

Section : Chassis/
Power Train

Ref. No. : CP-2013

Date : Jun., 2002

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Area Application : Australia

Model Name : HIACE

Model Code : RZH103, 113, 125, LH162, 172, 184

Subject : SUPPLEMENT FOR REPAIR MANUAL (Front Wheel Alignment)

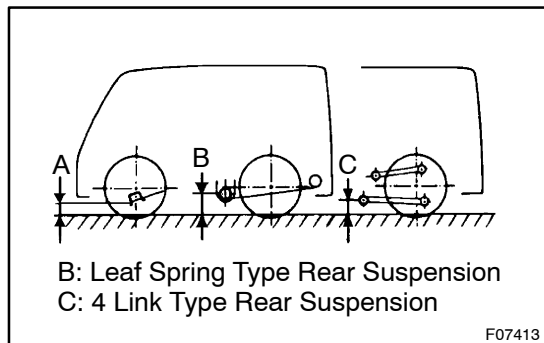
This Servis Bulletin is to inform you of the front wheel alignment repair procedures for TOYOTA HIACE due to change from August, 2002 model.

The attached pages will be used with the following manuals.

Pub. No.	Publication Name
RM156E	TOYOTA HIACE Chassis and Body Repair Manual
RM471E	TOYOTA HIACE Chassis and Body Supplement Repair Manual
RM670E	TOYOTA HIACE Chassis and Body Supplement Repair Manual
RM709E	TOYOTA HIACE Chassis and Body Supplement Repair Manual

Production Effective :

Frame No.	Production Date
—	From August, 2002



FRONT WHEEL ALIGNMENT INSPECTION

1. MEASURE VEHICLE HEIGHT

	Front mm (in.)	Rear mm (in.)
RZH103R-RBMREQ Tire size: —185R14 —195/70R15C	283 (11.14) 283 (11.14)	296 (11.65) 296 (11.65)
RZH103R-RBPREQ Tire size: —185R14 —195/70R15C	282 (11.10) 283 (11.14)	295 (11.61) 296 (11.65)
RZH113R-RBMREQ Tire size: —185R14 —195/70R15C	286 (11.26) 287 (11.30)	295 (11.61) 296 (11.65)
RZH113R-RBPREQ Tire size: —185R14 —195/70R15C	286 (11.26) 287 (11.30)	295 (11.61) 296 (11.65)
RZH125R-ZRMREQ Tire size: —185R14 —195/70R15C	273 (10.75) 274 (10.79)	281 (11.06) 281 (11.06)
RZH125R-ZRPREQ Tire size: —185R14 —195/70R15C	274 (10.79) 274 (10.79)	280 (11.02) 281 (11.06)
LH162R-RBMRSQ Tire size: —185R14 —195/70R15C	279 (10.98) 280 (11.02)	294 (11.57) 295 (11.61)
LH172R-RBMRSQ Tire size: —185R14 —195/70R15C	283 (11.14) 283 (11.14)	294 (11.57) 294 (11.57)
LH184R-ZRMRSQ Tire size: —185R14 —195/70R15C	273 (10.75) 274 (10.79)	280 (11.06) 280 (11.06)
LH184R-ZRPRSQ Tire size: —185R14 —195/70R15C	273 (10.75) 274 (10.79)	279 (10.98) 280 (11.06)

A: Ground clearance of lower arm adjusting cam bolt center.

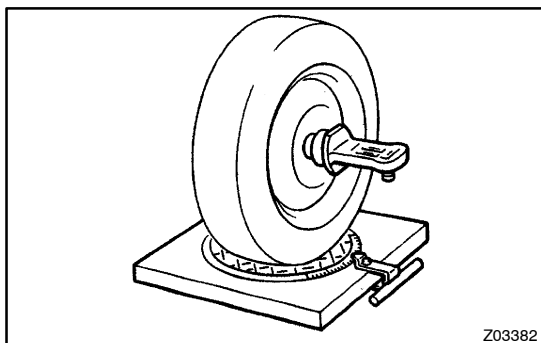
B: Ground clearance of rear leaf spring front bushing center.

C: Ground clearance of lower control arm front bushing center.

