



Parts List

Compo. P/N: 096000-8123

Assy P/N: 096000-8123

| S | M | Illust.No. | Part Name | DENSO P/N | Manu. P/N | QTY | I/C | Start | End | Remarks |
|---|---|------------|--------------------|-------------|-----------|-----|-----|-------|------|--------------|
| | | 0 | PUMP ASSY, INJECTI | 096000-8123 | MD189557 | 01 | | | | |
| | | 1 | HOUSING SUB-ASSY, | 096110-0512 | | 01 | | | | |
| | | 2 | HEAD SUB-ASSY, DIS | 096400-1430 | MD627098 | 01 | | | | |
| | | 3 | COMPENSATOR SUB-AS | 096490-1090 | | 01 | | | | |
| S | | 4 | SHAFT, DRIVE | 096121-0060 | ME736309 | 01 | | | | |
| S | | 5 | RING SUB-ASSY, ROL | 096180-0050 | ME736310 | 01 | | | 9311 | |
| S | | 5 | RING SUB-ASSY, ROL | 096180-0270 | MD627100 | 01 | B | 9312 | 0009 | |
| S | | 5 | RING SUB-ASSY, ROL | 096180-0050 | ME736310 | 01 | A | 0010 | | |
| | | 6 | PUMP SUB-ASSY, FUE | 096140-0030 | ME736311 | 01 | | | | |
| | | 7 | GOVERNOR ASSY, TOR | 096270-0960 | MD627101 | 01 | | | | STD-SP |
| | | 8 | SHAFT SUB-ASSY, SP | 096460-1560 | | 01 | | | | MARK 10 |
| | | 9 | SOLENOID ASSY, FUE | 096030-0160 | | 01 | | | 9702 | FCV,12V |
| | | 9 | SOLENOID ASSY, FUE | 096030-0520 | ME736821 | 01 | B | 9702 | | FCV,12V |
| | | 9-1 | O-RING | 096049-0350 | ME743582 | 01 | | | | ID14.4 |
| | | 10 | HOLDER SUB-ASSY, F | 096260-0050 | ME736316 | 01 | | | | |
| S | | 11 | FLYWEIGHT, DISTRIB | 096263-0030 | ME736317 | 04 | | | | |
| | | 12 | SLEEVE, GOVERNOR | 096252-0680 | ME736480 | 1C | | | 9310 | D0.7,2 PCS. |
| | | 12 | SLEEVE, GOVERNOR | 096252-0780 | ME736469 | 1C | | | 9310 | D0.6,2 PCS. |
| | | 12 | SLEEVE, GOVERNOR | 096252-0790 | | 1C | | | 9310 | D0.65,2 PCS. |
| | | 12 | SLEEVE, GOVERNOR | 096252-1260 | ME736470 | 1C | B | 9310 | 9312 | D0.80 |
