



Thank you for choosing Premier Performance *Magnum* centrifugal clutch. This 4-cycle clutch design has been developed to provide improved power transmission through a stiffer, more stable drum design. Wide ranges of RPM and ratio ranges are available through your karting component dealer. We hope you enjoy this performance product...

"Your competitive link to Winning!"



WARNING

Keep all objects away from the clutch, sprocket, chain and all other rotating parts. **Never come in contact with the clutch with a tool or body part while it is running.** Contact with the clutch during operation can cause injury.

Proper guards that cover the chain, clutch and sprocket are necessary for safe operation. All guards should meet sanctioning bodies' requirements. The user is responsible to have proper guards in place to keep the driver from coming into contact with the clutch during operation.

Fastening of the clutch to the powered shaft is the responsibility of the user.

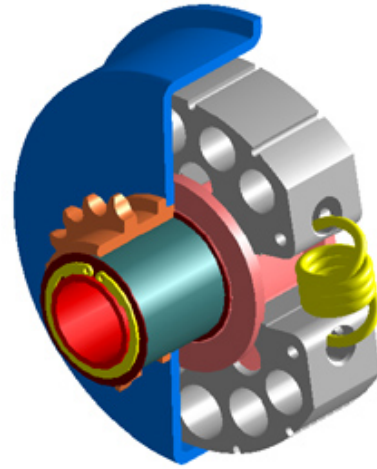
Children **require** proper supervision when operating powered vehicles.

Wear safety glasses to avoid eye injury when maintaining your clutch.

SET-UP

First, you must determine the ratio you desire to run. A higher ratio (higher than 1:1) will give you more acceleration, but lower top end speed; a lower ratio (closer to 1:1) will give you less acceleration, but higher top end speed. This ratio will vary per your particular needs and track application. Various drum/sprocket assemblies are available to accommodate your ratio choices.

Next, you need to determine the engagement RPM for your particular set-up. This is accomplished by using the different springs that are available. Refer to the Engagement Chart to determine the proper spring choice. **All of the springs must be of the same color; DO NOT mix colors within your set-up!!** Also, determine the proper shoe setting for your set-up. Install your *Magnum* on the engine and secure it. Tighten the bolt to 150 in/lb.



MAINTENANCE

Racing clutches are subject to extreme conditions and require proper maintenance in order to perform up to their greatest potential. For best performance, keep the clutch friction surfaces clean from lubricant and dust build up.

Clean the clutch with an aerosol spray of disc brake cleaner. Be sure to first shut off the engine and allow the clutch to cool to ambient air temperature. Then aim the nozzle of the aerosol can toward the top, inside edge of the clutch. Do Not use solvents, gasoline or soap and water to clean the clutch.

With use the bearings may require additional grease. Avoid an excessive amount of grease. We use and recommend SLICK 50 One Grease. **Do Not get grease on the shoe or drum friction surfaces.**

TROUBLE-SHOOTING TIPS

With the proper clutch and gearing set-up, you will feel an even pull when coming out of the corners and a constant acceleration in the straight-aways.

If your kart shakes or "chatters", check the *Magnum's* shoe position and try a smoother setting. Also, check for proper engagement RPM set-up.

If your kart accelerates too slowly -- use a higher gearing ratio to better match your engine's power curve.

If your engine is revving too high -- use a lower gearing ratio to better match your engine's power curve.

- Drum Assembly
- 11 Tooth AP11611
- 12 Tooth AP11612
- 13 Tooth AP11613
- 14 Tooth AP11614
- 15 Tooth AP11615
- 16 Tooth AP11616
- 17 Tooth AP11617
- 18 Tooth AP11618
- 19 Tooth AP11619
- 20 Tooth AP11620
- 21 Tooth AP11621

Drive Hub Assembly
AP11302
AP11304 (11T)

