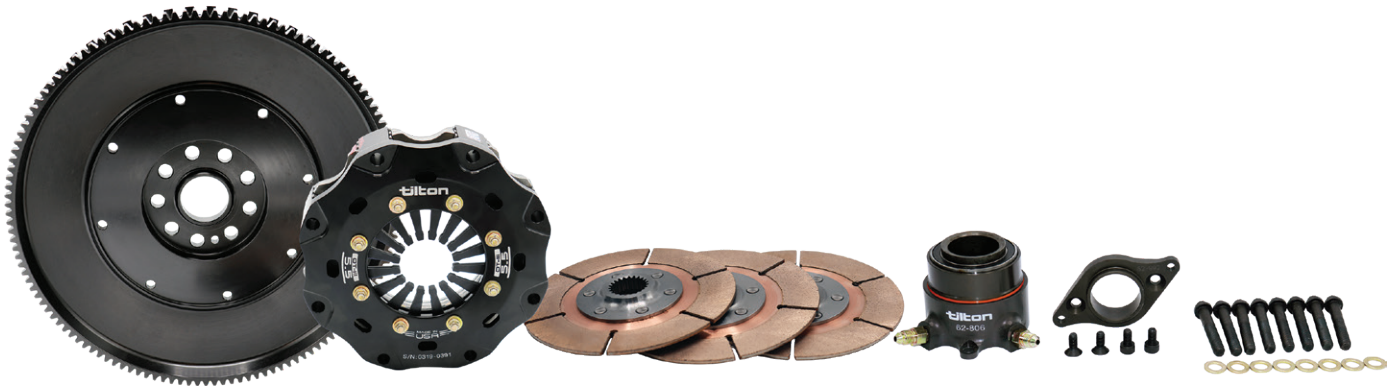
|  <b>"Stacked" Hub Configuration</b> |                |                |                |                 |
|--|----------------|----------------|----------------|-----------------|
| <i>Input Shaft Size (# of teeth x diameter)</i>  | <i>1-plate</i> | <i>2-plate</i> | <i>3-plate</i> | <i>4-plate</i>  |
| 10 x 1 1/16"   | 64140-3-A-05   | 64140-3-AC-05  | 64140-3-ACC-05 | N/A             |
| 10 x 35 mm   | 64140-3-A-52   | 64140-3-AC-52  | 64140-3-ACC-52 | N/A             |
| 10 x 29mm  | 64140-3-A-10   | 64140-3-AC-10  | 64140-3-ACC-10 | N/A             |
| 18 x 25/32"  | 64140-3-A-18   | 64140-3-AC-18  | 64140-3-ACC-18 | N/A             |
| 20 x 7/8"  | 64140-3-F-25   | 64140-3-AC-25  | 64140-3-ACC-25 | N/A             |
| 21 x 29/32"  | 64140-3-A-26   | 64140-3-AC-26  | 64140-3-ACC-26 | N/A             |
| 23 x 1" x 30 degree  | 64140-3-F-30   | 64140-3-AC-30  | 64140-3-ACC-30 | 64140-3-ACCC-30 |
| 23 x 24mm x 25 degree  | 64140-3-A-41   | 64140-3-AC-41  | 64140-3-ACC-41 | N/A             |
| 24 x 13/16"  | 64140-3-A-32   | 64140-3-AC-32  | 64140-3-ACC-32 | N/A             |
| 24 x 1" (late Nissan)  | 64140-3-A-57   | 64140-3-AC-57  | 64140-3-ACC-57 | N/A             |
| 26 x 22mm  | 64140-3-A-35   | 64140-3-AC-35  | 64140-3-ACC-35 | N/A             |
| 26 x 1 5/32"   | 64140-3-A-36   | 64140-3-AC-36  | 64140-3-ACC-36 | 64140-3-ACCC-36 |
| 26 x 35mm  | 64140-3-A-55   | 64140-3-AC-55  | 64140-3-ACC-55 | N/A             |

Tilton OT-Series Clutch-Flywheel-Assemblies are designed to be a direct replacement for OEM clutch/flywheels assemblies, retaining the same diameter (ring gear size) as originally equipped with the car.

Assemblies include a Tilton OT-Series clutch, billet steel flywheel and hardware. Some assemblies also include a Tilton hydraulic release bearing that is designed to replace the OEM release bearing system.

Clutch-Flywheel-Assemblies are available with either an OT-Series metallic clutch, cerametallic clutch or carbon/carbon clutch.

### OT-Series Metallic Clutch-Flywheel-Assembly



P/N 57-813

### OT-Series Cerametallic Clutch-Flywheel-Assembly

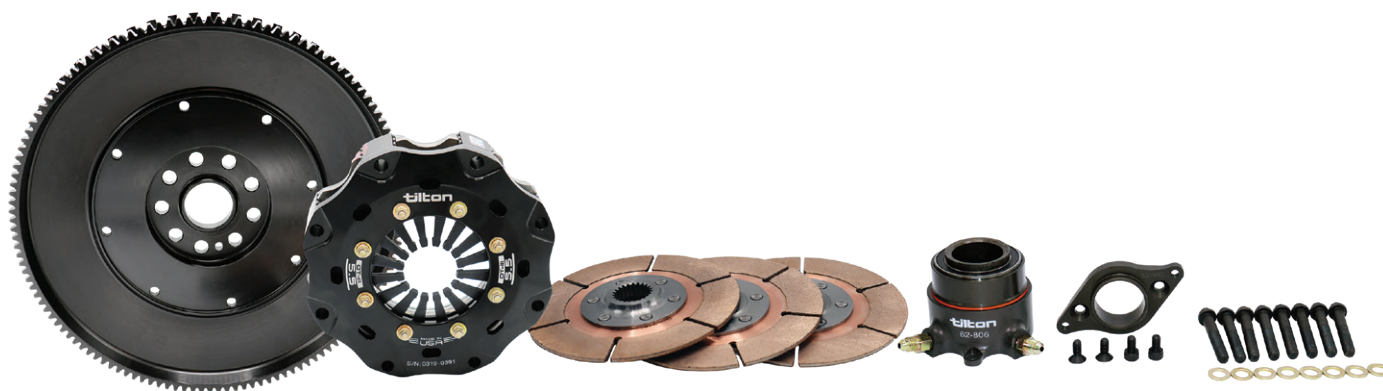


P/N 56-821

### OT-Series Carbon/Carbon Clutch-Flywheel-Assembly



P/N 57-814



## Features

- OT-series metallic clutch (5.5" or 7.25")
- Clutch disc pack
- Billet steel flywheel
- Hydraulic release bearing (most applications)
- Aircraft-grade clutch bolt kit

| Application                    | Clutch       | Torque Capacity (lb-ft) | Weight (lbs) | Part Number    |
|--------------------------------|--------------|-------------------------|--------------|----------------|
| BMW E36/E46                    | 7.25" 3-disc | 840                     | 17.8         | <b>56-823</b>  |
| BMW E46 M3                     | 7.25" 3-disc | 840                     | 17.8         | <b>56-824</b>  |
| Chevy Camaro Gen 5             | 7.25" 3-disc | 1020                    | 18.0         | <b>56-816</b>  |
| Chevy Corvette C5              | 7.25" 3-disc | 1020                    | 18.0         | <b>56-804</b>  |
| Chevy Corvette C6              | 7.25" 3-disc | 1020                    | 18.0         | <b>56-807</b>  |
| Chevy Corvette C7              | 7.25" 3-disc | 1020                    | 21.6         | <b>56-809</b>  |
| Mitsubishi EVO 7-9             | 7.25" 3-disc | 1005                    | 20.8         | <b>56-358</b>  |
| Mitsubishi EVO 10              | 7.25" 3-disc | 1005                    | 22.1         | <b>56-357</b>  |
| Porsche 993/996/997            | 5.5" 3-disc  | 750                     | 14.5         | <b>57-813</b>  |
| Porsche 993/996/997            | 7.25" 2-disc | 560                     | 15.4         | <b>56-813</b>  |
| Porsche 993/996/997 (light FW) | 7.25" 3-disc | 1020                    | 17.8         | <b>56-815</b>  |
| Porsche 993/996/997 (heavy FW) | 7.25" 3-disc | 1020                    | 28.4         | <b>56-815H</b> |

## Service Parts

| CFA            | Clutch     | Disc Pack      | Flywheel | Release Bearing | Clutch Bolt Kits |
|----------------|------------|----------------|----------|-----------------|------------------|
| <b>56-823</b>  | 66-003HORA | 64185-2-ABA-10 | 51-3568  | 62-021          | 95-011           |
| <b>56-824</b>  | 66-003HORA | 64185-2-ABA-52 | 51-3568  | 62-022          | 95-011           |
| <b>56-357</b>  | 66-003HORA | 64185-2-ACC-30 | 51-4335  | 61-9012         | 95-011           |
| <b>56-358</b>  | 66-003HORA | 64185-2-ACC-30 | 51-4334  | 61-9012         | 95-011           |
| <b>56-804</b>  | 66-003HG   | 64185-2-ACC-36 | 51-4452  | 60-8270         | 95-006           |
| <b>56-807</b>  | 66-003HG   | 64185-2-ACC-36 | 51-4552  | 60-8270         | 95-006           |
| <b>56-809</b>  | 66-003HG   | 64185-2-ACC-36 | 51-4558  | 60-8290         | 95-011           |
| <b>56-813</b>  | 66-012HORA | 64185-3-VR-30  | 51-4008  | 60-8270         | 95-070           |
| <b>56-815</b>  | 66-013HG   | 64185-3-VRR-30 | 51-4008  | 60-8250         | 95-074           |
| <b>56-815H</b> | 66-013HG   | 64185-3-VRR-30 | 51-4012  | 60-8250         | 95-074           |
| <b>56-816</b>  | 66-003HG   | 64185-2-ACC-36 | 51-4452  | 60-8260         | 95-006           |
| <b>57-813</b>  | 67-013HG   | 64140-3-ACC-30 | 51-4011  | 60-8340         | 95-071           |



## Features

- OT-II 7.25" cerametallic clutch
- Clutch disc pack
- Billet steel flywheel
- Hydraulic release bearing (most applications)
- Aircraft-grade clutch bolt kit

| Application              | Clutch       | Torque Capacity<br>(lb-ft) | Weight<br>(lbs) | Part Number         |
|--------------------------|--------------|----------------------------|-----------------|---------------------|
| BMW E36/E46              | 7.25" 1-disc | 335                        | 13.5            | <b>56-820</b>       |
| BMW E46 M3               | 7.25" 2-disc | 570                        | 16.1            | <b>56-821</b>       |
| BMW E46 M3               | 7.25" 2-disc | 570                        | 16.1            | <b>56-822</b>       |
| Honda B16A/B18           | 7.25" 2-disc | 910                        | 18.6            | <b>56-300H</b>      |
| Honda B16A/B18           | 7.25" 2-disc | 910                        | 18.6            | <b>56-300H-KIT*</b> |
| Honda K20/K24            | 7.25" 2-disc | 910                        | 14.9            | <b>56-309</b>       |
| Honda K20/K24            | 7.25" 2-disc | 910                        | 14.9            | <b>56-309H-KIT*</b> |
| Mitsubishi EVO 7-9       | 7.25" 2-disc | 910                        | 19.1            | <b>56-353</b>       |
| Mitsubishi EVO 10        | 7.25" 2-disc | 910                        | 20.4            | <b>56-356</b>       |
| Porsche 993/996/997      | 7.25" 2-disc | 680                        | 16.1            | <b>56-812</b>       |
| Subaru WRX/STI (2002-on) | 7.25" 2-disc | 840                        | 19.8            | <b>56-371</b>       |

\*Includes hydraulic release bearing/master kit (P/N 61-7770)

## Service Parts

| CFA                | Clutch      | Disc Pack      | Flywheel | Release Bearing | Clutch Bolt Kits |
|--------------------|-------------|----------------|----------|-----------------|------------------|
| <b>56-300H</b>     | 66-302UGG   | 64185-8-VV-38  | 51-1166  | 62-010          | 95-011           |
| <b>56-300H-KIT</b> | 66-302UGG   | 64185-8-VV-38  | 51-1166  | 61-777          | 95-011           |
| <b>56-309</b>      | 66-302UGG   | 64185-8-VV-38  | 51-1180  | 62-010          | 95-011           |
| <b>56-309-KIT</b>  | 66-302UGG   | 64185-8-VV-38  | 51-1180  | 61-777          | 95-011           |
| <b>56-353</b>      | 66-302UGG   | 64185-8-VV-30H | 51-4334  | 61-9012         | 95-011           |
| <b>56-356</b>      | 66-302UGG   | 64185-8-VV-30H | 51-4335  | 61-9012         | 95-011           |
| <b>56-371</b>      | 66-302UG    | 64185-8-VV-47  | 51-4122  | 61-742          | 95-011           |
| <b>56-812</b>      | 66-312 HG   | 64185-8-VV-30  | 51-4008  | 60-8250         | 95-074           |
| <b>56-820</b>      | 66-301 UORA | 64185-8-W-10   | 51-3568  | 62-020          | 95-010           |
| <b>56-821</b>      | 66-302UBF   | 64185-8-VV-10  | 51-3568  | 62-021          | 95-011           |
| <b>56-822</b>      | 66-302UBF   | 64185-8-VV-52  | 51-3568  | 62-022          | 95-011           |



## Features

- OT-series carbon/carbon clutch (5.5" or 7.25")
- Billet steel flywheel
- Hydraulic release bearing (most applications)
- Aircraft-grade clutch bolt kit

| Application                    | Clutch       | Torque Capacity (lb-ft) | Weight (lbs) | Part Number    |
|--------------------------------|--------------|-------------------------|--------------|----------------|
| Chevy Camaro Gen 5             | 7.25" 3-disc | 1230                    | 15.6         | <b>56-816C</b> |
| Chevy Corvette C5              | 7.25" 3-disc | 1230                    | 15.6         | <b>56-805</b>  |
| Chevy Corvette C6              | 7.25" 3-disc | 1230                    | 15.6         | <b>56-808</b>  |
| Chevy Corvette C7              | 7.25" 3-disc | 1230                    | 19.2         | <b>56-810</b>  |
| Honda B16A/B18                 | 7.25" 2-disc | 910                     | 16.0         | <b>56-302H</b> |
| Honda K20/K24                  | 7.25" 2-disc | 910                     | 12.5         | <b>56-311</b>  |
| Mitsubishi EVO 7-9             | 7.25" 2-disc | 910                     | 17.1         | <b>56-352</b>  |
| Mitsubishi EVO 10              | 7.25" 2-disc | 910                     | 18.4         | <b>56-355</b>  |
| Porsche 993/996/997            | 5.5" 3-disc  | 750                     | 11.6         | <b>57-814</b>  |
| Porsche 993/996/997 (light FW) | 7.25" 3-disc | 1365                    | 14.3         | <b>56-814</b>  |
| Porsche 993/996/997 (heavy FW) | 7.25" 3-disc | 1365                    | 24.9         | <b>56-814H</b> |
| Subaru WRX/STI (2002-on)       | 7.25" 2-disc | 840                     | 17.8         | <b>56-372</b>  |

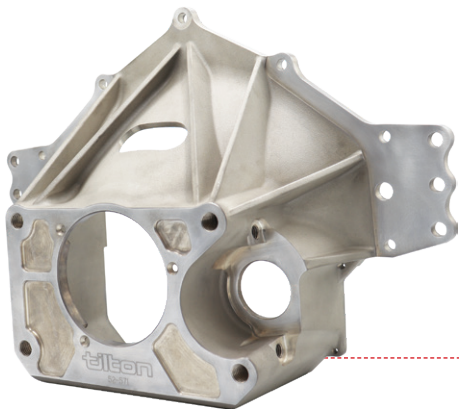
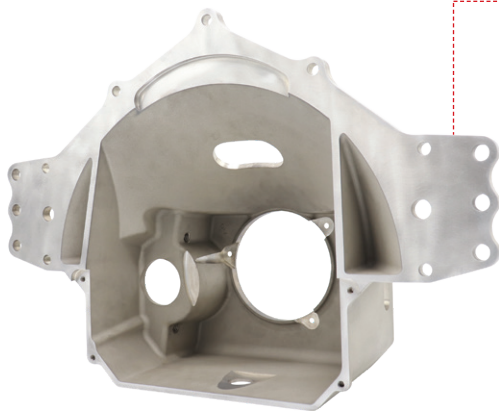
## Service Parts

| CFA            | Clutch         | Flywheel | Release Bearing | Clutch Bolt Kits |
|----------------|----------------|----------|-----------------|------------------|
| <b>56-302H</b> | 6572USGG-S-SDR | 51-1166  | 62-010          | 95-063           |
| <b>56-311</b>  | 6572USGG-S-SDR | 51-1180  | 62-010          | 95-063           |
| <b>56-352</b>  | 6572USGG-S-SDR | 51-4334  | 61-9002         | 95-063           |
| <b>56-355</b>  | 6572USGG-S-SDR | 51-4335  | 61-9002         | 95-063           |
| <b>56-372</b>  | 6572USGG-S     | 51-4122  | 61-732          | 95-063           |
| <b>56-805</b>  | 6573USGG-S     | 51-4452  | 60-8220         | 95-016           |
| <b>56-808</b>  | 6573USGG-S     | 51-4452  | 60-8220         | 95-016           |
| <b>56-810</b>  | 6573USGG-S     | 51-4558  | 60-8250         | 95-016           |
| <b>56-814</b>  | 6573USGG-P     | 51-4008  | 60-8200         | 95-073           |
| <b>56-814H</b> | 6573USGG-P     | 51-4012  | 60-8200         | 95-073           |
| <b>56-816C</b> | 6573USGG-S     | 51-4452  | 60-8210         | 95-016           |
| <b>57-814</b>  | 6553HSG-P      | 51-4011  | 60-8330         | 95-072           |



