

FUEL SYSTEM

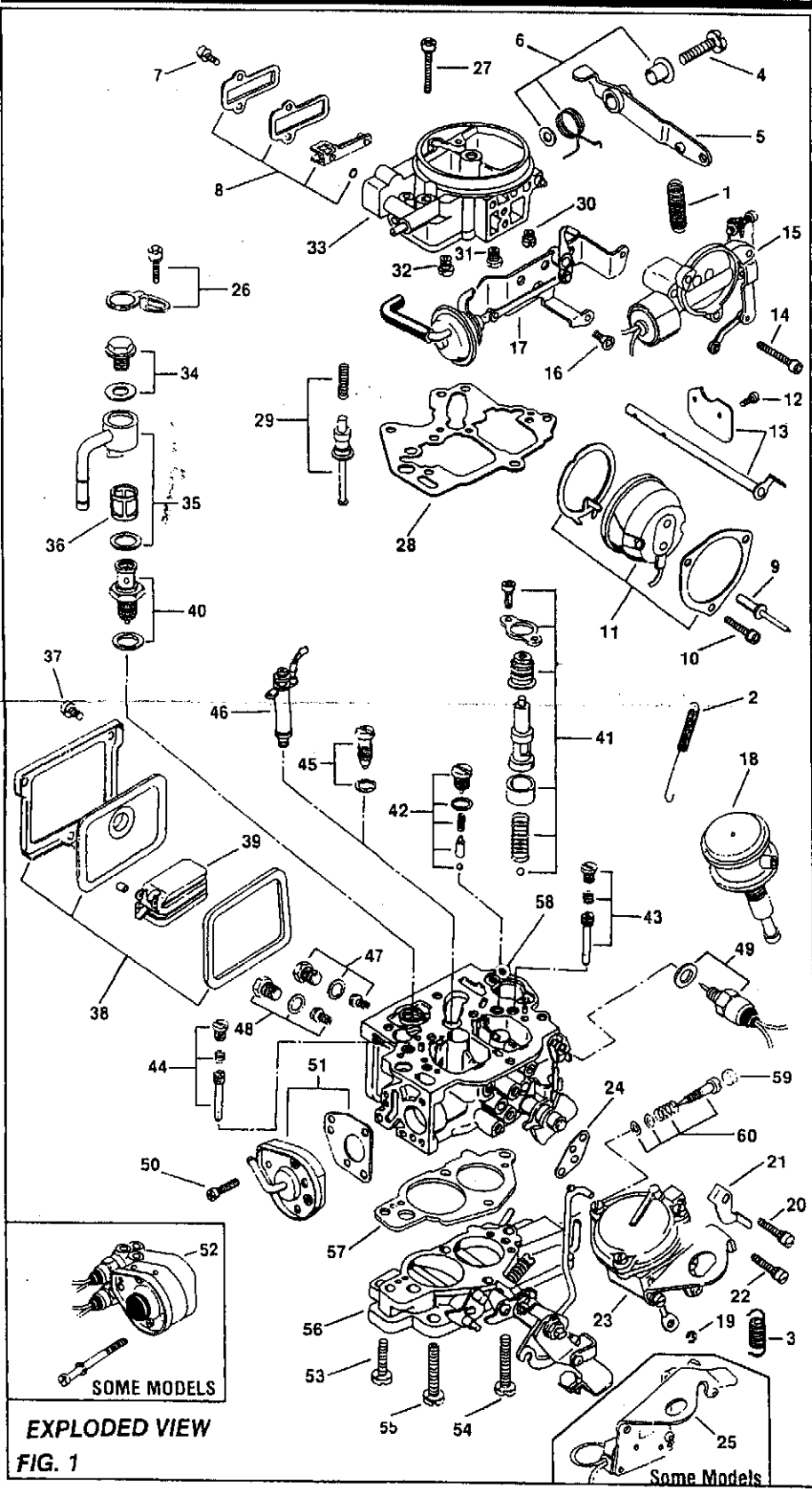
SERVICE INSTRUCTION WORKSHEET

TO REPAIR

GF4357-8

HITACHI CARBURETOR

2 BARREL--Models DCH340; DCR342, 384; DFP 384



EXPLODED VIEW
FIG. 1

1. Carefully read the text in the following pages to become familiar with the contents of this worksheet before performing carburetor overhaul.
2. The exploded view is typical of the model carburetor this kit will service. The view may differ slightly from the actual carburetor being overhauled.
3. Use the exploded view as a guide. The numerical sequence of the parts list may generally be followed to disassemble the carburetor far enough to permit cleaning and inspection.
4. Parts list shown DOES NOT reflect the contents of the kit.
5. Kit may contain extra parts intended for other carburetors within this group. Substitute identical replacement parts for original worn parts found in carburetor.