| | | 12 | SLEEVE, GOVERNOR | 096252-1270 | ME736823 | 1C | B | 9310 | | D0.85 |
| | | 12 | SLEEVE, GOVERNOR | 096252-1280 | ME736824 | 1C | B | 9310 | | D0.90 |
| | | 12 | SLEEVE, GOVERNOR | 096252-1530 | ME736826 | 1C | B | 9312 | | D0.95 |
| S | | 13 | WASHER, FLYWEIGHT | 096265-0030 | ME736319 | 01 | | | | ROUND TYPE |
| S | | 15 | WASHER, FLYWEIGHT | 096265-0020 | ME736320 | 01 | | | | T1.30 |
| | | 16 | NUT, GOVERNOR SHAF | 096254-0050 | ME736321 | 01 | | | | M10,L SCREW |
| | | 17 | SHAFT SUB-ASSY, GO | 096250-0030 | ME736468 | 01 | | | | W LST |
| | | 18 | O-RING | 949140-2930 | ME736323 | 01 | | | | ID 8 |
| | | 19 | BOLT, SOCKET | 096449-0110 | ME736324 | 07 | | | | M6,L16 |
| | | 20 | RING, GOVERNOR SLE | 096255-0020 | ME736325 | 01 | | | | |
| | | 21 | VALVE SUB-ASSY, SN | 096430-0150 | ME736326 | 04 | | | | |
| | | 22 | VALVE SUB-ASSY, DI | 096420-0510 | ME736327 | 04 | | | | |
| S | | 23 | SPRING, DELIVERY V | 096427-0010 | ME736328 | 04 | | | | |
| | | 24 | GASKET, DELIVERY V | 096426-0070 | ME736329 | 04 | | | | |
| S | | 26 | CAMPLATE SUB-ASSY, | 096230-0250 | MD627106 | 01 | | | | |
| S | | 28 | PLATE, PLUNGER, LW | 096245-0020 | ME736331 | 01 | | | | |
| S | | 29 | PLATE, PLUNGER, UP | 096244-0040 | ME736332 | 01 | | | | |
| | | 30 | SPRING, COUPLING | 096224-0040 | ME736333 | 01 | | | | |
| | | 31 | COUPLING | 096222-0020 | ME736334 | 01 | | | | |
| | | 32 | GEAR, GOVERNOR DRI | 096124-0030 | ME736335 | 01 | | | | |
| | | 33 | JOINT, RUBBER | 096126-0020 | ME736336 | 02 | | | | |
| | | 34 | WASHER, DRIVE SHAF | 096125-0010 | ME736337 | 01 | | | | |
| S | | 35 | COVER, FEED PUMP | 096147-0052 | ME736338 | 01 | | | | |
| | | 36 | KEY, WOODRUFF | 949130-0260 | ME736339 | 01 | | | | T3.980 |

