



## PARTS MANUAL

## COMPRESSOR MODEL

## AIRSOURCE PLUS - IR

BEGIN with SERIAL NUMBER **352301**



This manual contains important safety information.

Do not destroy this manual.

This manual must be available to the personnel who operate and maintain this machine.



P.O. Box 868 - 501 Sanford Ave  
Mocksville, N.C. 27028

Book 22546980 (02/05)  
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## **Section - Parts Ordering**



## **GENERAL**

This publication, which contains an illustrated parts breakdown, has been prepared as an aid in locating those parts which may be required in the maintenance of the unit. Always insist on genuine Ingersoll-Rand Company parts for your compressor.

**Ingersoll-Rand Company can bear no responsibility for injury or damages resulting directly from the use of non-approved repair parts.**

Ingersoll-Rand Company service facilities and parts are available worldwide. Consult local yellow pages or visit: [www.portablepower.irco.com](http://www.portablepower.irco.com).

Special order parts may not be included in this manual. Contact the Mocksville Parts Department with the unit serial number for assistance with these special parts.

### **Description**

The illustrated parts breakdown illustrates and lists the various assemblies, subassemblies and detailed parts which make up this particular machine. This covers the standard models and the more popular options that are available.

In referring to the rear, the front or to either side of the unit, always consider the drawbar end of the unit as the front.

Standing at the rear of the unit facing the drawbar (front) will determine the right and left sides.

### **Fasteners**

Both SAE/inch and ISO/metric hardware have been used in the design and assembly of these units. In the disassembly and reassembly of parts, extreme care must be taken to avoid damaging threads by the use of wrong fasteners.

### **How To Order**

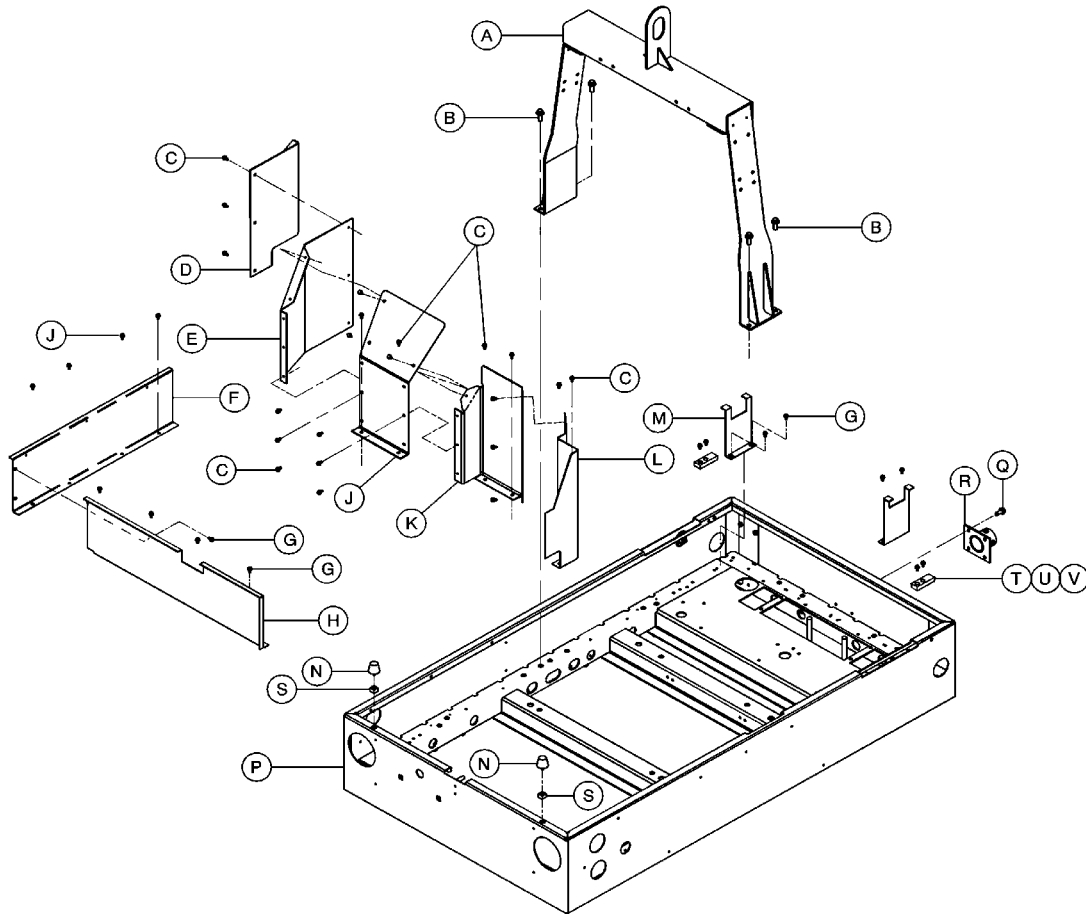
Always specify the model and serial number of the unit.

