2020 Polaris General 1000 XP/XP4 (XP's only) - 30-32" tires. 0-3000' elevation. Adjustable for "occasional use" at 3-6000' elevation.

\*Note: <u>33-34" tires</u>, require the **DUV P10GX-2** clutch kit, or add to this kit the optional secondary spring Black/Red w/tang, part number **DPSS-B/R-T**.

Components: 1) Dalton Black/White primary spring	(DPPS-B/W)
1) Dalton Black/Blue secondary clutch spring	(DPSS-B/BL-T)
1) Secondary spring seat/ slip washer	(DPS-SST)
1) set of Dalton Quick Adjust flyweights/hardware	(QP94-59)**
6) Composite flyweight thrust washers	(custom wear surface material)
10) pcs.M5x 12mm long threaded set screw.	(1.2g each)
4) pcs.M5x 6mm threaded set screw.	(0.6g each)
1) pkg Gold hollow steel mass rivets	(2.4g) part # DFRH-Y
1) pkg silver hollow steel mass rivets	(1.8g) part # DFRS-Y
1) pkg aluminum mass rivets	(0.85g) part # DFRA-Y
1) Dalton Custom Billet Helix	
(Private label ramp curve, kit specific)	(Part# P16-R6)

<sup>\*\*</sup>These flyweights are designed differently, and are bored for use of a special bushing material, and machined for thrust washers, etc. They also have different location of mass. The total "grams" of these flyweights are not at all related to stock or other flyweights.

#### **Tools:**

- 1) Primary clutch puller bolt is recommended. A primary clutch puller makes for easier drive clutch service if you intend to do clutch work in future (maintenance), or remove the drive clutch for easier work and inspection. Polaris dealers have them or you can order Dalton part# DCP-C
- 2) Secondary clutch spring compression tool.

#### **Description:**

Adjustable clutch kit for the 2020 Polaris General 1000 XP. The General XP version has different, lower gearing and different clutch calibration than regular General models.

This is one clutch kit that can be set up for different terrain and conditions means accurate clutch tuning for your situation. Improved acceleration, back shifting, and belt performance. This kit includes components that improve the rate of shift, and control belt tension when both on and off the throttle.

Includes **Dalton's "Quick Adjust" flyweight** system that allows you to add or subtract some of the weight from the flyweights, without even removing the flyweights from the drive clutch. -Set up manual includes "set up instructions" for different applications.

#### WARNING

Clutch components should only be installed by factory trained mechanics and personnel with a complete knowledge of variable rate belt transmission systems or CVT's.

CVT clutches are assembled under spring pressure .DO NOT attempt to disassemble clutches if not experienced or qualified.

This is a <u>performance kit</u> and is intended for the use of <u>experienced adult riders</u> who are trying to obtain a higher level of performance for racing, etc. Dalton Industries has no control over the <u>use</u>, <u>misuse</u>, or installation of these components and assumes no responsibility for any injury or damage.

#### **IMPORTANT!**

Take the time to read the associated documents and set up instructions for the components. This kit contains various set up options and recommended settings for different applications.

## **INSTALLATION:** (dealer installation)

**Important:** Always remove the KEY from the ignition before working on clutches.

- 1) Remove left rear wheel to access CVT clutch area. Remove the cover bolts to remove the plastic cover shroud.
- 2) Take note of direction of belt before removal. Remove belt. Remove primary clutch center bolt. Keep the spacers on the bolt and set the primary bolt aside.
- 3) Thread the primary clutch puller into the drive clutch and remove drive clutch now. Remove the 6 bolts and clutch cover plate. Be sure to look for alignment marks on cover plate or mark the clutch with a magic marker for orientation during re- installation. Be careful when removing cover plate bolts, the primary spring is under pressure.
- 4) With the primary clutch cover plate off, and the spring removed, remove the flyweight pivot pin (note direction) and the stock flyweights. \*\*Take note that with the new adjustable flyweights kit you will be using a thrust washer on each side of the flyweight.
- 5)\* <u>Set up the flyweights</u> as described in this instruction manual for your desired application. **See** "Set-Up Guide". <u>Install Rivets first</u>, then set screws as required.

Take note of your set up guide and set up the flyweights, then install the flyweights into the drive clutch. Be sure to read the complete document before continuing.