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| S | M | Illust.No. | Part Name | DENSO P/N | Manu. P/N | QTY | I/C | Start | End | Remarks |
|---|---|------------|--------------------|-------------|-----------|-----|-----|-------|------|----------|
| | | 37 | KEY, WOODRUFF | 949130-0300 | ME736340 | 01 | | | | T4.023 |
| S | | 40 | SEAL, OIL | 096039-0040 | ME736342 | 01 | | | | |
| | | 41 | PISTON, TIMER | 096201-0290 | | 01 | | | | |
| | | 42 | SUB-PISTON, TIMER | 096213-0020 | ME736344 | 01 | | | | |
| | | 43 | PIN, TIMER SLIDE | 096205-0020 | ME736345 | 01 | | | | |
| | | 44 | STOPPER, TIMER SLI | 096216-0020 | ME736346 | 01 | | | 9510 | |
| | | 44 | STOPPER, TIMER SLI | 096216-0120 | ME736849 | 01 | A | 9510 | | L16.4 |
| | | 45 | CLIP, TIMER | 096211-0050 | ME736347 | 01 | | | 9510 | |
| | | 45 | CLIP, TIMER | 096211-0080 | ME736850 | 01 | A | 9510 | | L/ DITCH |
| | | 46 | COVER, TIMER | 096218-0040 | ME743594 | 01 | | | 9305 | |
| | | 46 | COVER, TIMER | 096218-0210 | | 01 | B | 9305 | | |
| | | 47 | COVER, TIMER | 096218-0270 | ME736353 | 01 | | | | |
| | | 48 | SPRING, TIMER, OUT | 096208-0130 | | 1C | | | 9305 | K2.3 |
| | | 48 | SPRING, TIMER, OUT | 096208-0140 | | 1C | | | 9305 | K2.1 |
| | | 48 | SPRING, TIMER, OUT | 096208-0390 | | 1C | | | 9305 | K1.9 |
| | | 48 | SPRING, TIMER, OUT | 096208-1390 | | 1C | B | 9305 | 9310 | K2.6 |
| | | 48 | SPRING, TIMER, OUT | 096208-1400 | | 1C | B | 9305 | 9310 | K2.8 |
| | | 48 | SPRING, TIMER, OUT | 096208-1750 | | 1C | B | 9305 | 9310 | K2.4 |
| | | 48 | SPRING, TIMER, OUT | 096208-0240 | | 1C | B | 9310 | 9312 | K3.2 |
| | | 48 | SPRING, TIMER, OUT | 096208-0250 | | 1C | B | 9310 | 9312 | K2.6 |
| | | 48 | SPRING, TIMER, OUT | 096208-0260 | | 1C | B | 9310 | 9312 | K2.9 |
| | | 48 | SPRING, TIMER, OUT | 096208-1390 | | 1C | B | 9312 | | K2.6 |
| | | 48 | SPRING, TIMER, OUT | 096208-1400 | | 1C | B | 9312 | | K2.8 |
| | | 48 | SPRING, TIMER, OUT | 096208-1770 | | 1C | B | 9312 | | K3.0 |
| | | 48 | SPRING, TIMER, OUT | 096208-1750 | | 1C | | 9702 | | K2.4 |
| | | 48 | SPRING, TIMER, OUT | 096208-1860 | | 1C | | 9702 | | K2.2 |
| | | 50 | O-RING | 949140-2960 | | 03 | | | 9310 | ID26.3 |
| | | 50 | O-RING | 949140-5820 | ME736359 | 03 | B | 9311 | 9508 | ID26.3 |
| | | 50 | O-RING | 096049-0400 | ME743600 | 03 | A | 9509 | | ID27.5 |
| S | | 51 | PLUG, DISTRIBUTIVE | 096417-0040 | ME736360 | 01 | | | | |
| | | 52 | BOLT, DISTRIBUTIVE | 096418-0020 | ME736361 | 01 | | | | M8,L19.7 |
| | | 53 | GASKET, DELIVERY V | 096426-0030 | ME736362 | 03 | | | 9703 | ID8.2,T1 |
| | | 53 | GASKET, DELIVERY V | 096426-0030 | ME736362 | 01 | | 9704 | | ID8.2,T1 |
| | | 54 | O-RING | 949140-2970 | ME736363 | 01 | | | 9607 | ID30 |
| | | 54 | O-RING | 096049-0510 | ME743620 | 01 | A | 9607 | | ID30 |
| S | | 55 | SHEET, PLUNGER SPR | 096247-0010 | ME736364 | 01 | | | | |
| | | 56 | GUIDE SUB-ASSY, PL | 096237-0010 | ME736365 | 02 | | | | |
| | | 57 | SPRING, PLUNGER | 096236-0040 | ME736366 | 02 | | | | K10 |
| | | 58 | SHEET, PLUNGER SPR | 096246-0010 | ME736367 | 02 | | | | |
| | | 60 | O-RING | 949140-2980 | ME736368 | 01 | | | | ID60 |
| | | 62 | SPRING, LEVER SUPP | 096279-0010 | ME736369 | 02 | | | | K1.03 |
| | | 63 | SMOKE SET SUB-ASSY | 096480-0010 | ME736370 | 01 | | | | |
| | | 63-1 | O-RING | 949140-2900 | ME736371 | 01 | | | 9607 | ID5 |
| | | 63-1 | O-RING | 096049-0470 | ME743622 | 01 | A | 9607 | | ID7.5 |