CLEANING

Cleaning must be done with carburetor disassembled. Use spray cleaner and a stiff bristle brush to remove dirt and carbon deposits. Do not use abrasives and wires to clean parts and passageways. Wash off in suitable solvent, and clear all passageways with compressed air. **Caution:** When cleaning with solvent do not soak or spray parts containing rubber, leather, plastic and electrical components.

PARTS LIST (Fig. 1)

1. Spring, throttle return
2. Spring, secondary return
3. Spring, throttle return
4. Screw, pump lever
5. Pump lever
6. Pump lever parts
7. Screw, compensator cover (2)
8. Idle compensator valve assembly
9. Pop rivet, cover retainer (2)
10. Screw, cover retainer
11. Thermostatic coil & cover assembly
12. Screw, choke valve (2)
13. Choke valve & shaft assembly
14. Screw, choke housing (2)
15. Choke housing & thermo. unit
16. Screw, pull-off bracket
17. Choke pull-off & bracket assembly
18. Vacuum dashpot assembly
19. Retainer, secondary diaphragm
20. Screw, cam stop
21. Fast idle cam stop
22. Screw, secondary diaphragm (2)
23. Secondary throttle diaphragm assembly
24. Gasket, secondary diaphragm
25. Throttle switch assembly
26. Screw & lock bracket
27. Screw, air horn (4 different lengths)
28. Gasket, air horn
29. Power piston assembly
30. Jet, slow air bleed
31. Jet, primary main air bleed
32. Jet, secondary main air bleed
33. Air horn assembly
34. Bolt & washer, banjo fitting
35. Banjo fitting & washer, fuel inlet
36. Screen, fuel filter
37. Screw, retainer (3)
38. Sight window assembly
39. Float assembly
40. Needle & seat assembly
41. Fuel pump assembly
42. Pump discharge ball & weight assembly
43. Jet, primary slow
44. Jet, secondary slow
45. Power valve assembly
46. Solenoid, air-fuel ratio (some models)
47. Primary main jet assembly
48. Secondary main jet assembly
49. Solenoid, anti-dieseling
50. Screw, by-pass valve (3)
51. By-pass air control valve
52. Boost controlled deceleration valve
53. Screw, throttle body (2)
54. Screw, throttle body (long)
55. Screw, throttle body (hollow)
56. Throttle body assembly
57. Gasket, throttle body
58. Main body assembly
59. Plug, idle mixture needle
60. Idle mixture needle assembly

