

Technical Information

34.2008

Cut-off machine STIHL TS 410, 420 – Series 4238

Contents

1. Carburetor Adjustment
2. Poly V-belt pulley (only TS 410)
3. Clutch, tension spring
4. Service notes
5. Summary

1. Carburetor Adjustment

The basic setting **without** limiter cap for the high speed adjustment screw H of carburetor C1Q-S118 – 4238 120 0600 is being changed.

The following settings apply:

Basic setting without limiter cap on the high speed adjustment screw H

Low speed adjustment screw L:	1 turn open
High speed adjustment screw H:	2.5 turns open

Standard setting with limiter cap on the high speed adjustment screw H

Low speed adjustment screw L:	1 turn open
High speed adjustment screw H:	3/4 turn open (max. no further than stop)

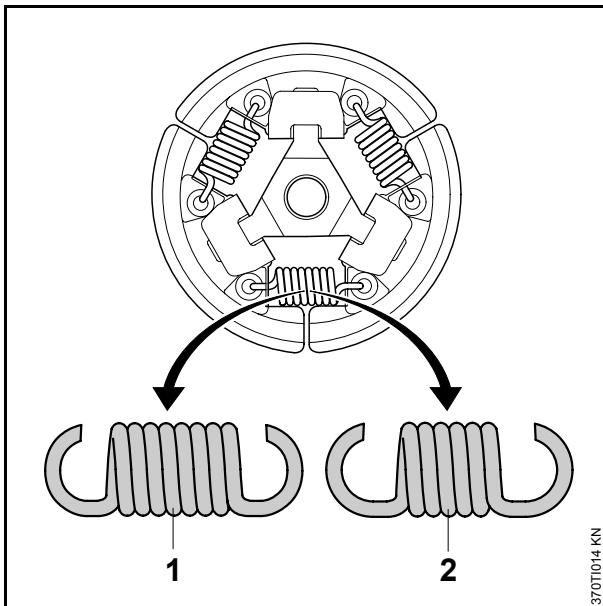
2. Poly V-belt pulley (only TS 410)

The previous poly V-belt pulley 4238 764 8503 is being replaced by the new version 4238 764 8505. The difference between the new V-belt pulley 4238 764 8505 and the previous version 4238 764 8503 is a larger diameter in the area of the belt contact surface.

2.1 Supply of spare parts

The previous V-belt pulley 4238 764 8503 is no longer available. The new V-belt pulley 4238 764 8505 can also be used for older machines.

3. Clutch, tension spring



For further optimization of the clutch engagement and slip speeds and further improvement of acceleration behavior, the previous clutch 1125 160 2005 is being replaced by the new version 4238 160 2001. The previous tension spring (1) 0000 997 5815 with 8 coils is replaced by the new version (2) 0000 997 0912 with 6 coils.

3.1 Supply of spare parts

The new clutch 4238 160 2001 can also be used for older machines. The previous clutch 1125 160 2005 remains available for other models.

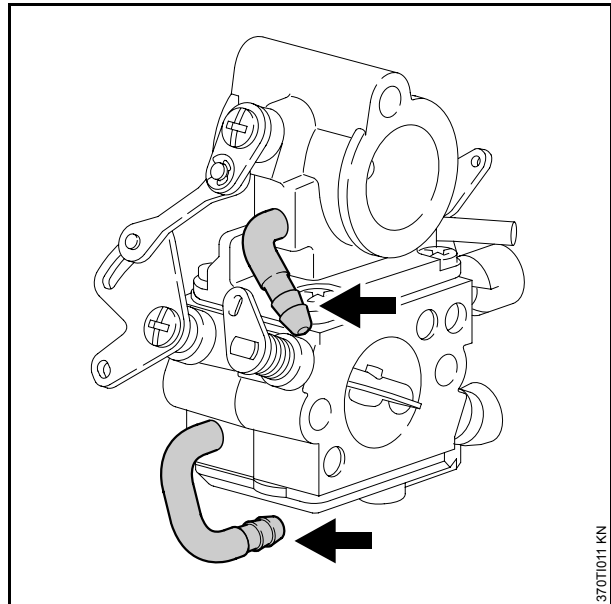
The new tension spring (2) 0000 997 0912 can also be used for older machines with the previous clutch 1125 160 2005. The previous tension spring (1) 0000 997 5815 remains available for other models.