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|---|---|------------|--------------------|-------------|-----------|-----|-----|-------|------|-----------|
| | | 64 | NUT, HEXAGON | 90166-06051 | ME736372 | 01 | | | | M6,L5 |
| | | 67 | BOLT, SOCKET | 096449-0020 | ME736373 | 04 | | | | M6,L35 |
| | | 68 | GUIDE, RETURN SPRI | 096445-0140 | ME736832 | 01 | | | | MARK 14 |
| | | 70 | SCREW SUB-ASSY, OV | 096020-0030 | ME736376 | 01 | | | | W/FILTER |
| | | 71 | WASHER, AIR BLEEDE | 090241-0010 | ME702102 | 06 | | | | T1.6 |
| | | 73 | SCREW, COUNTERSUNK | 949002-0420 | ME736377 | 02 | | | | M4,L28 |
| | | 75 | O-RING | 096049-0300 | ME736378 | 01 | | | | ID 6.5 |
| | | 78 | SPRING, RETURN | 096444-0920 | ME736834 | 01 | | | | |
| | | 79 | SPRING, RETURN | 096444-0930 | ME736835 | 01 | | | | |
| | | 80 | LEVER SUB-ASSY, AD | 096435-4251 | | 1C | | | | MARK 425 |
| | | 80 | LEVER SUB-ASSY, AD | 096435-4261 | | 1C | | | | MARK 426 |
| | | 81 | GASKET, GOVERNOR C | 096446-0100 | ME736386 | 01 | | | | |
| S | | 82 | VALVE SUB-ASSY, RE | 096160-0030 | ME736387 | 01 | | | 9305 | |
| S | | 82 | VALVE SUB-ASSY, RE | 096160-0050 | ME743632 | 01 | B | 9305 | 9312 | |
| S | | 82 | VALVE SUB-ASSY, RE | 096160-0280 | MD627115 | 01 | B | 9312 | | |
| | | 82-1 | O-RING | 096049-0180 | ME736285 | 01 | | | | ID10 |
| | | 82-2 | O-RING | 949140-2920 | ME736388 | 01 | | | 9607 | ID7.5 |
| | | 82-2 | O-RING | 096049-0500 | ME743633 | 01 | A | 9607 | | ID7.5 |
| | | 84 | NUT, LOCK | 096342-0010 | ME702196 | 01 | | | | M6,L5 |
| | | 85 | SCREW, HOLLOW | 949180-0770 | ME736389 | 01 | | | | M12,L43.5 |
| | | 86 | BOLT, GOVERNOR LIN | 096269-0020 | ME736390 | 02 | | | | M8,L19 |
| | | 87 | NUT, CAP | 949055-0300 | ME736391 | 01 | | | | M12L16.5 |
| | | 88 | BOLT, SOCKET | 096449-0070 | ME736392 | 04 | | | | M6,L45 |
| | | 91 | WASHER, GOVERNOR T | 096273-0140 | ME736379 | 01 | | | | T0.5 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0010 | ME736393 | 2C | | | | T0.5 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0020 | ME736394 | 2C | | | | T0.8 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0030 | ME736395 | 2C | | | | T1.0 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0040 | ME736396 | 2C | | | | T1.2 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0050 | ME736397 | 2C | | | | T1.5 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0060 | ME736398 | 2C | | | | T1.8 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0070 | ME736399 | 2C | | | | T2.0 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0080 | ME736400 | 2C | | | | T0.9 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0090 | ME736401 | 2C | | | | T1.1 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0100 | ME736402 | 2C | | | | T1.3 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0110 | ME736403 | 2C | | | | T1.4 |
| | | 92 | SHIM, PLUNGER SPRI | 096248-0220 | ME736404 | 2C | | | | T1.6 |
| | | 93 | WASHER, GOVERNOR G | 096266-0100 | ME736405 | 1C | | | | T1.05 |
| | | 93 | WASHER, GOVERNOR G | 096266-0110 | ME736406 | 1C | | | | T1.25 |
| | | 93 | WASHER, GOVERNOR G | 096266-0120 | ME736407 | 1C | | | | T1.45 |
| | | 93 | WASHER, GOVERNOR G | 096266-0130 | ME736408 | 1C | | | | T1.65 |
| | | 93 | WASHER, GOVERNOR G | 096266-0140 | ME736409 | 1C | | | | T1.85 |
| | | 93 | WASHER, GOVERNOR G | 096266-0150 | ME736410 | 1C | | | | T1.55 |
| | | 93 | WASHER, GOVERNOR G | 096266-0160 | ME736411 | 1C | | | | T1.75 |
| | | 93 | WASHER, GOVERNOR G | 096266-0170 | ME736412 | 1C | | | | T2.05 |