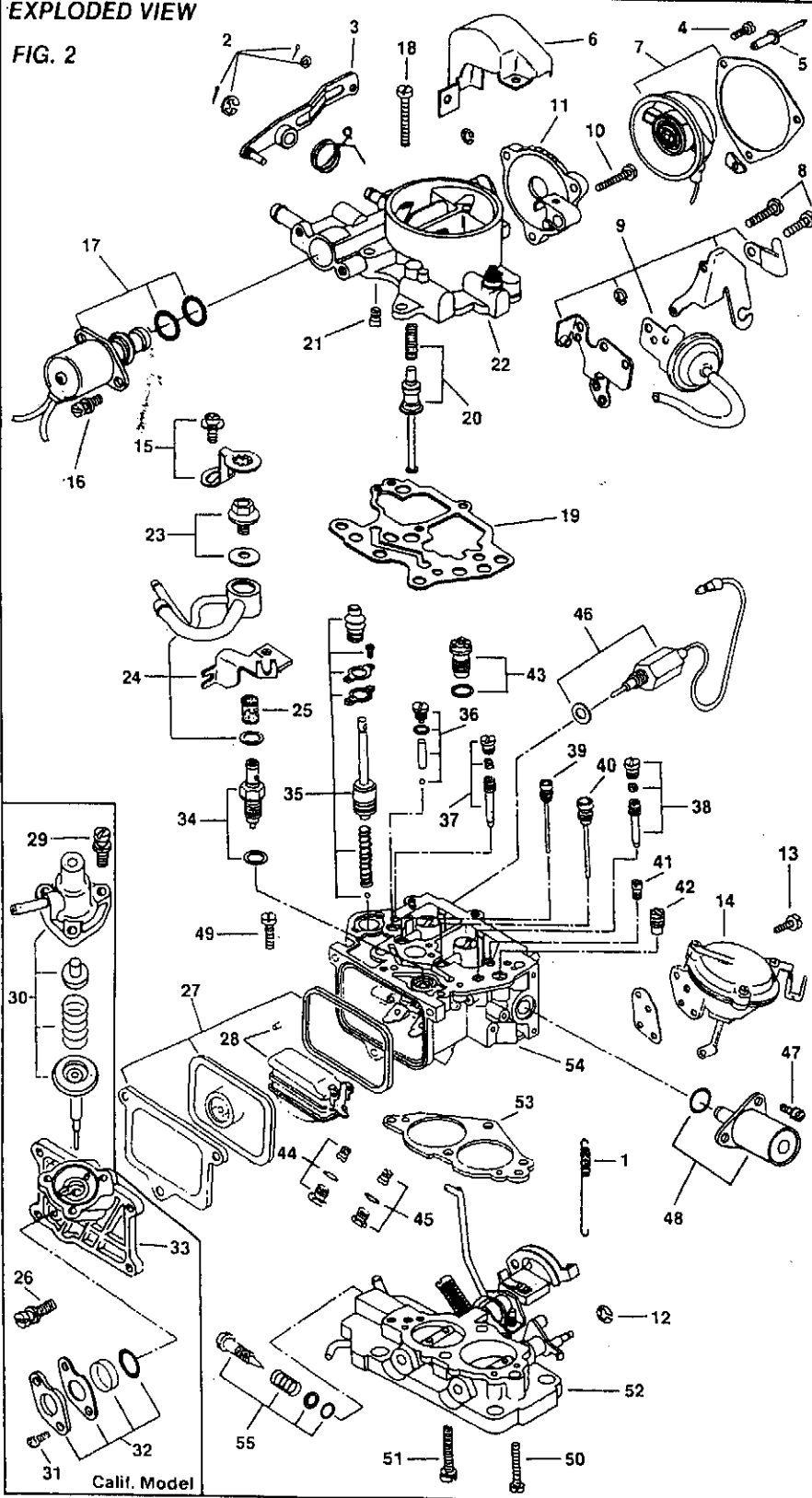
REMOVAL & INSTALLATION NOTES (All Models)

1. CAUTION: Original screws have a sealant coating. Exercise care in removing by using a close fitting screwdriver blade. If difficulty is encountered, try carefully turning screw heads using a very small pair of curved teeth vice grip pliers (recommended only as a last resort).
2. Some models have choke cover assembly fastened with pop rivets (5, 9). To remove, drill off heads and drive out rivets using a drift punch.
3. Remove choke shaft (13) (only if replacement is required) by first removing choke valve screws (12) if staked by grinding or filing. If sealed with lock tight use a solvent. Place shaft on a firm support and using a close fitting screwdriver blade, remove screws releasing choke valve. CAUTION: Do not bend choke shaft. Next, slide shaft from air horn casting. If the above removal method is ineffective, the only alternative is to drill out screws & re-lap threads. NOTE: Apply sealant to screws upon installation. Screws are not supplied as replacements in kits.
4. Measure and record float level settings before dismantling float assembly (28, 39). Remember that the float unit is subject to possible fuel absorption. If in doubt, replace with a new one.
5. To remove power valve piston assembly (20, 29) from air horn, use a sharp tool to remove staking. Restake upon installation.
6. Mark or index parts especially where similarities exist such as jets & tubes, etc. Also note spring location points to insure correct installation.

7. Retain all old gaskets for matching purposes. Re-assemble with all new applicable gaskets. CAUTION: When working on carburetor model DCH342 do not tamper with the two screw-like plugs located in primary side of throttle assembly.
8. To remove idle mixture plug (52), drill a small hole to fit screw-end of small slide hammer, then pull out plug. If slide hammer is not available, drill appropriate size hole in plug, then drive in tapered end of nail set (tool) and pry out plug. To remove idle mixture plug on carburetor model DCH340, invert throttle body (52) and knock out plug using a punch inserted in slit near idle mixture needle.
9. Before removing mixture screw (55, 60), mark position, turn in until lightly seated counting number of turns, turn out to index mark. Record number of turns for installation and remove.
10. Install parts and components in reverse order of disassembly.
11. To correctly place choke cover assembly (7, 11) on choke housing, make sure hook end of spring engages lever in choke housing so as to spring-load choke valve toward closed position.
12. Make sure pump return spring of fuel pump assembly (35, 41) is correctly installed with cross wire to the bottom of pump cylinder and in slot.
13. Check throttle linkage for freedom of movement before and after installing carburetor on engine.
14. When installing sight window retainer (27, 38) and actuator (33), tighten screws evenly. Do not over-tighten.

