Lightened Steel Flywheel

**FLYWHEEL WEIGHT COMPARISONS**

<table>
<thead>
<tr>
<th>Material/Type</th>
<th>Weight (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra light steel</td>
<td>2.14</td>
</tr>
<tr>
<td>Light steel</td>
<td>3.80</td>
</tr>
<tr>
<td>Steel verto</td>
<td>4.01</td>
</tr>
<tr>
<td>Light weight</td>
<td>5.00</td>
</tr>
<tr>
<td>Verto standard</td>
<td>5.82</td>
</tr>
<tr>
<td>Safely lightened</td>
<td>6.06</td>
</tr>
<tr>
<td>Standard lightened</td>
<td>7.58</td>
</tr>
<tr>
<td>Flywheel modified</td>
<td>16.71</td>
</tr>
</tbody>
</table>

For improved performance you can replace the original cast iron with lightened steel. Lightened standard cast ones are dangerous (can explode at high revs). The steel flywheel also provides a much harder clutch surface.

It is highly recommended to use 3 clutch straps (2A3658 / No.9) per hardier clutch surface.

1. **In 1996 we started producing our own ultra light steel flywheels** as all available flywheels at the time had certain problems. Harmonic balancing testing showed frequency problems at high rpm - from the flywheel. Our flywheel is more symmetrical and evenly balanced to be near perfect. The flywheel comes with the required distance pieces for mounting the straps.

   a. **Ultra light flywheel**............................. C-AEG619
   b. **Ultra light flywheel with ring gear** for pre-engaged starter........................................ C-AEG620

2. **For road use we developed a lightened steel flywheel ideal as a standard flywheel replacement.** Gives smoother tick over than the ultra light version on fast road applications when high lift cams are used. Relevant distance pieces are provided.

   a. **Light steel road spec flywheel**................... C-AEG421
   b. **Light steel road spec flywheel, with ring gear** for pre-engaged starter.............................. C-AEG420

3. **For Verto type clutch assemblies We have developed a replacement outer flywheel section** in steel that is nearly 4lb lighter than the standard item. Verto is identified by a short clutch arm. Manufactured to increase the pressure plate clamping rate, for improved clutch performance.

   a. **Verto flywheel for pre injection type carburettor models**................................................. C-AEG422
   b. **For single point injection.** The ignition trigger points have been advanced by cnc milling the reluctor ring into the back of the flywheel to give an ignition timing of between 12-14º at 1000rpm, gives optimum power........................................ C-AEG425
   c. **For twin point injection**............................ C-AEG424

4. **Flywheel boss, verto only.** Requires fixing bolts DAM5920.................................................. DAM5921

5. **This new EN8 upgraded lightweight backplate shows our commitment** to improving products, this replaces our old original 22G270 iron type as used on Cooper ’S’ models and weighs 1.450 kg (3.21LBS) ........................................ C-AHT230

6. **Mini Spares cast iron back plate 2.14kg** (4.73LBS) original was 2.61kg (5.74LBS). Not for racing.................................................. 22A598

**AP Verto Pressure Plate**

7. **AP pressure plate, recognised as having the best clamping pressure, will not fit injection cars unless a modified Flywheel is used**................. GCE679

8. **Bolt for clutch cover to pressure plate.**
   a. **(torque to 19lbs).** Sold individually ....... 2A3657
   b. **Race version.** Sold individually .......... C-2A3657

9. **Clutch Strap.**
   a. **Sold individually .......... 2A3658**
   b. **Race version.** Sold individually .......... C-2A3659

10. **Flywheel bolt lock tab.**
    Pre verno  ............... 22A1155
    Flywheel bolt. Pre verno . ................................ C-2A747

11. **Locking plate key.**
    a. **Pre verno .......... 88G508**
    b. **Verto.** DAM5923

12. **Flywheel lock tab and bolt.**
    Verto .......... .............. DAM5922

13. **Flywheel weight comparisons**
    
    | Material/Type                        | Weight (KG) |
    |--------------------------------------|-------------|
    | Standard iron flywheel unmodified    | 5.00        |
    | Steel Verto outer section only       | 3.80        |
    | Steel Verto outer section only       | 3.80        |
    | Steel Verto outer section only       | 3.80        |
    | Standard lightweight                  | 3.80        |
    | Verto standard iron outer section    | 3.80        |
    | Verto standard iron outer section    | 3.80        |
    | Steel lightweight fast road spec.    | 3.80        |
    | Verto Steel lightweight fast road    | 3.80        |
    | Steel lightweight fast road spec.    | 3.80        |
    | Lightened Steel Flywheel             | 3.80        |

14. **Flywheel bolt lock tab.**
    Pre verno  ............... 22A1155
    Flywheel bolt. Pre verno . ................................ C-2A747

15. **AP clutch components we supply are of the highest quality, used regularly by hundreds of competitors all over the world.**

16. a. **Standard diaphragm for all pre verto types**................................. GCC103
    b. **AP Orange clutch diaphragm**............................................. C-AEG481
    c. **AP Grey clutch diaphragm**.................................................. C-AEG482
    d. **AP Double grey clutch diaphragm** for race use only with sintered clutch plate. ............................................. C-AEG483

17. a. **AP Rally/race clutch plate**
    180mm wide .................. C-AHT596
    b. **Road/Rally plate pre verto**
    180mm wide .................. C-AHT595
    c. **AP Standard turbo/fast road new style clutch plate**, good up to 7000RPM .C-2P204AF

18. **Road rally performance plate190mmwide1990on**...... C-AHT594

19. **AP Heavy duty sintered paddle plate 180mm** ................. C-AHT598

20. **AP Double grey clutch diaphragm** for race use only with sintered clutch plate. ............................................. C-AEG483

21. **Heavy duty race/rally 4 finger sintered plate190mm.** .......... C-AHT600

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2. **Mini Spares version for performance engines.** ......................... C-2A747

3. **Mini Spares latest design/shape.** 5 finger type with sintered pads is available 180mm wide .......... C-AHT597

4. **AP Double grey clutch diaphragm** for race use only with sintered clutch plate. ............................................. C-AEG483

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