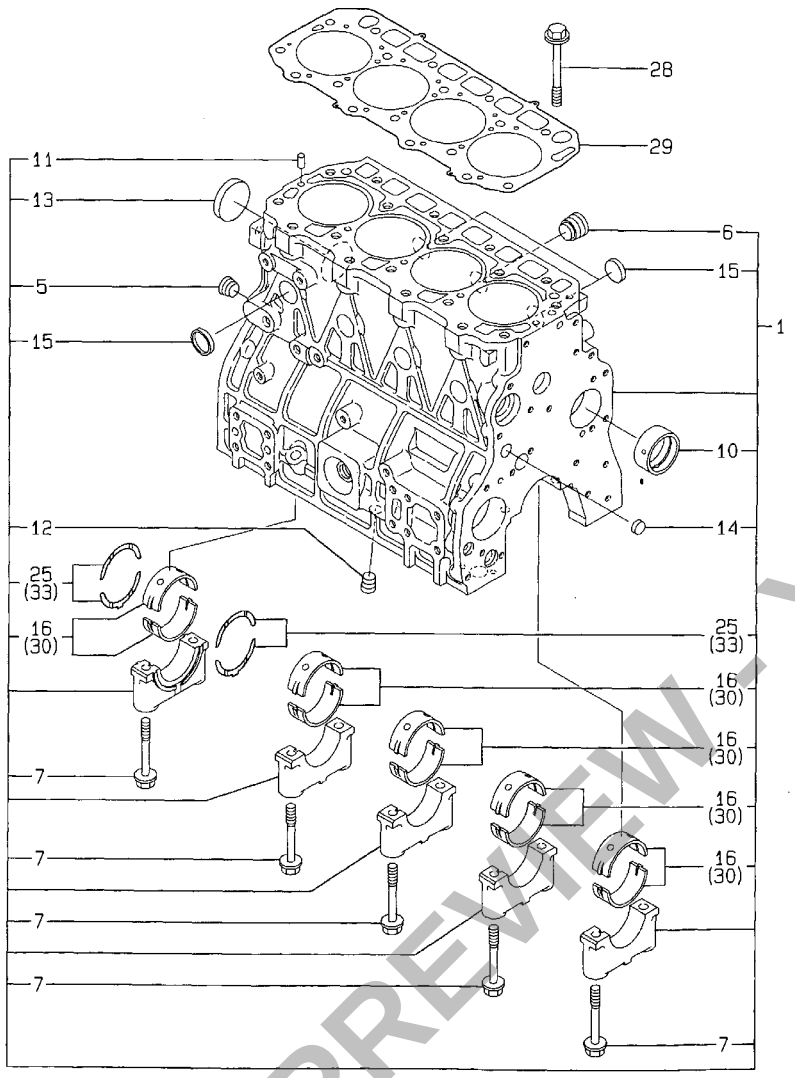
# Fig.1. CYLINDER BLOCK




Remarks
(1) UNDER-SIZED(U.S=0.25)PART.
(2) OVER-SIZED(O.S=0.25)PART.

