



**Engine Assembly 543 Chart**  
**C1S7G-543-AC**

Revision BP

**EN00 E 11290169 002 020110**

**Issue Date: 10 January, 2002**

**ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS  
CLEARANCE LIMITS AND SPECIFICATIONS**

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
980116	AA-A	ALL	INITIAL RELEASE	EN00F10663108056	Y.TANAKA
981026	AB-A	ALL	UPDATED	EN00F10663108085	Y.TANAKA
981202	AB-B	3	CORRECTED TYPOGRAPHICAL ERROR	EN00I10819645029	Y.TANAKA
	AB-B	5	REVISED PISTON CLEARANCE DUE TO ADDITIONAL COATING		
	AB-B	6	ADDED 2ND RING SERVICE PROCEDURE		
	AB-B	10	CORRECTED MODEL NAME		
	AB-B	17	INCREASED MAIN BEARING GRADE NUMBER		
	AB-B	23	CORRECTED MODEL NAME		
	AB-B	24-A	CORRECTED MODEL NAME		
	AB-B	28	ADDED NOTE OF REF DIMENSION		
	AB-B	29-B	REVISED OIL FILL QUANTITIES		
	AB-B	30	ADDED MISSING SHEET		
	AB-B	31	ADDED MISSING SHEET		
	AB-B	32	ADDED MISSING SHEET		
	AB-B		ADDED NOTE OF REF DIMENSION		
	AB-B	33	ADDED MISSING SHEET		
	AB-B	48-A	ADDED NOTE OF REF DIMENSION		
	AB-B	48-B	ADDED NOTE OF REF DIMENSION		
	AB-B	58	ADDED NOTE OF REF DIMENSION		
	AB-B	72-A	ADDED NOTE OF OILING		
	AB-B	72-B	ADDED NOTE OF OILING		
AB-B	77-A	UPDATED OIL COOLER			
AB-B	79	CORRECTED NOTE			
981202	AB-B	83	CORRECTED NOTE	EN00I10819645029	Y.TANAKA
990225	AC-C	3	ADDED FACTORY FILL OIL SPEC	EN00I10819645017	Y.TANAKA
	AC-C	5	ADDED (REF) TO DIMENSION		
	AC-C	12	REVISED NOTE		
	AC-C	21-B	ADDED SELECTION OF CONROD BEARING COLOUR		
	AC-C	22	REVISED NOTE		
	AC-C	26	REVISED FASTENING PROCEDURE		
	AC-C	27	CHANGED DOWEL INSERTION HEIGHT		
	AC-C	30-A	UPDATED FASTENER AND REVISED FATENEING PROCEDURE		
	AC-C	30-B	UPDATED FASTENER AND REVISED FATENEING PROCEDURE		
	AC-C	34	ADDED COMBINATION CHART OF I.D. TAB		
	AC-C	36	ADDED NOTICE OF AVDEL PLUG INSERTION		
	AC-C	37	DELETED NOTE		
	AC-C	38	ADDED (REF) TO DIMENSION		
	AC-C	42	REVISED CYL.HEAD BOLD FASTENING PROCEDURE		
	AC-C	44	REVISED NOTE OF CAM CAP BOLT FASTENING PROCEDUR		
	AC-C	45	REVISED CAM CAP BOLT FASTENING PROCEDURE		
	AC-C	50	ADDED PARTS NUMBER OF ENGINE MOUNT STUD		
	AC-C	52-A	DELETED NOTE AND REVISED FASTENING PROCEDURE		
	AC-C	52-B	REVISED FASTENING PROCEDURE		
AC-C	54	ADDED MZADA PARTS NUMBER			
AC-C	55	ADDED NOTE OF TIMING PIN			
AC-C	56	ADDED NOTE OF TIMING PIN			
990225	AC-C	57	ADDED MZADA PARTS NUMBER	EN00I10819645017	Y.TANAKA
RESTRICTIONS			PART NAME/TITLE REVISION		
SPECIFICATION NO. C1S7G-543-AC	REV D	RELEASE NO. EN00E10967761000	DATE 99-04-28	MODEL 2001 2.0L-4V NON DI CD132	SHEET 1 CONTD. 1A

## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
990225	AC-C	58	REVISED NOTE	EN00110819645017	Y.TANAKA
	AC-C	60-A	ADDED STUD END FASTENER AND REVISED FASTENING PROCEDURE		
	AC-C	60-B	ADDED STUD END FASTENER AND REVISED FASTENING PROCEDURE		
	AC-C	61-A	ADDED MAZDA PARTS NUMBER		
	AC-C	61-B	ADDED MAZDA PARTS NUMBER		
	AC-C	62-B	ADDED MAZDA PARTS NUMBER		
	AC-C	63	CHANGED ASSEMBLY ORDER		
	AC-C	64-A	ADDED MAZDA PARTS NUMBER AND ASSEMBLY ANGLE		
	AC-C	64-B	ADDED MAZDA PARTS NUMBER AND NOTE TO ANGLE		
	AC-C	66-A	CHANGED ASSEMBLY ORDER		
	AC-C	66-B	ADDED SHEET OF EGR BLANKING PLATE ASSEMBLE PROCEDURE		
	AC-C	69-A	REMOVED WATER TEMP SENDER AND ADDED MAZDA PARTS NUMBER		
	AC-C	69-B	REMOVED ENG.COOLING TEMP SENDER AND ADDED MAZDA PARTS NO.		
	AC-C	71-A	ADDED NOTE OF HOSE CLAMP TAB		
	AC-C	71-B	ADDED NOTE OF HOSE CLAMP TAB		
	AC-C	72	CHANGED ASSEMBLY ORDER AND DELETED NOTE		
	AC-C	73-A	ADDED NOTE AND UPDATED PILSE DAMPER LOCATION		
	AC-C	73-B	ADDED NOTE AND UPDATED PILSE DAMPER LOCATION		
	AC-C	74-B	REVISED FASTENER NUMBER		
	AC-C	75	REVISED M8 FASTENER TORQUE		
	AC-C	76-A	CHANGED ASSEMBLY ORDER AND ADDED NOTE		
	AC-C	76-B	CHANGED ASSEMBLY ORDER AND ADDED HOSE CLAMP		
	AC-C	77-A	CHANGED ASSEMBLE PARTS		
	AC-C	77-B	CHANGED ASSEMBLE PARTS AND LOCATION		
	AC-C	78-A	ADDED NOTE		
	AC-C	82-A	CHANGED ASEMBLE PARTES SHAPE		
	AC-C	82-B	CHANGED ASSEMBLE PARTS SHAPE		
	AC-C	84-A	ADDED MAZDA PARTS NUMBER		
	AC-C	84-B	ADDED MAZDA PARTS NUMBER		
	AC-C	83	REVISED NOTE		
	AC-C	85	ADDED MAZDA PARTS NUMBER		
990225	AC-C	88	ADDED SHEET OF IDLER ASSEMBLY PROCEDURE	EN00110819645017	Y.TANAKA
990428	D	2	ADDED ADAPTATION MATRIX	EN00E10967761000	R.OKITA
	D	7	ADDED NOTE		I.HIROSE
	D	9	REVISED PARTS NO. AND FRONT INDICATE MARK		
	D	10	REVISED FRONT INDICATE MARK OF PISTON		
	D	11-D	ADDED SHEET FOR I5		I.HIROSE
	D	14	CHANGED PIPE ASSEMBLE ANGLE AND SEALANT PART NO.		R.OKITA
	D	15-A	ADDED NOET		I.HIROSE
	D	15-D	ADDED SHEET FOR I5		
	D	16	ADDED NOET		
	D	17	CHANGED TOTAL CLEARANCE RANGE		
	D	18	CHANGED MAIN BEARING COLOUR CODING		
	D	19	ADDED NOTE FOR I5 AND DIMENSION CHANGED		
	D	20	REVICED ASSEMBLY PROCEDURE		
	D	21-A	ADDED NOTE		
990428	D	21-B	ADDED NOTE	EN00E10967761000	I.HIROSE
RESTRICTIONS			PART NAME/TITLE REVISION		
SPECIFICATION NO. C1S7G-543-AC	REV D	RELEASE NO. EN00E10967761000	DATE 99-04-28	MODEL 2001 2.0L-4V NON DI CD132	SHEET 1A CONTD. 1B