\*\* Install thrust washer on each side of the new supplied flyweights. (see next page)

Always be certain that you keep track of the set screws....it helps to mark the clutch in number from 1-3 to keep track. Be certain to not cause an imbalance. Keep track of screws remaining.

Make sure all screws go in all the way and bottom for secure fastening. (do not over tighten)

\*\*Install Thrust Washers- When installing the Dalton Quick Adjust flyweight, it is important to install the supplied thrust washers. One on each side of each flyweight. These Flyweights were designed to be used with these washers. These special composite washers are a very durable material for wear surfaces. They offer better, more accurate flyweight



With stock clutches it is very common to see the side of the clutch wearing from the flyweight pivot end gouging into the aluminum, even with only low miles.

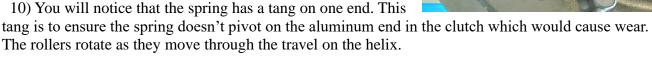
These thrust washers offer better movement and less wear of the clutch.



6)Install new primary spring into the clutch and re-install the cover onto the drive clutch (primary motor clutch). **Note: alignment marks.** 

- 7) Re- install the primary and clutch center bolt and torque to manufacturers specs. (96 ft./lbs.)
- 8) Remove secondary clutch.
- 9) Mark all of the parts of the secondary clutch for reference with a magic marker for orientation reference when you put it back together, this is for proper alignment and balance. Using a secondary clutch compression tool (Polaris part number PU-50518-A), compress the secondary just slightly to hold light pressure on the helix while you remove the 4 torx screws.

**Note:** The helix cover is loaded by the spring pressure! Slowly release the compression and remove the factory helix from the clutch.



11) For the other end of the spring (the end in the roller assembly) we supply a spring seat that also serves as a gliding surface for the rotation. This provides much more consistent clutch action. Install the spring seat into the roller assembly and install the supplied secondary spring. Make sure to locate the tang in the proper position down in the clutch.







## **Install Helix**

12) Align the rollers into the helix as shown and lower the helix into place on the rollers. Use the clutch compression tool to slowly compress the helix down into place.



The "X" on the helix is aligned with the x on the clutch.



- 13) Install the T25 screws to hold the helix using a drop of blue thread locker. (48 in./lbs.)
- 14) Install secondary clutch. This type of secondary clutch is a BOSS design with independent parts that mount on the transmission shaft. You will notice that you need to take your time and get the inner parts all aligned and the shaft through them all before it will fully seat onto the shaft. It may seem like it is on the shaft but it sometimes helps to put the transmission in gear and rotate it, and it will drop on the rest of the way. Be sure the clutch is fully seated (see service manual).

#### Torque to 43 ft./lbs.

<u>Do NOT make guesses at torque or use an impact gun on this bolt</u>. This is a BOSS (Built On Secondary Shaft) secondary. Caution and proper procedures are critical. If not assembled properly it could cause damage.

Use a bit of blue removable thread locker on the secondary bolt. Take note of the center bolt washer and be sure it is still the same direction it came off.

15) Install the belt. Inspect cover shroud and gasket, and install cover.

**Note: Our testing has shown best results with the factory belt,** and calibration for this kit is associated with the factory belt. Using other belts may require rpm adjustment.

## **OVERVIEW** - and general CVT tuning

There are books written on CVT clutch tuning and some in-depth principals of controlling the rate of shift of the belt on belt drive systems. The following is a very general guide to help those unfamiliar with understanding some basic principles of the system.

The CVT system on your vehicle is a variable rate system. It is a two-pulley system that gives different belt ratio as it shifts. As the belt goes up on the primary motor clutch, it also goes down into the driven (or secondary clutch) giving a higher clutch ratio and more speed. Conversely, as the machine comes under load or slows down its speed, it back shifts to a lower belt ratio so that it will be able to pull away again after slowing or stopping. A system that is properly calibrated for its intended application will UP SHIFT as quick as possible while still maintaining the proper rpm for the engines power curve. If a system is up shifted TOO quickly it lowers the engine rpm to a level below peak hp....if it up shifts too slowly it will rev higher during the shift phase than that rpm where the engine makes best power. This same system should also BACK SHIFT properly. Back shifting properly means maintaining that optimum rpm as best possible, as the vehicle comes under load. Clutch components "control the rate of shift of the belt".