 1. CYLINDER BLOCK

(A)=4TNE98-SA (D)=
(B)=4TNE98-G1A (E)=
(C)= (F)=

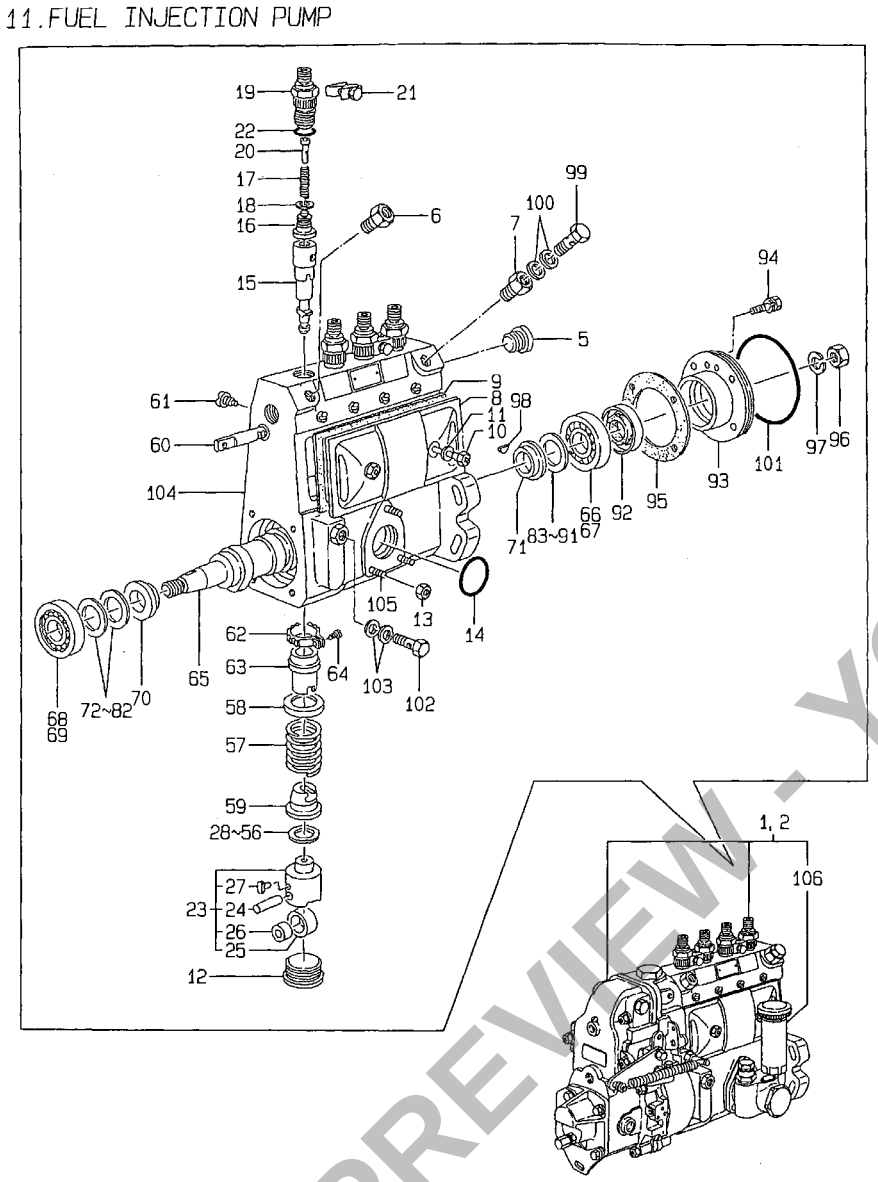
| REF. | LEV. | PARTS NO. | DESCRIPTION | Q'TY (A) | (B) | (C) | (D) | (E) | (F) | I | R |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 729902-01560 | BLOCK ASSY, CYLINDER | 1 | 1 | | | | | | |
| 5 | 2 | 23871-030000 | PLUG PT3/8,SCREW | 1 | 1 | | | | | | |
| 6 | 2 | 171051-01921 | PLUG | 1 | 1 | | | | | | |
| 7 | 2 | 129900-02020 | BOLT, METAL CAP | 10 | 10 | | | | | | |
| 10 | 2 | 129900-02410 | BUSH, CAMSHAFT | 1 | 1 | | | | | | |
| 11 | 2 | 22351-060012 | SPRING PIN 6X12 | 2 | 2 | | | | | | |
| 12 | 2 | 23871-030000 | PLUG PT3/8,SCREW | 1 | 1 | | | | | | |
| 13 | 2 | 27231-550000 | PLUG 55 | 1 | 1 | | | | | | |
| 14 | 2 | 27241-160000 | PLUG 16 | 1 | 1 | | | | | | |
| 15 | 2 | 27241-300000 | PLUG 30 | 8 | 8 | | | | | | |
| 16 | 2 | 129900-02800 | BEARING ASSY, MAIN | 5 | 5 | | | | | | |
| 25 | 2 | 129900-02930 | BEARING ASSY, THRUST | 2 | 2 | | | | | | |
| 28 | 1 | 129900-01200 | BOLT, HEAD | 18 | 18 | | | | | | |
| 29 | 1 | 129902-01330 | GASKET,CYL.HEAD | 1 | 1 | | | | | | |
| 30 | 1 | 129900-02340 | MAIN BEARING US=0.25 | 5 | 5 | | | | | | 1 |
| 33 | 1 | 129900-02940 | BEARING,THRUST .25OS | 2 | 2 | | | | | | 2 |

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# Fig.11. FUEL INJECTION PUMP




Remarks
(1) GOVERNOR(FIG.NO.18) & FEED PUMP
(FIG.NO.19) IS INCORPORATED IN
THIS FUEL INJECTION PUMP
(REF.NO.1,2).