CONFIDENTIAL



## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
990428	D	22	ADDED NOTE FOR I5 AND CHANGED DIMENSION	EN00E10967761000	I.HIROSE
	D	23-D	ADDED SHEET FOR I5		
	D	24	UPDATED DRAWING		
	D	25-A	UPDATED DRAWING		
	D	25-B	REMOVED BAFFLE-CRANKSHAFT WINDAGE OIL		I.HIROSE
	D	26	REVISED NOTE AND ADDED FIGURE		R.OKITA
	D	28	REVISED DRAWING		I.HIROSE
	D	29	REVISED RTV MATERIAL		R.OKITA
	D	29-D	ADDED SHEET FOR I5		
	D	30-D	ADDED SHEET FOR I5		
	D	31-D	ADDED SHEET FOR I5		R.OKITA
	D	32-D	ADDED SHEET FOR I5		I.HIROSE
	D	33	REVISED RTV MATERIAL		R.OKITA
	D	35	ADDED NOTE FOR I5		N.TANAKA
	D	37	ADDED NOTE FOR I5		
	D	38	ADDED NOTE FOR I5		
	D	39	ADDED NOTE FOR I5		
	D	40	ADDED NOTE FOR DI AND I5		
	D	41	ADDED NOTE FOR I5		
	D	42	REVISED NOTE FOR SINGLE WRENCH METHOD		
	D	42-D	ADDED SHEET FOR I5		
	D	43	ADDED NOTE FOR I5		
	D	44	ADDED NOTE FOR I5		
	D	44-C	ADDED SHEET FOR DI		
	D	45	ADDED NOTE FOR DI		
	D	45-D	ADDED SHEET FOR I5		N.TANAKA
	D	49-A	REVISED RTV MATERIAL		R.OKITA
	D	49-B	REVISED RTV MATERIAL		
	D	51	ADDED DRAWING FOR DI		
	D	52-A	REVISED DRAWING		
	D	53-B	REVISED DRAWING		R.OKITA
	D	54	ADDED NOTE		T.KADOWAKI
	D	56-C	ADDED SHEET FOR DI		
	D	58	ADDED NOTE		
	D	58-C	ADDED SHEET FOR DI		T.KADOWAKI
	D	59	REVISED NOTE		R.OKITA
	D	60	REVISED RTV MATERIAL		
	D	61-C	ADDED SHEET FOR DI		
	D	61-D	ADDED SHEET FOR I5		R.OKITA
	D	62-C	ADDED SHEET FOR DI		T.KADOWAKI
	D	64	ADDED MATRIX CHART		T.TANAKA
	D	65-A	CHANGED ASSEMBLE ANGLE		T.KADOWAKI
	D	65-B	CHANGED ASSEMBLE ANGLE		
	D	65-C	ADDED SHEET FOR DI		T.KADOWAKI
	D	66-D	ADDED SHEET FOR I5		N.TANAKA
	D	69-C	ADDED SHEET FOR DI		R.OKITA
990428	D	70-C	ADDED SHEET FOR DI	EN00E10967761000	T.KADOWAKI

RESTRICTIONS				PART NAME/TITLE REVISION			
SPECIFICATION NO. C1S7G-543-AC	REV D	RELEASE NO. EN00E10967761000	DATE 99-04-28	MODEL CD132	SHEET 1B	CONTD. 1C	

CONFIDENTIAL

/ **mazda**

## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
990428	D	71-C	ADDED SHEET FOR DI	EN00E10967761000	R.OKITA
	D	72-C	ADDED SHEET FOR DI		T.TANAKA
	D	73-A	CHANGED ECT LOCATION		T.KADOWAKI
	D	73-C	ADDED SHEET FOR DI		T.KADOWAKI
	D	76-A	REVISED NOTE		R.OKITA
	D	76-B	REVISED NOTE		
	D	76-C	ADDED SHEET FOR DI		
	D	76-D	ADDED SHEET FOR I5		R.OKITA
	D	78-A	ADDED MATRIX FOR DISCRIMINATION AND REVISED NOTE		T.KADOWAKI
	D	78-B	REVISED NOTE		
	D	78-C	ADDED SHEET FOR DI		
	D	79-C	ADDED SHEET FOR DI		
	D	80-C	ADDED SHEET FOR DI		T.KADOWAKI
	D	81-C	ADDED SHEET FOR DI		T.TANAKA
	D	82-C	ADDED SHEET FOR DI		T.KADOWAKI
	D	83-C	ADDED SHEET FOR DI		T.TANAKA
	D	84-C	ADDED SHEET FOR DI		
	D	85-C	ADDED SHEET FOR DI		
	D	85-D	ADDED SHEET FOR I5		
	D	86-D	ADDED SHEET FOR I5		
	D	87-B	ADDED TIGHETNING ORDER		
	D	87-C	ADDED SHEET FOR DI		
	D	87-D	ADDED SHEET FOR I5		
	D	88-A	REVISED NOTE		
	D	88-C	ADDED SHEET FOR DI		
	D	88-D	ADDED SHEET FOR I5		T.TANAKA
	D	89-B	ADDED NOTE		T.TANAKA
	D	89-D	ADDED SHEET FOR I5		T.KADOWAKI
	D	90-C	ADDED SHEET FOR DI		
	D	91-C	ADDED SHEET FOR DI		
	D	92-B	REVISED DRAWING		
	D	92-C	ADDED SHEET FOR DI		T.KADOWAKI
	D	93-A	DRAWING UPDATE		I.HIROSE
	D	93-B	DRAWING UPDATE		
	D	94	CHANGED FASTENER		I.HIROSE
	D	95-A	ADDED NOTE		T.TANAKA
	D	95-B	ADDED NOTE		
	D	95-D	ADDED SHEET FOR I5		
	D	96-B	ADDED SHEET FOR RANGER I4		
	D	96-D	ADDED SHEET FOR I5		T.TANAKA
D	97-A	REVISED MODEL DESCRIPTION AND NOTE	R.OKITA		
D	99	ADDED NOTE	T.KADOWAKI		
D	100-C	ADDED SHEET FOR DI			
D	101-C	ADDED SHEET FOR DI			
D	102-C	ADDED SHEET FOR DI	T.KADOWAKI		
D	103-C	ADDED SHEET FOR DI	R.OKITA		
D	107-B	REVISED NOTE			
990428	D	OTHER	REVISED SHEET NO.	EN00E10967761000	R.OKITA
RESTRICTIONS			PART NAME/TITLE REVISION		
SPECIFICATION NO. C1S7G-543-AC	REV D	RELEASE NO. 0	DATE 99-04-28	MODEL 2001 2.0L-4V NON DI CD132	SHEET 1C CONTD. 2

## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN		
990630	E	42	REVISED TIGHTENING PROCEDURE	EN00E10986253000	Y.TANAKA		
		44	ADDED CAMSHAFT THRUST CLEARANCE				
		44-C	ADDED CAMSHAFT THRUST CLEARANCE				
		47	CHANGED FASTENER				
990630	E	48	CHANGED TIGHTENING TORQUE	EN00E10986253000	Y.TANAKA		
990806	F	27	ADDED DOWEL ATTACHING INSTRUCTION	EN00E10994808000	I.HIROSE		
		32	ADDED DOWEL ATTACHING INSTRUCTION				
990806	F	75	REVISED TIGHTENING TORQUE	EN00E10994808000	I.HIROSE		
990901	G	23-A	ADDED THE NUMBER OF REUSE OF BEARING CAP BOLT	EN00E10998905000	I.HIROSE		
		23-D	ADDED THE NUMBER OF REUSE OF BEARING CAP BOLT				
		30-E	ADDED SHEET				
990901	G	30-D	CHANGED SHEET NUMBER	EN00E10998905000	I.HIROSE		
990906	H	4-A	ADDED NOTE FOR ELECTRIACL CONNECTIONS	EN00E11007392000	T.KADOWAKI		
		6	REVISED NOTE		I.HIROSE		
		7	REVISED NOTE				
		8	REVISED NOTE				
		9	REVISED NOTE				
		10	ADDED NOTE FOR CYL.BORE LUBRICATING				
		11	REVISED TIGHTENING TORQUE DESCRIPTION				
		12	REVISED TIGHTENING TORQUE DESCRIPTION			I.HIROSE	
		14	REVISED NOTE			R.OKITA	
		14-D	ADDED SHEET FOR I5			R.OKITA	
		15-A	ADDED NOTE FOR BEARING LUBRICATING			I.HIROSE	
		15-D	ADDED NOTE FOR BEARING LUBRICATING				
		16	REVISED NOTE				
		17	REVISED NOTE				
		18	REVISED BEARING COLOR				
		19	ADDED NOTE				
		20	REVISED NOTE				
		21-A	REVISED NOTE				
		21-B	REVISED NOTE				
		22	REVISED NOTE				
		23-A	REVISED NOTE				
		23-D	REVISED NOTE				
		24	REVISED TIGHTENING TORQUE DESCRIPTION				
		25-A	REVISED TIGHTENING TORQUE DESCRIPTION				
		25-B	REVISED TIGHTENING TORQUE DESCRIPTION				
		25-E	ADDED SHEET FOR BALANCE SHAFT				
		25-F	ADDED SHEET FOR BALANCE SHAFT				
		25-G	ADDED SHEET FOR BALANCE SHAFT				
		25-H	ADDED SHEET FOR BALANCE SHAFT				I.HIROSE
		26	REVISED NOTE				R.OKITA
		28	ADDED TORQUE STEPS				I.HIROSE
29	REVISED NOTE AND ADDED RTV MATERIAL			R.OKITA			
29-D	REVISED NOTE AND ADDED RTV MATERIAL						
30-A	REVISED NOTE						
30-B	REVISED NOTE						
30-D	REVISED NOTE						
990906	H	31	DELETED SERVICE INFORMATION	EN00E11007392000	R.OLITA		
RESTRICTIONS			PART NAME/TITLE REVISION				
SPECIFICATION NO. C1S7G-543-AC	REV H	RELEASE NO. EN00E117392000	DATE 99-09-06	MODEL 2001 2.0L-4V NON DI CD132	SHEET 1D CONTD. 1E		

## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
990906	H	31-D	DELETED SERVICE INFORMATION	EN00E11007392000	R.OKITA
		33	REVISED NOTE AND ADDED RTV MATERIAL		R.OKITA
		35	REVISED TIGHTENING TORQUE DESCRIPTION		N.TANAKA
		37	REVISED TIGHTENING TORQUE DESCRIPTION		
		38	REVISED TIGHTENING TORQUE DESCRIPTION AND REVISED NOTE		
		39	REVISED TIGHTENING TORQUE DESCRIPTION		
		40	REVISED TIGHTENING TORQUE DESCRIPTION		
		44	REVISED NOTE		
		44-C	REVISED NOTE		
		45	REVISED TIGHTENING TORQUE DESCRIPTION		
		45-D	REVISED TIGHTENING TORQUE DESCRIPTION		
		46	REVISED TIGHTENING TORQUE DESCRIPTION		
		47	COORECT PARTS NUMBER		
		48	REVISED TIGHTENING TORQUE DESCRIPTION		N.TANAKA
		49-A	REVISED NOTE, ADDED RTV MATERIAL AND CORRECT DIMENSION		R.OKITA
		49-B	REVISED NOTE, ADDED RTV MATERIAL AND CORRECT DIMENSION		
		49-E	ADDS SHEET FOE 2.3L E/W		
		50	REVISED TIGHTENING TORQUE DESCRIPTION		
		51	REVISED NOTE		
		52-A	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		
		52-B	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		
		52-E	MOVED FROM 107-A AND ADDED NOTE		
		53-A	DELETED SERVICE INFORMATION		
		53-B	DELETED SERVICE INFORMATION		R.OKITA
		54	ADDED NOTE AND REVISED TIGHTENING TORQUE DESCRIPTION		T.KADOWAKI
		55	ADDED NOTE AND REVISED TIGHTENING TORQUE DESCRIPTION		I.HIROSE
		56-C	ADDED NOTE AND REVISED TIGHTENING TORQUE DESCRIPTION		T.KADOWAKI
		57	REVISED NOTE		I.HIROSE
		58	CHANGED TIGHTENING TORQUE		T.KADOWAKI
		58-C	CHANGED TIGHTENING TORQUE		
		58-D	ADDED SHEET FOR I5		T.KADOWAKI
		59	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		R.OKITA
		60	REVISED NOTE AND ADDED RTV MATERIAL		
		61-A	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		
		61-B	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		
		61-C	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		
		61-D	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		R.OKITA
		62-A	CHANGED PARTS NUMBER ABD ADDED MATRIX		T.KADOWAKI
		62-B	COMBINED TO 62-A		
		62-C	REVISED TIGHTENING TORQUE DESCRIPTION		
		63-B	CHANGED TIGHTENING TORQUE TORELANCE		
		63-D	ADDED SHEET FOR I5		T.KADOWAKI
		64	REVISED TIGHTENING TORQUE DESCRIPTION		T.TANAKA
		65-A	CHANGED TIGHTENING TORQUE TORELANCE		T.KADOWAKI
		65-B	CHANGED TIGHTENING TORQUE TORELANCE		
		65-C	CHANGED TIGHTENING TORQUE TORELANCE		T.KADOWAKI
		66-A	CHANGED TIGHTENING TORQUE TORELANCE		N.TANAKA
		66-B	CHANGED TIGHTENING TORQUE TORELANCE		
990906	H	66-D	CHANGED TIGHTENING TORQUE TORELANCE	EN00E11007392000	N.TANAKA
RESTRICTIONS			PART NAME/TITLE REVISION		
SPECIFICATION NO. C1S7G-543-AC	REV H	RELEASE NO. 0	DATE 99-09-06	MODEL 2001 2.0L-4V NON DI CD132	SHEET 1E CONTD. 1F

## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
990906	H	67-A	ADDED DRAWING AND CHANGED TIGHTENING TORQUE TORELANCE	EN00E11007392000	T.KADOWAKI
		67-B	ADDED DRAWING AND CHANGED TIGHTENING TORQUE TORELANCE		
		67-D	ADDED SHEET FOR N/S EGR VALVE		T.KADOWAKI
		68	ADDED NOTE AND CHANGED TIGHTENING TORQUE TORELANCE		R.OKITA
		69-C	REVISED NOTE AND ADDED RTV MATERIAL		
		71-A	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		
		71-B	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		
		71-C	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		R.OKITA
		72-C	REVISED TIGHTENING TORQUE DESCRIPTION		T.KADOWAKI
		73-A	REVISED TIGHTENING TORQUE DESCRIPTION		
		73-B	REVISED TIGHTENING TORQUE DESCRIPTION		
		73-C	REVISED TIGHTENING TORQUE DESCRIPTION		
		73-D	REVISED TIGHTENING TORQUE DESCRIPTION		
		74-D	REVISED TIGHTENING TORQUE DESCRIPTION		T.KADOWAKI
		75	REVISED TIGHTENING TORQUE DESCRIPTION		I.HIROSE
		76-A	ADDED NOTE AND REVISED TIGHTENING TORQUE DESCRIPTION		R.OKITA
		76-B	ADDED NOTE AND REVISED TIGHTENING TORQUE DESCRIPTION		
		76-C	ADDED NOTE AND REVISED TIGHTENING TORQUE DESCRIPTION		
		76-D	ADDED NOTE AND REVISED TIGHTENING TORQUE DESCRIPTION		R.OKITA
		77	REVISED TIGHTENING TORQUE DESCRIPTION		T.TANAKA
		78-A	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		T.GOTO
		78-B	REVISED NOTE AND TIGHTENING TORQUE DESCRIPTION		T.GOTO
		85-A	REVISED TIGHTENING TORQUE DESCRIPTION		T.TANAKA
		85-B	REVISED TIGHTENING TORQUE DESCRIPTION		
		87-B	ADDED NOTE AND REVISED TIGHTENING TORQUE DESCRIPTION		
		88-A	UPDATED DRAWING		T.TANAKA
		89-A	ADDED DRAWING AND CHANGED TIGHTENING TORQUE TORELANCE		T.KADOWAKI
		89-B	ADDED DRAWING AND CHANGED TIGHTENING TORQUE TORELANCE		
		89-D	ADDED DRAWING AND CHANGED TIGHTENING TORQUE TORELANCE		
		89-F	ADDED SHEET FOR SOLENOID VALVA ASSEMBLING		
		89-G	ADDED SHEET FOR SOLENOID VALVA ASSEMBLING		
		90-A	ADDED SHEET FOR E/W ABSOLUTE PRESS SENSOR		
		90-B	ADDED SHEET FOR N/S ABSOLUTE PRESS SENSOR		
		90-C	REVISED TIGHTENING TORQUE DESCRIPTION		
		91-A	ADDED FASTENING SEQUENCE AND MATRIX		
		91-B	ADDED FASTENING SEQUENCE		
		91-C	ADDED FASTENING SEQUENCE		
		92-A	ADDED NOTE		
		92-B	ADDED NOTE		T.KADOWAKI
		93-A	REVISED TIGHTENING TORQUE DESCRIPTION		I.HOROSE
		93-B	REVISED TIGHTENING TORQUE DESCRIPTION		
		94	REVISED TIGHTENING TORQUE DESCRIPTION		I.HOROSE
		95-A	UPDATED DRAWING		T.TANAKA
		95-B	UPDATED DRAWING		
		96-B	REVISED TIGHTENING TORQUE DESCRIPTION		T.TANAKA
		97-A	ADDED DRAING AND REVISED NOTE		R.OKITA
		98-A	ADDED NOTE		T.KADOWAKI
98-B	ADDED NOTE				
990906	H	99	REVISED NOTE	EN00E11007392000	T.KADOWAKI
RESTRICTIONS			PART NAME/TITLE REVISION		
SPECIFICATION NO. C1S7G-543-AC	REV H	RELEASE NO. 0	DATE 99-09-06	MODEL 2001 2.0L-4V NON DI CD132	SHEET 1F CONTD. 1G



## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
990906	H	103-C	ADDED NOTE	EN00E11007392000	R.OKITA
		104-A	ADDED NOTE		
		104-B	DELETED		R.OKITA
		105	CHANGED TIGHTENING TORQUE		N.TANAKA
		106-A	MOVED TO 52-E		R.OKITA
		107-A	ADDED NOTE		
		107-B	ADDED NOTE		
990906	H	OTHER	SHEET NUMBER CHANGE	EN00E11007392000	R.OKITA
991005	J	107-B	SHEET NUMBER CHANGE	EN01E10877065001	R.OKITA
		108	ADDED SHEET FOR HOSE - EVAP		
991005	J	109	ADDED SHEET FOR VACUUM HARNESS	EN01E10877065001	R.OKITA
991213	K	24	CHANGED TIGHTENING PROCEDURE	EN00E11026968000	T.MITSUHARA
991214	L	93-A	CHANGED BOLT TYPE	EN00E11035651 000	T.MITSUHARA
991214	L	93-B	CHANGED BOLT TYPE	EN00E11035651 000	T.MITSUHARA
000126	M	66-B	CHANGED FRONT LIFTING EYE	EN00E11054241 000	N.TANAKA
000126	M	105	CHANGED OIL GALLERY PLUG	EN00E11054241 000	N.TANAKA
000210	N	2	UPDATED	EN00E11030674 000	R.OKITA
		3	UPDATED		R.OKITA
		7	REVISED INCORRECT DRAWING		S.HASETOH
		14	REVISED ANAEROBIC SEALER MATERIAL		R.OKITA
		20	REVISED INDICATION CONROD CRANK END DIAMETER		S.HASETOH
		25-F	REVISED DRAWING		
		25-G	REVISED DRAWING AND BALANCER ROTATION TORQUE		S.HASETOH
		28-A	ADDED SHEET FOR FLEXPLATE		R.OKITA
		28-B	ADDED SHEET FOR DUAL MASS FLYWHEEL		
		29	REVISED RTV SPECIFICATION		R.OKITA
		30-E	REVISED DRAWING		T.MITSUHARA
		33	REVISED RTV SPECIFICATION		R.OKITA
		35	REVISED ANAEROBIC SEALER MATERIAL		N.TANAKA
		46-E	ADDED SHEET FOR VVT/BALANCE SHAFT OIL PUMP CHAIN		
		47-E	ADDED SHEET FOR VVT ACTUATOR AND SPROCKET		
		48-E	ADDED SHEET FOR VVT TIMING CHAIN AND GUIDE		N.TANAKA
		49-A	REVISED RTV SPECIFICATION		R.OKITA
		49-B	REVISED RTV SPECIFICATION		
		49-E	REVISED RTV SPECIFICATION		R.OKITA
		61-E	ADDED SHEET FOR VVT OCV		N.TANAKA
		61-F	ADDED SHEET FOR VVT OCV		
		61-G	ADDED SHEET FOR VVT OIL PIPE		N.TANAKA
		64	ADDED NOTE		T.TANAKA
		67-B	ADDED NOTE		T.TANAKA
		69-C	REVISED RTV SPECIFICATION		R.OKITA
		85-A	ADDED NOTE		T.TANAKA
		85-B	ADDED NOTE		
		87-E	ADDED SHEET FOR GASHOL AND LEADED ENGINE		
		87-F	ADDED SHEET FOR AUDIO GROUND STRAP		
		88-A	REVISED NOTE		
		88-B	MODIFIED DRAWING		T.TANAKA
		90-A	MODIFIED NOTE		K.KADOWAKI
		000210	N		90-B