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| S | M | Illust.No. | Part Name | DENSO P/N | Manu. P/N | QTY | I/C | Start | End | Remarks |
|---|---|------------|--------------------|-------------|-----------|-----|-----|-------|-----|---------|
| | | 93 | WASHER, GOVERNOR G | 096266-0180 | ME736413 | 1C | | | | T1.35 |
| | | 93 | WASHER, GOVERNOR G | 096266-0270 | ME736414 | 1C | | | | T1.3 |
| | | 93 | WASHER, GOVERNOR G | 096266-0280 | ME736415 | 1C | | | | T1.4 |
| | | 93 | WASHER, GOVERNOR G | 096266-0290 | ME736416 | 1C | | | | T1.5 |
| | | 93 | WASHER, GOVERNOR G | 096266-0300 | ME736417 | 1C | | | | T1.6 |
| | | 93 | WASHER, GOVERNOR G | 096266-0310 | ME743634 | 1C | | 9807 | | T1.15 |
| | | 93 | WASHER, GOVERNOR G | 096266-0320 | ME743635 | 1C | | 9807 | | T1.2 |
| | | 93 | WASHER, GOVERNOR G | 096266-0330 | ME743636 | 1C | | 9807 | | T1.7 |
| | | 93 | WASHER, GOVERNOR G | 096266-0340 | ME743637 | 1C | | 9807 | | T1.8 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0480 | ME736418 | 1C | | | | L3.8 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0490 | ME736419 | 1C | | | | L3.9 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0500 | ME736420 | 1C | | | | L4.0 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0510 | ME736421 | 1C | | | | L4.1 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0520 | ME736422 | 1C | | | | L4.2 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0530 | ME736423 | 1C | | | | L4.3 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0540 | ME736424 | 1C | | | | L4.4 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0550 | ME736425 | 1C | | | | L2.2 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0560 | ME736426 | 1C | | | | L2.3 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0570 | ME736427 | 1C | | | | L2.4 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0580 | ME736428 | 1C | | | | L2.5 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0590 | ME736429 | 1C | | | | L2.6 |
| | | 94 | PLUG, GOVERNOR SLE | 096256-0600 | ME736430 | 1C | | | | L2.7 |
| | | 95 | WASHER, TIMER SENS | 096214-0030 | | 2C | | | | T0.1 |
| | | 95 | WASHER, TIMER SENS | 096214-0040 | | 2C | | | | T0.2 |
| | | 95 | WASHER, TIMER SENS | 096214-0050 | | 2C | | | | T0.5 |
| | | 95 | WASHER, TIMER SENS | 096214-0060 | | 2C | | | | T0.6 |
| | | 95 | WASHER, TIMER SENS | 096214-0070 | | 2C | | | | T0.7 |
| | | 95 | WASHER, TIMER SENS | 096214-0080 | | 2C | | | | T0.8 |
| | | 95 | WASHER, TIMER SENS | 096214-0090 | | 2C | | | | T0.9 |
| | | 95 | WASHER, TIMER SENS | 096214-0100 | ME736839 | 2C | | | | T1.0 |
| | | 95 | WASHER, TIMER SENS | 096214-0110 | | 2C | | | | T1.2 |
| | | 95 | WASHER, TIMER SENS | 096214-0120 | | 2C | | | | T1.4 |
| | | 95 | WASHER, TIMER SENS | 096214-0130 | | 2C | | | | T1.6 |
| | | 95 | WASHER, TIMER SENS | 096214-0140 | | 2C | | | | T1.8 |
| | | 95 | WASHER, TIMER SENS | 096214-0150 | | 2C | | | | T2.0 |
| | | 95 | WASHER, TIMER SENS | 096214-0200 | | 2C | | 9402 | | T1.5 |
| | | 96 | COLLAR, SMOKE SET | 096448-0111 | ME736431 | 01 | | | | |
| | | 97 | SHIM, PLUNGER ADJU | 096406-0020 | ME736432 | 1C | | | | T1.9 |
| | | 97 | SHIM, PLUNGER ADJU | 096406-0170 | ME736433 | 1C | | | | T2.2 |
| | | 97 | SHIM, PLUNGER ADJU | 096406-0270 | ME736434 | 1C | | | | T2.4 |
| | | 97 | SHIM, PLUNGER ADJU | 096406-0420 | ME736435 | 1C | | | | T2.7 |
| | | 97 | SHIM, PLUNGER ADJU | 096406-0520 | ME736436 | 1C | | | | T2.9 |
| | | 105 | BOLT, HEXAGON, W/ | 949045-0210 | ME736437 | 02 | | | | M6,L62 |
| | | 108 | WIRE SUB-ASSY | 096045-0201 | MD627116 | 01 | | | | |