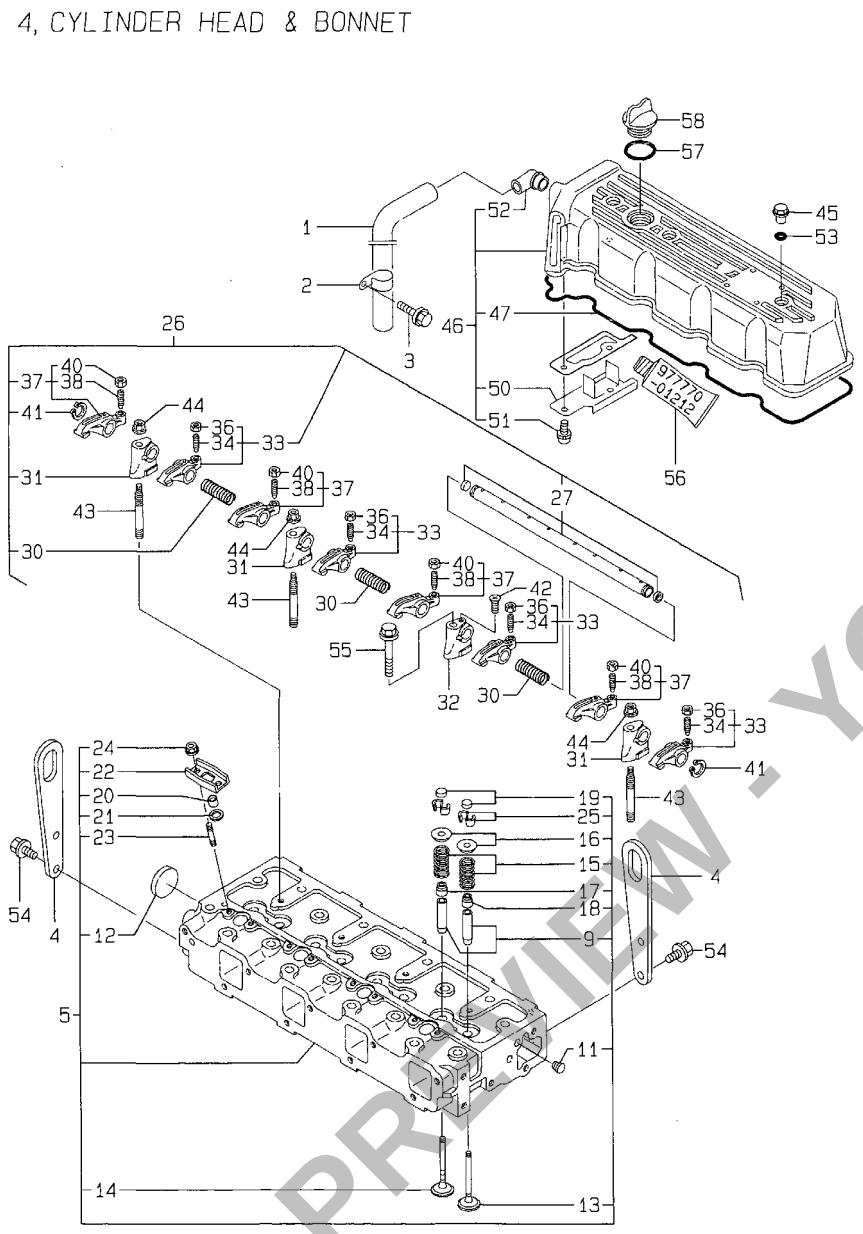
(A)=4TNE98-SA (D)=
(B)=4TNE98-G1A (E)=
(C)= (F)=