### Typical Applications

- Late Model
- Super Late Model
- Asphalt Modified



### Features

#### ➤ Bellhousing

- Magnesium rear-mount starter bellhousing designed for maximum weight savings
- Compact design provides increase ground clearance and exhaust header clearance. Distance from centerline of crankshaft to bottom of bellhousing is only 4.5"
- Integral mounting ears for use as rear engine mount
- Accepts transmissions with Chevy 4-bolt mounting pattern and 4.68" register diameter
- Blueprinted for parallelism and concentricity
- Weighs 7.6 lbs

#### ➤ Clutch-Flywheel-Assembly

- 5.5 ULTRA metallic clutch. 2-disc and 3-disc options
- Billet steel 99-tooth (8.42") ring gear
- Button Flywheel
- 26-Spline clutch disc pack
- Aircraft-grade clutch bolts
- High-strength ARP flywheel bolts

#### ➤ Hydraulic Release Bearing

- 2300-Series hydraulic release bearing
- 38mm contact diameter bearing
- 3-bolt bellhousing mounted

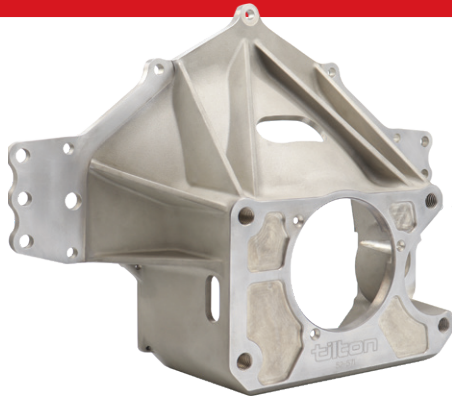
#### ➤ Starter

- 40000-Series 3.0HP high-torque gear reduction mini starter
- Rear-mounts on bellhousing
- Side-bolt mounting design provides secure mounting to bellhousing and easy access for service

| Clutch Type*     | Chevy Early | Chevy Crate | Chevy LS | Ford Small Block |
|------------------|-------------|-------------|----------|------------------|
| 5.5 ULTRA 2-disc | 52-61620    | 52-64620    | 52-63620 | 52-62620         |
| 5.5 ULTRA 3-disc | 52-61630    | 52-64630    | 52-63630 | 52-62630         |

\*Fits 1 5/32" x 26 spline input shaft. Contact Tilton for other spline options.

## Service Parts



### Bellhousings

| Description                   | Part Number |
|-------------------------------|-------------|
| Bellhousing, Chevy, magnesium | 52-571      |
| Bellhousing, Ford, magnesium  | 52-572      |



### Flywheel

| Description                            | Part Number |
|--|-------------|
| Button flywheel, Chevy Early           | 19038       |
| Button flywheel, Chevy Crate, balanced | 19042       |
| Button flywheel, Chevy LS              | 19041       |
| Button flywheel, Ford Small Block      | 19043       |
| Ring gear, 99-tooth                    | 51-099-2    |
| Ring gear spacer, ULTRA 5.5 2-disc     | 51-001      |



### Clutch & Disc Packs

| Description                   | Part Number    |
|-------------------------------|----------------|
| 5.5 ULTRA, 2-disc metallic    | 67-202HG       |
| Disc pack, 2 discs, 26 spline | 64140-1-AA-36  |
| 5.5 ULTRA, 3-disc metallic    | 67-203HG       |
| Disc pack, 3 disc, 26-spline  | 64140-1-ABA-36 |



### Hydraulic Release Bearing

| Description                  | Part Number |
|------------------------------|-------------|
| HRB, 5.5 ULTRA 2-disc clutch | 60-2340     |
| HRB, 5.5 ULTRA 3-disc clutch | 60-2310     |



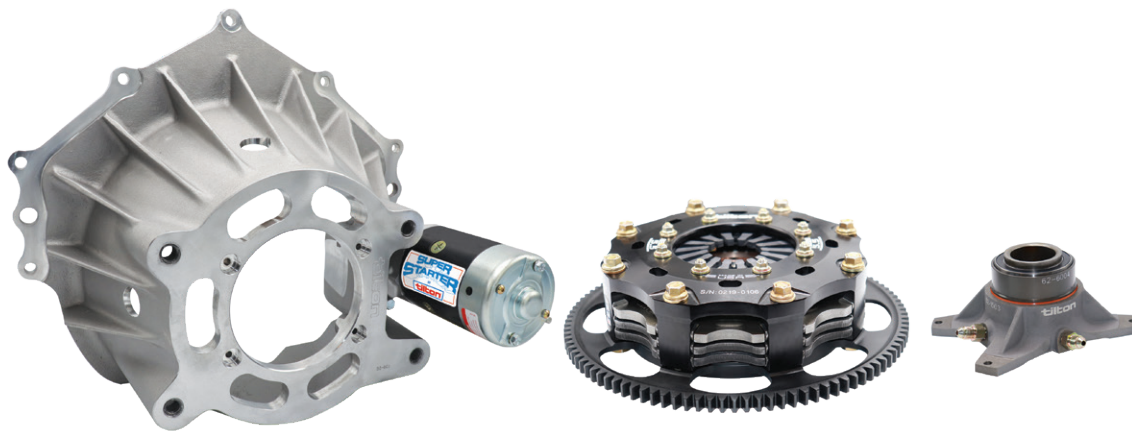
### Starter

| Description                      | Part Number |
|----------------------------------|-------------|
| Super Starter, bellhousing mount | 54-41072    |



### Bolt Kits

| Description                            | Part Number |
|--|-------------|
| Clutch bolt kit                        | 95-036      |
| Flywheel bolt kit, all except Chevy LS | 95-952-6    |
| Flywheel bolt kit, Chevy LS            | 95-940-6    |



### Typical Applications

- ▶ Trans Am (TA, TA2)
- ▶ GT1
- ▶ Late Model
- ▶ Super Late Model
- ▶ Asphalt Modified



### Features

- ▶ **Bellhousing**
  - Rigid aluminum rear-mount starter bellhousing designed to resist flexing
  - Compact design provides increase ground clearance and exhaust header clearance. Distance from centerline of crankshaft to bottom of bellhousing is only 4.7"
  - Accepts transmissions with Chevy 4-bolt mounting pattern and 4.68" register diameter
  - Blueprinted for parallelism and concentricity
  - Weighs 12.5 lbs
- ▶ **Clutch-Flywheel-Assembly**
  - OT-III 5.5" metallic or carbon/carbon clutch. 3-disc and 4-disc options
  - Billet steel 102-tooth (8.64") flywheel
  - 26-spline clutch disc pack
  - Aircraft-grade clutch bolts
  - High-strength ARP flywheel bolts
  -
- ▶ **Hydraulic Release Bearing**
  - 5300-Series hydraulic release bearing
  - 38mm contact diameter bearing
  - 4-bolt bellhousing mounted
- ▶ **Starter**
  - 40000-Series 3.0HP high-torque gear reduction mini starter
  - Rear-mounts on bellhousing

| Clutch Type*         | Chevy Early | Chevy Crate | Chevy LS | Ford Small Block |
|----------------------|-------------|-------------|----------|------------------|
| 5.5" 2-disc metallic | 52-31120    | 52-41120    | 52-33120 | 52-32120         |
| 5.5" 3-disc metallic | 52-31130    | 52-41130    | 52-33130 | 52-32130         |
| 5.5" 4-disc metallic | 52-31140    | NA          | 52-33140 | 52-32140         |
| 5.5" 3-disc carbon   | 52-31230    | NA          | 52-33230 | 52-32230         |
| 5.5" 4-disc carbon   | 52-31240    | NA          | 52-33240 | 52-32240         |

\*Fits 1 1/32" x 26 spline input shaft. Contact Tilton for other spline options.



## Service Parts



### Bellhousings

| Description                  | Part Number |
|------------------------------|-------------|
| Bellhousing, Chevy, aluminum | 52-601      |
| Bellhousing, Ford, aluminum  | 52-602      |



### Flywheel

| Description                                | Part Number |
|--|-------------|
| Flywheel, Chevy Early, 102-tooth           | 51-651      |
| Flywheel, Chevy Crate, 102-tooth, balanced | 51-604      |
| Flywheel, Chevy LS, 102-tooth              | 51-659      |
| Flywheel, Ford, 102-tooth                  | 51-653      |



### Clutch & Disc Packs

| Description                   | Part Number     |
|-------------------------------|-----------------|
| Clutch, 5.5" 2-disc metallic  | 67-002HG        |
| Disc pack, 2 discs, 26-spline | 64140-9-AA-36   |
| Clutch, 5.5" 3-disc metallic  | 67-003HG        |
| Disc pack, 3-disc, 26-spline  | 64140-9-ABA-36  |
| Clutch, 5.5" 4-Disc metallic  | 67-004HG        |
| Disc pack 4-discs, 26-spline  | 64140-9-ACCC-36 |
| Clutch, 5.5" 3-disc carbon    | 6553HSG-S       |
| Clutch, 5.5" 4-disc carbon    | 6554HSG-S       |



### Hydraulic Release Bearing

| Description                      | Part Number |
|----------------------------------|-------------|
| HRB, 5.5" 2-disc metallic clutch | 60-5370     |
| HRB, 5.5" 3-disc metallic clutch | 60-5340     |
| HRB, 5.5" 4-disc metallic clutch | 60-5310     |
| HRB, 5.5" 3-disc carbon clutch   | 60-5330     |
| HRB, 5.5" 4-disc carbon clutch   | 60-5300     |



### Starter

| Description                      | Part Number |
|----------------------------------|-------------|
| Super Starter, bellhousing mount | 54-41062    |



### Bolt Kits

| Description                           | Part Number |
|---------------------------------------|-------------|
| Clutch bolt kit, 5.5" 2-disc metallic | 95-002-5    |
| Clutch bolt kit, 5.5" 3-disc metallic | 95-003-5    |
| Clutch bolt kit, 5.5" 4-disc metallic | 95-004-5    |
| Clutch bolt kit, 5.5" 3-disc carbon   | 95-061      |
| Clutch bolt kit, 5.5" 4-disc carbon   | 95-060      |
| Flywheel bolt kit, Chevy Early & Ford | 95-952-6    |
| Flywheel bolt kit, Chevy LS           | 95-940-6    |
| Flywheel bolt kit, Chevy Crate        | 95-975-6    |



### OE Diameter Flywheels

OE Diameter flywheels are designed to be a direct replacement for the stock flywheels of specific car/engine applications, retaining the same diameter (ring gear size) as originally equipped with the car. *Unless noted, flywheels are neutral balance and have a .100" step for the clutch's friction surface.*

| Application                         | Clutch Type    | Ring Gear Teeth | Weight (lbs) | Part Number     |
|-------------------------------------|----------------|-----------------|--------------|-----------------|
| BMW M50/M52/S50/S52/S54             | 7.25" 6/12-leg | 113             | 7.9          | <b>51-3568</b>  |
| Chevy V8 2-pc Rear Main Seal        | 7.25" 6/12-leg | 153             | 8.3          | <b>51-021-1</b> |
| Chevy V8 2-pc Rear Main Seal        | Tilton ST-246  | 153             | 16.6         | <b>55-1002</b>  |
| Chevy LS (6-Bolt Crank)             | 7.25" 6/12-leg | 168             | 8.0          | <b>51-4452</b>  |
| Chevy LS (6-Bolt Crank)             | Tilton ST-246  | 168             | 19.6         | <b>51-1004</b>  |
| Chevy LSX/LT (8-Bolt Crank)         | 7.25" 6/12-leg | 168             | 11.7         | <b>51-4558</b>  |
| Chevy LSX/LT (8-Bolt Crank)         | Tilton ST-246  | 168             | 19.6         | <b>51-1008</b>  |
| Chevy Camaro GEN6/Corvette C7       | Tilton ST-246  | 168             | 21.5         | <b>51-1000</b>  |
| Ford Coyote                         | Tilton ST-246  | 164             | 20.9         | <b>51-1001</b>  |
| Ford Small Block (Internal Balance) | Tilton ST-246  | 157             | 17.2         | <b>51-1003</b>  |
| Honda B16A/B18                      | 7.25" 6/12-leg | 112             | 9.8          | <b>51-1166</b>  |
| Honda K20/24                        | 7.25" 6/12-leg | 120             | 6.3          | <b>51-1180</b>  |
| Mitsubishi EVO-7-9                  | 7.25" 6/12-leg | 114             | 10.9         | <b>51-4334</b>  |
| Mitsubishi EVO 10                   | 7.25" 6/12-leg | 114             | 9.4          | <b>51-4335</b>  |
| Porsche 993/996/997                 | 7.25" 6/12-leg | 132             | 7.9          | <b>51-4008*</b> |
| Porsche 993/996/997                 | 7.25" 6/12-leg | 132             | 18.5         | <b>51-4012*</b> |
| Porsche 993/996/997                 | 5.5" 8-leg     | 132             | 7.2          | <b>51-4011*</b> |
| Subaru WRX (EJ20/25)                | 7.25" 6/12-leg | 124             | 11.6         | <b>51-4122</b>  |
| Toyota 2JZ                          | 7.25" 6/12-leg | 115             | 12           | <b>51-5021</b>  |

\*Pot-type flywheel



### Reduced Diameter Flywheels

Smaller diameter than OEM type flywheels to provide addition ground clearance and a lower weight & inertia. Requires the use of specialize Tilton Super Starter that mounts in the stock location but is designed to work with the smaller diameter ring gear. *Unless noted, flywheels are neutral balance and have a .100" step for the clutch's friction surface.*

| Application                  | Clutch Type    | Ring Gear Teeth | Weight (lbs) | Part Number      |
|------------------------------|----------------|-----------------|--------------|------------------|
| Chevy V8 2-pc Rear Main Seal | 7.25" 6/12-leg | 104             | 5.7          | <b>51-052-1*</b> |
| Chevy LS (6-bolt crank)      | 7.25" 6/12-leg | 153             | 9.4          | <b>51-4478**</b> |
| Chevy LSX/LT (8-bolt crank)  | 7.25" 6/12-leg | 153             | 9.4          | <b>51-4479**</b> |

\*Requires starter P/N 54-40005

\*\*Requires starter P/N 54-40012



### 110-Tooth 7.25" Flywheels

Designed for use in Tilton 52-7xx Series rear-mount starter bell housings and 7.25" clutches. *Unless noted, flywheels are neutral balance and have a .100" step for the clutch's friction surface.*

| Application                         | Clutch Type    | Ring Gear Teeth | Weight (lbs) | Part Number    |
|-------------------------------------|----------------|-----------------|--------------|----------------|
| Chevy V8 2-pc Rear Main Seal        | 7.25" 6-leg    | 110             | 4.7          | <b>51-6300</b> |
| Chevy LS (6-Bolt Crank)             | 7.25" 6/12-leg | 110             | 5.7          | <b>51-6341</b> |
| Ford Small Block (Internal Balance) | 7.25" 6/12-leg | 110             | 4.9          | <b>51-6320</b> |



### 102-Tooth 5.5" Flywheels

Designed for use in Tilton 52-6xx Series rear-mount starter bellhousings and 5.5" clutches.