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|---|---|------------|--------------------|-------------|-----------|-----|-----|-------|------|------------|
| | | 109 | COVER SUB-ASSY, TI | 096210-0171 | | 01 | | | | ACSD |
| | | 110 | BRACKET, IDLE UP | 096438-2440 | | 01 | | | 9511 | |
| | | 110 | BRACKET, IDLE UP | 096438-3180 | | 01 | B | 9511 | | |
| | | 111 | BOLT, SOCKET | 096449-0130 | ME736283 | 01 | | | 0006 | M6,L14 |
| | | 111 | BOLT, SOCKET | 096449-0110 | ME736324 | 01 | A | 0007 | | M6,L16 |
| | | 112 | BOLT, SOCKET | 096449-0140 | ME736442 | 01 | | | | M8,L16 |
| | | 114 | BOLT, SOCKET | 096449-0100 | ME736443 | 02 | | | | M6,L10 |
| | | 116 | BOLT, SOCKET | 096449-0070 | ME736392 | 01 | | | | M6,L45 |
| | | 117 | PICKUP ASSY, TACHO | 076300-0310 | | 01 | | | | |
| | | 118 | BOLT, W/WASHER | 91518-06141 | ME736842 | 02 | | | | M6,L14 |
| | | 119 | O-RING | 096049-0190 | ME736444 | 01 | | | | ID14.8 |
| | | 121 | BRACKET, IDLE UP | 096438-0523 | ME736843 | 01 | | | | ACCEL WIRE |
| S | | 122 | FILTER, SUB-ASSY | 096530-0071 | ME736445 | 01 | | | | |
| | | 123 | NIPPLE, SWIVEL | 092217-0370 | | 01 | | | | |
| | | 124 | NIPPLE, SWIVEL | 092217-0380 | | 01 | | | | |
| | | 125 | BRACKET, IDLE UP | 096438-2320 | | 01 | | | | |
| | | 126 | WASHER | 096064-0110 | ME736446 | 01 | | | | |
| S | | 133 | VALVE SUB-ASSY, RE | 096160-0110 | MD627122 | 01 | | | | |
| | | 134 | COLLAR, SMOKE SET | 096448-0290 | MD627123 | 01 | | | | |
| | | 135 | BOLT, SOCKET | 096449-0151 | ME736456 | 02 | | | | M10,L14 |
| | | 137 | CLIP, CONNECTOR SU | 096029-1000 | | 01 | | | | |
| | | 138 | CLIP, CONNECTOR SU | 096029-0381 | MD627124 | 01 | | | | |
| | | 139 | SENSOR, ROTARY POS | 198500-0492 | MD620795 | 01 | | | | RPS |
| | | 140 | BRACKET SUB-ASSY, | 096471-0470 | | 01 | | | | |
| | | 144 | SCREW, W/WASHER | 91370-04121 | MF350745 | 02 | | | | M4,L12 |
| | | 145 | CAP RUBBER | 096468-0250 | ME743624 | 01 | | | | |
| | | 147 | E-RING | 90577-02000 | ME736460 | 01 | | | | D2 |
| S | | 148 | BEARING, BALL | 949100-2860 | ME736459 | 01 | | | | OD8 |
| | | 150 | CLIP, CONNECTOR SU | 096029-0651 | | 01 | | | | |
| | | 154 | NUT | 949056-1680 | ME736463 | 01 | | | | M6,L6.5 |
| | | 200 | GASKET, DELIVERY V | 096426-0130 | ME743647 | 02 | B | 9704 | | |