| REF. | LEV. | PARTS NO. | DESCRIPTION | Q'TY (A) | (B) | (C) | (D) | (E) | (F) | I | R |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 129955-51010 | FUEL INJECTION PUMP | 1 | | | | | | | 1 |
| 2 | 1 | 129955-51000 | FUEL INJECTION PUMP | | 1 | | | | | | 1 |
| 5 | 2 | X1340260000 | PLUG | 1 | 1 | | | | | | |
| 6 | 2 | X1310022000 | CAP | 1 | 1 | | | | | | |
| 7 | 2 | X1310022000 | CAP | 1 | 1 | | | | | | |
| 8 | 2 | X1310286220 | COVER | 1 | 1 | | | | | | |
| 9 | 2 | X1310111900 | GASKET | 1 | 1 | | | | | | |
| 10 | 2 | X1310171000 | SCREW | 2 | 2 | | | | | | |
| 11 | 2 | X0293406020 | GASKET | 2 | 2 | | | | | | |
| 12 | 2 | X1310341401 | PLUG | 4 | 4 | | | | | | |
| 13 | 2 | X1392060400 | NUT | 3 | 3 | | | | | | |
| 14 | 2 | X0296331010 | O-RING | 1 | 1 | | | | | | |
| 15 | 2 | X1311523420 | PLUNGER | 4 | 4 | | | | | | |
| 16 | 2 | X1311607920 | DELIVERY VALVE | 4 | 4 | | | | | | |
| 17 | 2 | X1311123500 | SPRING | 4 | 4 | | | | | | |
| 18 | 2 | X1311151600 | GASKET | 4 | 4 | | | | | | |
| 19 | 2 | X1311167600 | HOLDER | 4 | 4 | | | | | | |
| 20 | 2 | X1311172300 | STOPPER | 4 | 4 | | | | | | |
| 21 | 2 | X1311220520 | PLATE | 2 | 2 | | | | | | |
| 22 | 2 | X0296320030 | O-RING | 4 | 4 | | | | | | |
| 23 | 2 | X1312000220 | TAPPET | 4 | 4 | | | | | | |
| 24 | 3 | X1312030200 | PIN | 4 | 4 | | | | | | |
| 25 | 3 | X1312041000 | ROLLER | 4 | 4 | | | | | | |
| 26 | 3 | X1312050500 | BUSH | 4 | 4 | | | | | | |
| 27 | 3 | X1312060200 | GUIDE | 4 | 4 | | | | | | |
| 28 | 2 | X0293110020 | SHIM | 1 | 1 | | | | | | |
| 29 | 2 | X0293110030 | SHIM | 1 | 1 | | | | | | |
| 30 | 2 | X0293110040 | SHIM | 1 | 1 | | | | | | |
| 31 | 2 | X0293110050 | SHIM | 1 | 1 | | | | | | |
| 32 | 2 | X0293110060 | SHIM | 1 | 1 | | | | | | |
| 33 | 2 | X0293110070 | SHIM | 1 | 1 | | | | | | |
| 34 | 2 | X0293110080 | SHIM | 1 | 1 | | | | | | |
| 35 | 2 | X0293110090 | SHIM | 1 | 1 | | | | | | |
| 36 | 2 | X0293110110 | SHIM | 1 | 1 | | | | | | |
| 37 | 2 | X0293110120 | SHIM | 1 | 1 | | | | | | |
| 38 | 2 | X0293110130 | SHIM | 1 | 1 | | | | | | |
| 39 | 2 | X0293110140 | SHIM | 1 | 1 | | | | | | |
| 40 | 2 | X0293110270 | SHIM | 1 | 1 | | | | | | |
| 41 | 2 | X0293110280 | SHIM | 1 | 1 | | | | | | |
| 42 | 2 | X0293110290 | SHIM | 1 | 1 | | | | | | |
| 43 | 2 | X0293110310 | SHIM | 1 | 1 | | | | | | |
| 44 | 2 | X0293110320 | SHIM | 1 | 1 | | | | | | |
| 45 | 2 | X0293110330 | SHIM | 1 | 1 | | | | | | |
| 46 | 2 | X0293110340 | SHIM | 1 | 1 | | | | | | |
| 47 | 2 | X0293110350 | SHIM | 1 | 1 | | | | | | |
| 48 | 2 | X0293110490 | SHIM | 1 | 1 | | | | | | |
| 49 | 2 | X0293110500 | SHIM | 1 | 1 | | | | | | |
| 50 | 2 | X0293110580 | SHIM | 1 | 1 | | | | | | |
| 51 | 2 | X0293110590 | SHIM | 1 | 1 | | | | | | |
| 52 | 2 | X0293110600 | SHIM | 1 | 1 | | | | | | |
| 53 | 2 | X0293110610 | SHIM | 1 | 1 | | | | | | |
| 54 | 2 | X0293110620 | SHIM | 1 | 1 | | | | | | |
| 55 | 2 | X0293110630 | SHIM | 1 | 1 | | | | | | |
| 56 | 2 | X0293110710 | SHIM | 1 | 1 | | | | | | |

++ CONTINUE ++

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# Fig.4. CYLINDER HEAD & BONNET




Remarks
(1) REPAIR PART.
(2) OPTIONAL PART.