EXPLODED VIEW

FIG. 2



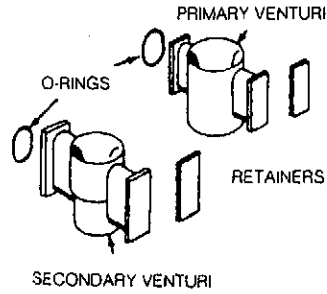
PARTS LIST (Fig. 2)

1. Spring, secondary return
2. Retainer, pump lever
3. Pump lever
4. Screw, cover retainer
5. Pop rivet, cover retainer (2)
6. Cover, choke linkage*
7. Thermostatic coil & cover assembly
8. Screw, clamp & bracket
9. Choke pull-off & bracket assembly
10. Screw, cover housing
11. Choke housing assembly
12. Retainer, secondary diaphragm
13. Screw, secondary diaphragm (3)
14. Secondary throttle diaphragm assembly
15. Screw & lock bracket
16. Screw, bowl vent solenoid
17. Solenoid assembly & o-rings, bowl vent
18. Screw, air horn (3)
19. Gasket, air horn
20. Power piston assembly
21. Jet, primary slow air bleed
22. Air horn assembly
23. Bolt & washer, banjo fitting
24. Banjo fitting assembly, fuel inlet
25. Screen, fuel filter
26. Screw, retainer or actuator (3-4)
27. Sight window assembly
28. Float assembly
29. Screw, cover (3)
30. Diaphragm assembly, actuator
31. Screw, cover (2)
32. Gauge, window assembly
33. Actuator & level gauge assembly
34. Needle & seat assembly
35. Fuel pump assembly
36. Pump diaphragm ball & weight assembly
37. Jet, primary slow
38. Jet, secondary slow
39. Jet, primary main air bleed
40. Jet, secondary main air bleed
41. Jet, air bleed
42. Jet, coasting
43. Power valve assembly
44. Primary main jet assembly
45. Secondary main jet assembly
46. Solenoid, anti-dieseling
47. Screw, coasting solenoid
48. Coasting solenoid & o-ring assembly
49. Screw, throttle body
50. Screw, throttle body (2)
51. Screw, throttle body (hollow)
52. Throttle body assembly
53. Gasket, throttle body
54. Main body assembly
55. Idle mixture needle assembly

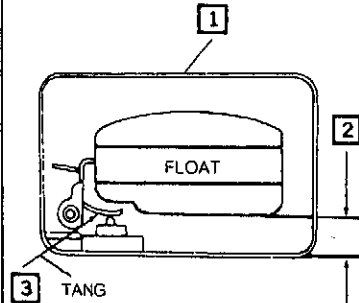
* Cover retained by two pop rivets (not shown).

FIG. 3**SPECIAL NOTE:**

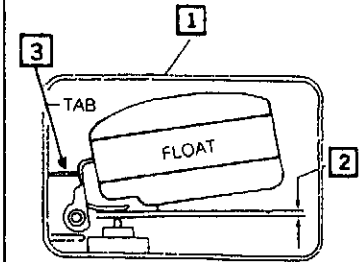
IF O-RING SEALS HAVE TO BE REPLACED, LIGHTLY TAP VENTURIES FROM BOTTOM UNTIL THEY ARE FREE. ON SOME MODELS, REMOVE VENTURIES BY LOOSENING LOCK SCREWS. (REMOVE STAKING ON LOCK SCREWS OR ON O-RING SIDE OF VENTURI IF NECESSARY.) INSTALL NEW O-RINGS AND POSITION VENTURIES FIRMLY IN PLACE. THEN TAP IN SPRING RETAINERS. MAKE SURE VENTURIES ARE FIRMLY IN PLACE, TIGHTEN SCREWS OR RESTAKE VENTURI ON O-RING SIDE.