RESTRICTIONS

PART NAME/TITLE  
REVISION

SPECIFICATION NO. <b>C1S7G-543-AC</b>	REV <b>N</b>	RELEASE NO. EN00 E 11030674 000	DATE <b>00-02-10</b>	MODEL 2001 2.0L-4V NON DI CD132	SHEET <b>10</b>	CONT. <b>11</b>
--	-----------------	------------------------------------	-------------------------	------------------------------------	--------------------	--------------------



**ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS  
CLEARANCE LIMITS AND SPECIFICATIONS**

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
000210	N	90-C	MODIFIED NOTE	EN00E11030674 000	T.TANAKA
		95-A	REVISED DRAWING		T.TANAKA
		95-B	REVISED DRAWING		T.TANAKA
		107-A	CHANGED FASTENER		R.OKITA
		107-B	CHANGED FASTENER		
		110	ADDED SHEET FOR CLUTCH ASSEMBLY		
000210	N	OTHER	REVISED SHEET NUMBER	EN00E11030674 000	R.OKITA
000331	P	4-A	ADDED NOTE FOR CC, A/AR RANK	EN00E11045491000	R.OKITA
		14	REVISED NOTE FOR SEALANT		R.OKITA
		28	ADDED CC, A RANK MARK		S.HASETO
		30-E	ADDED AR RANK MARK AND NOTE FOR LEGAL CODE		MITSUHARA
		48	ADDED CC, A RANK MARK		N.TANAKA
		48-E	ADDED CC, A RANK MARK		N.TANAKA
		55	ADDED CC, A RANK MARK		S.HASETO
000331	P	59	REVISED NOTE FOR ASSISTANT MATERIAL	EN00E11045491000	R.OKITA
000420	R	9	CHANGED PISTON PIN ASSEMBLE DIMENSION	EN00E11069681001	S.HASETO
		20	CHANGED CONROD BOLT TIGHTENING PROCEDURE		
		22	CHANGED NOTE		
		25-E	CHANGED TO ONE TURLET DESIGN		
		25-F	CHANGED TO ONE TURLET DESIGN		
		25-G	CHANGED TO ONE TURLET DESIGN		
		25-H	CHANGED TO ONE TURLET DESIGN		S.HASETO
		44	CHANGED CAM CAP FASTENER		N.TANAKA
		44-C	CHANGED CAM CAP FASTENER		N.TANAKA
		52-A	CHANGED FASTENER TIGHTENING ORDER FOR SINGLE SPINDLE		R.OKITA
		52-B	CHANGED FASTENER TIGHTENING ORDER FOR SINGLE SPINDLE		R.OKITA
		56-C	ADDED ASSEMBLY PROCEDURE		T.KADOWAKI
		61-C	CHANGED STUD END FASTENER LOCATION		R.OKITA
		62-C	ADDED NOTE		T.KADOWAKI
		65-A	ADDED SIDE VIEW		
		65-B	ADDED SIDE VIEW		
		65-C	ADDED SIDE VIEW		T.KADOWAKI
		69-C	UPDATED DRAWING		R.OKITA
		71-C	UPDATED DRAWING		R.OKITA
		73-C	UPDATED DRAWING		T.KADOWAKI
		74-C	UPDATED DRAWING		T.KADOWAKI
		76-C	UPDATED DRAWING		R.OKITA
		78-A	ADDED CC, A RANK MARK FOR FUEL RAIL TIGHTENING TORQUE		T.GOTO
		78-B	ADDED CC, A RANK MARK FOR FUEL RAIL TIGHTENING TORQUE		T.GOTO
		80-C	ADDED NOTE		T.KADOWAKI
		89-D	REVISED SHEET NUMBER		T.TANAKA
		89-E	ADDED SHEET FOR SOLENOID VALVE FOR VIS INT.MANIFOLD		T.TANAKA
		90-C	UPDATED DRAWING		T.KADOWAKI
		91-A	REVISED PARTS REVISION		
		91-B	REVISED PARTS REVISION		
		91-C	REVISED PARTS REVISION		
		92-C	UPDATED DRAWING		
		98-A	REVISED NOTE		
000420	R	98-B	REVISED NOTE	EN00E11069681001	T.KADOWAKI

RESTRICTIONS

PART NAME/TITLE  
REVISION

SPECIFICATION NO. <b>C1S7G-543-AC</b>	REV <b>R</b>	RELEASE NO. EN00 E 11069681 001	DATE <b>00-04-20</b>	MODEL 2001 2.0L-4V NON DI CD132	SHEET <b>1H</b>	CONTD. <b>1J</b>
--	-----------------	------------------------------------	-------------------------	------------------------------------	--------------------	---------------------



## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
000420	R	100-C	UPDATED DRAWING	EN00E11069681001	T.KADOWAKI
000420	R	103-C	UPDATED DRAWING	EN00E11069681001	R.OKITA
000428	S	99	REVISED SHEET NUMBER	EN00E11081197000	T.KADOWAKI
		99-B	ADDED SHEET FOR MEGA HARNESS		
		100-D	ADDED SHEET FOR MEGA HARNESS		
		100-E	ADDED SHEET FOR MEGA HARNESS		
		100-G	ADDED SHEET FOR MEGA HARNESS		
		100-H	ADDED SHEET FOR MEGA HARNESS		
		100-J	ADDED SHEET FOR MEGA HARNESS		
		100-K	ADDED SHEET FOR MEGA HARNESS		
		100-L	ADDED SHEET FOR MEGA HARNESS		
		100-M	ADDED SHEET FOR MEGA HARNESS		
000428	S	100-N	ADDED SHEET FOR MEGA HARNESS	EN00E11081197000	T.KADOWAKI
000630	T	2	REVISED MATRIX	EN00E11095813000	R.OKITA
		3	REVISED PAGE NUMBER		R.OKITA
		39	REVISED VALVE SPRING DIRECTION AND ADDED NOTE		N.TANAKA
		48-E	ADDED CC, A RANK MARK FOR EXH. CAM PULLEY		N.TANAKA
		59	REVISED NOTE FOR ASSISTANT MATERIAL		R.OKITA
		62-A	CHANGED FASTENING TORQUE FOR SPARK PLUG		T.KADOWAKI
		62-C	REMOVED DUE TO INCORPORATION INTO 62-A		T.KADOWAKI
		64	ADDED MATRIX FOR PCV VALVE CAP COLOR		T.TANAKA
		70-C	REVISED DRAWING TO 1.8L DI CP DESIGN		T.GOTO
		78-C	REVISED DRAWING TO 1.8L DI CP DESIGN		
		79-C	REVISED DRAWING TO 1.8L DI CP DESIGN		
		82-C	REVISED DRAWING TO 1.8L DI CP DESIGN		
		83-C	REVISED SHEET AS REMOVAL PROCEDURE		T.GOTO
		84-C	CHANGED SHEET NUMBER		R.OKITA
		84-D	ADDED AND REVISED SHEET TO 1.8L DI CP DESIGN		T.TANAKA
		87-C	REVISED DRAWING TO 1.8L DI CP DESIGN		
		88-C	REVISED DRAWING TO 1.8L DI CP DESIGN		
		96-B	ADDED FASTENING PROCEDURE FOR SINGLE SPINDLE		T.TANAKA
		110	CHANGED SHEET NUMBER		R.OKITA
000630	T	111	ADDED SHEET FOR ENGINE LABEL ON CAM COVER	EN00E11095813000	R.OKITA
000711	U	2	REVISED MATRIX	EN00E11085584000	R.OKITA
		60	CHANGED SHEET NUMBER		N.TANAKA
		60-C	ADDED SHEET FOR DI CAM CAP RTV		N.TANAKA
		62-A	ADDED SPEC FOR 2.3L E/W		T.KADOWAKI
000711	U	98-B	REVISED NOTE	EN00E11085584000	T.KADOWAKI
000908	V	1-E	REVISED REVISION NOTE OF SHEET 37, 38, 39	EN00E11124480001	R.OKITA
		2	ADDED MATRIX FOR SHEET 12-A		R.OKITA
		8	REVISED NOTE		S.HASETO
		12	CHANGED SHEET NUMBER		T.MITSUHARA
		12-A	ADDED SHEET FOR NON VVT BLOCK (2003MY)		T.MITSUHARA
000908	V	26	ADDED NOTE OF FASTENER TIGHTENING PROCEDURE	EN00E11124480001	N.TANAKA
001001	W	2	DELETED I5 ADAPTATION	EN00E11140144000	R.OKITA
		11-D	DELETED I5 SHEET		
		14-D	ADDED SHEET FOR 2.3L E/W INSTEAD OF I5		R.OKITA
		15-A	CORRECTED PARTS NUMBER		S.HASETO
001001	W	15-D	DELETED I5 SHEET	EN00E11140144000	R.OKITA