## 4. CYLINDER HEAD & BONNET

(A)=4TNE98-SA (D)=
(B)=4TNE98-G1A (E)=
(C)= (F)=

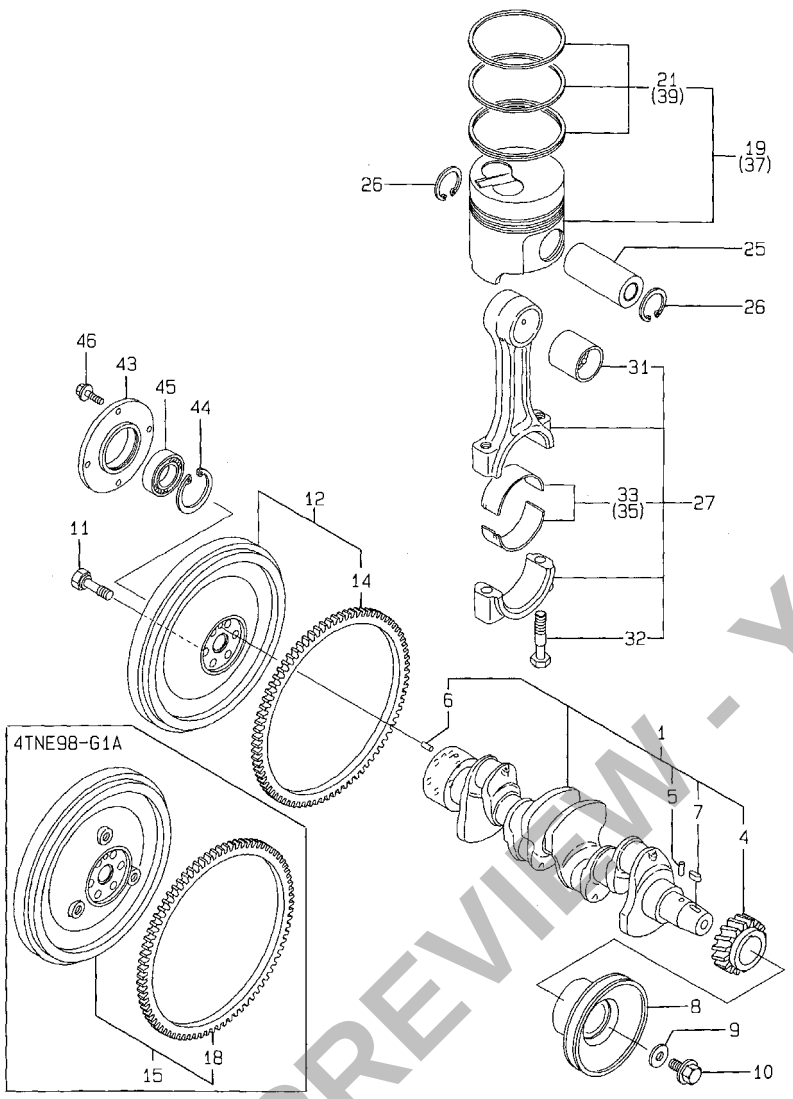
| REF. | LEV. | PARTS NO. | DESCRIPTION | Q'TY (A) | (B) | (C) | (D) | (E) | (F) | I | R |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 119006-03090 | HOSE, BREATHER | 1 | 1 | | | | | | |
| 2 | 1 | 129150-03100 | RETAINER | 1 | 1 | | | | | | |
| 3 | 1 | 26106-080122 | BOLT M 8X 12 PLATED | 1 | 1 | | | | | | |
| 4 | 1 | 129900-07900 | LIFTER, ENGINE | 2 | 2 | | | | | | |
| 5 | 1 | 729900-11100 | HEAD ASSY, CYLINDER | 1 | 1 | | | | | | |
| 9 | 2 | 129150-11810 | GUIDE, VALVE | 8 | 8 | | | | | | 1 |
| 11 | 2 | 23871-005000 | PLUG PT 1/16 | 1 | 1 | | | | | | |
| 12 | 2 | 27241-400000 | PLUG 40 | 1 | 1 | | | | | | |
| 13 | 2 | 129900-11100 | VALVE, SUCTION | 4 | 4 | | | | | | |
| 14 | 2 | 129900-11110 | VALVE, EXHAUST | 4 | 4 | | | | | | |
| 15 | 2 | 129900-11120 | SPRING, VALVE | 8 | 8 | | | | | | |
| 16 | 2 | 129795-11180 | RETAINER, SPRING | 8 | 8 | | | | | | |
| 17 | 2 | 121400-11340 | SEAL, VALVE STEM | 4 | 4 | | | | | | |
| 18 | 2 | 124460-11340 | SEAL, VALVE STEM | 4 | 4 | | | | | | |
| 19 | 2 | 129150-11370 | CAP, VALVE | 8 | 8 | | | | | | |
| 20 | 2 | 119625-11870 | PROTECTOR, NOZZLE | 4 | 4 | | | | | | |
| 21 | 2 | 119625-11880 | SEAT, NOZZLE | 4 | 4 | | | | | | |
| 22 | 2 | 119625-11900 | RETAINER | 4 | 4 | | | | | | |
| 23 | 2 | 26216-060202 | STUD M 6X 20 PLATED | 8 | 8 | | | | | | |
| 24 | 2 | 26366-060002 | NUT M 6 | 8 | 8 | | | | | | |
| 25 | 2 | 27310-080000 | COTTER 8 | 16 | 16 | | | | | | |
| 26 | 1 | 129900-11200 | SUPPORT ASY,ROCK.ARM | 1 | 1 | | | | | | |