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It is very important to realize that on most ATV/UTV situations, that the "clutch phase" (the time that the belt goes from low ratio to high ratio) on hard pack at wide open throttle, is over at around 50 mph. After which, the belt is fully shifted, and clutch components have little effect on rpm or speed. Once the belt is to the top of the primary clutch, it is to the top... and the engine starts to build rpm as the belt is out of ratio. Clutch components cannot control rpm after full shift out is achieved. Clutch components change the rate of shift of the belt...once the belt is shifted out, clutch kits cannot offer top speed increases.

The General 1000 XP operates best in the zone of <u>8200-8600 RPM</u>. This wide power band is good because we have noted that the belt runs at a lower rpm when hot. Ride a bit and warm the belt for testing.

\* IMPORTANT note on this model: The General XP can show inconsistent RPM on test runs if testing from a dead stop. There are safety features built into the ECU engine control box that are "torque limiters". (safety features that do not allow full power in certain types of load, etc).

These features sometimes make it not get full power and RPM on a dead stop test run, ...you may notice that if you run up to 12-15 mph before hitting the throttle wide open, that it will get full RPM, but from a dead stop it will be inconsistent and often too low. When testing RPM, make sure that you do it from a rolling mph of approximately 15 mph before applying full throttle (in a safe area). This will show you the proper clutch rpm, and you should note what the "stabilized RPM" is up to approximately 50 MPH. After 50 mph the RPM increase is because the belt cannot go higher or shift further, it is fully shifted. Clutches control "rate of shift of the belt", after 50 mph the clutches are not controlling the RPM.

Different tuning components can control the rate of up shift and back shift of the belt to maintain a desired RPM range. The goal of a CVT clutch system is to keep the belt in the proper ratio at any given speed and load situation. Many users of these vehicles, for various reasons, whether it be over sized tires for mud, drag racing, sand applications, pulling competition, high altitude operation where less power is available, different engine (rpm) characteristics from engine modification etc. In different situations like this, performance can be optimized by re- calibrating the shift pattern of the CVT. An example of a need to change the shift pattern would be adding larger mud tires. When installing larger tires there are a couple of factors that affect the clutching. The larger tires result in taller gearing. With a taller gearing situation, the last thing you would want to do is up shift too fast, as you are already starting off in a higher final drive ratio from the tires. The other factor is rotating mass. Heavier, large diameter rotating mass is a real negative for acceleration.

Although most experienced tuners know that a vehicle with oversized tires will never be as quick as one with stock lightweight tires, clutch tuning can help compensate for some of the losses and help restore performance.

## **The Clutch Tuning Components** (General tuning info)

<u>Heavier Weights-</u> Will up shift quicker and thus <u>lower rpm</u> during the "clutch phase". Depending on the situation, sometimes you can get away with a quicker up shift. It is important to remember that the primary spring is the opposing force to the clutch weights, and that changing the rating of the primary spring can affect the amount of force required from the flyweights.

<u>Lighter weights-</u> Slower up shift during clutching phase. Slower up shift allows for higher <u>RPM</u>.

<u>Note:</u> Remember, sometimes different curvature and profile can make total GRAMS irrelevant to each other. *You can only compare flyweights by grams if the curve and distribution of mass of two flyweights are the same*. Curvature and distribution of mass are also tuning methods.

<u>Springs</u> – In general, stiffer springs slow the up shift. Softer springs up shift faster.

Primary springs are in the front motor clutch. Sometimes primary springs are compared on load charts. The initial load (first part of the compression) of a primary spring controls engagement RPM. Primary motor clutch springs are the principal control of engagement rpm. Sometimes a stronger compressed load rating spring (second part or load listing of a primary spring on a spring load comparison chart) can allow the use of more flyweight and the combination is effective for a situation, but not all situations are the same.

**Secondary springs** are more related to controlling back shift, torque sensing. A spring is another type of tuning component. A spring is always chosen relative to the flyweight and the rest of the system. Sometimes the stock springs are fine, other times re-calibration requires one or both springs in the clutches to be changed to suit the application.

<u>Helix</u> – Helix ramps are one of the controlling forces of the rate of shift of the secondary. A **steeper** helix ramp up shifts faster (thus <u>lowering</u> operating rpm during the clutch phase). A helix with a more shallow ramp up shifts slower and thus allows more rpm. It also back shifts faster. Remember, never focus on ONE tuning part, different secondary springs, etc. effect the required helix.

