### 50-677-1

### INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE HITACHI-MODEL DCR384

1984-85 Z24 ENGINE

REF.

### **GENERAL EXPLODED VIEW**

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET

# 82 104 1054

### DISASSEMBLY

USE THE EXPLODED VIEW AS A GLIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. CAUTION: ORIGINALLY CHOKE VALVE SCREWS AND SOME OTHERS HAVE LOCK TIGHT APPLIED TO THEM. TAKE EXTRA CARE IN REMOVING THEM USE PROPER TOOLS. DRILL OR CUT OFF POP RIVET HEADS TO REMOVE CHOKE COVER. ONLY REMOVE 3 LONGEST SCREWS WHEN REMOVINING THE CONTROL VALVE ASSEMBLY, REMOVE STAKING FROM AIR HORN FOR EASY REMOVAL OF POWER PISTON ASSEMBLY, NOTE SIGNS OF ALL JETS AND THEIR LOCATION FOR PROPER ASSEMBLY, RECORD SIZES BELOW. CAREFULLY DRILL HOLE IN PLUG COVERING IDLE ADJUSTING NEEDLE. USING A PULLER REMOVE PLUG. BEFORE REMOVING IDLE ADJUSTING NEEDLE. USING A PULLER REMOVE PLUG. BEFORE REMOVING IDLE ADJUSTING NEEDLE. TURN IN COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT THE NEEDLE. RECORD FOR ASSEMBLY.

NOTE: IF VENTURIS ARE REMOVED TO REPLACE O-RING SEALS, LIGHTLY TAP VENTURI FROM THE BOTTOM SIDE UNTIL IT IS FREE. (REMOVE STAKING ON O-RING SIDE OF VENTURI IF NECESSARY.) INSTALL NEW O-RING AND VENTURI FIRMLY IN PLACE, THEN TAP IN SPRING RETAINER. BE SURE VENTURI IS FIRMLY IN PLACE, LIGHTLY RESTAKEVENTURI ON O-RING SIDE.

CAUTION: DO NOT TURN THE TWO SCREW LIKE PLUGS LOCATED IN THROTTLE BODY HOUSING. (PRIMARY SIDE.)

### NOMENCLATURE

REF.

