

DRIVE BELT

ON-VEHICLE INSPECTION

AC1RP-01

1. 1FZ –FE, 1HZ and 1HD –T Engine:

INSPECT DRIVE BELT'S INSTALLATION CONDITION

Visually check the belt for cracks, oiliness or wear.

Check that the belt does not touch the bottom of the pulley groove.

2. 2UZ –FE and 1HD –FTE Engine:

INSPECT DRIVE BELT'S INSTALLATION CONDITION

Check that the drive belt fits properly in the ribbed grooves.

3. Except 2UZ –FE Engine:

CHECK DRIVE BELT DEFLECTION

(a) Using a belt tension gauge, apply a load of 98 N (10 kgf, 22 lbf).

(b) Measure drive belt deflection.

Drive belt deflection:

1FZ-FE Engine:

New belt: 5.0 – 7.0 mm (0.20 – 0.28 in.)

Used belt: 7.0 – 9.5 mm (0.25 – 0.37 in.)

1HZ and 1HD –T Engine:

New belt: 12.0 – 16.0 mm (0.47 – 0.63 in.)

Used belt: 16.0 – 22.0 mm (0.63 – 0.87 in.)

1HD-FTE Engine:

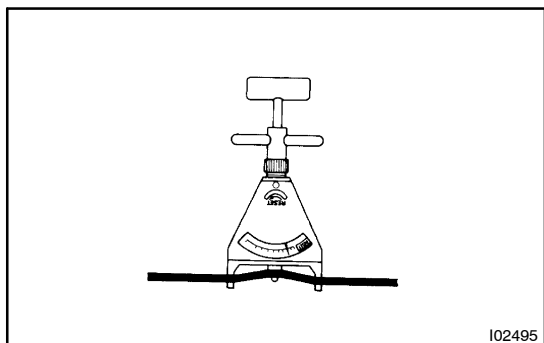
New belt: 10.0 – 14.0 mm (0.39 – 0.55 in.)

Used belt: 13.0 – 18.0 mm (0.51 – 0.71 in.)

HINT:

- "New belt" refers to a belt which has been used for less than 5 minutes on a running engine.
- "Used belt" refers to a belt which has been used on a running engine for 5 minutes or more.
- After installing the drive belt, check that it fits properly in the ribbed grooves.

If one belt has any of the above defects, replace the both belts.



4. Except 2UZ –FE Engine:

INSPECT DRIVE BELT TENSION

Using a belt tension gauge, check that the drive belt tension.

Drive belt tension:

1FZ–FE Engine:

New belt: 373 – 608 N (38 – 62 kgf)

Used belt: 196 – 392 N (20 – 40 kgf)

1HZ and 1HD –T Engine:

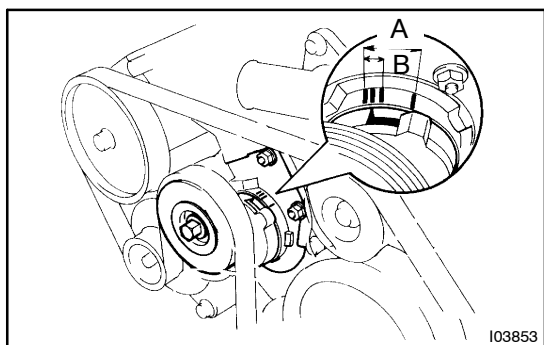
New belt: 373 – 608 N (38 – 62 kgf)

Used belt: 196 – 392 N (20 – 40 kgf)

1HD–FTE Engine:

New belt: 520 – 755 N (53 – 77 kgf)

Used belt: 343 – 539 N (35 – 55 kgf)



5. 2UZ –FE Engine:

INSPECT DRIVE BELT TENSION

Check that the arrow mark on the belt tensioner falls within area "A" of the scale.

If it is outside area "A", replace the drive belt.

HINT:

When a new belt is installed, it should be lie within area B.