**ADJUSTMENT DATA****FIG. 4****FLOAT LEVEL (DRY) ADJUSTMENT**

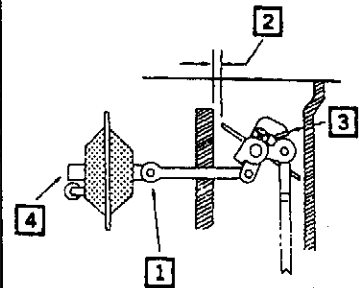
1. WITH FUEL BOWL (MAIN BODY) INVERTED, ALLOW FLOAT TANG TO REST LIGHTLY ON NEEDLE. CAUTION: DO NOT COMPRESS SPRING LOADED NEEDLE OR FORCE RESILIENT NEEDLE INTO SEAT.
2. MEASURE SPECIFIED CLEARANCE (SEE SPEC. CHART) AS SHOWN BETWEEN TOE END OF FLOAT & TOP OF FLOAT BOWL. OR CHECK THAT FLOAT IS PARALLEL WITH TOP OF FLOAT BOWL.
3. IF ADJUSTMENT IS REQUIRED, BEND FLOAT TANG.

**FIG. 5****FLOAT DROP ADJUSTMENT**

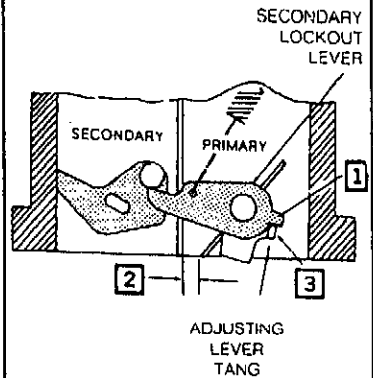
1. WITH FUEL BOWL (MAIN BODY) INVERTED, RAISE FLOAT UNTIL FLOAT TAB LIGHTLY TOUCHES WALL OF FUEL BOWL.
2. MEASURE SPECIFIED CLEARANCE (SEE SPEC. CHART) AS SHOWN USING A DRILL OR FILLER GAUGE BETWEEN FLOAT TANG AND TOP OF NEEDLE.
3. IF ADJUSTMENT IS REQUIRED, BEND FLOAT TAB.

**FIG. 6****VACUUM BREAK ADJUSTMENT**

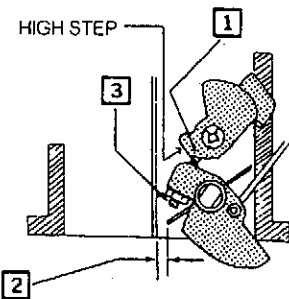
1. PUSH ON PLUNGER ROD UNTIL VACUUM BREAK DIAPHRAGM IS SEATED.
2. WITH CHOKE VALVE HELD IN CLOSED POSITION, MEASURE SPECIFIED CLEARANCE (SEE SPEC. CHART) BETWEEN AIR HORN WALL & UPPER EDGE OF CHOKE VALVE.
3. PASSENGER CAR - TO ADJUST, BEND TAB.
4. PICK-UP TRUCK - TO ADJUST, REMOVE SEALER & TURN ADJUSTING SCREW, RE-SEAL AFTER ADJUSTMENT.

**FIG. 7****SECONDARY THROTTLE ADJUSTMENT**

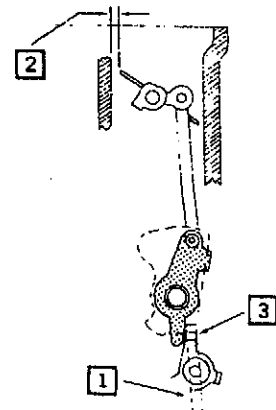
1. MOVE PRIMARY THROTTLE VALVE OPEN UNTIL ADJUSTING LEVER TANG JUST TOUCHES SECONDARY LOCKOUT LEVER. AT THIS POINT SECONDARY VALVE WILL START TO OPEN.
2. MAINTAIN THROTTLE VALVE IN THIS POSITION & MEASURE CLEARANCE AS SPECIFIED (SEE SPEC. CHART) BETWEEN THROTTLE BORE & PRIMARY THROTTLE VALVE.
3. IF ADJUSTMENT IS REQUIRED, BEND ADJUSTING LEVER TANG.

**FIG. 8****FAST IDLE (BENCH) ADJUSTMENT**

1. POSITION FAST IDLE SCREW ON 2nd STEP OF CAM*. TURN CARBURETOR UPSIDE DOWN & CLOSE CHOKE VALVE.
2. MEASURE CLEARANCE AS SPECIFIED (SEE SPEC. CHART) BETWEEN THROTTLE VALVE & THROTTLE BORE. (SOME MODELS, MEASURE OPENING ANGLE.)
3. IF ADJUSTMENT IS REQUIRED, TURN FAST IDLE SCREW.