NO.		NO.	
1.	SPRING-THROTTLE RETURN	49.	SPRING-POWER PISTON
	(PUMP LEVER)	50.	JET-PRI. MAIN AIR BLEED
2.	COTTER PIN-PUMP LEVER	51.	JET-SEC. MAIN AIR BLEED
3.	E-CLIP-PUMP LEVER	52.	GASKET-AIR HORN
4.	WASHER-PUMP LEVER	53.	PLUG-PRI. SLOW JET
5.	LEVER-PUMP	54.	JET-PRI. SLOW
6.	BUSHING-PUMP LEVER	55.	PLUG-PUMP CHECK
7.	SPRING-LEVER RETURN	56.	GASKET-PLUG
8.	COTTER PIN-PUMP ROD	57.	SPRING-PUMP BALL WEIGHT
9.	WASHER-PUMP ROD	58.	WEIGHT-PUMP BALL
10.	ROD-PUMP	59.	BALL-PUMP DISC. CHECK
11.	POP RIVET (2)-CHOKE RETAINER)	60.	JET-SECONDARY SLOW
12.	SCREW & LOCKWASHER-CHOKE	61.	SCREW & LOCKWASHER (2)-
	RETAINER		PUMP BOOT PLATE
13.	RETAINER-CHOKE COVER	62.	PLATE-BOOT
14.	CHOKE COVER ASSY. (ELECTRIC)	63.	BOOT-PUMP
15.	PLATE-STOPPER	64.	PUMP ASSEMBLY
16.	SOLENOID ASSEMBLY	65.	SPRING-PUMP RETURN
10.		66.	BALL-PUMP INTAKE CHECK
17.	(ANTI-DIESELING)	67.	
	GASKET-SOLENOIO	68.	SCREW-FILTER SET
8.	SPRING-THROTTLE RETURN		GASKET-SCREW
9.	E-CLIP-SEC. DIAPHRAGM STEM	69.	NIPPLE-FUEL
20.	SCREW & LOCKWASHER (3)-SEC.	70.	SCREEN-FUEL FILTER
	DIAPHRAGM ASSY.	71.	GASKET-NIPPLE
11.	STOP PLATE-FAST IDLE CAM	72.	SCREW (3)-CLAMP
2.	SECONDARY DIAPHRAGM ASSY.	73.	CLAMP-WINDOW
23.	GASKET-SEC. DIAPHRAGM ASSY.	74.	WINDOW-FUEL BOWL
4.	SPRING-SEC. THROTTLE RETURN	75.	GASKET-WINDOW
5.	SCREW (3)-CHOKE VALVE	76.	SLEEVE-FLOAT RETAINER
6.	VALVE-CHOKE	77.	FLOAT ASSEMBLY
7.	SCREW & LOCKWASHER-FAST IDLE	78.	NEEDLE & SEAT ASSEMBLY
	LINK LEVER	79.	GASKET (SERVICE)-NEEDLE SEAT
8.	CHOKE SHAFT	80.	POWER VALVE ASSEMBLY
9.	SCREW & LOCKWASHER-CHOKE	81.	GASKET-POWER VALVE
	HOUSING	82.	JET-PRI. MAIN
80.	SCREW & LOCKWASHER-CHOKE	83.	JET-SEC. MAIN
	HOUSING	84	SCREW & LOCKWASHER (1)
31.	CHOKE HOUSING	"	THROTTLE BODY (HOLLOW)
32.	SCREW & LOCKWASHER-CHOKE	85.	SCREW & LOCKWASHER (1)-
	PULLOFF BRACKET	05.	THROTTLE BODY (LONG)
3.	SCREW-CHOKE PULLOFF BRACKET	86.	SCREW & LOCKWASHER (2)-
4.	CHOKE PULLOFF & BRACKET ASSY.	J 00.	THROTTLE BODY
5.	SCREW & LOCKWASHER (3)-	87.	BOWL ASSEMBLY
Э.	BY PASS VALVE	88.	VENTURI PRIMARY
		89.	
6.	BY PASS AIR CONTROL VALVE	90.	O-RING-PRI. VENTURI SEAL
-	ASSEMBLY	90.	RETAINER-PRI. VENTURI
7.	GASKET-BY PASS VALVE		VENTURI-SECONDARY
8.	SCREW & LOCKWASHER-RETAINER	92.	O-RING-SEC. VENTURI SEAL
_	IDLE COMPENSATOR	93.	RETAINER-SEC. VENTURI
9.	RETAINER-IDLE COMPENSATOR	94.	GASKET-THROTTLE BODY
0.	IDLE COMPENSATOR VALVE ASSY.	95.	PLUG-IDLE NEEDLE
1.	O-RING-IDLE COMP. SEAL	96.	NEEDLE-IDLE ADJUSTING
2.	SCREW & LOCKWASHER (2) AIR	97.	SPRING-IDLE NEEDLE
	VENT COVER	98.	WASHER-NEEDLE SEAL
3.	AIR VENT COVER	99.	SEAL-IDLE ADJUSTING NEEDLE
4.	SCREW & WASHERS-LOCK LEVER	100.	SCREW & LOCKWASHER-RETAINER
5.	LOCK LEVER-FILTER SET SCREW	101.	RETAINER-THROTTLE SHAFT SEAL
6.	SCREW & LOCKWASHER (3)-	102.	CUP-PRI. SHAFT SEAL
	AIR HORN ASSY (3 DIFF. LENGTHS	103.	SEAL-PRI. SHAFT
7.	AIR HORN ASSEMBLY	104.	CUP-SEC. SHAFT SEAL
	PISTON-POWER VALVE	105.	SEAL-SEC. SHAFT
8		106.	THROTTLE BODY ASSEMBLY
8.			

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. CAUTION: DO NOT EXTEND CLEANING FERIOD OF PARTS WITH ATTACHED PLASTIC COMPONISTS. USE A CARBURETOR CLEANING SOLVENT, MAKE CETAIN THE THROTTLE BODY IS FREE OF ALL CARBON DEPOSITS. WASH OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS. DO NOT SOAK PARTS SUCH AS 14, 16, 22, 34, 36. 40. 70, 74, 77 OR RUBBER PARTS IN ANY TYPE OF CLEANING SOLVENTS.

### REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INTRUCTIONS AND ADJUSTMENTS.

### SPECIAL INSTRUCTIONS

IDLE ADJUSTING NEEDLE-TURN NEEDLE IN UNTIL LIGHTLY SEATED THEN BACK OUT NUMBER OF TURNS RECORDED ON DISASSEMBLY.

