

■ **Compression release** (Release wire is optional part)

Adjust the parts as shown in Fig. 19. Pull the lever out as far as it will go, check to see that the full angle is attained and that compression is released. The compression release is to be used when the battery is low or when starting in cold weather. To use the compression release, pull the glow plug as usual, pull the compression release knob out as far as possible and hold it there while cranking the engine. This partially releases the engine compression enabling it to turn faster in cold weather or when the battery is low. Once the engine is turning fast enough to start, release the lever and the engine will start.

(NOTE)

Make sure the compression release has returned to the operating position by pushing the knob all the way in.



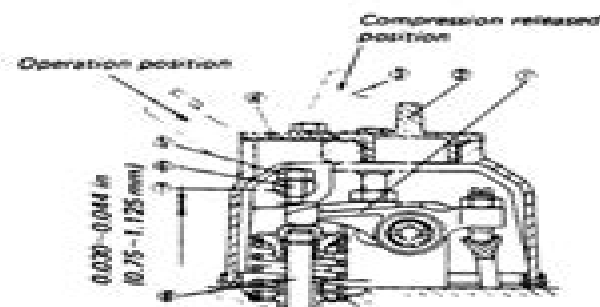
Fig. 19. Compression Released

[CAUTION]

Do not pull the compression release lever when the engine is running at high speed or under load. If it is necessary to use the compression release while the engine is running reduce the speed to idle before doing so.

■ **Adjustment of compression release**

- (1) Set exhaust valve in totally closed position.
- (2) Remove decompression adjustment window cover from cylinder head cover.
- (3) Make valve clearance as "0" with use of decompression adjust bolt. From this position, turn the bolt further by 1 to 1.5 turns. Decompression clearance will then be set at 0.030 to 0.044 in. (0.75 to 1.125mm), which is the designed clearance.
- (4) After adjusting, be sure to lock adjust bolt securely so that it will not unturn while engine is in service.
- (5) Make certain that the clearance is not too wide. To check this, turn crankshaft by hand and make certain valve disk does not contact with piston top.



- | | |
|------------------------------|-----------------------------|
| 1. Rocker arm | 5. Compression release nut |
| 2. Oil filler cap | 6. Compression release bolt |
| 3. Compression release lever | 7. Shaft |
| 4. Adjustment access cover | 8. Valve |

Fig. 20. Adjustment of Compression Released

■ **Top clearance**

Top clearance should be 0.028 to 0.035 in. (0.7 to 0.9 mm). To adjust, use cylinder gasket shims, 0.006 in. (0.15 mm) thick each, on the head side.

For checking the measurement, place a piece of fuse on the piston top and fix the cylinder head securely on the cylinder-head flange. The measurement is taken by the fuse. The liner is level with the cylinder frame at top surface.

The gasket shims can be reused, so do not lose them.

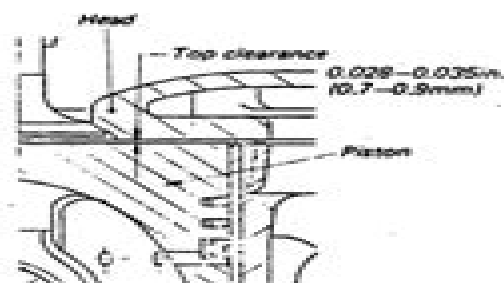


Fig. 21. Top Clearance

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