| 27 | 2 | 129900-11240 | SHAFT ASSY,ROCK. ARM | 1 | 1 | | | | | | |
| 30 | 2 | 129900-11280 | SPRING | 3 | 3 | | | | | | |
| 31 | 2 | 129900-11510 | SUPPORT | 3 | 3 | | | | | | |
| 32 | 2 | 129900-11520 | SUPPORT | 1 | 1 | | | | | | |
| 33 | 2 | 129900-11650 | ARM KIT, SUC. ROCKER | 4 | 4 | | | | | | |
| 34 | 3 | 129150-11230 | SCREW, VALVE | 4 | 4 | | | | | | |
| 36 | 3 | 129150-11750 | NUT M8XP1.0 | 4 | 4 | | | | | | |
| 37 | 2 | 129900-11660 | ARM KIT, EXH. ROCKER | 4 | 4 | | | | | | |
| 38 | 3 | 129150-11230 | SCREW, VALVE | 4 | 4 | | | | | | |
| 40 | 3 | 129150-11750 | NUT M8XP1.0 | 4 | 4 | | | | | | |
| 41 | 2 | 22242-000180 | CIRCLIP 18 | 2 | 2 | | | | | | |
| 42 | 2 | 26577-040122 | SCREW M 4 X 12 | 1 | 1 | | | | | | |
| 43 | 1 | 129900-11530 | STUD BOLT | 3 | 3 | | | | | | |
| 44 | 1 | 26366-100002 | NUT M10 | 3 | 3 | | | | | | |
| 45 | 1 | 124160-11360 | KNOB | 3 | 3 | | | | | | |
| 46 | 1 | 129900-11350 | BONNET ASSY | 1 | 1 | | | | | | |
| 47 | 2 | 129900-11310 | GASKET, BONNET | 1 | 1 | | | | | | |
| 50 | 2 | 129900-11600 | PLATE | 1 | 1 | | | | | | |
| 51 | 2 | 26022-050122 | SCREW M 5X 12 | 2 | 2 | | | | | | |
| 52 | 2 | 119100-11330 | JOINT, BREATHER | 1 | 1 | | | | | | |
| 53 | 1 | 24311-000120 | O-RING 1A P 12.0 | 3 | 3 | | | | | | |
| 54 | 1 | 26106-080162 | BOLT M 8X 16 PLATED | 4 | 4 | | | | | | |
| 55 | 1 | 26106-100652 | BOLT M10X 65 PLATED | 1 | 1 | | | | | | |
| 56 | 1 | 977770-01212 | GASKET, LIQUID | 1 | 1 | | | | | | 2 |
| 57 | 1 | 24311-000320 | O-RING 1A P-32.0 | 1 | 1 | | | | | | |
| 58 | 1 | 124160-01751 | CAP, LUB.OIL SUPPLY | 1 | 1 | | | | | | |