Unless noted, flywheels are neutral balance and have a .100" step for the clutch's friction surface.

| Application                         | Clutch Type | Ring Gear Teeth | Weight (lbs) | Part Number    |
|-------------------------------------|-------------|-----------------|--------------|----------------|
| Chevy V8 2-pc Rear Main Seal        | 5.5" 8-leg  | 102             | 3.1          | <b>51-651</b>  |
| Chevy V8 1-pc Rear Main Seal        | 5.5" 8-leg  | 102             | 4.2          | <b>51-604*</b> |
| Chevy LS (6-Bolt)                   | 5.5" 8-leg  | 102             | 4.3          | <b>51-659</b>  |
| Ford Small Block (Internal Balance) | 5.5" 8-leg  | 102             | 3.6          | <b>51-653</b>  |

\*Externally balanced

### Button Flywheels

Designed to serve as the clutch's friction surface when used in conjunction with flexplate or clutch cover-mounted ring gear. Unless noted, flywheels are neutral balance and have .100" step for the clutch's friction surface.



| Application                  | Clutch Type | Flywheel Offset | Weight (lbs) | Part Number   |
|------------------------------|-------------|-----------------|--------------|---------------|
| Chevy V8 2-pc Rear Main Seal | 5.5" 8-leg  | .840"           | 2.3          | <b>19002</b>  |
| Chevy V8 2-pc Rear Main Seal | 5.5" 6-leg  | .840"           | 2.1          | <b>19038</b>  |
| Chevy V8 2-pc Rear Main Seal | 7.25" 6-leg | .660"           | 3.7          | <b>19003</b>  |
| Chevy V8 1-pc Rear Main Seal | 5.5" 8-leg  | .820"           | 2.5          | <b>19010</b>  |
| Chevy V8 1-pc Rear Main Seal | 5.5" 8-leg  | .840"           | 2.9          | <b>19023*</b> |
| Chevy V8 1-pc Rear Main Seal | 5.5" 6-leg  | .840"           | 3.0          | <b>19042*</b> |
| Chevy V8 1-pc Rear Main Seal | 7.25" 6-leg | .700"           | 3.8          | <b>19011</b>  |
| Chevy V8 1-pc Rear Main Seal | 7.25" 6-leg | .660"           | 4.0          | <b>19046*</b> |
| Chevy LS (6-Bolt Crank)      | 5.5" 8-leg  | 1.240"          | 2.9          | <b>19044</b>  |
| Chevy LS (6-Bolt Crank)      | 5.5" 6-leg  | 1.240"          | 2.7          | <b>19041</b>  |
| Chevy LS (6-Bolt Crank)      | 7.25" 6-leg | 1.060"          | 4.3          | <b>19040</b>  |
| Ford Small Block             | 5.5" 8-leg  | 1.280"          | 3.0          | <b>19045</b>  |
| Ford Small Block             | 5.5" 6-leg  | 1.280"          | 2.8          | <b>19043</b>  |
| Ford Small Block             | 7.25" 6-leg | 1.110"          | 4.2          | <b>19039</b>  |

\*Externally balanced

### Clutch Cover-Mount Ring Gears

Designed to mount onto the clutch cover of select Tilton and QM clutches.



| Clutch Type  | Ring Gear Teeth | Weight (lbs) | Part Number     |
|--------------|-----------------|--------------|-----------------|
| 5.5" 6/8-leg | 110             | 1.7          | <b>51-110-1</b> |
| 5.5" 6-leg   | 99              | 1.3          | <b>51-099-2</b> |
| 7.25" 6-leg  | 110             | 1.1          | <b>51-110-3</b> |

## Metallic Clutch Bolt Kits

|               | Clutch Diameter | Plate Count | Flywheel | Mounting Hole | Size     | Length       | Length   | Part Number |
|---------------|-----------------|-------------|----------|---------------|----------|--------------|----------|-------------|
|               | (inches)        | (number)    | (type)   | (type)        | (inches) | (under head) | (grip)   |             |
| 5.5" Clutches | 5.5"            | 1           | Step     | Through       | 5/16"-24 | 1.72"        | 1.19"    | 95-001-5    |
|               | 5.5"            | 1           | Step     | Threaded      | 5/16"-24 | 1.47"        | .938"    | 95-015      |
|               | 5.5"            | 2           | Step/Pot | Through       | 5/16"-24 | 1.97"        | 1.44"    | 95-002-5    |
|               | 5.5"            | 2           | Step     | Threaded      | 5/16"-24 | 1.84"        | 1.31"    | 95-009-5    |
|               | 5.5"            | 2           | Pot      | Threaded      | 5/16"-24 | 1.72"        | 1.19"    | 95-010-5    |
|               | 5.5"            | 3           | Step     | Through       | 5/16"-24 | 2.34"        | 1.81"    | 95-019      |
|               | 5.5"            | 3           | Pot      | Through       | 5/16"-24 | 2.22"        | 1.69"    | 95-003-5    |
|               | 5.5"            | 3           | Step     | Threaded      | 5/16"-24 | 2.09"        | 1.56"    | 95-018      |
|               | 5.5"            | 3           | Pot      | Threaded      | 5/16"-24 | 1.97"        | 1.44"    | 95-002-5    |
|               | 5.5"            | 4           | Step     | Through       | 5/16"-24 | 2.59"        | 2.06"    | 95-004-5    |
|               | 5.5"            | 4           | Pot      | Through       | 5/16"-24 | 2.47"        | 1.94"    | 95-061      |
|               | 5.5"            | 4           | Step     | Threaded      | 5/16"-24 | 2.34"        | 1.81"    | 95-019      |
| 5.5"          | 4               | Pot         | Threaded | 5/16"-24      | 2.22"    | 1.69"        | 95-003-5 |             |

|                |       |          |          |          |          |       |        |          |
|----------------|-------|----------|----------|----------|----------|-------|--------|----------|
| 7.25" Clutches | 7.25" | 1        | Step     | Through  | 5/16"-24 | 1.47" | .938"  | 95-026   |
|                | 7.25" | 1        | Step     | Threaded | 5/16"-24 | 1.34" | .813"  | 95-009   |
|                | 7.25" | 2        | Step     | Through  | 5/16"-24 | 1.84" | 1.31"  | 95-017   |
|                | 7.25" | 2        | Pot      | Through  | 5/16"-24 | 1.72" | 1.19"  | 95-005   |
|                | 7.25" | 2        | Step     | Threaded | 5/16"-24 | 1.59" | 1.06"  | 95-028   |
|                | 7.25" | 2        | Pot      | Threaded | 5/16"-24 | 1.47" | .938"  | 95-010   |
|                | 7.25" | 3        | Step     | Through  | 5/16"-24 | 2.09" | 1.56"  | 95-018   |
|                | 7.25" | 3        | Pot      | Through  | 5/16"-24 | 1.97" | 1.44"  | 95-006   |
|                | 7.25" | 3        | Step     | Threaded | 5/16"-24 | 1.84" | 1.31"  | 95-011   |
|                | 7.25" | 3        | Pot      | Threaded | 5/16"-24 | 1.72" | 1.19"  | 95-014   |
|                | 7.25" | 4        | Step     | Through  | 5/16"-24 | 2.34" | 1.81"  | 95-008   |
|                | 7.25" | 4        | Pot      | Through  | 5/16"-24 | 2.22" | 1.69"  | 95-003-5 |
| 7.25"          | 4     | Step/Pot | Threaded | 5/16"-24 | 2.09"    | 1.56" | 95-012 |          |

## Cerametallic Clutch Bolt Kits

|                | Clutch Diameter | Plate Count | Flywheel | Mounting Hole | Size     | Length       | Length | Part Numbers |
|----------------|-----------------|-------------|----------|---------------|----------|--------------|--------|--------------|
|                | (inches)        | (number)    | (type)   | (type)        | (inches) | (under head) | (grip) |              |
| 7.25" Clutches | 7.25"           | 1           | Step     | Through       | 5/16"-24 | 1.59"        | 1.06"  | 95-028       |
|                | 7.25"           | 1           | Step     | Threaded      | 5/16"-24 | 1.47"        | .938"  | 95-010       |
|                | 7.25"           | 2           | Step     | Through       | 5/16"-24 | 2.09"        | 1.56"  | 95-018       |
|                | 7.25"           | 2           | Step     | Threaded      | 5/16"-24 | 1.84"        | 1.31"  | 95-011       |

**Note for all bolt kits:**

**Step-type Flywheel:** Clutch friction surface is .100" above clutch mounting surface.

**Pot-type Flywheel:** Clutch friction surface is equal to clutch mounting surface.



Carbon/Carbon Clutch Bolt Kits

|               | Clutch Diameter | Plate Count | Flywheel | Mounting Hole | Size     | Length       | Length | Part Numbers |
|---------------|-----------------|-------------|----------|---------------|----------|--------------|--------|--------------|
|               | (inches)        | (number)    | (type)   | (type)        | (inches) | (under head) | (grip) |              |
| 5.5" Clutches | 5.5"            | 1           | Step/Pot | Through       | 5/16"-24 | 1.72"        | 1.19"  | 95-001-5     |
|               | 5.5"            | 1           | Step     | Threaded      | 5/16"-24 | 1.59"        | 1.06"  | 95-029       |
|               | 5.5"            | 1           | Pot      | Threaded      | 5/16"-24 | 1.47"        | .938"  | 95-015       |
|               | 5.5"            | 2           | Step     | Through       | 5/16"-24 | 2.09"        | 1.56"  | 95-018       |
|               | 5.5"            | 2           | Pot      | Through       | 5/16"-24 | 1.97"        | 1.44"  | 95-002-5     |
|               | 5.5"            | 2           | Step     | Threaded      | 5/16"-24 | 1.84"        | 1.31"  | 95-009-5     |
|               | 5.5"            | 2           | Pot      | Threaded      | 5/16"-24 | 1.72"        | 1.19"  | 95-010-5     |
|               | 5.5"            | 3           | Step     | Through       | 5/16"-24 | 2.47"        | 1.94"  | 95-061       |
|               | 5.5"            | 3           | Pot      | Through       | 5/16"-24 | 2.34"        | 1.81"  | 95-019       |
|               | 5.5"            | 3           | Step     | Threaded      | 5/16"-24 | 2.22"        | 1.69"  | 95-003-5     |
|               | 5.5"            | 3           | Pot      | Threaded      | 5/16"-24 | 2.09"        | 1.56"  | 95-018       |
|               | 5.5"            | 4           | Step     | Through       | 5/16"-24 | 2.72"        | 2.19"  | 95-060       |
|               | 5.5"            | 4           | Pot      | Through       | 5/16"-24 | 2.59"        | 2.06"  | 95-004-5     |
|               | 5.5"            | 4           | Step     | Threaded      | 5/16"-24 | 2.47"        | 1.94"  | 95-061       |
| 5.5"          | 4               | Pot         | Threaded | 5/16"-24      | 2.34"    | 1.81"        | 95-019 |              |

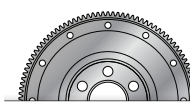
|                |       |   |          |          |          |       |       |        |
|----------------|-------|---|----------|----------|----------|-------|-------|--------|
| 7.25" Clutches | 7.25" | 1 | Step/Pot | Through  | 5/16"-24 | 1.72" | 1.19" | 95-020 |
|                | 7.25" | 1 | Step/Pot | Threaded | 5/16"-24 | 1.47" | .938" | 95-041 |
|                | 7.25" | 2 | Step     | Through  | 5/16"-24 | 2.09" | 1.56" | 95-027 |
|                | 7.25" | 2 | Pot      | Through  | 5/16"-24 | 1.97" | 1.44" | 95-023 |
|                | 7.25" | 2 | Step/Pot | Threaded | 5/16"-24 | 1.84" | 1.31" | 95-063 |
|                | 7.25" | 3 | Step/Pot | Through  | 5/16"-24 | 2.47" | 1.94" | 95-016 |
|                | 7.25" | 3 | Step/Pot | Threaded | 5/16"-24 | 2.22" | 1.69" | 95-025 |
|                | 7.25" | 4 | Pot      | Through  | 5/16"-24 | 2.84" | 2.31" | 95-065 |
|                | 7.25" | 4 | Step     | Threaded | 5/16"-24 | 2.72" | 2.19" | 95-064 |
|                | 7.25" | 4 | Pot      | Threaded | 5/16"-24 | 2.59" | 2.06" | 95-042 |



Flywheel Bolt Kits

Bolt kit for mounting Tilton flywheels to the engine crank shaft.

| Size       | Length       | Socket Size | Bolts in Kit | Part Numbers |
|------------|--------------|-------------|--------------|--------------|
| (inches)   | (under head) | (inches)    | (number)     |              |
| 7/16"-20   | .875"        | 1/2" 12-pt  | 6            | 95-952-6     |
| 7/16"-20   | .875"        | 1/2" 12-pt  | 8            | 95-952-8     |
| 7/16"-20   | .800"        | 3/4" 12-pt  | 6            | 95-975-6     |
| 7/16"-20   | .800"        | 3/4" 12-pt  | 8            | 95-975-8     |
| 11mm x 1.5 | .880"        | 1/2" 12-pt  | 6            | 95-940-6     |



Clutch-to-Flywheel Stud Kits

Clutch-to-Flywheel Stud Kits are designed to press fit into specific Tilton flywheels, such as the 110-tooth flywheel supplied in 52-Series 7.25" Rear-mount Starter Packages.

| Clutch Diameter | Plate Count | Part Numbers |
|-----------------|-------------|--------------|
| (inches)        | (number)    |              |
| 7.25"           | 3           | 95-100-6     |
| 7.25"           | 2           | 95-101-6     |

Tilton offers an extensive range of hydraulic release bearings, also known as concentric slave cylinders, for use with push-type clutches. Hydraulic release bearings are designed to eliminate the need for mechanical linkages, pivot balls, spacer and external slave cylinders. Tilton hydraulic release bearings are available with a flat-face bearing for use bent-finger diaphragm 8.5" – 11" OE-type clutches and with radius-face bearings for small diameter racing clutches (4.5", 5.5", 7.25" & 8.5").

## Features

- High-temperature mono-seal features a quad tensioner to insure proper seal tension for the highest level of reliability. Seals have been tested to more than a million actuations without failure
- Wiper seal (most models) provides protection from debris entering bore.
- Aluminum body and piston are plated with a proprietary low-friction coating that provides smooth operation and longevity.
- High quality bearings packed with high-speed grease provide long term service life.
- Constant contact design provides for quick clutch release and self-adjusts for clutch wear.
- 1.215 in<sup>2</sup> piston area (except 9000-Series)

### 700-Series

*Pilot tube mount*



### 1000-Series

*Saab 9000 type mount*



### 2000-Series

*3-Leg QM-type bellhousing mount*



### 3000-Series

*3-leg bulkhead mount*



### 4000-Series

*4-bolt bellhousing mount*



### 5000-Series

*4-bolt bellhousing mount (low profile)*



### 6000-Series

*Adjustable height transmission mount*



### 8000-Series

*2-bolt bulkhead mount*



### 9000-Series

*2-bolt bulkhead mount (reduced piston area)*



Typical Applications

- ▶ Transmissions and transaxles designed to accept "Saab 9000-type" release bearings

Features

- ▶ **Mount Type:** 3-Bolt "Saab 9000-Type" pattern
- ▶ **Piston Area:** 1.215in<sup>2</sup> (784mm<sup>2</sup>)
- ▶ **Max Stroke:** .600" (15.24mm)
- ▶ **Ports:** AN3 (3/8"-24 thread)
- ▶ **Weight:** .70 - .95 lbs (varies by model)



| 1000-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 2.05" (52mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height         | Replacement Bearing   | Replacement Piston | Seal Kit |
| 60-1000     | 2.04" (51.8mm) | 62-002  | 62-612             | 62-905   |



| 1100-Series |                | Bearing Type: Flat-face<br>Contact Diameter: 1.71" - 2.83" (43.4mm - 71.9mm) |                    |          |
|-------------|----------------|--|--------------------|----------|
| Part Number | Height         | Replacement Bearing  | Replacement Piston | Seal Kit |
| 60-1100     | 1.79" (45.5mm) | 62-618   | 62-6100            | 62-905   |



| 1200-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 1.75" (44mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 60-1200     | 1.87" (47.5mm) | 62-031  | 62-6000            | 62-905   |
| 60-1210     | 1.97" (50.0mm) | 62-031  | 62-6001            | 62-905   |
| 60-1220     | 2.07" (52.3mm) | 62-031  | 62-6002            | 62-905   |
| 60-1230     | 2.17" (55.1mm) | 62-031  | 62-6003            | 62-905   |
| 60-1240     | 2.27" (57.7mm) | 62-031  | 62-6004            | 62-905   |
| 60-1250     | 2.37" (60.2mm) | 62-031  | 62-6005            | 62-905   |
| 60-1260     | 2.47" (62.7mm) | 62-031  | 62-6006            | 62-905   |
| 60-1270     | 2.57" (65.3mm) | 62-031  | 62-6007            | 62-905   |
| 60-1280     | 2.67" (67.8mm) | 62-031  | 62-6008            | 62-905   |
| 60-1290     | 2.77" (70.4mm) | 62-031  | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston



| 1300-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 1.50" (38mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 60-1300     | 1.87" (47.5mm) | 62-008  | 62-6000            | 62-905   |
| 60-1310     | 1.97" (50.0mm) | 62-008  | 62-6001            | 62-905   |
| 60-1320     | 2.07" (52.3mm) | 62-008  | 62-6002            | 62-905   |
| 60-1330     | 2.17" (55.1mm) | 62-008  | 62-6003            | 62-905   |
| 60-1340     | 2.27" (57.7mm) | 62-008  | 62-6004            | 62-905   |
| 60-1350     | 2.37" (60.2mm) | 62-008  | 62-6005            | 62-905   |
| 60-1360     | 2.47" (62.7mm) | 62-008  | 62-6006            | 62-905   |
| 60-1370     | 2.57" (65.3mm) | 62-008  | 62-6007            | 62-905   |
| 60-1380     | 2.67" (67.8mm) | 62-008  | 62-6008            | 62-905   |
| 60-1390     | 2.77" (70.4mm) | 62-008  | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston

Installation drawing for 1000-Series HRBs is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



## Typical Applications

- Mounts inside select Tilton and QM rear-mount starter bellhousings



## Features

- **Mount Type:** 3-Bolt "QM-type" pattern
- **Piston Area:** 1.215in<sup>2</sup> (784mm<sup>2</sup>)
- **Max Stroke:** .600" (15.24mm)
- **Ports:** AN3 (3/8"-24 thread)
- **Weight:** .75- .85 lbs (varies by model)

### 2200-Series

Bearing Type: Radius-face  
Contact Diameter: 1.75" (44mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-2200     | 2.90" (73.7mm) | 62-031              | 62-6000            | 62-905   |
| 60-2210     | 3.00" (76.2mm) | 62-031              | 62-6001            | 62-905   |
| 60-2220     | 3.10" (78.7mm) | 62-031              | 62-6002            | 62-905   |
| 60-2230     | 3.20" (81.3mm) | 62-031              | 62-6003            | 62-905   |
| 60-2240     | 3.30" (83.8mm) | 62-031              | 62-6004            | 62-905   |
| 60-2250     | 3.40" (86.4mm) | 62-031              | 62-6005            | 62-905   |
| 60-2260     | 3.50" (88.9mm) | 62-031              | 62-6006            | 62-905   |
| 60-2270     | 3.60" (91.4mm) | 62-031              | 62-6007            | 62-905   |
| 60-2280     | 3.70" (94.0mm) | 62-031              | 62-6008            | 62-905   |
| 60-2290     | 3.80" (96.5mm) | 62-031              | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston

### 2300-Series

Bearing Type: Radius-face  
Contact Diameter: 1.50" (38mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-2300     | 2.90" (73.7mm) | 62-008              | 62-6000            | 62-905   |
| 60-2310     | 3.00" (76.2mm) | 62-008              | 62-6001            | 62-905   |
| 60-2320     | 3.10" (78.7mm) | 62-008              | 62-6002            | 62-905   |
| 60-2330     | 3.20" (81.3mm) | 62-008              | 62-6003            | 62-905   |
| 60-2340     | 3.30" (83.8mm) | 62-008              | 62-6004            | 62-905   |
| 60-2350     | 3.40" (86.4mm) | 62-008              | 62-6005            | 62-905   |
| 60-2360     | 3.50" (88.9mm) | 62-008              | 62-6006            | 62-905   |
| 60-2370     | 3.60" (91.4mm) | 62-008              | 62-6007            | 62-905   |
| 60-2380     | 3.70" (94.0mm) | 62-008              | 62-6008            | 62-905   |
| 60-2390     | 3.80" (96.5mm) | 62-008              | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston





## Typical Applications

- Bulkhead mount inside transmissions or bellhousings

## Features

- **Mount Type:** 3-Bolt pattern
- **Piston Area:** 1.215in<sup>2</sup> (784mm<sup>2</sup>)
- **Max Stroke:** .600" (15.24mm)
- **Ports:** AN 3 (3/8"-24 thread)
- **Weight:** .75 - 1.0 lbs (varies by model)



| 3000-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 2.05" (52mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 60-3000     | 3.00" (76.2mm) | 62-002  | 62-612             | 62-905   |



| 3100-Series |                | Bearing Type: Flat-face<br>Contact Diameter: 1.71" - 2.83" (43.4mm - 71.9mm) |                    |          |
|-------------|----------------|--|--------------------|----------|
| Part Number | Height*        | Replacement Bearing  | Replacement Piston | Seal Kit |
| 60-3100     | 2.74" (69.6mm) | 62-618   | 62-6100            | 62-905   |



| 3200-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 1.75" (44mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 60-3200     | 2.82" (71.6mm) | 62-031  | 62-6000            | 62-905   |
| 60-3210     | 2.92" (74.2mm) | 62-031  | 62-6001            | 62-905   |
| 60-3220     | 3.02" (76.7mm) | 62-031  | 62-6002            | 62-905   |
| 60-3230     | 3.12" (79.2mm) | 62-031  | 62-6003            | 62-905   |
| 60-3240     | 3.22" (81.8mm) | 62-031  | 62-6004            | 62-905   |
| 60-3250     | 3.32" (84.3mm) | 62-031  | 62-6005            | 62-905   |
| 60-3260     | 3.42" (86.9mm) | 62-031  | 62-6006            | 62-905   |
| 60-3270     | 3.52" (89.4mm) | 62-031  | 62-6007            | 62-905   |
| 60-3280     | 3.62" (91.9mm) | 62-031  | 62-6008            | 62-905   |
| 60-3290     | 3.72" (94.5mm) | 62-031  | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston



| 3300-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 1.50" (38mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 60-3300     | 2.82" (71.6mm) | 62-008  | 62-6000            | 62-905   |
| 60-3310     | 2.92" (74.2mm) | 62-008  | 62-6001            | 62-905   |
| 60-3320     | 3.02" (76.7mm) | 62-008  | 62-6002            | 62-905   |
| 60-3330     | 3.12" (79.2mm) | 62-008  | 62-6003            | 62-905   |
| 60-3340     | 3.22" (81.8mm) | 62-008  | 62-6004            | 62-905   |
| 60-3350     | 3.32" (84.3mm) | 62-008  | 62-6005            | 62-905   |
| 60-3360     | 3.42" (86.9mm) | 62-008  | 62-6006            | 62-905   |
| 60-3370     | 3.52" (89.4mm) | 62-008  | 62-6007            | 62-905   |
| 60-3380     | 3.62" (91.9mm) | 62-008  | 62-6008            | 62-905   |
| 60-3390     | 3.72" (94.5mm) | 62-008  | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston

Installation drawing for 3000-Series HRBs is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



## Typical Applications

- Mounts inside select Tilton and Quicktime bellhousings



### 4000-Series

Bearing Type: Radius-face  
Contact Diameter: 2.05" (52mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-4000     | 2.80" (71.0mm) | 62-002              | 62-612             | 62-905   |



### 4100-Series

Bearing Type: Flat-face  
Contact Diameter: 1.71" - 2.83" (43.4mm - 71.9mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-4100     | 2.54" (64.5mm) | 62-618              | 62-6100            | 62-905   |



### 4200-Series

Bearing Type: Radius-face  
Contact Diameter: 1.75" (44mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-4200     | 2.62" (66.5mm) | 62-031              | 62-6000            | 62-905   |
| 60-4210     | 2.72" (69.0mm) | 62-031              | 62-6001            | 62-905   |
| 60-4220     | 2.82" (71.6mm) | 62-031              | 62-6002            | 62-905   |
| 60-4230     | 2.92" (74.2mm) | 62-031              | 62-6003            | 62-905   |
| 60-4240     | 3.02" (76.7mm) | 62-031              | 62-6004            | 62-905   |
| 60-4250     | 3.12" (79.2mm) | 62-031              | 62-6005            | 62-905   |
| 60-4260     | 3.22" (81.8mm) | 62-031              | 62-6006            | 62-905   |
| 60-4270     | 3.32" (84.3mm) | 62-031              | 62-6007            | 62-905   |
| 60-4280     | 3.42" (86.9mm) | 62-031              | 62-6008            | 62-905   |
| 60-4290     | 3.52" (89.4mm) | 62-031              | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston



### 4300-Series

Bearing Type: Radius-face  
Contact Diameter: 1.50" (38mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-4300     | 2.62" (66.5mm) | 62-008              | 62-6000            | 62-905   |
| 60-4310     | 2.72" (69.0mm) | 62-008              | 62-6001            | 62-905   |
| 60-4320     | 2.82" (71.6mm) | 62-008              | 62-6002            | 62-905   |
| 60-4330     | 2.92" (74.2mm) | 62-008              | 62-6003            | 62-905   |
| 60-4340     | 3.02" (76.7mm) | 62-008              | 62-6004            | 62-905   |
| 60-4350     | 3.12" (79.2mm) | 62-008              | 62-6005            | 62-905   |
| 60-4360     | 3.22" (81.8mm) | 62-008              | 62-6006            | 62-905   |
| 60-4370     | 3.32" (84.3mm) | 62-008              | 62-6007            | 62-905   |
| 60-4380     | 3.42" (86.9mm) | 62-008              | 62-6008            | 62-905   |
| 60-4390     | 3.52" (89.4mm) | 62-008              | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston

## Features

- **Mount Type:** 4-Bolt pattern
- **Piston Area:** 1.215in<sup>2</sup> (784mm<sup>2</sup>)
- **Max Stroke:** .600" (15.24mm)
- **Ports:** AN3 (3/8"-24 thread)
- **Weight:** 1.15 - 1.45 lbs (varies by model)



Typical Applications

- Mounts inside select Tilton and Quicktime bellhousings

Features

- **Mount Type:** Low Profile 4-Bolt Pattern
- **Piston Area:** 1.215in<sup>2</sup> (784mm<sup>2</sup>)
- **Max Stroke:** .600" (15.24mm)
- **Ports:** AN3 (3/8"-24 thread)
- **Weight:** .90 - 1.25 lbs (varies by model)



| 5000-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 2.05" (52mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 60-5000     | 2.10" (53.3mm) | 62-002  | 62-612             | 62-905   |



| 5100-Series |                | Bearing Type: Flat-face<br>Contact Diameter: 1.71" - 2.83" (43.4mm - 71.9mm) |                    |          |
|-------------|----------------|--|--------------------|----------|
| Part Number | Height*        | Replacement Bearing  | Replacement Piston | Seal Kit |
| 60-5100     | 1.84" (46.7mm) | 62-618   | 62-6100            | 62-905   |



| 5200-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 1.75" (44mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 60-5200     | 1.92" (48.8mm) | 62-031  | 62-6000            | 62-905   |
| 60-5210     | 2.02" (51.3mm) | 62-031  | 62-6001            | 62-905   |
| 60-5220     | 2.12" (53.8mm) | 62-031  | 62-6002            | 62-905   |
| 60-5230     | 2.22" (56.4mm) | 62-031  | 62-6003            | 62-905   |
| 60-5240     | 2.32" (58.9mm) | 62-031  | 62-6004            | 62-905   |
| 60-5250     | 2.42" (61.5mm) | 62-031  | 62-6005            | 62-905   |
| 60-5260     | 2.52" (64.0mm) | 62-031  | 62-6006            | 62-905   |
| 60-5270     | 2.62" (66.5mm) | 62-031  | 62-6007            | 62-905   |
| 60-5280     | 2.72" (69.1mm) | 62-031  | 62-6008            | 62-905   |
| 60-5290     | 2.82" (71.6mm) | 62-031  | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston



| 5300-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 1.50" (38mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 60-5300     | 1.92" (48.8mm) | 62-008  | 62-6000            | 62-905   |
| 60-5310     | 2.02" (51.3mm) | 62-008  | 62-6001            | 62-905   |
| 60-5320     | 2.12" (53.8mm) | 62-008  | 62-6002            | 62-905   |
| 60-5330     | 2.22" (56.4mm) | 62-008  | 62-6003            | 62-905   |
| 60-5340     | 2.32" (58.9mm) | 62-008  | 62-6004            | 62-905   |
| 60-5350     | 2.42" (61.5mm) | 62-008  | 62-6005            | 62-905   |
| 60-5360     | 2.52" (64.0mm) | 62-008  | 62-6006            | 62-905   |
| 60-5370     | 2.62" (66.5mm) | 62-008  | 62-6007            | 62-905   |
| 60-5380     | 2.72" (69.1mm) | 62-008  | 62-6008            | 62-905   |
| 60-5390     | 2.82" (71.6mm) | 62-008  | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston

Installation drawing for 5000-Series HRBs is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



## Typical Applications

- Mounts directly onto the front of transmission

## Features

- **Mount Type:** Transmission
- **Piston Area:** 1.215in<sup>2</sup> (784mm<sup>2</sup>)
- **Max Stroke:** .700" (17.8mm) for 6100-Series HRBs  
.600" (15.24mm) for 6000/6200 6300-Series HRBs
- **Ports:** Double o-ring swivel fittings

### Description:

Height adjustable hydraulic release bearing designed to mount onto the front of transmissions. Most applications provide 1.25" of height adjustment with the provided stainless steel adjustment sleeve or mounting base that incorporates adjustment sleeve. Includes AN4 stainless braided for supply and bleed lines, bleed fitting and anti-rotation stud.



### Car Specific Hydraulic Release Bearing Kits

*Designed for direct fitments into specific car applications. Heights preset at Tilton factory (minor adjustment may be necessary) for use with OEM clutches or Tilton ST-246 clutches. Includes adapter fitting to connect HRB to factory clutch line.*

| Application       | Part Number    |
|-------------------|----------------|
| Chevy Camaro GEN5 | <b>60-6107</b> |
| Chevy Camaro GEN6 | <b>60-6108</b> |
| Chevy Corvette C6 | <b>60-6109</b> |
| Chevy Corvette C7 | <b>60-6110</b> |



| 6100-Series |  | Bearing Type: Flat-face<br>Contact Diameter: 1.71"-2.83" (43.4mm-71.9mm) |                |
|-------------|--|--|----------------|
| Application | Transmission                           | Height Adjustment (inches)   | Part Number    |
| Chevy SB/BB | Tremec TKO/500/600                     | 2.50 - 2.75**  | <b>60-6106</b> |
| Chevy LS/LT | Tremec TKO/500/600                     | 1.77 - 3.00*   | <b>60-6101</b> |
| Chevy       | Tremec T56 Magnum                      | 2.16 - 3.13**  | <b>60-6105</b> |
| Chevy       | Tremec TR6060                          | 2.66 - 3.63**  | <b>60-6111</b> |
| Chevy       | Borg-Warner/Tremec T5                  | 1.77 - 3.00*   | <b>60-6103</b> |
| Ford        | Tremec TKO/500/600                     | 1.77 - 3.00*   | <b>60-6102</b> |
| Ford        | Tremec T56 Magnum (Pilot tube mount)   | 1.77 - 3.00*   | <b>60-6104</b> |
| Ford        | Tremec T56 Magnum (2-bolt plate mount) | 2.16 - 3.13**  | <b>60-6105</b> |
| Ford        | Top Loader (1 1/16 x 10 spline)        | 1.77 - 3.00*   | <b>60-6102</b> |
| Ford        | Borg-Warner /Tremec T5                 | 1.77 - 3.00*   | <b>60-6104</b> |

*\*Height adjustment on included sleeve that fits onto tube of input shaft bearing retainer. Does not include height of retainer base.*

*\*\* Height adjustment on included mounting base. Dimension is from mating face of transmission to top of bearing.*

Installation drawing for 6000-Series HRBs is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





**Bearing Type:** Radius-face  
**Contact Diameter:** 2.00" (52mm)

| Application | Transmission                           | Height Adjustment (inches) | Part Number |
|-------------|--|----------------------------|-------------|
| Chevy SB/BB | Tremec TKO/500/600                     | 2.75 - 3.00**              | 60-6036     |
| Chevy LS/LT | Tremec TKO/500/600                     | 2.02 - 3.25*               | 60-6031     |
| Chevy       | Tremec T56 Magnum                      | 2.41 - 3.38**              | 60-6035     |
| Chevy       | Tremec TR6060                          | 2.91 - 3.88**              | 60-6041     |
| Chevy       | Borg-Warner/Tremec T5                  | 2.02 - 3.25*               | 60-6033     |
| Ford        | Tremec TKO/500/600                     | 2.02 - 3.25*               | 60-6032     |
| Ford        | Tremec T56 Magnum (Pilot tube mount)   | 2.02 - 3.25*               | 60-6034     |
| Ford        | Tremec T56 Magnum (2-bolt plate mount) | 2.54 - 3.51**              | 60-6035     |
| Ford        | Top Loader (1 1/16 x 10 spline)        | 2.02 - 3.25*               | 60-6032     |
| Ford        | Borg-Warner/Tremec T5                  | 2.02 - 3.25*               | 60-6034     |

\*Height adjustment on included sleeve that fits onto tube of input shaft bearing retainer. Does not include height of retainer base.