It is NOT that quicker or slower up shift is BETTER....it is totally dependent on the situation. The goal is to achieve the best shift pattern for the application, so that *the engine stays in its best rpm zone*. The General 1000 XP makes best HP at 8200-8600 rpm during the clutch phase. (see "clutch phase" in overview).

## <u>Dalton Pro Quick Adjust Cam Arms</u> - Adjustable flyweights.

Dalton's patented quick adjust method means that you can add and subtract some of the flyweight mass from the main body of the flyweight without removing the weights from the drive clutch. There is one rivet hole at the tip of the flyweight that can be used to change the "range" of the flyweight with different optional mass rivets (this rivet must be done with flyweight removed from clutch). Where the weight is located can change the shift pattern.

The threaded passage can hold up to 3 of the supplied threaded set screws that weigh 1.2 grams each.

3.6 grams can be\* added or subtracted by simply turning the clutch so that the desired weight is up at the top, and using the supplied Thandle Allen key to add or subtract set screws thus changing the total mass of the flyweight.

Sometimes, for example, switch from one application/ tire size to another, you could adjust your clutch to the recommended setting by simply removing the plastic cover shroud, and make weight adjustments (according to instruction sheet), then re-install the plastic cover. No puller or primary clutch disassembly required. Set up and guidelines are on following pages.



## <u>SET UP GUIDE – Polaris General 1000</u>

<u>Primary spring</u> – Black/White (DPPS-B/W) This is the proper primary spring for this kit.

<u>Secondary springs</u> are tested for efficiency for the application. Always use the provided <u>spring seat</u> on the secondary spring. This spring seat helps allow proper function of the secondary clutch as it rotates, and offers more consistent performance. For this kit the secondary spring supplied is <u>Black/Blue</u> (<u>DPSS-B/BL-T</u>). a "optional <u>Black/Red-Tang</u>" is required for some applications.

<u>Helix</u> - The chosen ramp is part of the package and only related to the use of the flyweights and spring pressures provided with the rest of this kit.

<u>Flyweights and tip rivets</u> – the tip rivets are to adjust the "zone" of the flyweight. Always <u>install/compress tip rivets first</u>, and then add the set screws (see "installing rivets" on last page).

# Other set up Notes:

- 1) <u>Optional springs</u> -There are, within these listings, <u>some elevation/tire size set ups</u> that require a different heavier "optional" secondary spring \*DPSS-B/R-T (Black/Red w/ tang) that you can order separately.
- 2) <u>Elevation</u> High elevation is speculative because of different terrains and tire weight, etc. Some fine tuning/adjustment is to be expected for specific situations.
- 3) <u>General XP 4</u> The 4-seat version of this vehicle has the same final drive gearing as the two seat. In some cases, you may need to run slightly less weight in the flyweights if you are really using it mostly as a 4 person and/or carry heavy loads. Some 4 seat set ups are noted in the guide below. If it is not noted specifically for the 4-seat version, set up like the two-seat version first and test. There can be many variances in total body weight and load, especially when you consider terrains and altitudes can affect more with weight.

<u>Fine tuning</u>- Sometimes swapping out one of the long set screws for a short one may be necessary, or even removing one from each flyweight. If only occasionally 4 adults, you should start with standard two seat guide and test RPM. (see **page 5 \*important note** for testing

# **Set-Up Guide**

Always use **both springs and helix provided** unless otherwise noted.

Go by tire size first, then the info provided. Be certain that you have read the "important note" pg.5.

- <u>30" tires, (including stock)</u> 0-3000'elevation QP94-59 base weight, plus the 1.8g rivet + 3 long set screw in each flyweight. If using a smaller lighter tire like one labeled 29", you may need the 2.4g in the tip of the flyweight.
- **30" tires,0-3000' elev. <u>"XP4" version</u>**, hard pack trail many use the same set up as 2 seat version, if heavy loads or most often 4 person/soft terrain, you may need to only run 1.8g silver steel rivet +2 full set screws in each flyweight instead of the 3.
- <u>30" tires, occasional visit to 3000-6000' elevation</u>- QP94-59 base weight, plus the 1.8g rivet + 1 long screw in each flyweight. (simply remove two set screws from each flyweight compared 0-3000) <u>30" tires 3000-4000' elevation (most operation)</u>- If you are living and/or often operating at 3000-4000, but still like to sometimes go to lower elevations, the normal set up should be as follows. This will allow more flexibility for when you go higher: Quick Adjust set screws make adjustment easy. QP94-59 base weight + .85g rivet +2 long set screws, plus you change to the <u>optional</u> \*DPSS-B/R-T (<u>black/Red-Tang</u>) secondary spring. Test RPM (*see page 5 \*important note*). Remove another set screw from each flyweight if necessary. (RPM can vary with the altitude range and terrain). You may need to add set screws if you go lower.
- <u>30" tires- Sand Dune riding</u> QP94-59 base weight, plus the 1.8g rivet in the tip, + 2 long set screws in each flyweight. (simply remove one screw compared to the regular trail set up). Adjust more if necessary. If principal use is a mid/high elevation sand dune riding are use aluminum .8g rivet and 2 set screws first test. (*see page 5 \*important note*).

