REAR WHEEL ALIGNMENT

SA0IO–02

INSPECTION

1. MEASURE VEHICLE HEIGHT (See page SA–5)
2. INSTALL CAMBER–CASTER–KINGPIN GAUGE OR POSITION VEHICLE ON WHEEL ALIGNMENT TESTER

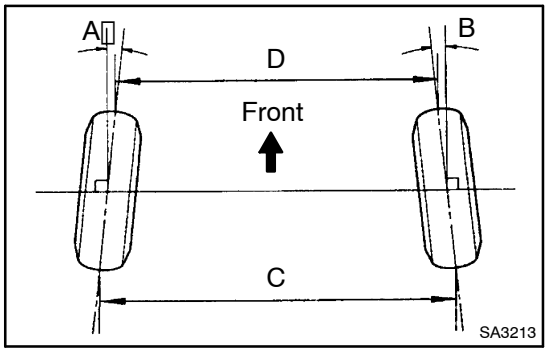
Follow the specific instructions of the equipment manufacturer.

3. INSPECT CAMBER

Camber:

Camber	–1°25' ± 45' (–1.42° ± 0.75°)
Right–left error	30' (0.5°) or less

If the camber is not within the specified value, after the toe–in is inspected, see step 5. to adjust.

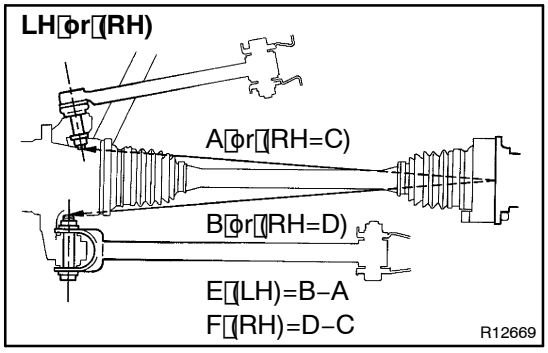


4. INSPECT TOE–IN

Toe–in:

Toe–in (total)	A + B: 0°18' ± 12' (0.3° ± 0.2°) C – D: 3 ± 2 mm (0.12 ± 0.08 in.)

If the toe–in is not within the specified value, see step 5. to adjust.



5. ADJUST CAMBER AND TOE–IN

(a) Measure the length of the lower suspension arm No. 1 and No. 2, as shown in the illustration.

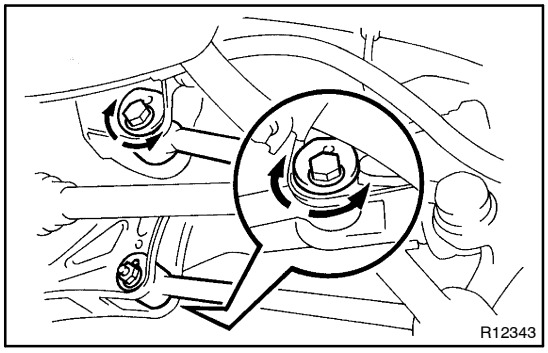
Length:

(E–F) or (F–E) should be less than 4.0 mm (0.16 in.).

If it exceeds the specified value, adjust the length of the arms by turning the adjusting cams, as shown, until (E–F) or (F–E) is less than 4.0 mm (0.16 in.).

(b) Measure the camber and toe–in.

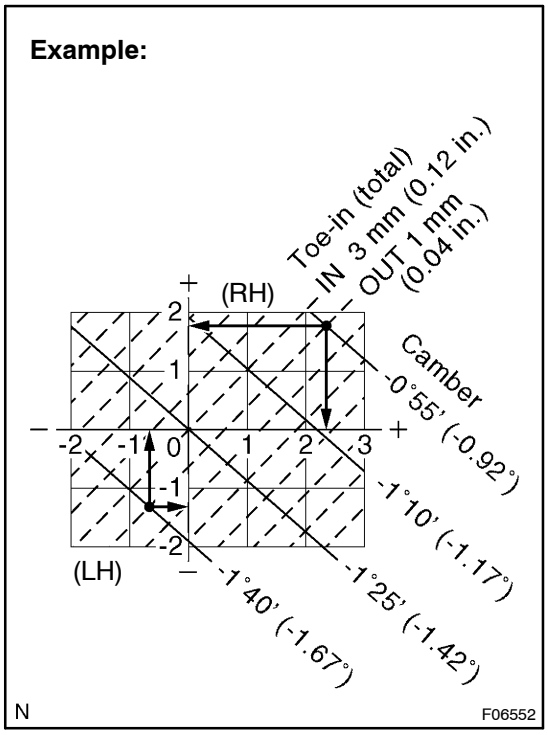
If the camber and toe–in are still not within the specified value, adjust the camber and toe–in with the adjusting cams (See step 6.).