\*\*Height adjustment on included mounting base. Dimension is form mating face of transmission to top of bearing.



**Bearing Type:** Radius-face  
**Contact Diameter:** 1.75" (44mm)

| Application | Transmission                           | Height Adjustment (inches) | Part Number |
|-------------|--|----------------------------|-------------|
| Chevy SB/BB | Tremec TKO/500/600                     | 2.88 - 3.13**              | 60-6236     |
| Chevy LS/LT | Tremec TKO/500/600                     | 2.15 - 3.38*               | 60-6231     |
| Chevy       | Tremec T56 Magnum                      | 2.54 - 3.51**              | 60-6235     |
| Chevy       | Tremec TR6060                          | 2.66 - 3.63**              | 60-6241     |
| Chevy       | Borg-Warner/Tremec T5                  | 2.15 - 3.38*               | 60-6233     |
| Ford        | Tremec TKO/500/600                     | 2.15 - 3.38*               | 60-6232     |
| Ford        | Tremec T56 Magnum (Pilot tube mount)   | 2.15 - 3.38*               | 60-6234     |
| Ford        | Tremec T56 Magnum (2-bolt plate mount) | 2.54 - 3.51*               | 60-6235     |
| Ford        | Top Loader (1 1/16 x 10 spline)        | 2.15 - 3.38*               | 60-6232     |
| Ford        | Borg-Warner/Tremec T5                  | 2.15 - 3.38*               | 60-6234     |

\*Height adjustment on included sleeve that fits onto tube of input shaft bearing retainer. Does not include height of retainer base.

\*\*Height adjustment on included mounting base. Dimension is form mating face of transmission to top of bearing.



**Bearing Type:** Radius-face  
**Contact Diameter:** 1.50" (38mm)

| Application | Transmission                           | Height Adjustment (inches) | Part Number |
|-------------|--|----------------------------|-------------|
| Chevy SB/BB | Tremec TKO/500/600                     | 2.88 - 3.13**              | 60-6336     |
| Chevy LS/LT | Tremec TKO/500/600                     | 2.15 - 3.38*               | 60-6331     |
| Chevy       | Tremec T56 Magnum                      | 2.54 - 3.51**              | 60-6335     |
| Chevy       | Tremec TR6060                          | 3.04 - 4.01**              | 60-6341     |
| Chevy       | Borg-Warner/Tremec T5                  | 2.15 - 3.38*               | 60-6333     |
| Ford        | Tremec TKO/500/600                     | 2.15 - 3.38*               | 60-6332     |
| Ford        | Tremec T56 Magnum (Pilot tube mount)   | 2.15 - 3.38*               | 60-6334     |
| Ford        | Tremec T56 Magnum (2-bolt plate mount) | 2.54 - 3.51*               | 60-6335     |
| Ford        | Top Loader (1 1/16 x 10 spline)        | 2.15 - 3.38*               | 60-6332     |
| Ford        | Borg-Warner/Tremec T5                  | 2.15 - 3.38*               | 60-6334     |

\*Height adjustment on included sleeve that fits onto tube of input shaft bearing retainer. Does not include height of retainer base.

\*\*Height adjustment on included mounting base. Dimension is form mating face of transmission to top of bearing.



## Typical Applications

- ▶ Bulkhead-mounted inside transmission or bellhousing with adapter plate

## Features

- ▶ **Mount Type:** 2-Bolt pattern
- ▶ **Piston Area:** 1.215in<sup>2</sup> (784mm<sup>2</sup>)
- ▶ **Max Stroke:** .600" (15.24mm)
- ▶ **Ports:** AN3 (3/8"-24 thread)
- ▶ **Weight:** .70 - .95 lbs (varies by model)



### 8000-Series

Bearing Type: Radius-face  
Contact Diameter: 2.05" (52mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-8000     | 2.05" (52.0mm) | 62-002              | 62-612             | 62-905   |



### 8100-Series

Bearing Type: Flat-face  
Contact Diameter: 1.71" - 2.83" (43.4mm - 71.9mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-8100     | 1.79" (45.5mm) | 62-618              | 62-6100            | 62-905   |



### 8200-Series

Bearing Type: Radius-face  
Contact Diameter: 1.75" (44mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-8200     | 1.87" (47.5mm) | 62-031              | 62-6000            | 62-905   |
| 60-8210     | 1.97" (50.0mm) | 62-031              | 62-6001            | 62-905   |
| 60-8220     | 2.07" (52.3mm) | 62-031              | 62-6002            | 62-905   |
| 60-8230     | 2.17" (55.1mm) | 62-031              | 62-6003            | 62-905   |
| 60-8240     | 2.27" (57.7mm) | 62-031              | 62-6004            | 62-905   |
| 60-8250     | 2.37" (60.2mm) | 62-031              | 62-6005            | 62-905   |
| 60-8260     | 2.47" (62.7mm) | 62-031              | 62-6006            | 62-905   |
| 60-8270     | 2.57" (65.3mm) | 62-031              | 62-6007            | 62-905   |
| 60-8280     | 2.67" (67.8mm) | 62-031              | 62-6008            | 62-905   |
| 60-8290     | 2.77" (70.4mm) | 62-031              | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston



### 8300-Series

Bearing Type: Radius-face  
Contact Diameter: 1.50" (38mm)

| Part Number | Height*        | Replacement Bearing | Replacement Piston | Seal Kit |
|-------------|----------------|---------------------|--------------------|----------|
| 60-8300     | 1.87" (47.5mm) | 62-008              | 62-6000            | 62-905   |
| 60-8310     | 1.97" (50.0mm) | 62-008              | 62-6001            | 62-905   |
| 60-8320     | 2.07" (52.3mm) | 62-008              | 62-6002            | 62-905   |
| 60-8330     | 2.17" (55.1mm) | 62-008              | 62-6003            | 62-905   |
| 60-8340     | 2.27" (57.7mm) | 62-008              | 62-6004            | 62-905   |
| 60-8350     | 2.37" (60.2mm) | 62-008              | 62-6005            | 62-905   |
| 60-8360     | 2.47" (62.7mm) | 62-008              | 62-6006            | 62-905   |
| 60-8370     | 2.57" (65.3mm) | 62-008              | 62-6007            | 62-905   |
| 60-8380     | 2.67" (67.8mm) | 62-008              | 62-6008            | 62-905   |
| 60-8390     | 2.77" (70.4mm) | 62-008              | 62-6009            | 62-905   |

\*Height can be reduced by .050" (1.27mm) by removing the shim that is located under bearing within the piston

Installation drawing for 8000-Series HRBs is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



Typical Applications

- Bulkhead-mounted inside transmission or bellhousing with adapter plate



Features

- **Mount Type:** 2-Bolt Pattern
- **Piston Area:** 0.93in<sup>2</sup> (600mm<sup>2</sup>)
- **Max Stroke:** .600" (15.24mm)
- **Ports:** AN3 (3/8"-24 thread)
- **Weight:** .60 lbs

| 9000-Series |                | Bearing Type: Radius-face<br>Contact Diameter: 1.75" (44mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 61-9002     | 1.95" (49.5mm) | 62-031  | 62-9800            | 62-9980  |
| 61-9012     | 2.02" (51.3mm) | 62-031  | 62-9801            | 62-9980  |

Typical Applications

- Slip fit over release bearing pilot tube



Features

- **Mount Type:** Slip fit onto 1.375" (35mm) pilot tube
- **Piston Area:** 1.215in<sup>2</sup> (784mm<sup>2</sup>)
- **Max Stroke:** .500" (12.7mm)
- **Ports:** AN3 (3/8"-24 thread)
- **Weight:** .70 lbs

| 700-Series  |                | Bearing Type: Radius-face<br>Contact Diameter: 1.75" (44mm) |                    |          |
|-------------|----------------|---|--------------------|----------|
| Part Number | Height*        | Replacement Bearing   | Replacement Piston | Seal Kit |
| 61-772      | 1.64" (41.7mm) | 62-031  | 62-6204            | 62-614   |
| 61-777      | 1.70" (43.2mm) | 62-031  | 62-6205            | 62-614   |

700-Series Honda B/K-Series Release Bearing Kits

Release bearing kits designed for work with Tilton 7.25" 2-plate clutch-flywheel-assemblies (CFA) for Honda B-Series and K-Series applications. Includes 700-Series HRB, 75-Series 3/4" bore master cylinder, master cylinder mount adapter, steel braided hose fittings.



| Application   | Part Number    |
|---|----------------|
| Tilton 7.25" 2-plate cerametallic CFA, Honda B/K-Series | <b>61-7770</b> |
| Tilton 7.25" 2-plate carbon CFA, Honda B/K-Series       | <b>61-7720</b> |





### 6000-Series HRB Mount Adapters

Mount adapters and collars designed to mount 6000-Series HRBs to transmission or bellhousing.

| Description  | Part Number |
|--|-------------|
| Adjustment sleeve, Chevy LS/LT, Tremec TKO/500/600                 | 61-628      |
| Adjustment sleeve, Ford, Tremec TKO500/600, T56 (pilot tube mount) | 61-627      |
| Adjustment sleeve, Universal (1.00" bore)                          | 61-629      |
| Mount adapter, adjustable height, Chevy, Tremec TKO 500/600        | 62-693      |
| Mount adapter, adjustable height, Tremec T56 (2-bolt mount)        | 62-899      |
| Mount Adapter, adjustable height, Tremec TR6060                    | 62-900      |



### 8000-Series HRB Mount Adapters

Mount adapters and collars designed to mount 8000-Series HRBs to transmission or bellhousing.

| Description   | Part Number |
|---|-------------|
| Mount adapter, Porsche 993/996/997, G-50-type transmission, .200" | 62-880      |
| Mount adapter, Porsche 993/996/997, G-50-type transmission, .285" | 62-882      |
| Mount adapter, Tremec T56, .590"                                  | 62-874      |
| Mount adapter, Tremec T56, 1.34"                                  | 62-877      |
| Mount adapter, Tremec T56, 1.92"                                  | 62-898      |



### 9000-Series HRB Mount Adapters

Mount adapters and collars designed to mount 9000-Series HRBs to transmission or bellhousing.

| Description                           | Part Number |
|---------------------------------------|-------------|
| Mount adapter, Mitsubishi EVO7/8/9/10 | 62-9900     |



### Mechanical Release Bearings

Release bearings designed to work with OEM release bearings systems and Tilton 7.25" clutches.

| Description   | Part Number |
|---|-------------|
| Release bearing, BMW E36/E46 5-spd, Tilton 7.25" 1-plate cerametallic clutch/flywheel   | 62-020      |
| Release bearing, BMW E36/E46 5-spd, Tilton 7.25" 2-plate cerametallic clutch/flywheel   | 62-021      |
| Release bearing, BMW E36/E46 6-spd, Tilton 7.25" 2-plate cerametallic clutch/flywheel   | 62-022      |
| Release bearing, Ford Mustang (1979-2004), Tilton 7.25" 2/3-plate clutch/flywheel       | 62-063      |
| Release bearing, Honda B/K-Series, Tilton 2-Plate cerametallic & carbon clutch/flywheel | 62-010      |





## Replacement Bearings

| Bearing Type     | Applications  | Part Number   |
|------------------|---|---------------|
| 38mm Radius-face | 60-13xx, 60-23xx,60-33xx, 60-43xx, 60-53xx, 60-63xx, 60-83xx HRBs   | <b>62-008</b> |
| 44mm Radius-face | 60-12xx, 60-22xx, 60-32xx, 60-42xx, 60-52xx, 60-62xx, 60-82xx, HRBs | <b>62-031</b> |
| 52mm Radius-face | 60-1000, 60-3000, 60-3000, 60-4000, 60-5000. 60-60xx, 60-8000 HRBs  | <b>62-002</b> |
| Flat-face        | 60-1100, 60-3100, 60-4100, 60-5100, 60-61xx, 60-8100 HRBs           | <b>62-618</b> |



## Seal Kits

| Applications   | Part Number    |
|--|----------------|
| 60-1xxx, 60-2xxx,60-33xxx, 60-4xxx, 60-5xxx, 60-6xxx, 60-8xxx HRBs | <b>62-905</b>  |
| 60-9002, 61-9012 HRBs  | <b>62-9980</b> |
| 61-772, 61-777   | <b>62-614</b>  |



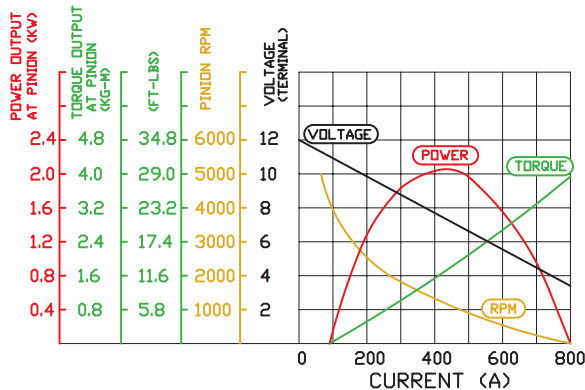
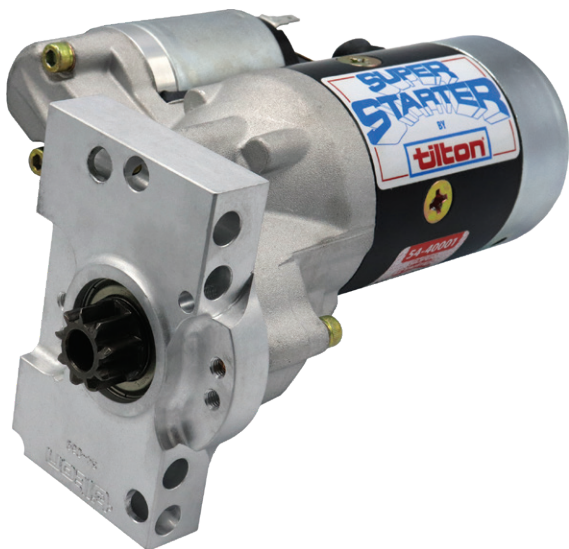
## Pistons

| Bearing Type                     | Length          | Part Number    |
|----------------------------------|-----------------|----------------|
| 38mm & 44mm Radius-face bearings | 1.215" (30.9mm) | <b>62-6000</b> |
| 38mm & 44mm Radius-face bearings | 1.315" (33.4mm) | <b>62-6001</b> |
| 38mm & 44mm Radius-face bearings | 1.415" (35.9mm) | <b>62-6002</b> |
| 38mm & 44mm Radius-face bearings | 1.515" (38.5mm) | <b>62-6003</b> |
| 38mm & 44mm Radius-face bearings | 1.615" (41.0mm) | <b>62-6004</b> |
| 38mm & 44mm Radius-face bearings | 1.715" (43.6mm) | <b>62-6005</b> |
| 38mm & 44mm Radius-face bearings | 1.815" (46.1mm) | <b>62-6006</b> |
| 38mm & 44mm Radius-face bearings | 1.915" (48.6mm) | <b>62-6007</b> |
| 38mm & 44mm Radius-face bearings | 2.015" (51.2mm) | <b>62-6008</b> |
| 38mm & 44mm Radius-face bearings | 2.115" (53.7mm) | <b>62-6009</b> |
| 52mm Radius-face bearing         | 1.530" (38.9mm) | <b>62-612</b>  |
| Flat-face bearing                | 1.240" (31.5mm) | <b>62-6100</b> |



## Hoses & Fittings

| Description                                      | Part Number    |
|--|----------------|
| Steel braided hose, 6000-Series HRB, swivel-type | <b>62-521</b>  |
| Snap ring for 62-521                             | <b>5100-43</b> |
| Bleed fitting assembly for 6000-Series HRB       | <b>62-522</b>  |
| AN3 union fitting                                | <b>73-820</b>  |



## Features

- Powerful 3.0 HP motor and gear reduction provides high torque to start large, high compression engines.
- Precision machined components are held to critical tolerances, ensuring high performance and a perfect fit.
- Internal vibration damping and electrical insulation provide longevity and maximum performance.
- High-strength (grade 10.9) socket head fasteners ensure rigid assembly and easy access for hex keys.
- Serrated belleville lock washers are used to ensure fasteners stay in place through severe vibrations and heat cycles.
- Thread locking compound is used on all fasteners and are secured to precise torque specifications.