<u>Sand / High elevation applications</u> – Sand is speculative, some is deep dry sand while other is desert roads and compact beaches, etc. Different terrain types, as well as varied elevation make speculative.

#### 32" tires - Most AT type and mixed use tires, 0-3000' elev.

For typical hard/mixed trail use QP94-59 base weight + silver steel (1.8g) rivet + 2 long set screws in each flyweight. If tires measure a full 32" and are very heavy mud versions, it may be necessary to use one long set screw and one short set screw. (when using the short set screw be very careful not to cross thread). Most 32" tires should be with the 2 long set screws in each flyweight.

- **32" tires, 0-3000'elev.** "XP4 version" if most often extra passengers, or frequent soft terrain/sand. Use aluminum .8g rivet in the tip, and start with 3 set screws. Test. (see page 5 \*important note).
- <u>32" tires –"occasional visit" to mid elevation (3-6000)</u> 1.8g rivet + only one long set screw each. You may have to remove both. Test rpm
- <u>32" tires 3000-4000' elevation- common use</u>. QP94-59 base + try first with NO rivet in the tip, 2 long set screws, and **ADD the optional DPSS-B/R-T** (Black/red w/tang) secondary spring instead of the one supplied here. \* test RPM. Adjust if required, variations altitude, tire sizes, terrain may require adjustment.
- 32" tires "occasional sand dune" QP94-59 base +1.8g steel rivet, +1 long set screw in each.

  32" Sand dune (primary use)- QP94-59 base weight plus the 1.8g aluminum rivet, +1 long screws in each flyweight. Plus you change to the optional \*DPSS-B/R-T (black/Red-Tang) secondary spring. \*test RPM (type of sand, tire, and dune can vary) Adjust weights accordingly, (see page 5 \*important note).
- **32"** Extreme mud tires/mud applications (competition mud tires)- QP94-59 base weight, use the 1.8g base weight, and 2 long set screws in each flyweight. **Be sure to use low range** in load situations and when going slow. Add the optional Black/red-tang secondary spring **DPSS-B/R=T**

## More on next page-

<u>33-34" tires</u> – QP94-59 base weight, plus the 1.8g steel rivet + 2 long set screws in each flyweight to start **This set up requires the ADDITION of the optional DPSS-B/R-T** (Black/Red-tang) secondary spring....test RPM. It may be required to fine tune with set screws depending tire weight and RPM achieved on test run for RPM in the "clutch phase" part of the run. (*see page 5 \*important note*).

## **CVT Clutch Tuning**

We have given you the guidelines for many applications. There can however, be some varying terrain, tire weight, and conditions. Individual vehicles themselves vary in output. There are ways to fine tune small adjustments that are quite quick and easy.

In an example, if you are hitting the rev limiter during the "clutch phase", you could need to <u>add weight</u> so that the clutches up shift faster and <u>lower the rpm</u>.

If you get on the rev limiter for any reason, add a set screw (or half screw\*), or next heavier rivet in the tip of the weight. Try using set screws first. Remember though, that sometimes it is normal to have a slight bit of this when the belt is cold. Using less weight will slow the shift and increase rpm.

More notes on HIGH ALTITUDE - High altitude is less oxygen, and even though modern fuel injection can lean out the fuel and keep the mixture ratio corrected, there is less oxygen, and less fuel which equals less hp. Always try to calibrate for where you do most of your riding.

<u>Special modifications?</u> – There are <u>heavier tip rivets included for things like extra HP</u> add ons, or smaller tire sizes, etc...and more available, but if doing mods, expect to test.