RESTRICTIONS

PART NAME/TITLE  
REVISION

SPECIFICATION NO. <b>C1S7G-543-AC</b>	REV <b>W</b>	RELEASE NO. EN00E11140144000	DATE <b>00-10-01</b>	MODEL 2001 2.0L-4V NON DI CD132	SHEET <b>1J</b>	CONTD. <b>1K</b>
--	-----------------	---------------------------------	-------------------------	------------------------------------	--------------------	---------------------

## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
001001	W	17	CORRECTED NOTE FOR BEARING CLEARANCE CALCULATION	EN00E11140144000	S.HASETO
		20	CORRECTED NOTE FOR BEARING CLEARANCE CALCULATION		
		23-A	CORRECTED MAZDA PARTS NUMBER		S.HASETO
		23-D	DELETED I5 SHEET		R.OKITA
		25-E	UPDATED BALANCE SHAFT ASSEMBLY PROCEDURE		S.HASETO
		25-F	UPDATED BALANCE SHAFT ASSEMBLY PROCEDURE		
		25-G	UPDATED BALANCE SHAFT ASSEMBLY PROCEDURE		
		25-H	UPDATED BALANCE SHAFT ASSEMBLY PROCEDURE		S.HASETO
		29-D	DELETED I5 SHEET		R.OKITA
		30-D	DELETED I5 SHEET		
		32-D	DELETED I5 SHEET		R.OKITA
		39	CORRECTED MAZDA PARTS NUMBER		M.NISHIDA
		42-D	DELETED I5 SHEET		R.OKITA
		45-D	DELETED I5 SHEET		
		58-D	DELETED I5 SHEET		
		61-D	DELETED I5 SHEET		
		63-D	DELETED I5 SHEET		
		66-D	DELETED I5 SHEET		
		71-C	DRAWING UPDATE FOR DI DEGAS PIPE SHAPE CHANGE		R.OKITA
		72-C	DRAWING UPDATE FOR DI EGR VALVE STUD		T.TANAKA
		76-C	DRAWING UPDATE FOR DI DEGAS PIPE SHAPE CHANGE		R.OKITA
		76-D	ADDED SHEET FOR 2.3L E/W INSTEAD OF I5		
		81-C	DELETED DUPLICATE SHEET		
		85-D	DELETED I5 SHEET		
		86-D	DELETED I5 SHEET		
		87-D	DELETED I5 SHEET		
		88-D	DELETED I5 SHEET		
		89-D	DELETED I5 SHEET		
		89-G	DELETED I5 SHEET		R.OKITA
		93-B	CORRECTED MAZDA PARTS NUMBER		S.HASETO
		95-D	DELETED I5 SHEET		R.OKITA
		96-B	ADDED COMMENT FOR EXH.MANI GASKET		T.TANAKA
		96-D	DELETED I5 SHEET		R.OKITA
		101-C	DELETED DUPLICATE SHEET		
		102-C	DELETED DUPLICATE SHEET		
001001	W	103-C	DRAWING UPDATE FOR DI DEGAS PIPE SHAPE CHANGE	EN00E11140144000	R.OKITA
001013	X	1K	CORRECTED SHT. NO. ON REV."W" FROM 15-E/F/G/H TO 25-E/F/G/H	EN00E11099311000	T.TANAKA
		2	MODIFIED ADAPTATION MATRIX		
		4	ADDED NOTE FOR ASSISTANT MATERIAL		
		28-C	ADDED SHEET FOR RANGER PILOT BEARING INSTALLATION		T.TANAKA
		76-A	MODIFIED NOTE FOR ASSISTANT MATERIAL SPECIFICATION		R.OKITA
		76-B	MODIFIED NOTE FOR ASSISTANT MATERIAL SPECIFICATION		
		76-C	MODIFIED NOTE FOR ASSISTANT MATERIAL SPECIFICATION		
		76-D	MODIFIED NOTE FOR ASSISTANT MATERIAL SPECIFICATION		R.OKITA
		88-A	MODIFIED NOTE FOR ASSISTANT MATERIAL SPECIFICATION		T.TANAKA
		88-B	MODIFIED NOTE FOR ASSISTANT MATERIAL SPECIFICATION		
		88-C	MODIFIED NOTE FOR ASSISTANT MATERIAL SPECIFICATION		
		95-A	MODIFIED NOTE FOR ASSISTANT MATERIAL SPECIFICATION		T.TANAKA
001013	X	95-B	MODIFIED NOTE FOR ASSISTANT MATERIAL SPECIFICATION	EN00E11099311000	N.TANAKA
RESTRICTIONS			PART NAME/TITLE REVISION		
SPECIFICATION NO. C1S7G-543-AC	REV X	RELEASE NO. EN00E11099311000	DATE 00-10-13	MODEL 2001 2.0L-4V NON DI CD132	SHEET 1K CONTD. 1L

CONFIDENTIAL



## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
001013	X	Other	CHANGED SHEET NUMBER	EN00E11099311000	N.TANAKA
001103	Y	22	ADDED NOTE FOR PREVENTION OF HAMMERED MARKS/FLAWS ON BS GEAR	EN00E11145063001	S.HASETO
		23-A	ADDED NOTE FOR PREVENTION OF HAMMERED MARKS/FLAWS ON BS GEAR		
		25-E	ADDED NOTE FOR PREVENTION OF HAMMERED MARKS/FLAWS ON BS GEAR		
		25-F	ADDED NOTE FOR PREVENTION OF HAMMERED MARKS/FLAWS ON BS GEAR		
		25-G	ADDED NOTE FOR PREVENTION OF HAMMERED MARKS/FLAWS ON BS GEAR		
001103	Y	25-H	ADDED NOTE FOR PREVENTION OF HAMMERED MARKS/FLAWS ON BS GEAR	EN00E11145063001	S.HASETO
001108	Z	44-C	CHANGE THE SEALER MATERIAL AND THE APPLICATION PASS FOR DI REAR CAM CAP	EN00E11072453000	N.TANAKA
001117	AA	2	REVISED ADAPTATION MATRIX FOR ADDITIONAL SHEET	EN00E11087761000	N.TANAKA
		3	REVISED INDEX FOR ADDITIONAL SHEET		N.TANAKA
		5	REMOVED REF DIMENSION OF BARCODE LOCATION		MITSUHARA
		14	REMOVED "REF" FROM W. BYPATSS PIPE ASSEMBLE ANGLE		Y.HAYAMIZU
		16	REMOVED "REF" FROM BEARING BEAM ALIGNMENT DIMENSION AND REVISED "REF" TO "INFORMATION ONLY" REGARDING CRANKSHAFT AXIAL		MITSUHARA
		23A	REMOVED "REF" FROM BEARING BEAM ALIGNMENT DIMENSION AND REVISED NOTE		MITSUHARA
		30-D	ADDED SHEET FOR OIL PAN ASSEMBLY WITH BALANCE SHAFT		N.TANAKA
		44	CHANGED "REF" TO "INFORMATION ONLY" REGARDING CAM SHAFT THRUST CLEARANCE AND REMOVED I5 DESCRIPTION		
		44-C	CHANGED "REF" TO "INFORMATION ONLY" REGARDING CAM SHAFT THRUST CLEARANCE		
		44-D	ADDED SHEET FOR CAM CAP ASSEMBLE PROCEDURE OF DUAL VVT HEAD		
		44-E	ADDED SHEET FOR CAM CAP ASSEMBLE PROCEDURE OF DUAL VVT HEAD		
		44-F	ADDED SHEET FOR CAM CAP ASSEMBLE PROCEDURE OF DI DUAL VVT HEAD		
		50	CHANGED SHEET NUMBER		
			ADDED SHEET FOR RTV APPLYING PROCEDURE OF DUAL VVT FRONT COVER HALF MOON SEAL		N.TANAKA
		50-A	REMOVED "REF" FROM TIMING PIN TOOL DIMENSION AND REVISED "REF" TO "INFORMATION ONLY" REGARDING PISTON TOPPING		S.HASETO
		57	TO "INFORMATION ONLY" REGARDING PISTON TOPPING		
		60	CHANGED SHEET NUMBER		N.TANAKA
		60-A	ADDED SHEET OF RTV APPLYING PROCEDURE FOR DUAL VVT		
		61-D	ADDED SHEET FOR INT.VVT CAM COVER AEEMBLE PROCEDURE		N.TANAKA
		61-G	CHANGED SHEET NUMBER		M.NISHIDA
		61-J	ADDED SHEET FOR DUAL VVT CAM COVER AEEMBLE PROCEDURE		N.TANAKA
		70-C	REVISED NOTE		T.GOTO
		79-C	REVISED NOTE		T.GOTO
		89-G	ADDED SHEET FOR DI SOLENOID VALVE ASSEMBLE PROCEDURE		T.KADOWAKI
		90-C	CHANGED SHEET NUMBER		T.KADOWAKI
		90-D	ADDED SHEET FOR INT.MANI BLIND PLUG ASSY PROCEDURE OF S.A. RANGE		N.TANAKA
		91-A	REVISED NOTE		T.KADOWAKI
001117	AA	95-D	ADDED SHEET FOR 2.3L E/W VACUME HOSE ASSEMBLE PROCEDURE	EN00E11087761000	T.TANAKA
001204	AB	2	REVISED ADAPTATION MATRIX FOR ADDITIONAL SHEET	EN00E11136863000	S.HASETO
		16	REVISED NOTE FOR POSITIONING MAIN BEARING		
		23-A	REVISED SHEET NUMBER		
		23-B	ADDED SHEET FOR POSITIONING MAIN BEARING UPPER		
001204	AB	23-C	ADDED SHEET FOR POSITIONING MAIN BEARING LOWER	EN00E11136863000	S.HASETO
001222	AC	93-A	REVISED FILTER CAP TIGHTENING TORQUE	EN00E11174039000	S.HASETO
010129	AD	78-C	REVISED SHEET NUMBER	EN00E11177532000	T.GOTO
		78-D	ADDED SHEET FOR FUEL RAIL ASSYEMBLY		
		78-E	ADDED SHEET FOR FUEL RAIL ASSYEMBLY		
		95-D	REVISED SHEET NUMBER		
		95-E	ADDED SHEET FOR HOSES-VACUUM		
010129	AD	95-F	ADDED SHEET FOR HOSES-VACUUM	EN00E11177532000	T.GOTO
RESTRICTIONS			PART NAME/TITLE REVISION		
SPECIFICATION NO. C1S7G-543-AC	REV AE	RELEASE NO. EN00E11157486001	DATE 01-01-31	MODEL 2001 2.0L-4V NON DI CD132	SHEET 1L CONTD. 1M