**FIG. 9****UNLOADER ADJUSTMENT**

1. MAINTAIN THROTTLE VALVE IN A WIDE OPEN POSITION.
2. MEASURE CLEARANCE AS SPECIFIED (SEE SPEC. CHART) BETWEEN WALL OF AIR HORN & UPPER EDGE OF CHOKE VALVE.
3. IF ADJUSTMENT IS REQUIRED, BEND UNLOADER TANG.



* DCH MODELS— PLACE FAST IDLE SCREW ON HIGH STEP OF CAM

SPECIFICATION CHART¹

Year	Application	Float Level Fig. 4	Float Drop Fig. 5	Vacuum Break Fig. 6	Secondary Throttle Opening Fig. 7	Fast Idle (Bench) Fig. 8	Unloader Fig. 9
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NISSAN TRUCKS — SPECIFICATION I.D.-A

1985-83	2.0L Eng. (Z20)	7.5	1.5	2.9	7.9	.80	2.45
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NISSAN TRUCKS — SPECIFICATION I.D.-B

1985	Z24 Eng. -U.S.	7.5	1.5	3.4	7.4 - 8.4	.78 ⁷	2.45
	-Canada -2W/D	7.5	1.5	2.6	7.4 - 8.4	.78 ⁷	2.45
	-4W/D & H/D	7.5	1.5	2.8	7.4 - 8.4	.78	2.45
1984-83	Z24 Eng. -Fed.	7.5	1.5	2.5 - 3.1	7.4 - 8.4	.70 - .85 ⁸	2.1 - 2.9
	-Cal.	7.5	1.5	3.1 - 3.7	7.4 - 8.4	.70 - .85 ⁸	2.1 - 2.9
	-Canada -2W/D	7.5	1.5	2.3 - 2.9	7.4 - 8.4	.70 - .85	2.1 - 2.9
	-4W/D	7.5	1.5	2.5 - 3.1	7.4 - 8.4	.70 - .85	2.1 - 2.9

GM TRUCKS, ISUZU — SPECIFICATION I.D.-C

1985	1.9L Eng. -S10, 15 -All/T	²	1.5	—	6.1 - 7.6	16°	—
1984-83	1.9L Eng. -S10, 15; 1.8L, 2.0L Eng. -A/T	²	1.5	—	6.1 - 7.6	18°	—
	-M/T	²	1.5	—	6.1 - 7.6	16°	—
1982-81	1.9L Eng. -S10, 15; LUV; 1.8L Eng. -A/T	²	1.5	1.5 - 1.7	6.1 - 7.6	18°	—
	-M/T	²	1.5	1.3 - 1.5	6.1 - 7.6	16°	—

NISSAN CARS & TRUCKS — SPECIFICATION I.D.-D

1985-82	Pick-Up & Stanza	7.2	1.5	3.1 - 3.7 ³	7.4 - 8.4	.81 - .95 ⁴	2.1 - 2.9
1981	Model 510 & Pick-Up	7.2	1.5	2.6 - 3.2	7.4 - 8.4	.76 - .90 ⁴	2.1 - 2.9
1980	Model 510	7.2	1.5	2.6 - 3.2 ⁵	6.8 - 7.8	—	2.1 - 2.9
	Pick-Up	7.2	1.5	2.8	7.4	.81 - .95 ⁶	2.5

ISUZU TRUCKS — SPECIFICATION I.D.-E

1984	2.0L Eng. -Cal.	2	1.5	—	6.1 - 7.6	15° - 17° ⁹	—
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FOOTNOTES

- ¹ Dimensions are given in millimeters.
- ² Float parallel with top of bowl.
- ³ Federal models set 2.6 - 3.2mm.
- ⁴ Pick-up & 510 models with A/T set .97 - 1.1mm.
Stanza with M/T set .66 - .80mm.
- ⁵ California models set 3.1 - 3.7mm.
- ⁶ Models with A/T set 1.0 - 1.2mm.
- ⁷ Models with A/T set .94mm.
- ⁸ Models with A/T set .87 - 1.0mm.
- ⁹ Models with A/T set 17° - 19°

ABBREVIATIONS

- All/T All Transmissions
A/T Automatic Transmission
M/T Manual Transmission
Cal. California
Fed. Federal (49 States)
H/D Heavy Duty
W/D Wheel Drive