PUMP RETURN SPRING-INSTALL WITH CROSS WIRE TO THE BOTTOM OF PUMP CYLIN-DER AND IN SLOT

POWER PISTON-AFTER INSTALLATION LIGHTLY RESTAKE CASTING AROUND WASHER.

### INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE HITACHI MODEL DFP384

1984-85 Z24 ENGINE (AIR FUEL RATIO SOLENOID)

### **GENERAL EXPLODED VIEW**

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET

## EARLY 80 83. 100 105-0 19 18

### DISASSEMBLY

USE THE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. REMOVE WHERE FROM CARBURETOR HARNESS CONNECTOR WHERE RECESSARY. USING PROPER FOOL AND IDENTIFY WIRE LOCATION FOR PROPER REASSEMBLY. CAUTION: ORIGINALLY CHOKE VALVE SCREWS AND SOME OTHERS HAVE LOCKTIGHT APPLIED TO THEM. TAKE EXTRA CARE IN REMOVING THEM. USE PROPER TOOLS. DRILL OR CUT OFF POP RIVET HEADS TO REMOVE CHOKE COVER. ONLY REMOVE 3 LONGEST SCREWS WHEN REMOVING BY PASS AIR CONTROL VALVE ASSEMBLY. NOTE SIZES OF ALL JETS AND THEIR LOCATION FOR PROPER ASSEMBLY. RECORD SIZES BELOW. CAREFULLY DRILL HOLE IN PLUG COVERING IDLE ADJUSTING NEEDLE. USING A PULLER REMOVE PLUG, BEFORE REMOVING IDLE ADJUSTING NEEDLE. TURN IN COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT THE NEEDLE. RECORD FOR ASSEMBLY.

NOTE: IF VENTURIS ARE REMOVED TO REPLACE O-RING SEALS, LIGHTLY TAP VENTURI FROM THE BOTTOM SIDE UNTIL IT IS FREE. (REMOVE STAKING ON O-RING SIDE OF VENTURI IF NECESSARY) INSTALL NEW O-RING AND VENTURI FIRMLY IN PLACE, THEN TAP IN SPRING RETAINER, BE SURE VENTURI IS FIRMLY IN PLACE. LIGHTLY RESTAKE VENTURI ON O-RING SIDE.

CAUTION: DO NOT TURN THE TWO SCREW LIKE PLUGS LOCATED IN THROTTLE BODY HOUSING, (PRIMARY SIDE.)