Specify the part number and description.

## **Section A - COMPRESSOR PARTS**



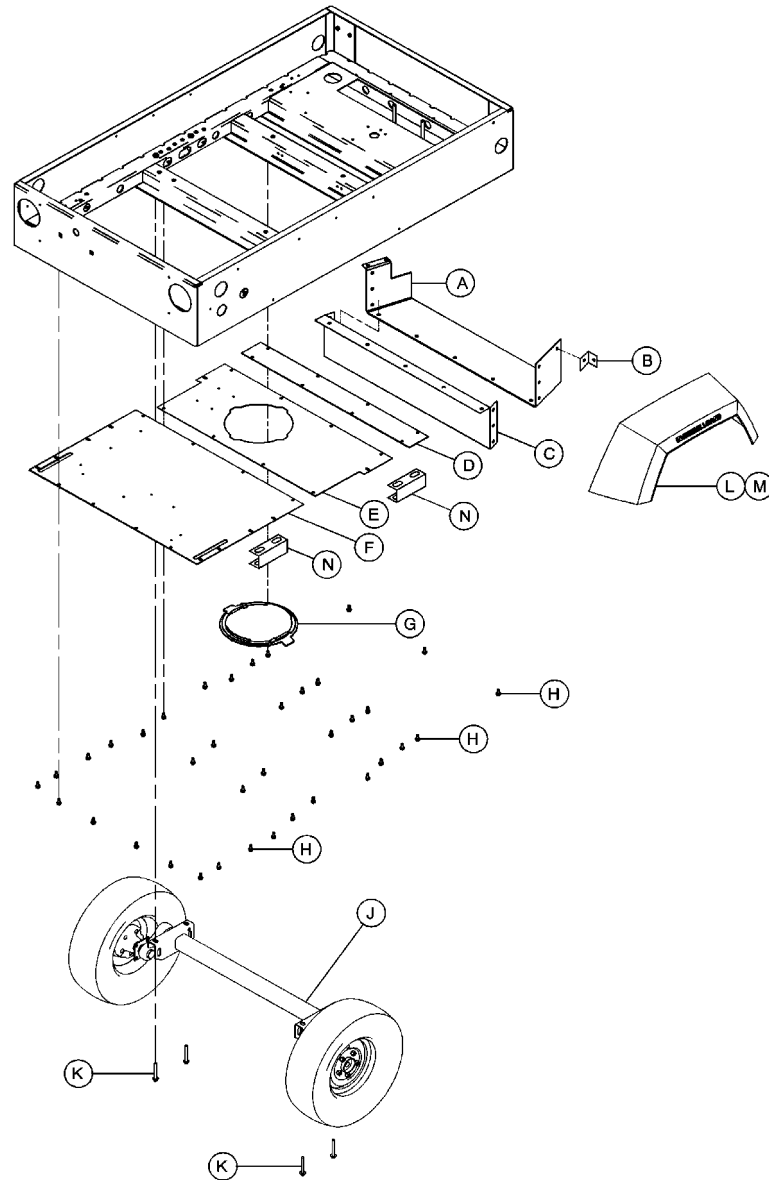
**FRAME & LIFTING BAIL ASSEMBLY**  
**FRAME & LIFTING BAIL ASSEMBLY**



22546964\_001\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                        | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------------|-----|------------------|
| A    | 36879023  | NUT, HEX FLANGE HD M12-1.75        | 4   |                  |
| B    | 22377485  | LIFTING BAIL                       | 2   |                  |
| C    | 36888055  | SCREW, HEX FLANGE HD M12-1.75 X 30 | 8   |                  |
| D    | 22378087  | EYE, LIFTING                       | 1   |                  |
| E    | 36797652  | SCREW, TAPPING M06-1.0 X 12 TAN    | 25  |                  |
| F    | 22528210  | BAFLE, TOOL BOX FRONT              | 1   |                  |
| G    | 22560767  | GUARD, TOOL BOX SIDE               | 1   |                  |
| H    | 22535942  | GUARD, TOOL BOX FRAME SIDE         | 1   |                  |
| J    | 22538512  | SCREW, TAPPING M06-1.0 X 12 BLACK  | 14  |                  |
| K    | 22535959  | GUARD, TOOL BOX REAR               | 1   |                  |
| L    | 22560791  | GUARD, TOOL BOX COVER              | 1   |                  |
| M    | 22560775  | GUARD, TOOL BOX MIDDLE             | 1   |                  |
| N    | 22560783  | GUARD, TOOL BOX CURB SIDE          | 1   |                  |
| P    | 22538367  | GUARD, LIGHT                       | 2   |                  |
| Q    | 35279025  | SCREW, TAPPING M08-1.25 X 20       | 4   |                  |
| R    | 36796068  | TUBE, JACK MOUNTING                | 1   |                  |
| S    | 22330294  | FRAME                              | 1   |                  |
| T    | 22605851  | BLOCK, CANOPY STOP                 | 2   |                  |
| U    | 36771178  | SCREW, HEX M06-1.0 X 30            | 4   |                  |
| V    | 36898104  | NUT, HEX FLANGE M06-1.0            | 4   |                  |