Motor Power:

**3.0 HP (2.2 kW)**

Weight:

**12.0 lbs**

Rec. Engine Size:

**Up to 600 C.I.D.**

Rec. Compression Ratio:

**Up to 18.0 : 1**

| 40000-Series Super Starter   |                 |                      |                            |                        |
|--|-----------------|----------------------|----------------------------|------------------------|
| Application  | Part Number     | Replacement Solenoid | Replacement Drive Assembly | Replacement Pinion Kit |
| Bert/Brinn bellhousing   | <b>54-40040</b> | 54-422HD             | 54-043-044                 | 54-043                 |
| Chevy V8, 153/168T RG  | <b>54-40001</b> | 54-422HD             | 54-421                     | 54-442                 |
| Chevy V8, 153 /168T RG, reverse rotation                                     | <b>54-41004</b> | 54-422HD             | 54-421R                    | 54-042R                |
| Chevy LS/LSX/LT, 168T RG   | <b>54-40011</b> | 54-422HD             | 54-421                     | 54-442                 |
| Chevy LS/LSX/LT, 153T RG   | <b>54-40012</b> | 54-422HD             | 54-421                     | 54-442                 |
| Ford 289/302/351/390/427/428 (1967-up)                                       | <b>54-40013</b> | 54-422HD             | 54-421                     | 54-442                 |
| Ford 351M/400/429/460  | <b>54-40014</b> | 54-422HD             | 54-421                     | 54-442                 |
| Formula Ford, Hewland MK5/MK8, 110T RG                                       | <b>54-40030</b> | 54-422HD             | 54-020                     | 54-443                 |
| Porsche 911/914/930 (pre-1989)   | <b>54-41061</b> | 54-422HD             | 54-421R                    | 54-042R                |
| QM Bellhousing, rear-mount, 110T RG  | <b>54-41052</b> | 54-422HD             | 54-421R                    | 54-042R                |
| Tilton 5.5" Bellhousing, rear-mount, 102T RG                                 | <b>52-41062</b> | 54-422HD             | 54-021R-13                 | 54-042R-13             |
| Tilton 5.5" Bellhousing, Rear-Mount, 99T RG                                  | <b>54-41072</b> | 54-422HD             | 54-421R                    | 54-042R                |
| Tilton 7.25" Bellhousing, rear-mount, 110T RG, 4 o' clock solenoid position  | <b>54-41547</b> | 54-422HD             | Contact Tilton             | Contact Tilton         |
| Tilton 7.25" Bellhousing, rear-mount, 110T RG, 6 o' clock solenoid position  | <b>54-41047</b> | 54-422HD             | Contact Tilton             | Contact Tilton         |
| Tilton 7.25" Bellhousing, rear-mount, 110T RG, 11 o' clock solenoid position | <b>54-41647</b> | 54-422HD             | Contact Tilton             | Contact Tilton         |
| VW-Type transaxle  | <b>54-41053</b> | 54-422HD             | 54-421R                    | 54-042R                |

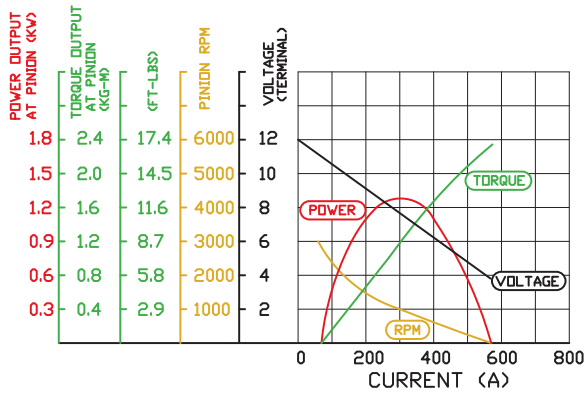
Installation drawing for 40000-Series Super Starter is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





## Features

- ▶ Lightweight yet powerful, the 1.6 HP motor provides fast torque to start high performance engines.
- ▶ Precision machined components are held to critical tolerances, ensuring high performance and a perfect fit.
- ▶ Internal vibration damping and electrical insulation provide longevity and maximum performance.
- ▶ High-strength (grade 10.9) socket head fasteners ensure rigid assembly and easy access for hex keys.
- ▶ Thread locking compound is used on all fasteners and are secured to precise torque specifications.



Motor Power:

**1.6 HP (1.2 kW)**

Weight:

**7.0 lbs**

Rec. Engine Size:

**Up to 400 C.I.D.**

Rec. Compression Ratio:

**Up to 10.5 : 1**

| XLT-Series Super Starter                      |                 |                      |                            |                           |
|---|-----------------|----------------------|----------------------------|---------------------------|
| Application                                   | Part Number     | Replacement Solenoid | Replacement Drive Assembly | Replacement Mounting Hose |
| Cosworth BDA, FT transaxle                    | <b>54-50086</b> | 54-422PM             | 54-5410                    | 54-586                    |
| Formula Ford, Hewland MK5/MK8, 110T RG        | <b>54-50030</b> | 54-422PM             | 54-5410                    | 54-530                    |
| Tilton 7.25" bellhousing, rear-mount, 110T RG | <b>54-61048</b> | 54-422PM             | Contact Tilton             | 54-6016A                  |
| Universal, no mount nose, 9T, 10-Pitch        | <b>54-5110</b>  | 54-422PM             | 54-5410                    | NA                        |
| Universal, no mount nose, 10T, 12-Pitch       | <b>54-5100</b>  | 54-422PM             | 54-5400                    | NA                        |

Installation drawing for XLT Super Starters is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





### Intermittent Use Pumps

**Pump Motor Duty Cycle: 1-2 hr with 15 minute cool down**

P/N: 40-524 (Buna) | P/N: 40-525 (Viton)

Designed for applications where pump does not need to be used continuously, such as being turned on/off by the driver or by a relay at an established temperature. Options include Buna or Viton rubber diaphragm and check valve.



### Continuous Duty Pumps

**Pump Motor Duty Cycle: Up to 1000 hours continuous**

P/N: 40-527 (Buna)

Designed for applications where the pump needs to operate continuously for longer than 2 hours at a time without cool down.

Tilton cooler pumps are ideal for pumping oil through transmission and differential coolers. They can also be used for many other applications, such as emptying fuel tanks or circulating coolant. Each pump features an internal bypass valve and is self-priming up to 8-ft above the source from which it draws. Tilton cooler pumps are a positive displacement type of pump, so their output is directly proportional to the motor speed. For example, if a lighter load increases the motor speed by 25%, then the flow rate increases by 25%.

#### **Buna model**

Designed for use with standard oils and coolants.

#### **Viton model**

Designed for use with corrosive fluids such as alcohol.

P/Ns: **See List**

Pump head ports: **3/8" NPT**

Recommended line size: **AN-8**

Smallest line size: **AN-4**

Flow Rate: **1-2 GPM (varies by load)**

Maximum Pressure: **50 PSI**

Continuous Duty Temp: **40° – 160° F (4° – 71° C)**

Intermittent Use Max Temp: **265° F (130° C)**

Power: **12-Volt DC**

#### **Dimensions (L x W x H):**

Intermittent Use Models: **7.63" x 3.93" x 3.62"**

Continuous Duty Model: **8.57" x 3.93" x 3.62"**

#### **Weights:**

Intermittent Use Models: **3.5 lbs. (1.6 kg)**

Continuous Duty Model: **5.5 lbs. (2.5 kg)**

#### Typical Applications

- Transmission Cooler
- Differential Cooler
- Coolant Distribution
- Fuel Tank/Line Flush

### Cooler Pumps

|                                    |        |
|------------------------------------|--------|
| Intermittent duty, Buna diaphragm  | 40-524 |
| Intermittent duty, Viton diaphragm | 40-525 |
| Continuous duty, Buna diaphragm    | 40-527 |

#### Service Parts

#### Part Numbers

##### Diaphragm kit

|       |        |
|-------|--------|
| Buna  | 40-902 |
| Viton | 40-912 |

##### Check valve assembly

|       |        |
|-------|--------|
| Buna  | 40-934 |
| Viton | 40-935 |



# 600 SERIES

Tilton 600-Series pedal assemblies are the benchmark for pedal assemblies of their type, offering great performance and value. 600-Series pedal assemblies are categorized by the use of a traditional spherical bearing type balance bar and flange mounted master cylinders.

600-Series pedal assemblies are available in **Firewall-mount**, **Floor-mount**, **Overhung** and **Underfoot** configurations.

## Features

*Lightweight forged aluminum pedals provide high-strength and rigidity.*

*Lightweight permanent mold cast aluminum frame feature guide ramps that minimizing balance bar "tipping" for improved performance.*

*7/16" diameter spherical bearing type balance bar minimizes flex and provides solid pedal feel. Aluminum clevises feature low friction coating for durability and smooth action.*

*Pedal pivots feature wave washers to reduce lateral pedal movement and oil-impregnated bronze bushings for smoother operation and long service life.*

*Adjustable pedal ratio.*

*Adjustable pedal pad positions.*

*Adjustable clutch and/or throttle stops limit pedal travel (most models).*





◀ 2-Pedal Underfoot  
(Clutch, Brake & Throttle)

Pedal Ratio: **5.4:1 – 6.9:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **6.4 lbs (2.9 kg)**

Part Number: **72-616**



◀ 2-Pedal Underfoot  
(Clutch & Brake)

Pedal Ratio: **5.4:1 – 6.9:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **5.0 lbs (2.3 kg)**

Part Number: **72-617**



◀ 2-Pedal Underfoot  
(Brake & Throttle)

Pedal Ratio: **5.0:1 - 6.2:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **4.6 lbs (2.2 kg)**

Part Number: **72-618**

\*Does not include master cylinders

### Accessories

| Description  | Part Number                    |
|--|--------------------------------|
| Throttle linkage kit, drive-by-wire (sensor not included)    | <b>72-794</b>                  |
| Throttle linkage kit, mechanical type                        | <b>72-793</b>                  |
| Clevis, for use with throttle cables with 10-32 threaded end | <b>72-797</b>                  |
| Master cylinder, 76-Series                                   | <b>See page 62 for options</b> |
| Remote brake bias adjuster                                   | <b>See page 66 for options</b> |
| Replacement pedal pad with anti-slip tape, narrow            | <b>72-6035</b>                 |
| Replacement pedal pad with anti-slip tape, wide              | <b>72-6034</b>                 |
| Replacement anti-slip tape, narrow                           | <b>72-9014</b>                 |
| Replacement anti-slip tape, wide                             | <b>72-9026</b>                 |

Installation drawing for 600-Series Underfoot Pedal Assembly is available at  
[www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





### 3-Pedal Floor-mount (Clutch, Brake & Throttle)

Pedal Ratio: **5.3:1 - 5.8:1**

Pedal Pad Adjustment: **Horizontal, Vertical**

Weight\*: **5.5 lbs (2.5 kg)**

Part Number: **72-603**



### 2-Pedal Underfoot (Clutch & Brake)

Pedal Ratio: **5.3:1 - 5.8:1**

Pedal Pad Adjustment: **Horizontal, Vertical**

Weight\*: **4.6 lbs (2.1 kg)**

Part Number: **72-604**

\*Does not include master cylinders

## Accessories

| Description  | Part Number                    |
|--|--------------------------------|
| Throttle linkage kit, drive-by-wire (sensor not included)    | <b>72-794</b>                  |
| Throttle linkage kit, mechanical type                        | <b>72-793</b>                  |
| Clevis, for use with throttle cables with 10-32 threaded end | <b>72-797</b>                  |
| Master cylinder, 76-Series                                   | <b>See page 62 for options</b> |
| Master cylinder, 75-Series                                   | <b>See page 62 for options</b> |
| Master cylinder, 74-Series                                   | <b>See page 63 for options</b> |
| Master cylinder, 73-Series                                   | <b>See page 63 for options</b> |
| Reservoir brake bias adjuster                                | <b>See page 66 for options</b> |
| Reservoir  | <b>See page 65 for options</b> |
| Replacement pedal pad with anti-slip tape, narrow            | <b>72-6035</b>                 |
| Replacement pedal pad with anti-slip tape, wide              | <b>72-6034</b>                 |
| Replacement anti-slip tape, narrow                           | <b>72-9014</b>                 |
| Replacement anti-slip tape, wide                             | <b>72-9026</b>                 |

Installation drawing for 600-Series Floor-mount Pedal Assembly is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





### 2-Pedal Firewall-mount (Clutch & Brake)

Pedal Ratio: **5.0:1 – 6.2:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **4.8 lbs (2.2 kg)**

Part Number: **72-607**



### 2-Pedal Overhung (Clutch & Brake)

Pedal Ratio: **5.0:1 - 6.2:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **4.8 lbs (2.2 kg)**

Part Number: **72-608**



### Throttle Pedal

Shown with optional P/N 72-791 throttle linkage kit

Pedal Ratio: **5.0:1 - 6.2:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **1.7 lbs (0.8 kg)**

Part Number: **72-615**

*\*Does not include master cylinders*

### Accessories

| Description  | Part Number                    |
|--|--------------------------------|
| Throttle linkage kit, drive-by-wire (sensor not included)    | <b>72-792</b>                  |
| Throttle linkage kit, mechanical type                        | <b>72-791</b>                  |
| Clevis, for use with throttle cables with 10-32 threaded end | <b>72-797</b>                  |
| Master cylinder, 76-Series                                   | <b>See page 62 for options</b> |
| Master cylinder, 75-Series                                   | <b>See page 62 for options</b> |
| Master cylinder, 74-Series                                   | <b>See page 63 for options</b> |
| Master cylinder, 73-Series                                   | <b>See page 63 for options</b> |
| Remote brake bias adjuster                                   | <b>See page 66 for options</b> |
| Reservoir  | <b>See page 65 for options</b> |
| Replacement pedal pad with anti-slip tape, narrow            | <b>72-9035</b>                 |
| Replacement pedal pad with anti-slip tape, wide              | <b>72-9034</b>                 |
| Replacement anti-slip tape, narrow                           | <b>72-9014</b>                 |
| Replacement anti-slip tape, wide                             | <b>72-9026</b>                 |







# 800 SERIES

Tilton 800-Series pedal assemblies merge the performance of Tilton's 900-Series pedal assemblies with the renowned value of Tilton's 600-Series pedal assemblies. 800-Series pedal assemblies are categorized by use of a high-efficiency spherical bearing type balance bar, combined with pivot-mount master cylinders for the brakes, limits balance bar motion to the horizontal plane to reduce brake pressure migration issues. All 800-Series pedal assemblies, except for Underfoot assemblies, utilize a traditional flange-mount master cylinder to help reduce costs.

800-Series pedal assemblies are available in **Firewall-mount**, **Floor-mount**, **Overhung** and **Underfoot** configurations. Underfoot configurations are also available with an optional slide system for quick pedal assembly position changes.