Shoes
Light -- AP1201
Heavy -- AP1202

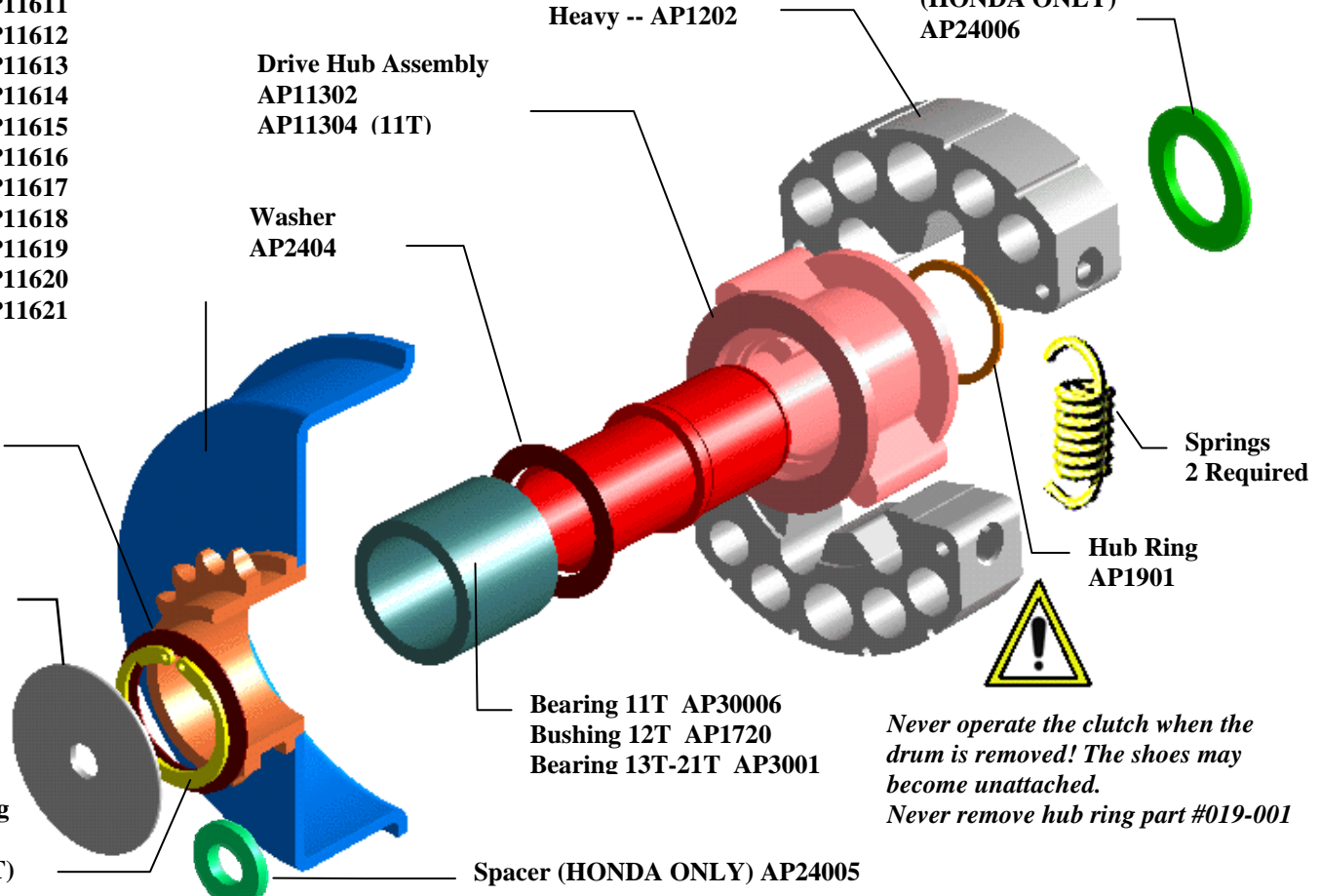
Spacer
(HONDA ONLY)
AP24006

Washer
AP2404

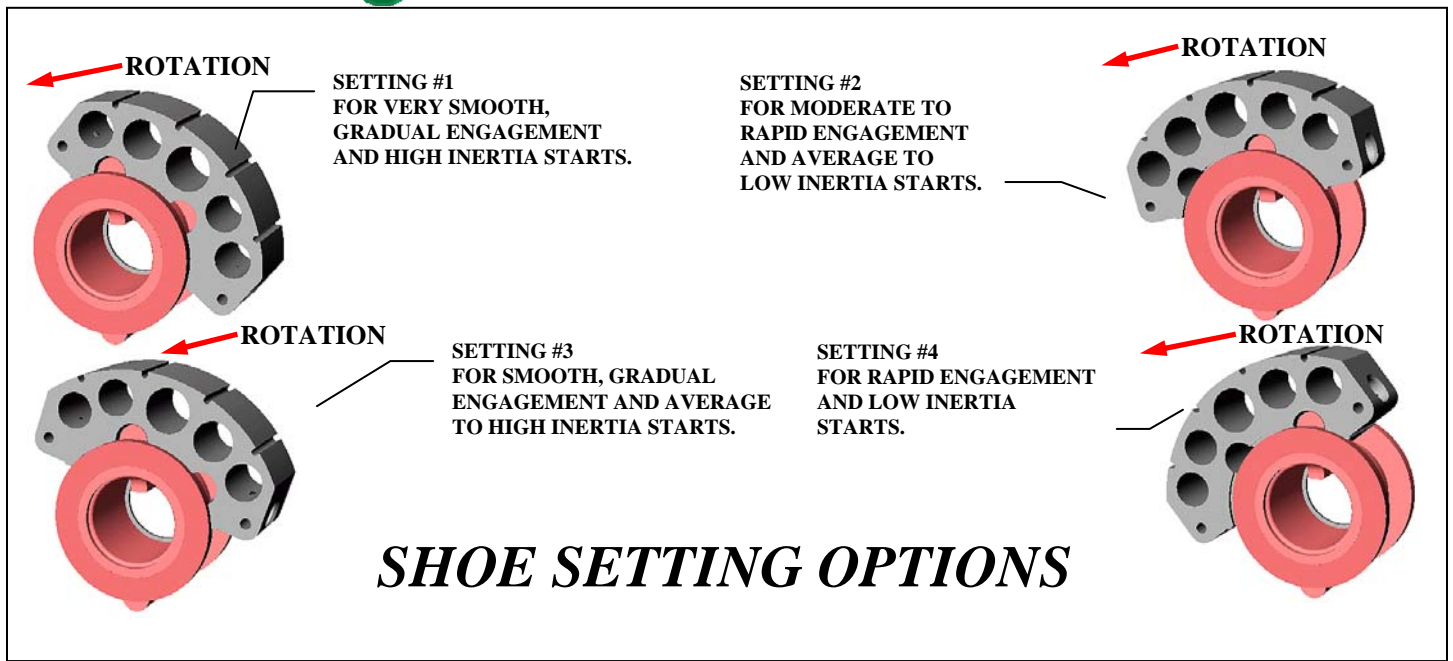
Washer
AP2404

Flat Washer
AP24007

Retaining Ring
AP1902
AP19010 (11T)



*Never operate the clutch when the drum is removed! The shoes may become unattached.
Never remove hub ring part #019-001*



Approximate Engagements	Red AP1003	White AP1004	Blue AP1005	Purple AP1006	Green AP1007	Heavy Red AP1010
Light Shoes	2050 RPM	2350 RPM	2600 RPM	3500 RPM	4000 RPM	5500 RPM
Heavy Shoes	1750 RPM	2000 RPM	2250 RPM	3000 RPM	3200 RPM	4700 RPM