INJECTION PUMP TEST SPECIFICATIONS

096000-8123

| | | | | |
|---|------------------------------------|---|---|------------|
| INJECTION PUMP | 096000-812# (VE4/10F2250RND812) | | MANU-FACTURER | MITSUBISHI |
| Governor Type | Maximum-minimum speed | | ENGINE TYPE | 4D68T |
| Rated Voltage | 12V | | VEHICLE MODEL | GALANT |
| Rotation | Clockwise viewed from drive side | | Dimension (mm) MS : 1.40 – 1.50 | |
| Injection Order | A – B – C – D | | Dimension (mm) K : 3.20 – 3.40 | |
| Injection Interval | 90° ±30' | | Dimension (mm) KF : 5.20 – 5.40 | |
| 1. TEST CONDITIONS | | | | |
| 1) Nozzle : 093400-0540 (DN12SD12A) 4) Feed Pressure : 0.2 kgf/cm ² 2) Nozzle Opening Pressure : 145 – 155 kgf/cm ² 5) High Pressure Pipe : ø2 x ø6 x 840 mm 3) Test Oil : SAE J967 (ISO4113) 6) Fuel Temperature : 40 – 45°C (104 – 113°F) | | | | |
| NOTE: Apply 6 volts DC across the fuel cut solenoid during adjustment. | | | | |
| 2. PRE-ADJUSTMENT (at full lever position, boost pressure 500 mmHg) | | | | |
| | Pump Speed (rpm) | Fuel Delivery (cc/200st· 1cyl.) | Remarks | |
| Full Load | 1250 | 10.4 – 11.0 | By full load setting screw | |
| High Speed | 2500 | 4.8 – 6.0 | By max. speed setting screw | |
| Load Sensing Timer: Adjust the governor shaft so that the dimension "L" between the housing flange and the end of the governor shaft is about 2.5 mm. | | | | |
| 3. ADJUSTMENT OF PUMP INTERNAL PRESSURE (at full lever position, boost pressure 500 mmHg) | | | | |
| | Pump Speed (rpm) | Internal Pressure (kgf/cm²) | Remarks | |
| | 500 | 3.74 – 4.34 | By the regulating valve | |
| | 2250 | 8.35 – 8.95 | | |
| 4. OVERFLOW QUANTITY CHECK (at full lever position, boost pressure 500 mmHg) | | | | |
| | Pump Speed (rpm) | Overflow Quantity (cc/1000st) | Remarks | |
| | 2250 | 167.0 – 364.0 | The overflow valve belonging to the pump should be used for checking. | |
| 5. ADJUSTMENT OF TIMER (at full lever position, boost pressure 500 mmHg) | | | | |
| Pump Speed (rpm) | 750 | 1250 | 1750 | 2150 |
| Piston Travel (mm) | 1.7 – 2.7 | 3.85 – 4.85 | 6.0 – 7.0 | 7.7 – 8.6 |
| NOTE: Hysteresis at each pump speed is less than 0.3 mm. | | | | |