	NOMEN	CLAT	URE
REI		REF. NO.	
1.		48.	SCREW & LOCKWASHER (3)-
_	(PUMP LEVER)	l	SOLENOID
2.	COTTER PIN-PUMP LEVER	49.	
	E-CLIP-PUMP LEVER		O-RING (UPPER)-SOLENOID
4.	WASHER-PUMP LEVER	51.	
	LEVER-PUMP	52.	
6.	BUSHING-PUMP LEVER	53.	JET-SEC. MAIN AIR BLEED.
7. 8.	SPRING-LEVER RETURN	54.	
9.	COTTER PIN-PUMP ROD	55.	
10.	WASHER-PUMP ROD ROD-PUMP	56.	
11.	POP RIVET (2)-CHOKE RETAINER	57. 58.	PLUG-PUMP CHECK
12.	SCREW & LOCKWASHER - CHOKE		
	RETAINER	60.	GASKET-PLUG SPRING-PUMP BALL WEIGHT
13.			WEIGHT-PUMP BALL
14.	CHOKE COVER ASSY. (ELECTRIC)	62.	
15.			JET-SECONDARY SLOW
16.	SOLENOID ASSEMBLY	64	SCREW & LOCKWASHER (2)-
	(ANTI-DIESELING)	~~.	PUMP BOOT PLATE
17.	GASKET-SOLENOID	65	PLATE-BOOT
18.		66	
19.	SCREW & LOCKWASHER (2)-	67.	
	SWITCH BRACKET	68.	
20.	BRACKET & SWITCH ASSEMBLY	69.	BALL-PUMP INTAKE CHECK
21.	E-CLIP-SEC. DIAPHRAGM STEM		SCREW-FILTER SET
22.	SCREW & LOCKWASHER (3)-	71.	GASKET-SCREW
	SEC. DIAPHRAGM ASSEMBLY	72.	NIPPLE-FUEL
23.	STOP PLATE-FAST IDLE CAM	73.	SCREEN-FUEL FILTER
24.	SECONDARY DIAPHRAGM ASSEM-	74.	GASKET-NIPPLE
	BLY	75.	
25.	GASKET-SEC. DIAPHRAGM ASSEM-	76.	CLAMP-WINDOW
	BLY	77.	WINDOW-FUEL BOWL
26.		78.	GASKET-WINDOW
27.	SCREW (2)-CHOKE VALVE	79.	SLEEVE-FLOAT RETAINER
28.			FLOAT-ASSEMBLY
29.		81.	NEEDLE & SEAT ASSEMBLY
	FAST IDLE LINK LEVER	82.	GASKET (SERVICE)-NEEDLE SEAT
30.	CHOKE SHAFT	83.	
31.	SCREW & LOCKWASHER-	84.	JET-SEC. MAIN
	CHOKE HOUSING	85.	SCREW & LOCKWASHER (2)-
32.	SCREW & LOCKWASHER-		THROTTLE BODY (LONG)
	CHOKE HOUSING	86.	SCREW & LOCKWASHER (2)-
33.	CHOKE HOUSING	١	THROTTLE BODY
34.	SCREW & LOCKWASHER-	87.	BOWL ASSEMBLY
~-	CHOKE PULLOFF BRACKET	88.	VENTURI-PRIMARY
35.	SCREW-CHOKE PULLOFF BRACKET	89.	
30.	CHOKE PULLOFF & BRACKET	90.	
37.	ASSEMBLY SCREW & LOCKWASHER (3)-	91.	VENTURI-SECONDARY
37.	BY PASS VALVE	92.	
38.			RETAINER-SEC. VENTURI
30.	ASSEMBLY	94.	GASKET-THROTTLE BODY
39.	GASKET-BY PASS VALVE	95.	PLUG-IDLE NEEDLE
40.	SCREW & LOCKWASHER-	96.	
40,	RETAINER IDLE COMPENSATOR	97.	SPRING-IDLE NEEDLE
41.	RETAINER-IDLE COMPENSATOR	98.	WASHER-NEEDLE SEAL
42.		100.	
72.	BLY		
43	O-RING-IDLE COMPENSATOR SEAL		RETAINER-THROTTLE SHAFT SEALS CUP-PRI. SHAFT SEAL
44.	SCREW & WASHERS-LOCK LEVER		
45.	LOCK LEVER-FILTER SET SCREW	103.	
45.			CUP-SEC. SHAFT SEAL SEAL-SEC. SHAFT
<b>4</b> 0.	AIR HORN ASSY. (3 DIFF. LENGTHS)	106.	
47	AIR HORN ASSEMBLY	1'00.	TIMOTTEE BOOT ASSEMBLT

### CLEANING

AIR HORN ASSY. (3 DIFF. LENGTHS) AIR HORN ASSEMBLY

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. CAUTION: DO NOT EXTEND CLEANING PERIOD OF PARTS WITH ATTACHED PLASTIC COMPONENTS USE A CARBURETOR CLEANING SOLVENT. MAKE CERTAIN THE THROTTLE BODY IS FREE OF ALL CARBON DEPOSITS. WASH OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CARFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS. DO NOT SOAK PARTS SUCH AS 14, 16, 20, 21, 21, 78, 00, DR LIPBER BARTS. MANY, TYPE OF CLEANING 20. 24. 36. 38, 42, 49, 73, 77, 80, OR RUBBER PARTS IN ANY TYPE OF CLEANING

### REASSEMBLY

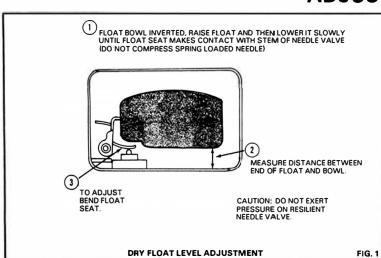
REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND ADJUSTMENTS.

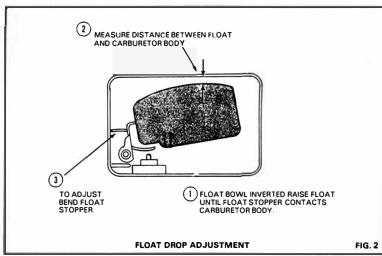
### SPECIAL INSTRUCTIONS

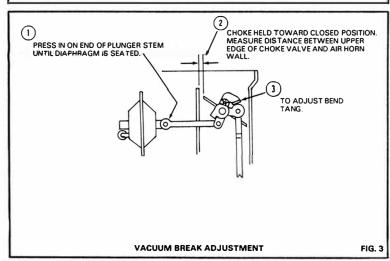
IDLE ADJUSTING NEEDLE-TURN NEEDLE IN UNTIL LIGHTLY SEATED THEN BACK OUT NUMBER OF TURNS RECORDED ON DISASSEMBLY.