CONFIDENTIAL



## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN	
010131	AE	16	REVISE CLEARANCE VALUE	EN00E11157486001	M.SATOH	
		17	REVISE CLEARANCE EQUATION			
		20	REVISE CLEARANCE EQUATION			
010131	AE	57	ADD DIMENSION OF TIMING PIN TOOL	EN00E11157486001	M.SATOH	
010209	AF	107-B	CHANGE ASSEMBLY POSITIONAL TOLERANCE OF FAN PULLEY	EN00E11151946000	Y.HAYAMIZU	
010228	AG	70-C	CHANGED THE LOW PRESSURE PIPE LOCATION AND LENGTH	EN00E11134807003	T.GOTO	
010228	AG	79-C	CHANGED THE FUEL HOSE ROUTING AND THE SHAPE OF FUEL HOSE CLIP	EN00E11134807003	T.GOTO	
010328	AH	044-F	CHANGED SHEET NUMBER	EN00E11190272000	M.YAMAYA	
		044-G	ADDED SHEET FOR SINGLE VVT ENG VAR TM SOL		N.NISHIDA	
		044-H	ADDED SHEET FOR DUAL VVT SOL-ENG VER TM SOL			
		046-E	DELETED SHEET FOR VVT/BALANCE SHAFT OIL PUMP CHAIN			
		047-E	CHANGED ASSEMBLY PROCEDURE			
		047-F	ADDED SHEET FOR DUAL VVT ACTUATOR			
		048-E	CORRECTED MAZDA PART NUMBER			
		048-F	ADDED SHEET FOR DUAL VVT TIMING CHAIN AND GUIDE		M.NISHIDA	
		058-D	CHANGED SHEET NUMBER		R.OKITA	
		058-E	ADDED SHEET FOR CAMSHAFT POSITION SENSOR		N.TABATA	
		061-E	DELETED SHEET FOR VVT OCV		M.NISHIDA	
		061-F	DELETED SHEET FOR VVT OCV			
		061-G	DELETED SHEET FOR VVT OIL PIPE		M.NISHIDA	
		062-A	ADDED SPEC FOR PZEV		N.TABATA	
		073-D	DELETED I5 SHEET			
		073-E	ADDED SHEET FOR IGNITION COIL			
		081-C	ADDED SHEET FOR ENGINE WIRE HARNESS ASSEMBLY PROCEDURE			
		091-A	ADDED SPEC FOR 2.3L EW			
		091-B	ADDED SPEC FOR 2.3L NS			
		092-C	CHANGED SHEET NUMBER			
		092-D	ADDED SHEET FOR KNOCK SENSOR ASSEMBLY PROCEDURE		N.TABATA	
		093-A	CHANGED MODEL NAME		Y.YAMAMOTO	
010328	AH	101-C	ADDED SHEET FOR ENGINE WIRE HARNESS ASSEMBLY PROCEDURE	EN00E11190272000	N.TABATA	
010417	AJ	16	APPLIED ON SIDE FIT SURFACE OF THE MAIN BEARING BEAM	EN00E11131462001	Y.INOUE	
010417	AJ	23-A	APPLIED ON SIDE FIT SURFACE OF THE MAIN BEARING BEAM	EN00E11131462001	Y.INOUE	
010507	AK	48	CHANGED TIGHTENING TORQUE	EN00E11102086000	M.NISHIDA	
		48-E	CHANGED TIGHTENING TORQUE			
010507	AK	48-F	CHANGED TIGHTENING TORQUE	EN00E11102086000	M.NISHIDA	
010508	AL	30-E	CHANGE POSITION OF ENGINE TYPE AND ENGINE NO. STAMP	EN00E11204632000	Y.INOUE	
010528	AM	89-E	CHANGED SOLENOID FIXING BOLT	EN00E11210521001	F.TANAKA	
010608	AN	3	CHANGED INDEX SHEET	EN00E11208966001	C.MORISHIGE	
		25-F	ADAPTED 19N(THRUST AT B/L MEASUREMENT)		M.SATOH	
		28-C	CHANGED SHEET NUMBER			
		28-D	ADDED SHEET FOR PILOT BEARING ASSEMBLY			
		46	ADDED DIAMOND WASHER ASSEMBLY			
		46-A	ADDED SHEET FOR PILOT BEARING ASSEMBLY			
010608	AN	55	CHANGED TIGHTENING TORQUE	EN00E11208966001	M.SATOH	
010622	AP	35	ADD SEALANT FOR CORE PLUG AS OPTION	EN00E11189361000	M.YAMAYA	
010626	AR	44-C	CHANGED PART NUMBER AND NAME	EN00E11229554000	N.KOSHIMOTO	
010626	AR	44-D	CHANGED PART NUMBER AND NAME	EN00E11229554000	N.KOSHIMOTO	
RESTRICTIONS			PART NAME/TITLE REVISION			
SPECIFICATION NO. <b>C1S7G-543-AC</b>	REV <b>AR</b>	RELEASE NO. EN00E11229554000	DATE <b>01-06-26</b>	MODEL 2001 2.0L-4V NON DI CD132	SHEET <b>1M</b>	CONTD. <b>1N</b>

CONFIDENTIAL



## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN	
010626	AR	44-E	CHANGED PART NUMBER AND NAME	EN00E11229554000	N.KOSHIMOTO	
010626	AR	44-F	CHANGED PART NUMBER AND NAME	EN00E11229554000	N.KOSHIMOTO	
010626	AR	48-E	CHANGED TIGHTENING TORQUE (CORRECTED ERROR)	EN00E11229554000	N.KOSHIMOTO	
010702	AS	13	CHANGED SPECIFICATION FOR AVDEL PLUG TO BLOCK DEPTH	EN00E11200123000	A.MATSUE	
010713	AT	70-C	CHANGED SKETCH AND TIGHTENING TORQUE	EN00E11231785007	T.GOTO	
		71-C	ADDED HIGH PRESSURE FUEL PIPE FIXING			
		78-C	CHANGED SKETCH AND TIGHTENING TORQUE OF FUEL RAIL AND PLATE			
		79-C	CHANGED SKETCH			
		82-C	CHANGED SKETCH AND HIGH PRESSURE PIPE FIXING			
010713	AT	83-C	CHANGED SKETCH AND NOTE AND PROCEDURE	EN00E11231785007	T.GOTO	
010807	AU	6	CHANGED NOTE ("REF ONLY" TO "INFORMATION")	EN00E11212646000	Y.YAMAMOTO	
		14	DELETED NOTE "BREAKAWAY TORQUE"		Y.HAYAMIZU	
		14-D	DELETED NOTE "BREAKAWAY TORQUE"		Y.HAYAMIZU	
		17	CHANGED NOTE ("REF ONLY" TO "INFORMATION")		Y.YAMAMOTO	
		20	CHANGED NOTE ("REFERENCE" TO "INFORMATION")		Y.YAMAMOTO	
		40	ADDED NOTE		M.YAMAYA	
		44	CHANGED NOTE FOR HIPOID OIL SPEC			
		44-C	CHANGED NOTE FOR HIPOID OIL SPEC			
		44-D	CHANGED NOTE FOR HIPOID OIL SPEC			
		44-E	CHANGED NOTE FOR HIPOID OIL SPEC			
		44-F	CHANGED NOTE FOR HIPOID OIL SPEC		M.YAMAYA	
		65-C	CHANGED SHEET NUMBER		N.TABATA	
		65-D	ADDED SHEET FOR KNOCK SENCOR ASSEMBLY PROCEDURE			
		92-D	CHANGED SHEET NUMBER			
		92-E	ADDED SHEET FOR KNOCK SENCOR ASSEMBLY PROCEDURE			
		98-B	CHANGED PART NUMBER		N.TABATA	
010807	AU	100-H	CHANGED TIGHTENING TORQUE (CORRECTED ERROR)	EN00E11212646000	C.MORISHIGE	
010811	AV	78-E	DELETED SHEET	EN00E11252991000	T.GOTO	
		78-F	ADDED SHEET FOR FUEL RAIL ASSEMBLY PROCEDURE			
		95-F	DELETED SHEET			
		95-G	ADDED SHEET FOR VACUUM HOSE ASSEMBLY PROCEDURE			
010811	AV	95-H	ADDED SHEET FOR VACUUM HOSE ASSEMBLY PROCEDURE	EN00E11252991000	T.GOTO	
010911	AW	3	CHANGED NOTE	EN00E11114191001	C.MORISHIGE	
		3A	ADDED INDEX SHEET		C.MORISHIGE	
		47	CHANGED PART NUMBER AND NAME		N.KOSHIMOTO	
		47-E	CHANGED PART NUMBER AND NAME			
		47-F	CHANGED PART NUMBER AND NAME			
		48	CHANGED PART NUMBER AND NAME			
		48-E	CHANGED PART NUMBER AND NAME			
010911	AW	48-F	CHANGED PART NUMBER AND NAME	EN00E11114191001	N.KOSHIMOTO	
010927	AX	46	CHANGED PART NUMBER AND NAME	EN00E11183682001	N.KOSHIMOTO	
		46-A	CHANGED PART NUMBER AND NAME			
		48	CHANGED PART NUMBER AND NAME			
		48-E	CHANGED PART NUMBER AND NAME			
010927	AX	48-F	CHANGED PART NUMBER AND NAME	EN00E11183682001	N.KOSHIMOTO	
010929	AY	14	CHANGED NOTE	EN00E11255546001	Y.HAYAMIZU	
010929	AY	14-A	ADDED INDEX SHEET FOR BYPASS PIPE PRESS-IN ANGLE.	EN00E11255546001	Y.HAYAMIZU	
RESTRICTIONS			PART NAME/TITLE REVISION			
SPECIFICATION NO. <b>C1S7G-543-AC</b>	REV <b>AZ</b>	RELEASE NO. EN00 E11184847 002	DATE <b>01-10-12</b>	MODEL 2001 2.0L-4V NON DI CD132	SHEET <b>1N</b>	CONTD. <b>1P</b>

