

SHINDAIWA TECHNICAL INFORMATION

Details: The Importance of proper maintenance on C4 Units

The original T2500 trimmer was introduced in 2001. We now have over 7 years of field experience with C4 units from T2510 thru EB8510. From that experience, we've learned, like the motorcycle industry when they moved from 2-stroke to 4-stroke; air filter maintenance is the single most critical element. More than one distributor salesman has stated it bluntly to potential customers: "If you are not willing to do a minimal level of air filter maintenance, perhaps 4-stroke is NOT for you"!

A 4-stroke engine contains more moving parts; parts that are also more heavily loaded in a concentrated area (example: pushrod ends, rocker arms, followers). Any ingestion of debris inside the engine can create rapid wear on these components. The end result: excessive valve lash and the need for more frequent valve adjustment.

Although the valve adjustment is recommended at 139 hours, Engineering test results have shown a C4 engine can go as long as 700 hours or more between valve adjustments if (and only if) air filter and the filter system are properly maintained. Air filter inspection should be performed on a daily basis for commercial units.

Proper air filter maintenance* includes daily inspection of all air filter components for damage, wear, or excessive movement. Any of these three can allow debris to bypass the air filter.

When to adjust? Rather than try to track actual hours on a C4 unit, we've seen this to be a very good rule of thumb: If the engine cranks over and starts easily, leave it alone. If hard to start, valve lash is worth checking. For 2510/3410 units, the combination of hard to start and hard to crank is the primary indication of the need to adjust valves. As valve lash increases, the decompression lobe eventually does not contact the cam and the recoil cord becomes significantly harder to pull.



**2510/3410 Series
Valve Clearance:
0.004"**



**8510/8520 Series
Valve Clearance:
0.002"**

In the past, and on a limited basis, we've offered to provide the first valve adjustment for C4 units. Today, to continue that program invites a lower level of air filter maintenance and so is officially discontinued.

* Our strong recommendation is to make air filter maintenance a major part of the predelivery discussion with customers. Perhaps adding a prefilter or two at time of purchase will help instill the importance of this critical task.

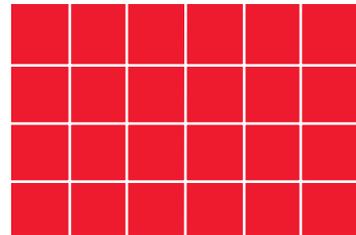
Note:

See TSB 289 for valve adjustment tools. Video clip instructions are located under the Technical Information link in "Training Videos" of the Shindaiwa Dealer Website

Technical Service Bulletin

No: TSB-299

C4 Unit Valve Adjustment



March 17, 2009

Models affected:

All C4 models
T2510
T3410
T2510X
C3410
C2510
CT2510
T3410X
EB2510
EB3410
GP3410
M2510
DH2510
HT2510
AH2510
AHS2510
LE2510
PB3410
EB8510
EB8520

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