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# Fig.8. CRANKSHAFT & PISTON




Remarks
(1) REPAIR PART.
(2) UNDER-SIZE(U.S=0.25)PART.
(3) OVER-SIZE(O.S=0.25)PART.



(A)=4TNE98-SA (D)=
(B)=4TNE98-G1A (E)=
(C)= (F)=

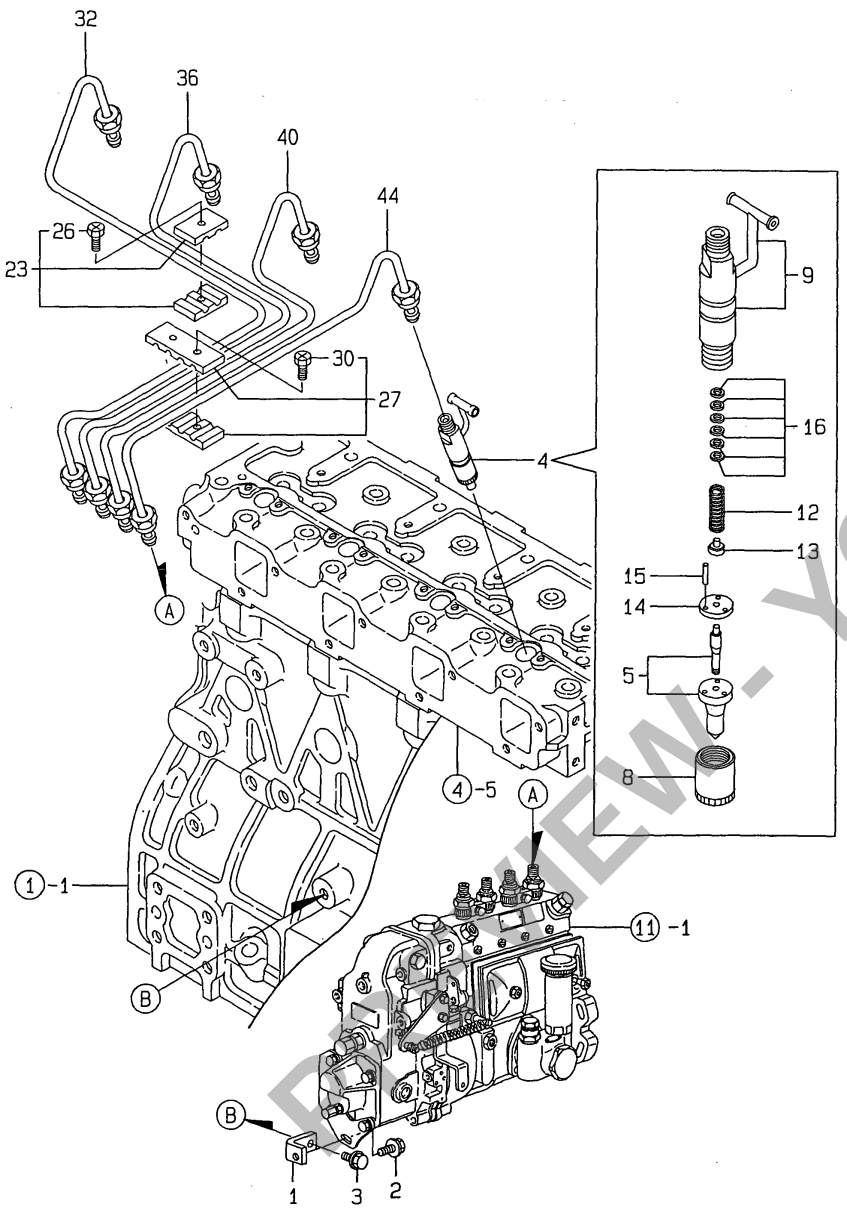
| REF. | LEV. | PARTS NO. | DESCRIPTION | Q'TY (A) | (B) | (C) | (D) | (E) | (F) | I | R |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 129902-21000 | CRANKSHAFT COMP | 1 | 1 | | | | | | |
| 4 | 2 | 129900-21200 | GEAR, CRANKSHAFT | 1 | 1 | | | | | | |
| 5 | 2 | 121850-21290 | PARALLEL PIN | 1 | 1 | | | | | | |
| 6 | 2 | 121850-21920 | PARALLEL PIN 10X22 | 1 | 1 | | | | | | |
| 7 | 2 | 22512-070140 | KEY 7X 14 | 1 | 1 | | | | | | |
| 8 | 1 | 129900-21670 | V-PULLEY | 1 | 1 | | | | | | |
| 9 | 1 | 129900-21640 | WASHER | 1 | 1 | | | | | | |
| 10 | 1 | 121850-21680 | BOLT, V-PULLEY | 1 | 1 | | | | | | |
| 11 | 1 | 121850-21130 | BOLT, FLYWHEEL | 6 | 6 | | | | | | |
| 12 | 1 | 129955-21590 | FLYWHEEL ASSY | 1 | | | | | | | |
| 14 | 2 | 129900-21600 | GEAR, RING | 1 | | | | | | | |
| 15 | 1 | 129902-21580 | FLYWHEEL ASSY | | 1 | | | | | | |
| 18 | 2 | 127410-21480 | RING GEAR | | 1 | | | | | | |
| 19 | 1 | 129902-22080 | PISTON W/RING | 4 | 4 | | | | | | |
| 21 | 2 | 129903-22050 | RING SET | 4 | 4 | | | | | | |
| 25 | 1 | 120130-22301 | PIN, PISTON | 4 | 4 | | | | | | |
| 26 | 1 | 22252-000300 | CIRCLIP 30 | 8 | 8 | | | | | | |
| 27 | 1 | 129900-23000 | ROD ASSY, CONNECTING | 4 | 4 | | | | | | |
| 31 | 2 | 129900-23910 | BUSH, PISTON PIN | 4 | 4 | | | | | | 1 |
| 32 | 2 | 129900-23200 | BOLT, ROD | 8 | 8 | | | | | | |
| 33 | 2 | 129900-23600 | METAL ASSY, CRANKPIN | 4 | 4 | | | | | | |
| 35 | 1 | 129900-23610 | BEARING,PIN U.S=0.25 | 4 | 4 | | | | | | 2 |
| 37 | 1 | 129902-22900 | PISTON W/RING O.S=25 | 4 | 4 | | | | | | 3 |
| 39 | 2 | 129903-22950 | RING SET O.S=0.25 | 4 | 4 | | | | | | 3 |
| 43 | 1 | 171085-21451 | HOUSING, BEARING | 1 | | | | | | | |
| 44 | 1 | 22252-000721 | RING 72 | 1 | | | | | | | |
| 45 | 1 | 24105-063064 | BALL BEARING | 1 | | | | | | | |
| 46 | 1 | 26106-080222 | BOLT M 8X 22 PLATED | 4 | | | | | | | |