CONFIDENTIAL



## ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS

ISSUE DATE	ISS REF	SHT No.	REVISION	WERS RELEASE NO	DRAWN
011012	AZ	61-B	CORRECTED SPECIFICATION	EN00E11184847002	K.ISHIDA
		61-C	DELETED SHEET		
		61-E	ADDED SHEET FOR PLASTIC CAM COVER		
011012	AZ	104-B	ADDED SHEET FOR PLASTIC CAM COVER	EN00E11184847002	K.ISHIDA
011017	BA	6	ADDED NOTE	EN00E11255548001	Y.YAMAMOTO
		7	ADDED NOTE & CHANGED FROM CONDUCT TO INFORMATON		
		8	CHANGED FROM REFERENCE TO CONDUCT		
011017	BA	10	ADDED NOTE	EN00E11255548001	Y.YAMAMOTO
011026	BB	103-C	ADDED NOTE	EN00E11273745001	Y.HAYAMIZU
		103-D	ADDED SHEET FOR C214		
011026	BB	103-E	ADDED SHEET FOR J56J AND J48C	EN00E11273745001	Y.HAYAMIZU
011030	BC	39	ADDED TOLERABLE LEAKAGE FOR THE ENGINE OF CD132 AND RANGER	EN00E11185527000	M. YAMAYA
011102	BD	12	CORRECTED PART NUMBER	EN00E11271059000	Y.INOUE
		12-A	CORRECTED PART NUMBER		
		27	CHANGED NOTE		
		32	CORRECTED PART NUMBER		
		75	CORRECTED PART NUMBER		Y.INOUE
		78-B	CHANGED NOTE		I.SHIMIZU
		91-B	CHANGED NOTE		I.SHIMIZU
011102	BD	95-F	ADDED SHEET FOR 04MY P150	EN00E11271059000	F.TANAKA
011105	BE	23-A	CHANGE THE "SNUG" TORQUE ALLOWANCE OF THE CRANK SHAFT BOLT.	EN00E11218821000	Y.INOUE
011108	BF	66-A	ADDED NOTICE OF RECYCLE LIFTING EYE ONLY FOR THE FORD VEHICLE	EN00E11157003000	M. YAMAYA
011109	BG	33	CORRECTED DIMENSION	EN00E11282537000	K.ISHIDA
		34	CHANGED SHEET NUMBER		
		34-A	ADDED SHEET		
		49-A	CORRECTED NOTE		
		49-B	CORRECTED NOTE		
		49-E	CORRECTED NOTE		
		50	CORRECTED PART NUMBER		
		50-A	DELETED SHEET		
		61-B	CORRECTED PART NUMBER		
		97-A	CHANGED SHEET NUMBER		
011109	BG	97-B	ADDED SHEET FOR C1 AND 2.3L EW PFI	EN00E11282537000	K.ISHIDA
011112	BH	110	CHANGED SHEET NUMBER	EN00E11266219000	Y.HAYAMIZU
011112	BH	110-A	ADDED SHEET FOR J16 2.3L	EN00E11266219000	Y.INOUE
011113	BJ	3	CHANGED NOTE	EN00E11284707000	Y.HAYAMIZU
		3-A	CHANGED NOTE		Y.HAYAMIZU
		30-E	ADDED SHEET FOR J56A J56F J16 2.3L		K.ISHIDA
011113	BJ	31	CHANGED SHEET NUMBER	EN00E11284707000	Y.INOUE
011114	BK	71-C	CHANGED NOTE	EN00E11281359001	Y.HAYAMIZU
011115	BL	3	CHANGED NOTE	EN00E11271652000	N.TABATA
		3A	CHANGED NOTE		N.TABATA
		62-A	CHANGED NOTE		N.TABATA
		64	CHANGED NOTE		F.TANAKA
		73-A	DELETE THE ASSEMBLING PROCEDURE OF ECT		N.TABATA
		73-C	CHANGED SHEET NUMBER		N.TABATA
011115	BL	73-D	ADDED SHEET FOR SOLENOID VALVE ASSEMBLY PROCEDURE	EN00E11271652000	N.TABATA
RESTRICTIONS				PART NAME/TITLE REVISION	
SPECIFICATION NO. C1S7G-543-AC	REV BL	RELEASE NO. EN00E11271652000	DATE 01-11-15	MODEL 2001 2.0L-4V NON DI CD132	SHEET 1P CONTD. 1R





Sheet adaptation Matrix X : to be adapted

Sheet No.	1.8L / 2.0L non-DI E/W	2.3L non-DI E/W	1.8L/2.0L DI E/W	2.3L N/S
4	X	X	X	X
4-A	X	X	X	X
5	X	X	X	X
6	X	X	X	X
7	X	X	X	X
8	X	X	X	X
9	X	X	X	X
10	X	X	X	X
11	X	X	X	X
11-D				
12	X		X	X
12-A		X		
13	X	X	X	X
14	X		X	X
14-D		X		
15-A	X	X	X	X
15-D				
16	X	X	X	X
17	X	X	X	X
18	X	X	X	X
19	X	X	X	X
20	X	X	X	X
21-A	X		X	
21-B		X		X
22	X	X	X	X
23-A	X	X	X	X
23-B	X	X	X	X
23-C	X	X	X	X
23-D				
24	X	X	X	X
25-A	X	X	X	
25-B				X
25-E		X		
25-F		X		
25-G		X		
25-H		X		
26	X	X	X	X
27	X	X	X	X
28	X	X	X	X
28-A	X	X	X	X
28-B	X	X	X	
28-C				X
28-D	X	X	X	
29	X	X	X	X
29-D				
30-A	X	X	X	
30-B				X
30-D		X	X	
30-E	X	X	X	X
31				
31-D				
32	X	X	X	X
32-D				
33	X	X	X	X
34	X	X	X	X
35	X	X	X	X
36	X	X	X	X
37	X	X	X	X
38	X	X	X	X
39	X	X	X	X
40	X	X	X	X
41	X	X	X	X
42	X	X	X	X
42-D				
43	X	X	X	X
44	X	X		X
44-C			X	
44-D		X		
44-E		X		X
44-F			X	
45	X	X	X	X
45-D				
46	X	X	X	X

Sheet No.	1.8L / 2.0L non-DI E/W	2.3L non-DI E/W	1.8L/2.0L DI E/W	2.3L N/S
46-A	X	X	X	
46-E		X		
47	X	X	X	X
47-E		X		
48	X	X	X	X
48-E		X		
49-A	X		X	
49-B		X		X
49-E		X		
50	X	X	X	
50-A		X	X	
51	X	X	X	X
52-A	X	X	X	
52-B				X
52-E	X	X	X	
53-A				
53-B				
54	X	X		X
55	X	X	X	X
56-C			X	
57	X	X	X	X
58	X	X	X	X
58-C			X	
58-D				
59	X	X	X	X
60	X	X	X	X
60-A		X	X	X
60-C			X	
61-A	X	X		
61-B				X
61-C			X	
61-D		X		
61-E		X		
61-F		X		
61-G		X		
61-J		X	X	
62-A	X	X		X
62-B				
62-C				
63-B				X
63-D				
64	X	X	X	X
65-A	X	X		
65-B				X
65-C			X	
66-A	X	X	X	
66-B				X
66-D				
67-A	X	X		
67-B	X	X		X
67-D				X
68	X	X	X	X
69-C			X	
70-C			X	
71-A	X	X		
71-B				X
71-C			X	
72-C			X	
73-A	X	X		
73-B				X
73-C			X	
74-C			X	
75	X	X	X	X
76-A	X	X		
76-B				X
76-C			X	
76-D		X		
77	X	X		
78-A	X	X		
78-B				X
78-C			X	
79-C			X	
80-C			X	

