

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:

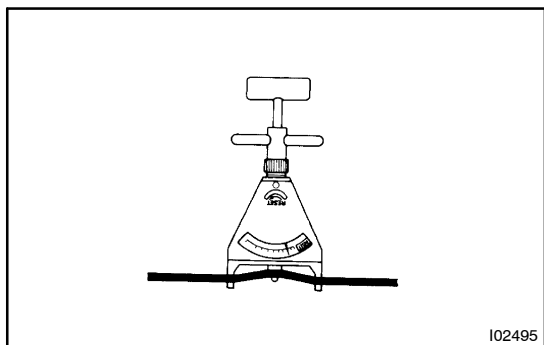
New belt: 10.0 – 14.0 mm (0.39 – 0.55 in.)

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:

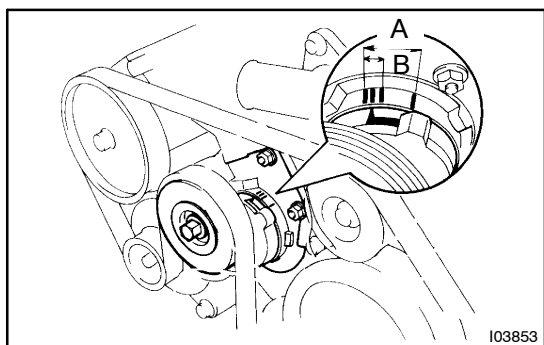
New belt: 373 – 608 N (38 – 62 kgf)

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 out side area "A", replace the drive belt.

HINT:

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