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Removable Blower Mount Starter

This is our most popular starter assembly. The blower mount removable starter features unobstructed access to the blower belt and top sprocket. This assembly features an aluminum frame and steel handle, and quick disconnect plug mounted on the starter. A second plug is included to attach your cables and battery pack. A hand wheel at the rear of the starter is used to manually engage the jaws thereby lengthening its life. With the starter removed, all that remains is the faceplate, stands, jaw and belt guard. This starter requires approximately 14” in front of the top blower sprocket.

PN: 100200-0011 Starter Assembly Blower Mount

Blower Mount Starter Drives

RCD offers a complete selection of blower mount starter drives for various applications. These starter drive mounts are used in conjunction with the blower mount removable starters. Starter drives are configured per application, utilizing a top blower belt guard or lightweight aluminum faceplate, various length stands and appropriate hardware. Stands for spacing are available in the following standard lengths: 1 3/4”, 2 5/8”, and 3”. Please call for configuration of your application.

Stiffener Kit

This optional stiffener kit can be used in conjunction with any of the standard length stands to increase their length by 1-1/4”. Kit includes bolts, spacers and aluminum stiffener. PN: 100521-0050
**Starter Motors**

RCD’s high torque electric starter is designed for the direct cranking of high performance racing engines. The unit consists of a heavy-duty electric motor, planetary reduction gearing, multiple-disk clutch, automatic engaging device and driving jaw. The motor is series wound, of the intermittent duty type, which produces a very high starting torque. The reduction gearing has a ratio of approximately 20:1. Torque overload protection is provided by a multiple-disk, lubricated clutch. The three-tooth starter jaw automatically engages when the starter switch is closed, and disengages when the engine starts. Operating on 48 volts DC, a minimum cranking speed of approximately 600 r.p.m. can be expected while drawing a maximum of 150 amperes. The motor, gear train, engaging mechanism and attaching drives are high quality construction, intended to provide years of service with minimum maintenance.

PN: 101500-0085 Starter w/ Handwheel 6”
P: 101500-0086 Starter w/ Handwheel 6” Reverse
PN: 101500-0090 Starter w/ Handwheel 7”
P: 101500-0091 Starter w/ Handwheel 7” Reverse

**Fixed Crank Mount Starter Drives**

This starter set-up is primarily for boats and pulling vehicles. It provides dependable starts and on-board control for one or two engines. Mounting brackets are available for all popular engines either blown or unblown.

This is the complete kit needed for your engine, if you use a fixed crank mount starter. Aluminum strut plates attach to the front of the block providing a strong foundation for the starter mount. Aluminum stands bolt to the 3/8” thick aluminum faceplate and to the strut plates to hold the starter concentric with the end of the crankshaft. The stands have dowels in both ends and diagonal braces for added rigidity. A steel engine jaw and aluminum spacer along with all bolts, studs, nuts and washers are provided in the kit. The unit requires 12-1/2” in front of the crankshaft. Weight 35 lbs. including starter.

Available for the following applications:
- Small Block Chevy
- Big Block Chevy
- TFX
- Chrysler 426/440
- 392/417

Please refer to price list for pricing and PN’s

This design combines the dependable starting features of the standard fixed starter drive with a crankshaft front bearing support. The kit provides a rigid aluminum crankshaft support and a solid starter platform. A steel drive hub with engine jaw keyed solidly to the drive hub. Total assembly requires 15-1/2” in front of the crankshaft and weighs 45 lbs. with starter.

Available for the following applications:
- Small Block Chevy
- Big Block Chevy
- TFX
- Chrysler 426/440
- 392/417

Please refer to price list for pricing and PN’s
This fixed crank mount starter drive was designed for unblown engines. With the stroker gear driver assembly snapped into the faceplate, the engine is easily rotated with the starter bolted to the bracket. The stroker assembly will fit on either side of the starter and removes in a second when you are ready to race.

P/N: 101030-0012 Fixed Crank Mount Drive 6in BBC  
P/N: 101030-0013 Fixed Crank Mount Drive 6in BBC w/Dampner  
P/N: 101030-0042 Fixed Crank Mount Drive 6in TFX  
P/N: 101030-0043 Fixed Crank Mount Drive 6in TFX w/Dampner  
P/N: 101030-0052 Fixed Crank Mount Drive 6in 426  
P/N: 101030-0053 Fixed Crank Mount Drive 6in 426 w/Dampner  
P/N: 101030-0012 Fixed Crank Mount Drive 6in BBC

Removable Crank Mount Starter

This starter is made for starting unblown engines directly off the crankshaft. The bracketry and special frame allow for ease of engagement and removal. This starter requires approximately 15” in front of the crankshaft and features the same electrical set-up as the “Removable Blower Mount Starter”.
PN: 10500-0020 Starter Assembly Removable

Crank Mount Removable Starter Drive

This is the complete kit needed for your engine. Aluminum strut plates attach to the front of the block providing a strong foundation for the starter mount. Aluminum stands bolt to the 3/8” thick aluminum faceplate and to the strut plates to hold the starter concentric with the end of the crankshaft. The stands have dowels in both ends and diagonal braces for added rigidity. A steel engine jaw and aluminum spacer along with all bolts, studs, nuts and washers are provided in the kit.