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# Fig.12. FUEL INJECTION VALVE






## 12. FUEL INJECTION VALVE

(A)=4TNE98-SA (D)=
(B)=4TNE98-G1A (E)=
(C)= (F)=

| REF. | LEV. | PARTS NO. | DESCRIPTION | Q'TY (A) | (B) | (C) | (D) | (E) | (F) | I | R |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 129900-01950 | BRACKET | 1 | 1 | | | | | | |
| 2 | 1 | 26106-100142 | BOLT M10X 14 PLATED | 1 | 1 | | | | | | |
| 3 | 1 | 26106-080202 | BOLT M 8X 20 PLATED | 1 | 1 | | | | | | |
| 4A | 1 | 729902-53200 | VALVE, FUEL | 4 | | | | | | | |
| 4B | 1 | 729982-53100 | VALVE ASSY, F.INJECT | | 4 | | | | | | |
| 5A | 2 | 129902-53050 | NOZZLE | 4 | | | | | | | |
| 5B | 2 | 129982-53000 | NOZZLE | | 4 | | | | | | |
| 8 | 2 | 114250-53080 | NUT, NOZZLE CASE | 4 | 4 | | | | | | |
| 9 | 2 | 129100-53100 | HOLDER ASSY, NOZZLE | 4 | 4 | | | | | | |
| 12 | 2 | 114250-53120 | SPRING, NOZZLE | 4 | 4 | | | | | | |
| 13 | 2 | 114250-53130 | SEAT, NOZZLE SPRING | 4 | 4 | | | | | | |
| 14 | 2 | 114250-53140 | PLATE, STOP | 4 | 4 | | | | | | |
| 15 | 2 | 114250-53210 | PIN | 8 | 8 | | | | | | |
| 16 | 2 | 114250-53400 | SHIM PACK | 4 | 4 | | | | | | |
| 23 | 1 | 119305-59120 | RETAINER | 2 | 2 | | | | | | |
| 26 | 2 | 129150-59131 | BOLT M4X14,HEX.SCKT. | 2 | 2 | | | | | | |
| 27 | 1 | 129550-59120 | RETAINER | 1 | 1 | | | | | | |
| 30 | 2 | 129150-59131 | BOLT M4X14,HEX.SCKT. | 2 | 2 | | | | | | |
| 32 | 1 | 129902-59810 | PIPE NO.1, F.INJECT. | 1 | 1 | | | | | | |
| 36 | 1 | 129902-59820 | PIPE NO.2, F.INJECT. | 1 | 1 | | | | | | |
| 40 | 1 | 129902-59830 | PIPE NO.3, F.INJECT. | 1 | 1 | | | | | | |
| 44 | 1 | 129902-59840 | PIPE NO.4, F.INJECT. | 1 | 1 | | | | | | |

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