## Features

*Lightweight forged aluminum pedals provide high-strength and rigidity.*

*Lightweight permanent mold cast aluminum frame.*

*High-efficiency 7/16" balance bar, combined with pivot-mount master cylinders, limits motion to the horizontal plane to reduce brake pressure migration issues.*

*Pedal pivots feature wave washers to reduce lateral pedal movement and oil-impregnated bronze bushings for smoother operation and long service life.*

*Adjustable pedal ratio.*

*Adjustable pedal pad positions.*

*Adjustable clutch and/or throttle stops limit pedal travel (most models).*





### 3-Pedal Underfoot (Clutch, Brake & Throttle)

Pedal Ratio: **4.8:1 - 6.1:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **7.6 lbs (3.5 kg)**

Part Number: **72-856**



### 2-Pedal Underfoot (Clutch & Throttle)

Pedal Ratio: **4.8:1 - 6.1:1**

Pedal Pad Adjustment: **Horizontal, Vertical**

Weight\*: **6.2 lbs (2.8 kg)**

Part Number: **72-857**

*\*Does not include master cylinders*

## Accessories



*Optional false floor kit (72-853-FF)*

| Description  | Part Number                    |
|--|--------------------------------|
| False floor kit  | <b>72-853-FF</b>               |
| Throttle linkage kit, drive-by-wire (sensor not included)    | <b>72-794</b>                  |
| Throttle linkage kit, mechanical type                        | <b>72-793</b>                  |
| Clevis, for use with throttle cables with 10-32 threaded end | <b>72-797</b>                  |
| Master cylinder, 78-Series pivot mount                       | <b>See page 61 for options</b> |
| Master cylinder, 79-Series pivot mount, ABS compatible       | <b>See page 61 for options</b> |
| Remote brake bias adjuster                                   | <b>See page 66 for options</b> |
| Reservoir  | <b>See page 65 for options</b> |
| Replacement pedal pad with anti-slip tape, narrow            | <b>72-9035</b>                 |
| Replacement pedal pad with anti-slip tape, wide              | <b>72-9034</b>                 |
| Replacement anti-slip tape, narrow                           | <b>72-9014</b>                 |
| Replacement anti-slip tape, wide                             | <b>72-9026</b>                 |

Installation drawing for 850-Series Underfoot (non-slider) Pedal Assembly is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





## 3-Pedal Underfoot (Clutch, Brake & Throttle)

Pedal Ratio: **4.8:1 - 6.1:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Pedal Assembly Adjustment: **14-position (7" total travel; 1/2" increments)**

Weight\*: **14.4 lbs (6.5 kg)**

Part Number: **72-850**



## 2-Pedal Underfoot (Clutch & Brake)

Pedal Ratio: **4.8:1 - 6.1:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Pedal Assembly Adjustment: **14-position (7" total travel; 1/2" increments)**

Weight\*: **13.0 lbs (5.9 kg)**

Part Number: **72-851**

*\*Does not include master cylinders*



*72-850 included false floor*

## Accessories

| Description  | Part Number                    |
|--|--------------------------------|
| Throttle linkage kit, drive-by-wire (sensor not included)    | <b>72-794</b>                  |
| Throttle linkage kit, mechanical type                        | <b>72-793</b>                  |
| Clevis, for use with throttle cables with 10-32 threaded end | <b>72-797</b>                  |
| Master cylinder, 78-Series pivot mount                       | <b>See page 61 for options</b> |
| Master cylinder, 79-Series pivot mount, ABS compatible       | <b>See page 61 for options</b> |
| Remote brake bias adjuster                                   | <b>See page 66 for options</b> |
| Reservoir  | <b>See page 65 for options</b> |
| Replacement pedal pad with anti-slip tape, narrow            | <b>72-6035</b>                 |
| Replacement pedal pad with anti-slip tape, wide              | <b>72-6034</b>                 |
| Replacement anti-slip tape, narrow                           | <b>72-9014</b>                 |
| Replacement anti-slip tape, wide                             | <b>72-9026</b>                 |

Installation drawing for 850-Series Underfoot (slider) Pedal Assembly is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)



## 800-SERIES FLOOR-MOUNT (2 &amp; 3-PEDAL)



### 3-Pedal Floor-mount (Clutch, Brake & Throttle)

Pedal Ratio: **5.3:1 - 6.8:1**Pedal Pad Adjustment: **Horizontal, Vertical**Weight\*: **6.3 lbs (2.8 kg)**Part Number: **72-803**

### 2-Pedal Underfoot (Clutch & Brake)

Pedal Ratio: **5.3:1 - 5.8:1**Pedal Pad Adjustment: **Horizontal, Vertical**Weight\*: **5.3 lbs (2.4 kg)**Part Number: **72-804**

\*Does not include master cylinders

## Accessories

| Description   | Part Number                    |
|---|--------------------------------|
| Throttle linkage kit, drive-by-wire (sensor not included)       | <b>72-792</b>                  |
| Throttle linkage kit, mechanical type                           | <b>72-791</b>                  |
| Clevis, for use with throttle cables with 10-32 threaded end    | <b>72-797</b>                  |
| Master cylinder, 76-Series (clutch)                             | <b>See page 62 for options</b> |
| Master cylinder, 78-Series pivot mount (brakes)                 | <b>See page 61 for options</b> |
| Master cylinder, 79-Series pivot mount, ABS compatible (brakes) | <b>See page 61 for options</b> |
| Remote brake bias adjuster                                      | <b>See page 66 for options</b> |
| Reservoir   | <b>See page 65 for options</b> |
| Replacement pedal pad with anti-slip tape, narrow               | <b>72-6035</b>                 |
| Replacement pedal pad with anti-slip tape, wide                 | <b>72-6034</b>                 |
| Replacement anti-slip tape, narrow                              | <b>72-9014</b>                 |
| Replacement anti-slip tape, wide                                | <b>72-9026</b>                 |

Installation drawing for 800-Series Floor-Mount Pedal Assembly is available at  
[www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





*\*Does not include master cylinders*

## 2-Pedal Firewall-mount (Clutch, Brake & Throttle)

Pedal Ratio: **5.0:1 - 6.2:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **5.5 lbs (2.5 kg)**

Part Number: **72-807**

## 2-Pedal Overhung (Clutch & Brake)

Pedal Ratio: **5.0:1 - 6.2:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **5.5 lbs (2.5 kg)**

Part Number: **72-808**

## Throttle Pedal

Shown with optional P/N 72-791 throttle linkage kit

Pedal Ratio: **5.0:1 - 6.2:1**

Pedal Pad Adjustment: **Horizontal, Vertical, Angle**

Weight\*: **1.7 lbs (0.8 kg)**

Part Number: **72-615**

### Accessories

| Description   | Part Number                    |
|---|--------------------------------|
| Throttle linkage kit, drive-by-wire (sensor not included)       | <b>72-792</b>                  |
| Throttle linkage kit, mechanical type                           | <b>72-791</b>                  |
| Clevis, for use with throttle cables with 10-32 threaded end    | <b>72-797</b>                  |
| Master cylinder, 76-Series (clutch)                             | <b>See page 62 for options</b> |
| Master cylinder, 78-Series pivot mount (brakes)                 | <b>See page 61 for options</b> |
| Master cylinder, 79-Series pivot mount, ABS compatible (brakes) | <b>See page 61 for options</b> |
| Remote brake bias adjuster                                      | <b>See page 66 for options</b> |
| Reservoir   | <b>See page 65 for options</b> |
| Replacement pedal pad with anti-slip tape, narrow               | <b>72-6035</b>                 |
| Replacement pedal pad with anti-slip tape, wide                 | <b>72-6034</b>                 |
| Replacement anti-slip tape, narrow                              | <b>72-9014</b>                 |
| Replacement anti-slip tape, wide                                | <b>72-9026</b>                 |

Installation drawing for 800-Series Overhung/Firewall Pedal Assembly is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





# 900 SERIES

Tilton 900-Series pedal assemblies provide the ultimate in racing pedal assembly technology, optimized to provide maximum braking performance and weigh savings. 900-Series pedal assemblies are categorized by the use of an ultra-efficient trunnion type balance bar, combined with pivot-mount brake master cylinders, to virtually eliminate brake pressure migration issues. In addition, pedal frame and pedals are machined from billet aluminum for maximum weight savings.

900-Series pedal assemblies are available in **Firewall-mount**, **Floor-mount**, and **Overhung** configurations.

## Features

*Lightweight billet aluminum pedals provide high-strength and rigidity.*



*Lightweight one-piece billet aluminum frame.*



*Trunnion-type balance bar features needle bearings at all pivots, providing the highest level of efficiency and smooth operation.*



*Pedal pivots feature needle bearing and/or ball bearings for the ultimate in smooth operation and service life.*



*Adjustable pedal ratio.*



*Adjustable pedal pad positions.*



*Adjustable clutch and/or throttle stops limit pedal travel (most models).*





◀ 3-Pedal Floor-mount  
(Clutch & Brake Throttle)

Pedal Ratio: **4.5:1 - 5.8:1**

Pedal Pad Adjustment: **Horizontal, Vertical**

Weight\*: **5.0 lbs (2.3 kg)**

Part Number: **72-903**



◀ 2- Pedal Overhung  
(Clutch & Brake)

Pedal Ratio: **4.5:1 - 5.8:1**

Pedal Pad Adjustment: **Horizontal, Vertical**

Weight\*: **4.4 lbs (2.0 kg)**

Part Number: **72-902**



◀ 2-Pedal Firewall-mount  
(Clutch & Brake)

Pedal Ratio: **5.0:1 - 6.2:1**

Pedal Pad Adjustment: **Horizontal, Vertical**

Weight\*: **4.9 lbs (2.2 kg)**

Part Number: **72-901**

\*Does not include master cylinders

## Accessories

| Description  | Part Number                    |
|--|--------------------------------|
| Throttle linkage kit for 72-903, drive-by-wire (sensor not included) | <b>72-792</b>                  |
| Throttle linkage kit for 72-903, mechanical type                     | <b>72-791</b>                  |
| Clevis, for use with throttle cables with 10-32 threaded end         | <b>72-797</b>                  |
| Firewall Plate Kit for use with 72-901                               | <b>72-799</b>                  |
| Master cylinder, 78-Series pivot mount (clutch or brakes)            | <b>See page 61 for options</b> |
| Master cylinder, 79-Series pivot mount , ABS compatible (brakes)     | <b>See page 61 for options</b> |
| Remote brake bias adjuster   | <b>See page 66 for options</b> |
| Reservoir  | <b>See page 65 for options</b> |

Installation drawing for 900-Series Floor-mount/Overhung/Firewall Assembly is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





### Features

- ABS compatible
- Spherical bearing mount with one-piece pushrod/piston eliminates side thrust loads on bore to provide long service life and consistent braking
- Billet aluminum body with low-friction coating
- Hand-built and blueprinted for cutoff port travel
- 1.1" stroke
- AN3 outlet port
- AN4 o-ring seal inlet port swivel fitting (sold separately)
- Fits Tilton 800-Series and 900-Series pedal assemblies/balance bars



### Features

- Spherical bearing mount with one-piece pushrod/piston eliminates side thrust loads on bore to provide long service life and consistent braking
- Billet aluminum body with low-friction coating
- Hand-built and blueprinted for cutoff port travel
- 1.1" stroke
- AN3 outlet port
- 9/16"-18 inlet port
- Fits Tilton 800-Series and 900-Series pedal assemblies/balance bars

### 79-Series Master Cylinder

Spherical bearing-mount master cylinder specifically designed for use with ABS systems. Unlike traditional master cylinders, 79-Series master cylinders do not utilize a conventional cut-off port, and instead, feature a unique port strategy with a mechanically opened cut-off/compensation path. This design greatly reduces the chance of seal damage caused by high pressure pulsations sent back to the master cylinder by the ABS system.

| Description                                      | Part Number   |
|--|---------------|
| 79-Series master cylinder, 5/8" (15.88mm) bore   | <b>79-625</b> |
| 79-Series master cylinder, 7/10" (17.78mm) bore  | <b>79-700</b> |
| 79-Series master cylinder, 3/4" (19.05mm) bore   | <b>79-750</b> |
| 79-Series master cylinder, 13/16" (20.64mm) bore | <b>79-812</b> |
| 79-Series master cylinder, 7/8" (22.23mm) bore   | <b>79-875</b> |
| Inlet adapter, swivel type AN4 male end          | <b>79-523</b> |

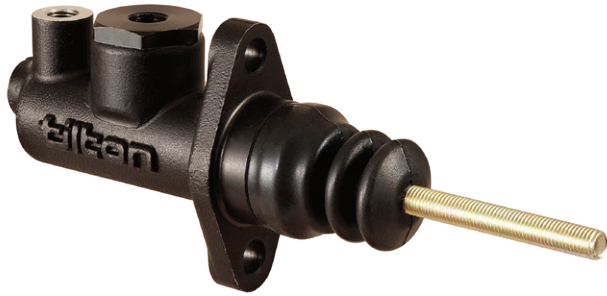
### 78-Series Master Cylinder

Lightweight and compact spherical bearing-mount master cylinder. Direct replacement to Tilton 77-Series master cylinders

| Description                                      | Part Number    |
|--|----------------|
| 78-Series master cylinder, 5/8" (15.88mm) bore   | <b>78-625</b>  |
| 78-Series master cylinder, 7/10" (17.78mm) bore  | <b>78-700</b>  |
| 78-Series master cylinder, 3/4" (19.05mm) bore   | <b>78-750</b>  |
| 78-Series master cylinder, 13/16" (20.64mm) bore | <b>78-812</b>  |
| 78-Series master cylinder, 7/8" (22.23mm) bore   | <b>78-875</b>  |
| 78-Series master cylinder, 15/16" (23.81mm) bore | <b>78-937</b>  |
| 78-Series master cylinder, 1" (25.40mm) bore     | <b>78-1000</b> |
| Inlet adapter, straight, 9/16"-18 to AN4 male    | <b>77-015</b>  |
| Inlet adapter, banjo type, 9/16"-18 to AN4 male  | <b>78-3400</b> |







## 76-Series Master Cylinder

Compact flange-mount master cylinder features dual outlet port options and a 7/16"-20 inlet port. Inlet port adapter can be removed to fit Tilton direct-mount reservoir (P/N 74-240)

### Features

- Flange-mount onto pedal assemblies with 2.25" center-to-center mounting studs
- Aluminum alloy body is black anodized for corrosion resistance
- 1.1" stroke
- Dual AN3 outlet port options (rear & top). Top outlet port is deep for use with most banjo fittings. Rear outlet port is standard depth AN3 spec.
- 7/16"-20 inlet port
- Fits Tilton 600-Series and 800-Series (clutch only) pedal assemblies/balance bars

| Description                                      | Part Number    |
|--|----------------|
| 76-Series master cylinder, 5/8" (15.88mm) bore   | <b>76-625</b>  |
| 76-Series master cylinder, 7/10" (17.78mm) bore  | <b>76-700</b>  |
| 76-Series master cylinder, 3/4" (19.05mm) bore   | <b>76-750</b>  |
| 76-Series master cylinder, 13/16" (20.64mm) bore | <b>76-812</b>  |
| 76-Series master cylinder, 7/8" (22.23mm) bore   | <b>76-875</b>  |
| 76-Series master cylinder, 1" (25.40mm) bore     | <b>76-1000</b> |
| Direct mount reservoir, 5.3 oz (158ml)           | <b>74-240</b>  |



## 75-Series Master Cylinder

Compact flange-mount universal master cylinder kit. Universal kit includes 6.8 oz reservoir, remote mount reservoir components and fittings.

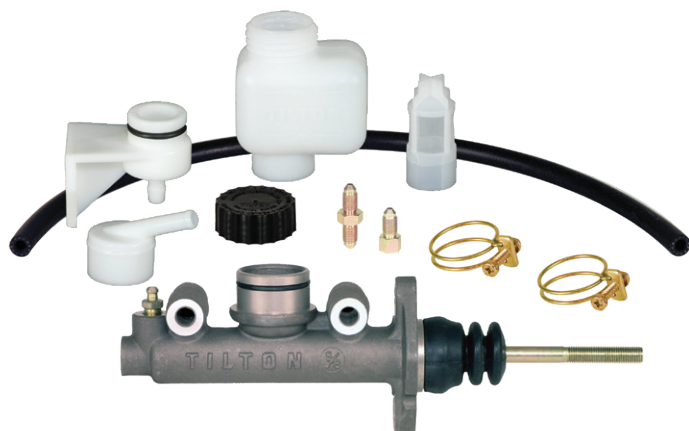
### Features

- Flange-mount onto pedal assemblies with 2.25" center-to-center mounting studs
- Aluminum alloy body is black anodized for corrosion resistance
- 1.1" stroke
- AN3 outlet port
- Direct mount or remote-mount reservoir options
- Fits Tilton 600-Series and 800-Series (clutch only) pedal assemblies/balance bars

| Description                                      | Universal Master Cylinder Kit | Master Cylinder Only |
|--|-------------------------------|----------------------|
| 75-Series master cylinder, 5/8" (15.88mm) bore   | <b>75-625U</b>                | <b>75-625</b>        |
| 75-Series master cylinder, 7/10" (17.78mm) bore  | <b>75-700U</b>                | <b>75-700</b>        |
| 75-Series master cylinder, 3/4" (19.05mm) bore   | <b>75-750U</b>                | <b>75-750</b>        |
| 75-Series master cylinder, 13/16" (20.64mm) bore | <b>75-812U</b>                | <b>75-812</b>        |
| 75-Series master cylinder, 7/8" (22.23mm) bore   | <b>75-875U</b>                | <b>75-875</b>        |
| 75-Series master cylinder, 1" (25.40mm) bore     | <b>75-1000U</b>               | <b>75-1000</b>       |

Installation drawing for 76-Series and 75-Series Master Cylinder is available at [www.tiltonracing.com/technical/installation-drawings](http://www.tiltonracing.com/technical/installation-drawings)