3.2 Service note

When performing repairs, the entire clutch should be replaced with the new version. However, if only replacing tension springs, always replace all 3 tension springs as a set, never just one or two. Combining previous and new tension springs in the same clutch is not permitted.

4. Service notes

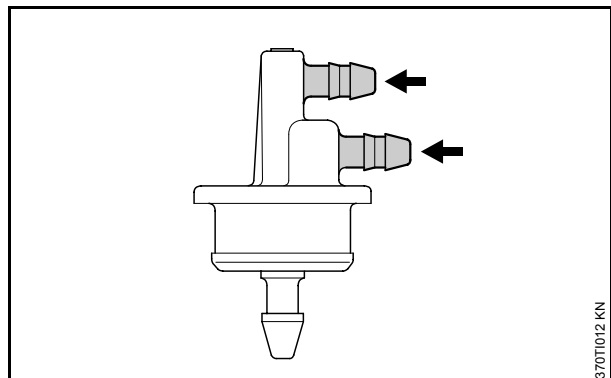
4.1 Carburetor



Carburetor C1Q-S118 – 4238 120 0600 is manufactured with barbed fuel hose connectors (arrows).

- Observe service notes regarding barbed connectors (see Chap. 4.4)

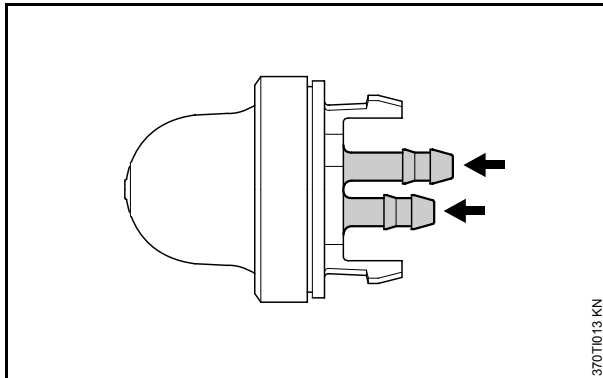
4.2 Connector



Connector 4238 353 2701 is manufactured with barbed fuel hose connectors (arrows).

- Observe service notes regarding barbed connectors (see Chap. 4.4)

4.3 Fuel pump



Fuel pump 4238 350 6201 is manufactured with barbed fuel hose connectors (arrows).

- Observe service notes regarding barbed connectors (see Chap. 4.4)

4.4 Service notes – barbed connectors

To ensure there are no leaks in the fuel system:

- Install and remove fuel hoses, by hand whenever possible, in order to avoid damage to the barbed connector – sharp-edged pliers, screwdrivers, etc., must not be used – nor should fuel hoses be cut open with a knife or similar implement
- Do not reuse fuel hoses after disassembly, always replace them with new hoses – fuel hoses may be over-extended when removed
- Install new fuel hoses dry or with the aid press fluid OH 723 – 0781 957 9000. Other press fluids are not permitted and may lead to fuel hose damage
- When using press fluid OH 723, apply press fluid to the ends of the hose and connectors prior to installation

Notes regarding press fluid OH 723

Press fluid OH 723 produces a lubricant film to aid in assembly. The lubricant evaporates after a short time allowing for a tight fit.

Never use fuel, oil or grease as a lubricant. Fuel, oil and grease do not evaporate and may allow the hose to slip from the connector.

5. Summary

Item	Part Name	Previous	New	Rem.
1	Poly V-belt pulley (only TS 410)	4238 764 8503	4238 764 8505	1) 2)
2	Clutch; including Item 3 other parts as previously, see spare parts list	1125 160 2005	4238 160 2001	2) 3) 4)
3	Tension spring	0000 997 5815	0000 997 0912	2) 3) 4)

Modification to be introduced : continuously

Remarks

- 1) Previous version of part no longer available from factory
 - 2) New version of part can also be used for older machines
 - 3) Previous version of part remains available for other models
 - 4) see "Service Notes"
-