(c) Loosen the front and/or rear cams.
(d) Adjust the camber and toe–in by turning the front and/or rear cams.

HINT:
Try to adjust the camber and toe–in to the center of the specified values.

(e) Torque the front and/or rear cam nuts.
Torque: 78 N·m (790 kgf·cm, 58 ft·lbf)

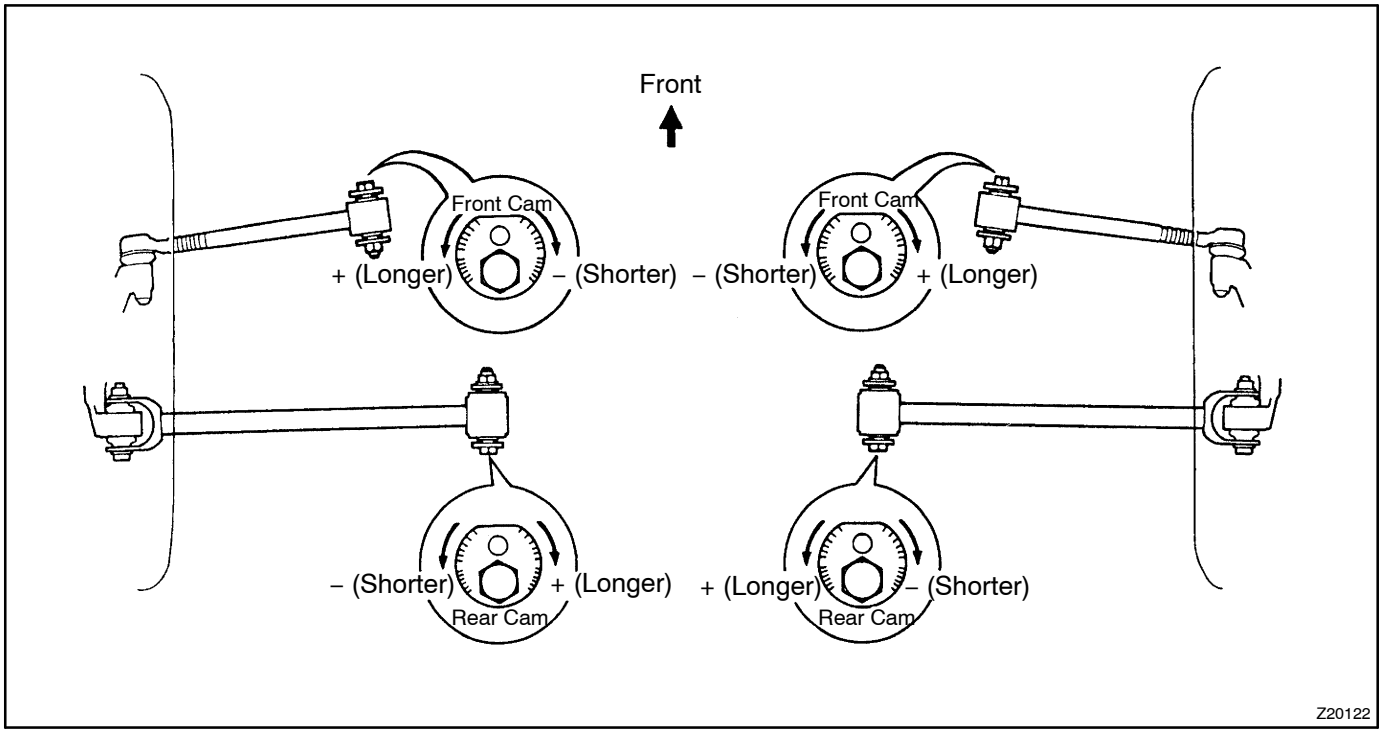


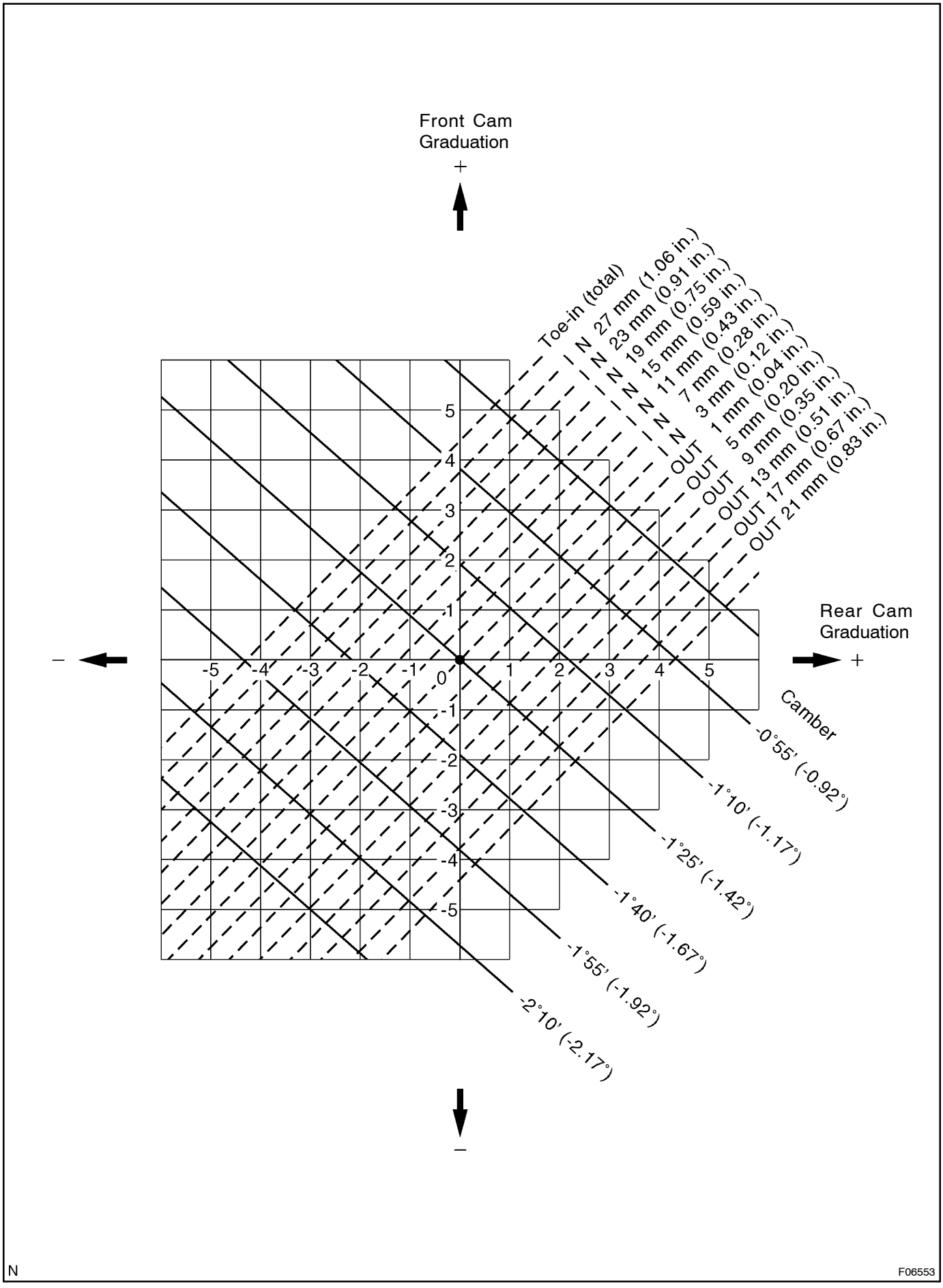
6. HOW TO READ ADJUSTMENT CHART (EXAMPLE)

(a) Measure the present alignment.
Example:
Camber (RH): –0°55' (–0.92°)
Camber (LH): –1°40' (–1.67°)
Toe–in (total): OUT 1 mm (0.04 in.)

(b) Mark the present alignment on the adjustment chart.

(c) As shown in the example chart, read the distance from the marked point to center of the chart, and adjust the front and/or rear adjusting cams accordingly
Amount to turn adjusting cams (by graduation):
Front cam (RH): + (Longer) 1.8
Front cam (LH): – (Shorter) 1.3
Rear cam (RH): + (Longer) 2.3
Rear cam (LH): – (Shorter) 0.7




Front Cam
Graduation
+
–
Rear Cam
Graduation
+
–
Toe-in (total)
IN 27 mm (1.06 in.)
IN 23 mm (0.91 in.)
IN 19 mm (0.75 in.)
IN 15 mm (0.59 in.)
IN 11 mm (0.43 in.)
IN 7 mm (0.28 in.)
IN 3 mm (0.12 in.)
OUT 1 mm (0.04 in.)
OUT 5 mm (0.20 in.)
OUT 9 mm (0.35 in.)
OUT 13 mm (0.51 in.)
OUT 17 mm (0.67 in.)
OUT 21 mm (0.83 in.)
Camber
-0°55' (-0.92°)
-1°10' (-1.17°)
-1°25' (-1.42°)
-1°40' (-1.67°)
-1°55' (-1.92°)
-2°10' (-2.17°)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-5 -4 -3 -2 -1 0 1 2 3 4 5
N
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