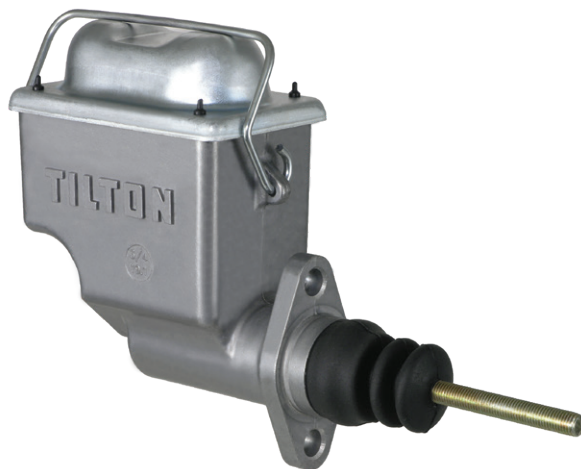
### Features

- Flange-mount onto pedal assemblies with 2.25" center-to-center mounting studs
- 3.00" center-to-center side mount option
- Aluminum alloy body is clear anodized for corrosion resistance
- 1.1" stroke
- Dual AN3 outlet port options. Includes bleed screw installed into top port.
- Direct mount or remote-mount reservoir options
- Fits Tilton 600-Series pedal assemblies/balance bars

### 74-Series Master Cylinder

Continuously improved since their introduction in 1986, the venerable 74-Series universal master cylinder kits have become a trusted favorite of car builders and race teams due to their reliability and value. Universal kit includes 6.8 oz reservoir, remote mount reservoir components and fittings.

| Description                                      | Universal Master Cylinder Kit | Master Cylinder Only |
|--|-------------------------------|----------------------|
| 74-Series master cylinder, 5/8" (15.88mm) bore   | <b>74-625U</b>                | <b>74-625</b>        |
| 74-Series master cylinder, 7/10" (17.78mm) bore  | <b>74-700U</b>                | <b>74-700</b>        |
| 74-Series master cylinder, 3/4" (19.05mm) bore   | <b>74-750U</b>                | <b>74-750</b>        |
| 74-Series master cylinder, 13/16" (20.64mm) bore | <b>74-812U</b>                | <b>74-812</b>        |
| 74-Series master cylinder, 7/8" (22.23mm) bore   | <b>74-875U</b>                | <b>74-875</b>        |
| 74-Series master cylinder, 1" (25.40mm) bore     | <b>74-1000U</b>               | <b>74-1000</b>       |
| 74-Series master cylinder, 1 1/8" (28.58mm) bore | <b>74-1125U</b>               | <b>74-1125</b>       |



### Features

- Flange-mount onto pedal assemblies with 2.25" center-to-center mounting studs
- High pressure die-cast aluminum alloy body provides machined-look finish
- Integral 10 oz reservoir feature an expanding bellow to keep elements away from brake fluid
- 1.1" stroke
- 1/8" NPT outlet port
- Fits Tilton 600-Series pedal assemblies/balance bars

### 73-Series Master Cylinder

Designed for applications that require large fluid capacity in a leak-proof integral reservoir. 10 oz fluid chamber is completely sealed from the outside environment while still allowing fluid level changes.

| Description                                    | Part Number    |
|--|----------------|
| 73-Series master cylinder, 3/4" (19.05mm) bore | <b>73-750</b>  |
| 73-Series master cylinder, 7/8" (22.23mm) bore | <b>73-875</b>  |
| 73-Series master cylinder, 1" (25.40mm) bore   | <b>73-1000</b> |





## Master Cylinder Rebuild Kits

Includes master cylinder internals and dust boot

| Bore Size        | 74-Series | 75-Series | 76-Series | 78-Series | 79-Series |
|------------------|-----------|-----------|-----------|-----------|-----------|
| 5/8" (15.88mm)   | 74-625RK  | 75-625RK  | 76-625RK  | 78-625RK  | 79-625RK  |
| 7/10" (17.78mm)  | 74-700RK  | 75-700RK  | 76-700RK  | 78-700RK  | 79-700RK  |
| 3/4" (19.05mm)   | 74-750RK  | 75-750RK  | 76-750RK  | 78-750RK  | 79-750RK  |
| 13/16" (20.64mm) | 74-812RK  | 75-812RK  | 76-812RK  | 78-812RK  | 79-812RK  |
| 7/8" (22.23mm)   | 74-875RK  | 75-875RK  | 76-875RK  | 78-875RK  | 79-875RK  |
| 15/16" (23.81mm) | N/A       | N/A       | N/A       | 78-937RK  | N/A       |
| 1" (25.40mm)     | 74-1000RK | 75-1000RK | 76-1000RK | 78-1000RK | N/A       |
| 1 1/8" (28.58mm) | 74-1125RK | 75-1125RK | N/A       | N/A       | N/A       |

## Master Cylinder Service Parts



| Description                                | Label | 74-Series   | 75-Series   | 76-Series |
|--|-------|-------------|-------------|-----------|
| Reservoir, 4.0 oz                          | A     | 74-202      | 74-202      | N/A       |
| Reservoir, 6.8 oz                          | B     | 74-203      | 74-203      | N/A       |
| Reservoir, 10.7 oz                         | C     | 74-204      | 74-204      | N/A       |
| Filter, 4.0 and 6.8 oz reservoirs          | D     | 74-210      | 74-210      | N/A       |
| Filter, 10.7 oz reservoirs                 | E     | 74-211      | 74-211      | N/A       |
| Cap, reservoir                             | F     | 74-207      | 74-207      | N/A       |
| Clamp, reservoir                           | G     | 74-208      | 74-208      | N/A       |
| O-ring, master cylinder/reservoir          | N/A   | 74-212-B    | 74-212-A    | N/A       |
| Pushrod                                    | N/A   | 74-400      | 75-030      | 75-030    |
| Remote reservoir mount bracket with o-ring | H     | 74-212      | 74-212      | N/A       |
| Remote inlet adapter                       | I     | 74-200      | 74-200      | N/A       |
| O-ring, remote mount bracket               | N/A   | 74-212-A    | 74-212-A    | N/A       |
| Hose kit, 96", incl. 6 clamps              | N/A   | 74-221      | 74-221      | N/A       |
| Hose 24"                                   | J     | 74-214      | 74-214      | N/A       |
| Hose, bulk, sold by the foot               | N/A   | 72-502      | 72-502      | N/A       |
| Fitting, union, AN3 male/male              | K     | 73-820      | 73-820      | 73-820    |
| Fitting, AN3 male to 3/16" female          | L     | TE2089-188L | TE2089-188L | N/A       |
| Bleedscrew, AN3                            | N/A   | 28696       | N/A         | N/A       |





### Features

- Fiberglass reinforced nylon body
- Gasket-sealed removable lid allows for easy cleaning
- Reservoir lid features safety screens to prevent foreign objects from falling into chambers
- Leak-proof baffle design insures that fluid remains in reservoir
- Standard capacity and low profile options available for AN4 type reservoirs

| Reservoir Type    | Rear Brake Chamber | Front Brake Chamber | Clutch Chamber  |
|-------------------|--------------------|---------------------|-----------------|
| Standard Capacity | 8.9 oz (263ml)     | 10.3 oz (313 ml)    | 4.6 oz (136 ml) |
| Low Profile       | 4.0 oz (117ml)     | 6.1 oz (182 ml)     | 2.0 oz (59ml)   |

| Description   | Part Number     |
|---|-----------------|
| 3-chamber reservoir, standard capacity, hose barb connection          | <b>72-576</b>   |
| 3-chamber reservoir, standard capacity, AN4 connection                | <b>72-577</b>   |
| 3-chamber reservoir, low profile, AN4 connection                      | <b>72-578</b>   |
| Hose kit for 72-576 reservoir, includes 96" of hose and 6 hose clamps | <b>72-221</b>   |
| Replacement cap, less baffle  | <b>72-576-6</b> |
| Replacement baffle for cap, funnel type                               | <b>72-576-4</b> |
| Replacement lid gasket  | <b>72-576-3</b> |

### 3-Chamber Reservoirs

Incorporates the clutch, front brake and rear brake fluid reservoirs into one convenient package. 2-hole mount provides simple installation onto firewall/bulkhead. The three separate internal chambers allow for complete evacuation of one chamber without affecting the remaining two chambers. Standard capacity reservoirs are available with either hose-barb or AN4 fitting connection. Low profile reservoirs is only available with AN4 fitting connection.



### Single Chamber Reservoirs

Single chamber reservoirs with 5.3 oz (158 ml) fluid capacity. Available with AN4 fitting for remote-mount applications or with a 15/16"-20 adapter for direct mounting onto Tilton 76-Series master cylinders. Includes filter.

| Description  | Part Number   |
|--|---------------|
| 3-chamber reservoir, standard capacity, hose barb connection | <b>74-230</b> |
| 3-chamber reservoir, standard capacity, AN4 connection       | <b>74-240</b> |
| Replacement cap  | <b>72-207</b> |
| Replacement filter   | <b>74-211</b> |

## Remote Brake Bias Adjuster

Designed to enable remote front & rear brake bias adjustments by driver during competition. Standard model feature a plastic adjustment knob (red or yellow) with two spring-loaded nylon plungers on a stamped detent plate. Premium model features a billet aluminum knob and bulkhead-mount housing which incorporates dual detent system, with spring loaded steel ball bearings, for smooth and precise action. All models a high-quality 6-foot cable housed in a "wind up" resistant tubing. Includes couplers to fit 3/8"-24 and 7/16"-20 balance bars.

| Description   | Part Number |
|---|-------------|
| Remote brake bias adjuster, standard model, yellow knob | 72-508      |
| Remote brake bias adjuster, standard model, red knob    | 72-509      |
| Remote brake bias adjuster, premium model, black        | 72-408      |



## 90 Degree Couplers

Designed to connect remote brake bias adjusters to balance bars at a 90 degree angle. This enables the adjuster's cable to be routed from the rear so it does not interfere with the clutch or throttle pedal.

| Description                              | Part Number |
|--|-------------|
| 90 degree coupler, 3/8"-24 balance bars  | 72-560      |
| 90 degree coupler, 7/16"-20 balance bars | 72-561      |



## Brake Proportioning Valves

Designed to reduce brake line pressure to a particular wheel or wheels. Maximum line pressure decrease is approximately 60%. Features a billet aluminum body that can either bulkhead or panel mounted. Lever-type proportioning valves features 7 pre-determined pressure reduction settings. Screw-type proportioning valves provide fine pressure reduction adjustments. Available with AN3 ports or 10mm x 1.0 ports.

| Description                                       | Part Number |
|---|-------------|
| Proportioning valve, lever-type, AN3 ports        | 90-1000     |
| Proportioning valve, lever-type, 10mm x 1.0 ports | 90-1003     |
| Proportioning valve, screw-type, AN3 ports        | 90-2000     |
| Portioning valve, screw-type, 10mm x 1.0 ports    | 90-2003     |
| Rebuild kit for portioning valve                  | 90-1100     |



## Flow Control Valve

Designed to reduce shock to the driveline by allowing the clutch to slip slightly during engagement. Fluid flow is not restricted during clutch disengagement. Therefore, shift times are still quick and pedal feel does not change. Includes three orifice sizes (.021, .028" & .040") that enables clutch engagement to be tuned.

| Description                      | Part Number |
|----------------------------------|-------------|
| Flow control valve, AN3 fittings | 90-5000     |
| Replacement orifice, .021"       | 90-5100-021 |
| Replacement orifice, .028"       | 90-5100-028 |
| Replacement orifice, .040"       | 90-5100-040 |





# Master Cylinder Bore Sizing Form

GENERAL INFO BRAKE SYSTEM CONTACT

Please provide all the information listed on the form below. Email or fax the completed form to Tilton. This information will be used for calculation purposes so that we can make the best suggestion for master cylinder bore sizing. For best results, the most accurate information needs to be provided.

**Note:** Please note that the master cylinder suggestions provided by Tilton are predictions based upon calculations and should be taken as an estimated starting point only. They are not guaranteed. The vehicle should be tested at slow speeds in a controlled environment to confirm braking performance. If needed after testing, further suggestions can then be given based upon your feedback.

**Name:** \_\_\_\_\_

**Company:** \_\_\_\_\_

**Telephone number:** \_\_\_\_\_

**Email address:** \_\_\_\_\_

**Vehicle Make/Model:** \_\_\_\_\_

**Front Brake Details**

**Rear Brake Details:**

Number of pistons within each front caliper: \_\_\_\_\_

Number of pistons within each rear caliper: \_\_\_\_\_

Are pistons on one side or both sides of caliper: \_\_\_\_\_

Are pistons on one side or both sides of caliper: \_\_\_\_\_

Diameter of pistons on one side of caliper (list all): \_\_\_\_\_

Diameter of pistons on one side of caliper (list all): \_\_\_\_\_

Piston 1: \_\_\_\_\_ Piston 2: \_\_\_\_\_

Piston 1: \_\_\_\_\_ Piston 2: \_\_\_\_\_

Piston 3: \_\_\_\_\_ Piston 4: \_\_\_\_\_

Piston 3: \_\_\_\_\_ Piston 4: \_\_\_\_\_

Front rotor diameter: \_\_\_\_\_

Rear rotor diameter: \_\_\_\_\_

ABS (Yes or No): \_\_\_\_\_

ABS Manufacturer: \_\_\_\_\_

**What is the motion ratio of your brake pedal (5.5:1, 6.2:1, etc)?** \_\_\_\_\_

OR **If using a Tilton pedal assembly, please provide part number:** \_\_\_\_\_

**Vehicle weight (with driver and fuel):** \_\_\_\_\_

**Vehicle Weight Distribution (with driver and fuel):** Front % \_\_\_\_\_ Rear % \_\_\_\_\_

**Vehicle wheelbase:** \_\_\_\_\_

**Preferred pedal effort (85, 100 or 110 lbs):** \_\_\_\_\_

**Front tire diameter (outer):** \_\_\_\_\_

**Rear tire diameter (outer):** \_\_\_\_\_

**Type of tire (brand, model/compound):** \_\_\_\_\_

**What is the vehicle being used for (street, road racing, circle track, drag, etc)?:** \_\_\_\_\_

FAX: 805.688.2745 // EMAIL: sales@tiltonracing.com

Tilton Engineering, Inc. 25 Easy Street • PO Box 1787 • Buellton, CA 93427 • 805.688.2353 • [www.tiltonracing.com](http://www.tiltonracing.com)

## Where to Buy?

Tilton products are sold through a worldwide network of dealers. For information on where to buy Tilton products, or for a list of Tilton dealers, please contact us: **web:** [www.tiltonracing.com](http://www.tiltonracing.com) **email:** [sales@tiltonracing.com](mailto:sales@tiltonracing.com) **phone:** 805.688.2353.  
We can direct you to a dealer that is near you and/or stocks the product you are looking for.

**Note:** Tilton will sell service parts or replacements parts not typically stocked by Tilton dealers directly to customers.

## Technical Support

Tilton offers top-level technical support to customers, before and after the sale. Our technical support staff is very experienced, most with 20+ years at Tilton. For technical support, please contact us: **email:** [technical@tiltonracing.com](mailto:technical@tiltonracing.com) **phone:** 805.688.2353

## Custom Parts

Tilton does make custom parts on a made-to-order basis. These parts are sold directly through Tilton.  
For further information on custom part orders, please contact us: **email:** [sales@tiltonracing.com](mailto:sales@tiltonracing.com) **phone:** 805.688.2353

## Service

Tilton offers rebuild services on most of their products. We require that a Return Merchandise Authorization (RMA) number be obtained prior to sending products to Tilton for service. To obtain an RMA number, please contact us: **email:** [sales@tiltonracing.com](mailto:sales@tiltonracing.com) **phone:** 805.688.2353

## Limited Warranty

There is no warranty stated or implied, due the unusual stresses placed on racing/performance parts and because we have no control over how they are used. This warranty is in lieu of all other warranties expressed or implied, including the warranty of merchantability and fitness for use and all other obligations or liabilities on the Company's part. The obligation of TILTON ENGINEERING under this warranty shall be limited to the part or parts shown to be defective and the Company will not be responsible for any damage or loss caused by delays, failures or any consequential damage arising from any cause whatsoever, nor for labor, transportation or any other charges incurred in the replacement or repair of said defective part or parts.

This warranty to repair or replace is the only warranty expressed, implied or statutory on which the buyer purchases the Company's products. All other damages and warranties, statutory or otherwise, being expressly waived by the buyer.

TILTON ENGINEERING's warranty will not be in force for any merchandise which has not been paid for in full to the Company, or which has been subject to accident, negligence, alteration, abuse or misuse. The Company makes no warranty whatsoever with respect to accessories or parts not supplied by TILTON ENGINEERING.

TILTON ENGINEERING neither assumes, nor authorizes any person to assume for it, any other liability except as otherwise expressly provided for herein, in connection with the sale of TILTON ENGINEERING parts, products or services.

# tilton

Tilton Engineering, Inc.

25 Easy Street • P.O. Box 1787

Buellton, CA 93427 U.S.A.

ph +1.805.688.2353 • fax +1.805.688.2745

**[www.tiltonracing.com](http://www.tiltonracing.com)**

\$5.00 (98-255-20)