If you have a modified machine that have special features that effect the operating rpm of the engine, particularly long duration camshafts or big bore kits, you must work closely with your engine shop to find the peak rpm requirement of the engine, etc. In these instances there will be a wide variance in requirements of the clutch shift pattern. You should consult the specific engine shop for recommendation as testing clutch components on your own will most likely be required. This is a nice feature of an adjustable clutch kit.

# Using the Quick Adjust set screws



This can be done on the bench for initial set up, and as mentioned earlier in the set up guide, it can be adjusted later while the flyweight is still in the clutch.

- 1) Carefully install the set screw into the threaded passage. Be careful, as the small M5 screws can easily be cross threaded. Wind the set screw all the way in until it is snug at bottom of threads.
- 2) Add additional screws as required, always bottoming on the one inside.

Important: be sure to keep track of what you are installing and where it is installed. It helps to mark the clutch with a permanent marker from 1-3 to be sure you install the <u>same amount of set screws</u>.

For "installing and removing tip rivets" see last page.

# **Installation and removal of Mass Rivet (tip weight)**







- 1) Push the rivet ALL the way into the appropriate hole in the tip of the flyweight.
- 2) Using a **large** shop vise hold the weight in a manner in the vise that holds the rivet all the way through the hole (The rivet should expand ans pressed).
- 3) Squeeze/expand the rivet. Be sure to use enough force to fully expand the rivet, some of the larger solid steel ones need a large vise with very strong force to fully expand. Place all rivets pointing the same direction
- 4) Be certain to compress this rivet to be less than the width of the roller path up inside the spider assembly. (approx .500 "total compressed length), If you are uncertain, install flyweight and cycle it up to see if the rivet clears. You can peen them to a finish length if they are already mostly compressed/expanded. There is no need to over compress shorter than .500" long, as you could break the base weight from over compressing too far.

#### For later removal of rivets if desired, use the following procedure:

- 1) Mark lightly the center of the flush side of the rivet with a center punch.
  - 2) Using a 3/16 "drill bit, drill approximately **half** way into the rivet.
  - 3) Insert a flat ended punch with a straight shaft of 1/8" diameter into the drilled hole and tap the rivet through the hole to remove.

Thank you for choosing Dalton Industries!

#### Some notes on the 1000

## **Belt Burning**

This vehicle is fast, and a very popular model for sport use. Power is good, but proper operation, and calibration of the CVT can help certain situations.

The factory sends the clutching for what they refer to as general purpose, but there is a wide variety of uses for the vehicle. Case specific clutch tuning can help make the CVT system more efficient for what you do. This is a very flexible kit that allows adjustment. There is a detailed guide to get you started. Some people have some experience, and like to do their own clutch tuning. There is certainly nothing wrong with that, but we sometimes hear that they only consider rpm or drag race results, etc. Care must always be taken to consider the side effects of changing clutch calibration. It is important not to neglect things like "back shifting of the belt as the vehicle comes under load". Proper calibration of the CVT system for your application can reduce belt temperatures and belt problems. This kit is adjustable and allows you to be better calibrated for different situations.

If you are having belt problems, proper CVT calibration like this kit can help.

There are also other things that could contribute to belt life issues, things like "not using **low range**" when you should.

This vehicle comes from factory with final drive gearing that will allow quite high top speeds. The side effect of that is the clutch system can strain in load situations when in high range.

Using low range will make the belt run substantially cooler for slow speeds or load situations like hills or soft terrain.

# ANY time you are operating at low speeds or in load conditions you should use low range in the gearbox.

Example: The vehicle is being operated in tight woods trails at approximately 10- 14 mph average.

- If you use high range for slowly crawling around at these speeds, the belt stays down on the center hub of the primary a lot of the time. It will hardly up shift the belt to achieve that speed in high range. The belt is wrapped around a small diameter hub on the primary (motor) clutch.
- if you shift the gearbox to low range and travel that same speed, the belt will be shifted up mid way on the primary motor clutch, where it has a much better (larger diameter) grip surface. This also puts the flyweight in a <u>better leverage position</u> and the result is less slippage of the belt (and thus lower clutch and belt temperatures).

Running around at slow speeds or load conditions in high range can easily overheat the belt, and it may not fail immediately, but may later on. You WILL have better belt life if you practice using low when you should. Some do not like it because you have to stop and shift. They will not do it as often as they should, and they have belt problems. That is how it is. It is one of the facts of this type of system.