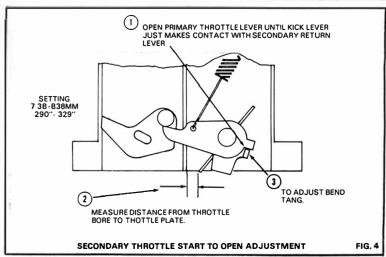
PUMP RETURN SPRING-INSTALL WITH CROSS WIRE TO THE BOTTOM OF PUMP CYLINDER AND IN SLOT.

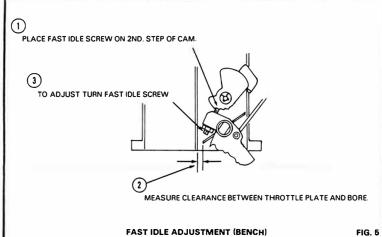
### **ADJUSTMENTS**

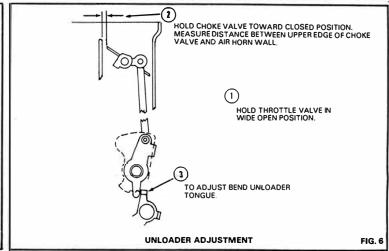












### **ADJUSTMENT DATA TABLE**

FLOAT	FLOAT DROP	VACUUM BREAK	FAST IDLE BENCH	UNLOADER ADJUSTING
	i			
7.5MM	2.3-2.7MM	2.45-3.05MM	.7185MM	2.05-2.85MM
.295"	093"-109"	.096"-120"	.028"033"	081"- 112"
7.5MM	2.3-2.7MM	2.45-3.05MM	.87-1.01MM	2.05-2.85MM
295"	.093"-109"	096"-120"	.034"039"	.081"112"
7.5MM	2.3-2.7MM	3.10-3.70MM	71-85MM	2.05-2.85MM
295"	.093"-109"	122"-145"	.028"033"	.081"- 112"
7 5MM	2.3-2.7MM	3.10-3.70MM	.87-1.01MM	2.05-2.85MM
295"	.093"-109"	122"145"	034"- 039"	.081"112"
75MM	2.3-2.7MM	2.32-2.92MM	.7185MM	2.05-2.85MM
295"	.093"-109"	091"115"	.028"033"	.081"112"
7.5MM	2.3-2.7MM	2.45-3.05MM	.7185MM	2.05-2.85MM
295"	093"-109"	.096"- 120"	.028"033"	081"- 112"
)	7.5MM .295" 7.5MM .295" 7.5MM .295" 7.5MM .295" 7.5MM .295" 7.5MM	1.5 LEVEL DROP  7.5MM 2.3-2.7MM 2.95" 0.93"-109" 7.5MM 2.3-2.7MM 2.95" 0.93"-109" 7.5MM 2.3-2.7MM 2.3-2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	LEVEL   DROP   BREAK	LEVEL   DROP   BREAK   BENCH

APPLICATION		FLOAT LEVEL	FLOAT DROP	VACUUM BREAK	FASTIDLE BENCH	UNLOADER ADJUSTING
1985 NISSAN Z24	ENG.					
U.S.A.	M/T	7.5MM .295"	2.3-2.7MM .093"-109"	3.40+/30MM .134"+/012"	.78MM .030"	2.45MM .100"
	A/T	7.5MM .295"	2.3-2.7MM .093"-109"	3.40+/30MM .134"+/012"	.94MM .037"	2,45MM .100"
CANADA 2WD	M/T	7.5MM .295"	2.3-2.7MM .093"-109"	2.62+/3DMM .103"+/012"	.78MM .030"	2.45MM .100"
	A/T	7.5MM .295"	2.3-2.7MM .093"-109"	2.62+/30MM .103"+/012"	.94MM .037"	2.45MM .100"
CANADA	4WD & H/D	7.5MM .295"	2.3-2.7MM .093"-109"	2.75+/30MM 108"+/012"	.78MM .030"	2.45MM .100"