NOTICE:

Before inspecting the wheel alignment, adjust the vehicle height to specification.

If the vehicle height is not within the specification, try to adjust it by pushing down on or lifting the body.



2. INSTALL CAMBER-CASTER-KINGPIN GAUGE OR TIRE ONTO WHEEL ALIGNMENT TESTER

Follow the specific instructions of the equipment manufacturer.

3. INSPECT CAMBER, CASTER AND STEERING AXIS INCLINATION

Left-right error: 30' (0.5°) or less

Camber:

RZH103R-RBMREQ RZH103R-RBPREQ LH162R-RBMRSQ	$-0^{\circ}15' \pm 30' (-0.25^{\circ} \pm 0.5^{\circ})$
RZH113R-RBMREQ RZH113R-RBPREQ LH172R-RBMRSQ	$-0^{\circ}20' \pm 30' (-0.33^{\circ} \pm 0.5^{\circ})$
RZH125R-ZRMREQ RZH125R-ZRPREQ LH184R-ZRMRSQ LH184R-ZRPRSQ	$-0^{\circ}10' \pm 30' (-0.17^{\circ} \pm 0.5^{\circ})$

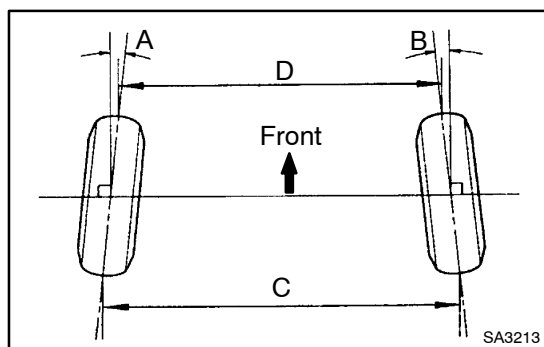
Caster:

RZH103R-RBMREQ RZH103R-RBPREQ RZH113R-RBMREQ RZH113R-RBPREQ LH162R-RBMRSQ LH172R-RBMRSQ	$1^{\circ}30' \pm 30' (1.50^{\circ} \pm 0.5^{\circ})$
RZH125R-ZRMREQ RZH125R-ZRPREQ LH184R-ZRMRSQ LH184R-ZRPRSQ	$1^{\circ}55' \pm 30' (1.92^{\circ} \pm 0.5^{\circ})$

Steering axis inclination:

RZH103R-RBMREQ RZH103R-RBPREQ LH162R-RBMRSQ	$10^{\circ}45' \pm 30'$ ($10.75^{\circ} \pm 0.5^{\circ}$)
RZH113R-RBMREQ RZH113R-RBPREQ LH172R-RBMRSQ	$10^{\circ}50' \pm 30'$ ($10.83^{\circ} \pm 0.5^{\circ}$)
RZH125R-ZRMREQ RZH125R-ZRPREQ LH184R-ZRMRSQ LH184R-ZRPRSQ	$10^{\circ}40' \pm 30'$ ($10.67^{\circ} \pm 0.5^{\circ}$)

If the steering axis inclination is not within the specification, after camber and caster have correctly adjusted, recheck the steering knuckle front wheel for bearing or looseness.



4. INSPECT TOE-IN

Toe-in (Total): ____ RZH103R-RBMREQ ____ RZH103R-RBPREQ ____ LH162R-RBMRSQ ____ RZH125R-ZRMREQ ____ RZH125R-ZRPREQ ____ LH184R-ZRMRSQ ____ LH184R-ZRPRSQ	A+B: $0^{\circ}12' \pm 6'$ ($0.2^{\circ} \pm 0.1^{\circ}$) C-D: 2 ± 1 mm (0.08 ± 0.04)
Toe-in (Total): ____ RZH113R-RBMREQ ____ RZH113R-RBPREQ ____ LH172R-RBMRSQ	A+B: $0^{\circ}18' \pm 6'$ ($0.3^{\circ} \pm 0.1^{\circ}$) C-D: 3 ± 1 mm (0.12 ± 0.04)

If the toe-in is not within the specification, adjust the tie rod ends.