| 6. ADJUSTMENT OF FUEL DELIVERY | | | | | |
|--|-----------------------|----------------------------------|------------------------------|---|--------------------------------|
| Lever Position | Pump speed (rpm) | Fuel Delivery (cc/200st, 1cyl) | Max. Spread In Delivery (cc) | Boost Pressure Absolute Pressure (mmHg) | Remarks |
| FULL | 1250 | A = 10.6 – 10.8 | 0.4 | 500 | By full load setting screw |
| | 2500 | 5.0 – 5.8 | — | 500 | By max. speed setting screw |
| | 2400 | 7.0 – 9.0 | — | 500 | Lever position : full/ idle |
| | 2900 | Less than 1.4/ Less than 0.2 | — | 500 | |
| | 100 | 10.60 – 13.00 | 0.8 | 0 | By governor sleeve plug |
| | 2250 | 9.65 – 10.35 | 0.5 | 500 | |
| — | — | — | — | — | |
| 7. SETTING OF LOAD SENSING TIMER (at full lever position, boost pressure 500 mmHg) | | | | | |
| | Pump Speed (rpm) | Fuel Delivery (cc/200st, 1cyl) | Remarks | | |
| Start of Load Sensing | 1250 | Full-load delivery – (2.4 – 3.2) | By governor shaft | | |
| End of Pressure Drop | 1250 | 6.1 – 6.5 | Check | | |
| CHECK POINTS 1. Piston Travel at End of Pressure Drop : 1.9 – 2.7 mm (pump speed 1250 rpm) 2. Dimension of Governor Shaft : L = 0.3 – 2.0 mm | | | | | |
| 8. SETTING OF ADJUSTING LEVER AT LOW SPEED | | | | | |
| Lever Position | Pump Speed (rpm) | Fuel Delivery (cc/500st, 1cyl) | Max. Spread In Delivery (cc) | Remarks | |
| IDLE | 475 | B = 0.25 – 1.0 | — | Presetting | |
| | 400 | B + (1.25 – 3.75) | — | | |
| | 500 | C = 0.25 – 0.75 | — | Presetting | |
| | 500 | C + (0.75 – 1.25) | — | Dash pot adjustment | |
| | 375 | D = 3.50 – 5.00 | 1.0 | Lever setting | |
| | 1000 | Less than 0.50 | — | Lever position : Idle | |
| NOTE : Do the adjustment in the order from above. | | | | | |
| 9. ADJUSTMENT OF BOOST COMPENSATOR | | | | | |
| Pump Speed (rpm) | Boost Pressure (mmHg) | Fuel Delivery (cc/200st, 1cyl) | Remarks | | |
| 750 | 0 | 6.7 – 7.1 | By eccentric cam | | |
| 750 | 250 | 8.1 – 8.5 | By boost compensator spring | | |
| 750 | 350 | 8.9 – 9.7 | | | |
| 1250 | 938 | Less than (A + 0.1) | | | |
| 10. ADJUSTMENT OF T.C.V. (with no power supply to T.C.V.) | | | | | |
| | | | | N.A. : Not Applicable | |
| Pump Speed (rpm) | Boost Pressure (mmHg) | Piston Stroke (mm) | | | |
| N.A. | N.A. | N.A. | | | |

INJECTION PUMP TEST SPECIFICATIONS

096000-8123

| | | | | |
|--|-------------------------|--|---|------------------------------|
| 11. ADJUSTMENT OF THROTTLE POSITION SENSOR (Applying 5.0 ±0.005V to sensor.) | | | | N.A. : Not Applicable |
| | Pump Speed (rpm) | Condition | | Sensor Output Voltage |
| Set point | N.A. | N.A. | | N.A. |
| Check point | 0 0 | Lever Position : Full Lever Position : Idle | | 3.20 – 4.20 0.35 – 0.40 |
| 12. CHARACTERISTIC OF A.C.S.D. | | | | |
| Lever Position | Pump Speed (rpm) | Fuel Temperature (°C) | Measuring Value | Remarks |
| IDLE | 375 | 24 – 26 | Piston Travel (mm) : 0.3 – 0.5 | |
| | 375 | 24 – 26 | Idle-up Quantity (cc/500st) : D + (1.5 – 2.0) | |
| 13. ADJUSTMENT OF POWER CONTROL (Adjustment should be done while the power control lever is in contact with the stopper.) | | | | N.A. : Not Applicable |
| Lever Position | Pump Speed (rpm) | Boost Pressure (mmHg) | Fuel Delivery (cc/200st. 1cyl) | Remarks |
| FULL | N.A. | N.A. | N.A. | By stopper screw |
| 14. SETTING OF DIAPHRAGM FOR HEATER | | | | N.A. : Not Applicable |
| Lever Position | Pump Speed (rpm) | Fuel Delivery (cc/200st. 1cyl) | Boost Pressure To Diaphragm (mmHg) | Remarks |
| IDLE | N.A. | N.A. | N.A. | |
| 15. FINAL CHECK AFTER ADJUSTMENT | | | | |
| <p>(1) Range of lever angle between idle and full lever position is 39° ±5°.</p> <p>(2) Resistance of pick-up tachometer must be 1300 – 1600 ohms.</p> | | | | |