Sheet No.	1.8L / 2.0L non-DI E/W	2.3L non-DI E/W	1.8L/2.0L DI E/W	2.3L N/S
81-C				
82-C			X	
83-C			X	
84-C			X	
84-D			X	
85-A	X	X		
85-B				X
85-C			X	
85-D				
86-D				
87-B				X
87-C			X	
87-D				
87-E				X
87-F				X
88-A	X	X		
88-B				X
88-C			X	
88-D				
89-A	X	X		
89-B				X
89-D				
89-E		X		
89-F				X
89-G			X	
90-A	X	X		
90-B				X
90-C			X	
90-D				X
91-A	X	X		
91-B				X
91-C			X	
92-A	X	X		
92-B				X
92-C			X	
93-A	X	X	X	
93-B				X
94	X	X	X	
95-A	X	X		
95-B				X
95-D		X		
96-B				X
96-D				
97-A	X	X	X	
98-A	X	X		
98-B				X
99	X	X		
99-B				X
100-C			X	
100-D				X
100-E				X
100-F				X
100-G				X
100-H				X
100-J				X
100-K				X
100-L				X
100-M				X
100-N				X
101-C				
102-C				
103-C			X	
104-A	X	X	X	X
104-B				
105	X	X	X	X
106-A				
107-A	X	X	X	
107-B				X
108				X
109				X
110	X	X	X	X
111	X	X	X	X

RESTRICTIONS				PART NAME/TITLE GENERAL INFORMATION			
SPECIFICATION NO.	REV	RELEASE NO.	DATE	MODEL	SHEET	CONTD.	
C1S7G-543-AC	AN	EN00E11208966001	01-06-08	2001 2.0L-4V NON DI CD132	2	3	

**ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS  
CLEARANCE LIMITS AND SPECIFICATIONS**

PART NAME/TITLE		SHEET NUMBER	
A	ABSOLUTE PRESS SENSOR AIR BYPASS VALVE AIR BYPASS VALVE & SOLENOID VALVE AUDIO GROUND STRAP	90A-C 89B / 89H 89A / 89E 87F	
B	BACKLASH MEASURING METHOD BALANCER AND SELECTED SHIM TO BLOCK BALANCER AND SHIM TO BLOCK BARCODE	25F 25H 25E 5 / 111	
C	CAM SHAFT & CAM CAP CAM COVER & GASKET ASSEMBLY CAP-BLIND PLUG CHAIN-AUX OIL PUMP/SPROCKET-AUX OIL PUMP DRV CHAIN-TIMING/GUIDE-TIMING CHAIN CHT SENSOR CONROD BEARING COLOUR CODING CONROD BEARING LINERS CONROD BEARING,CAPS & BOLTS CONROD WEIGHT TOLERANCE COOLER ASY-OIL & FASTENER COVER ASY-CYL FRONT CRANKCASE VENTILATION CRANKCASE VENTILATION COVER CYLINDER HEAD & BOLTS	44 / 44C-F 60C / 61A-E / 61J 90D 46 / 46A 48 / 48E-F 63-B 21A-B 19 22 8 94 52A-B 88A-C 64 41	
D	DIPSTICK & DIPSTICK TUBE DIS COIL DIS COIL & SENSOR-WATER TEMP DOWEL ASY-CYLINDER BLOCK	97A / 97B 73A 73B 27 / 32	
E	EGR BLANKING PLATE EGR OUTLET EGR TUBE EGR VALVE ENGINE NUMBER STAMPING POSITION ENGINE WIRE HARNESS EXCESS RTV REMOVING EXHAUST MANIFOLD	67B / 87E 87C 77 / 87B 67A / 67D / 72C 31 80C / 81C / 99 / 100C / 101C / 102C-D 51 96B	
F	FLYWHEEL ASY FILTER ASY-OIL/ADAPTER/OIL PRESSURE SWITCH FUEL PUMP ASSEMBLY FUEL PUMP COVER ASSEMBLY FUEL RAIL ASSEMBLY FUEL RAIL COVER FUEL RETURN HOSE	28 93A-B 70C 69C 78A-D / 78F 84D 79C	
G	GENERAL INFOMAITION GASKET-CYLINDER HEAD	4 / 4A 34	
H	HIGH PRESSURE FUEL PIPE HIGH PRESSURE FUEL PIPE/MARKET SERVICE HOSE ASSY E/G/R COOL OUTLET HOSE&CLAMP ASSY-WATER BYPASS HOSE-EVAP HOSES-VACUUM	82C 83C 103C-E 76A-D 108 95A-B / 95D-H	
I	IABV BLANKING PLATE AND SOLENOID VALVE IDLER ASY-ACC DR BELT IGNITION COIL INSTALLATION DUAL MASS FLYWHEEL INSTALLATION FLEXPLATE(AUTO) INTAKE & EXHAUST VALVES INTAKE MANIFOLD	89-D 52E 73C / 73E 28B / 110 28A 38 85A-D	
L	LIFTING EYE FRONT & REAR	66A-B	
RESTRICTIONS		PART NAME/TITLE INDEX	
SPECIFICATION NO. C1S7G-543-AC	REV BL	RELEASE NO. EN00E11271652 000	DATE 01-11-15
MODEL 2001 2.0L-4V NON DI CD132		SHEET 3	CONTD. 3A



ENGINE ASSEMBLY PROCEDURES AND INSTRUCTIONS CLEARANCE LIMITS AND SPECIFICATIONS						
PART NAME/TITLE					SHEET NUMBER	
M	MAIN BEARING & THRUST LINERS				15A	
	MAIN BEARING CLEARANCES				17	
	MAIN BEARING COLOUR CODING				18	
	MAIN BEARING LADDER BEAM & BOLTS				23A	
	MAIN BEARING UPPER				23B	
	MAIN BEARING LOWER				23C	
	O	OIL FILLER CAP				104A-B
OIL PAN & OIL FILL QUANTITIES				30A-D / 30E		
P	PILOT BEARING				28C / 28D	
	PIPE CONNECTOR-BYPASS				14 / 14A / 14D	
	PISTON & CONROD ASSEMBLY				10	
	PISTON AND CONROD ASY				9	
	PISTON GRADE CHART				6	
	PISTON RING				7	
	PLUG-AVDEL				36	
	PLUG-CYLINDER HEAD				35	
	PLATE END				110A	
	PLUG-OIL GALLERY				12 / 12A / 13 / 105	
	PLUG-TIMING PIN HOLE				75	
	PROCEDURE-CAMCAP BOLT				45	
	PROCEDURE-CONROD BEARING LINER				20	
	PROCEDURE-CYLINDER HEAD BOLTS				42	
	PROCEDURE-MAIN BEARING LINER				16	
	PULLEY / DAMPER-CRANKSHAFT				55	
PUMP ASY-OIL & GASKET-OIL PUMP TO BLOCK				24		
R	REPLACEMENT OF SHIM SELECTION				25G	
	REAR OIL SEAL-CRANKSHAFT				26	
	RTV SEALER-CAM COVER				60 / 60A	
	RTV SEALER-CYL HEAD GASKET				33 / 34A	
	RTV SEALER-FRONT COVER				49A / 49B / 49E	
	RTV SEALER-OIL PAN				29	
S	SCREEN AND COVER ASY-OIL PUMP				25A / 25B	
	SENSOR ECT				74C-D	
	SENSOR-CAM ANGLE				58C	
	SENSOR-CAMSHAFT POSITION				58 / 58E	
	SENSOR-CRANKSHAFT POSITION				54 / 56C	
	SENSOR-KNOCK				65A-C / 92A-E	
	SOL-ENG VAR TM				44-G / 44-H	
	SOLENOID VALVE				73D / 89F / 89G	
	SPARK PLUG				62-A	
	SPARK PLUG LEADS				98A / 98B	
	SPROCKET-CAMSHAFT				47 / 47E / 47F	
	SPROCKET-CRANKSHAFT & TIMING PLATE				57	
	STUD-ENGINE MOUNT				50	
	STUDS-EXHAUST MANIFOLD				40	
SUPT-INTK MANF				84C		
T	THERMOSTAT				68	
	THROTTLE BODY				91A-C	
V	VACUUM HARNESS				109	
	VALVE ASY-ENG PISTON OIL COOL				11	
	VALVE LIFTERS				43	
	VALVE SPRINGS & RETAINERS				39	
	VALVE STEM OIL SEALS				37	
W	WATER PUMP & GASKET				59	
	WATER OUTLET CONNECTOR & GASKET				71A-C	
	WATER PUMP PULLEY				107A	
	WATER PUMP PULLEY & FAN PULLEY				107B	
	WIRING ASY				99B / 100D-H / 100J-N	
RESTRICTIONS					PART NAME/TITLE INDEX	
SPECIFICATION NO. C1S7G-543-AC	REV BL	RELEASE NO. EN00E11271652 000	DATE 01-11-15	MODEL 2001 2.0L-4V NON DI CD132	SHEET 3A	CONTD. 4