PN: 101040-0002 Removable Crank Starter Drive SBC  
PN: 101040-0012 Removable Crank Starter Drive BBC  
PN: 101040-0022 Removable Crank Starter Drive 417  
PN: 101040-0032 Removable Crank Starter Drive 481X  
PN: 101040-0042 Removable Crank Starter Drive TFX  
PN: 101040-0052 Removable Crank Starter Drive 426/440  
PN: 101040-0062 Removable Crank Starter Drive Fontana
**Champ Car Starter**

This starter and drive is designed for the tough job of starting a Silver Crown Champ Car through a drive shaft off the front of the engine. The starter anti-rotation foot can be hand-held against the ground. A pair of three tooth jaws, in the front drive head, provide complete disengagement of the starter and drive shaft as soon as the engine starts.

This starter also works well for the IRL, CART and Vintage Race Cars.

**Options and Accessories**

**Engine Jaw**

Machined from 4140 steel and heat treated for wear resistance. A 1/2” inch square hole is provided for rotating the engine when the starter is removed.

- PN: 101303-09 Engine Jaw 6-hole
- PN: 101303-09 Engine Jaw 6-hole Reverse
- PN: 101303-09 Engine Jaw 6-hole Titanium

**Engine Jaw Adapters**

These adapters allow the engine jaw to be installed on after-market harmonic dampers. We recommend two keys in the crankshaft and dampner.

- PN: 204205-15 ADP SBC Dampner to Starter Jaw
- PN: 204207-15 ADP BBC Dampner to Starter Jaw

**NOTE:** RCD does not advise using stock cast dampers with crank starters.
**Battery Pack and Charger**

RCD Engineering has developed a 48V d.c. battery pack for engine starting applications. This compact unit weighs less than fifty pounds and is capable of about twenty starts before recharging. Plug the battery pack into any 120V a.c. outlet between races or overnight. An onboard charger automatically adjusts proper charge rate keeping battery pack at optimum state of charge. Charger automatically turns off when batteries are charged. The 12 volt batteries used in this pack are the latest in encapsulated electrolyte battery technology and are virtually maintenance free. Battery mounting frame with convenient folding handle is CNC machined from billet aluminum.

**PN: 103006-98** 12 Volt Battery (10 lbs)

**PN: 103300-0001** 48-Volt Battery Charger

**PN: 102505-0065** Battery Cables 15ft
The RCD belt guard is incorporated into the starter face plate and consists of three sections which are purchased separately. The crescent shaped aluminum guard covers the top 150° of the blower sprocket and, if needed, continues down the tension side of the belt to approximately 3" below the crankshaft. This guard offers protection for the fuel and oil lines, wires and clutch control lines that pass outside of the blower belt. It also offers protection for the blower belt and starter while the engine is cranking and the starter is being removed. For Funny Cars and Altereds, there is the added benefit of body panel protection.

The starter locks-on in the same manner as before offering unrestricted access to the top blower sprocket, allowing belt removal and blower ratio changes. The middle guard has two button holes located at its top. With its screws loosened, this piece slides out of the block bracket and the blower can be removed as usual. The main belt guard parts are available in aluminum. Complete set weighs less than 2 lbs. including all mounting hardware and starter bracket.

Top Guard - fits all root style Superchargers, Kobelco’s, S.S.I., Screw and old style Whipple. Assembly includes starter face plate, guard, outboard stiffener and bolts. Weight 1-1/4 lbs.

PN: 103507-0004 Blower Beltguard w/Starter Mount STD Roots
PN: 103507-0005 Blower Beltguard STD Roots
PN: 103507-0009 Blower Beltguard w/Starter Mount SSI 3-hole & Kobelco
PN: 103507-0010 Blower Beltguard SSI 3-hole & Kobelco
PN: 103507-0017 Blower Beltguard Snout Mounted
PN: 103507-0018 Blower Beltguard w/Starter Mount Snout Mounted
PN: 103512-0010 Middle Guard
PN: 103522-0003 Beltguard Middle Support Kit w/Bottom Guard
Big Block Chevy Crankshaft Front Bearing Support
with Fixed Crank Mount Starter

Minimum sprocket size:
8mm = 55 tooth
14mm = 33 tooth
1/2” Trap = 35 tooth
Fixed Mount Starter Wiring Diagram

- Starter
- #2 (MIN) AWG. Neoprene Welding Cable
- GRD.
- Jumper Wire #16 (min)
- Solenoid
- 200 AMP 24 VDC Silver Contacts
- Momentary Starting Switch (MIN. 3 AMPS)
- Safety Disconnect Switch (Optional)
- 12 Volt Batteries (4 in series = 48 Volts)
- GRD.