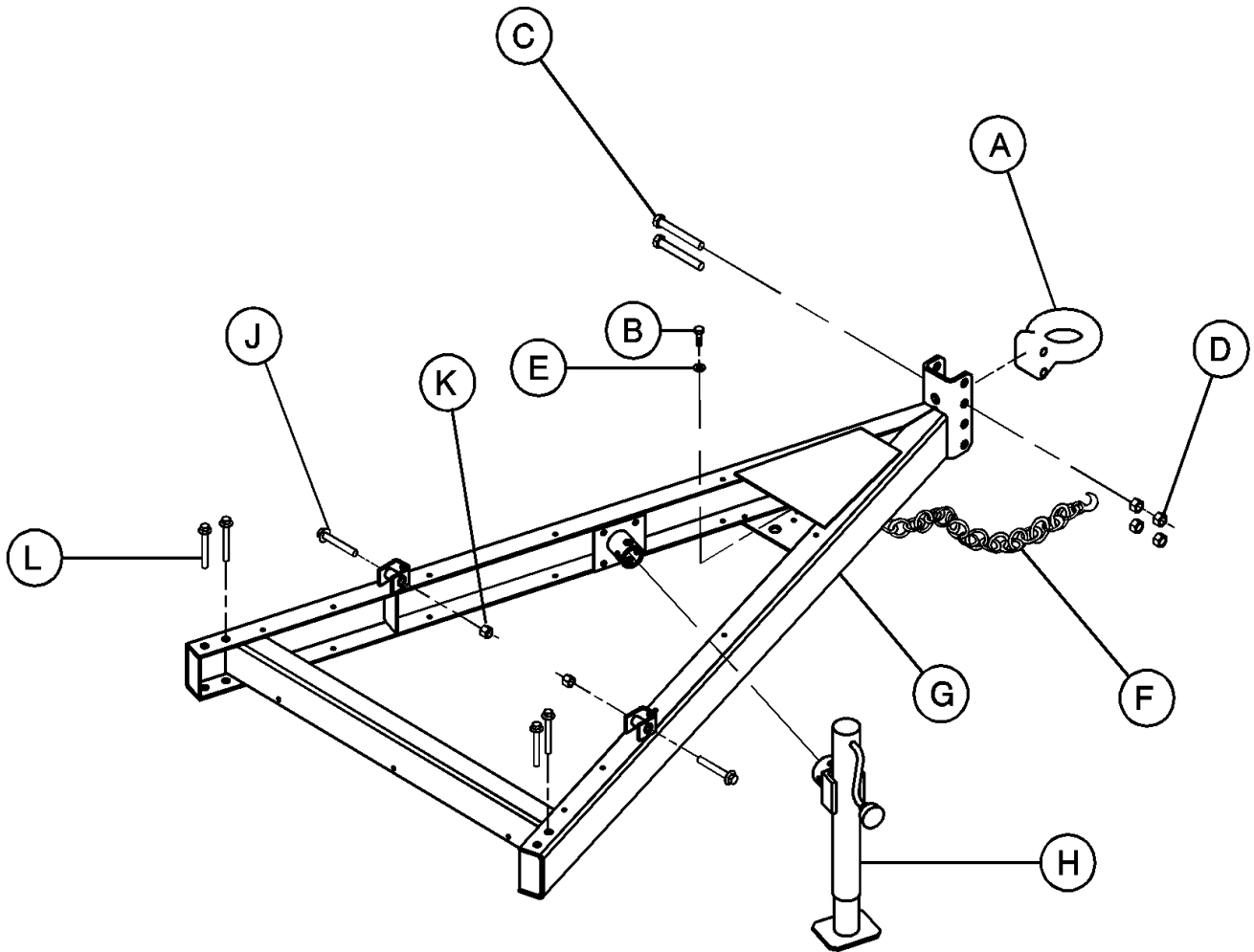
**FRAME & BELLY PAN ASSEMBLY**  
**FRAME & BELLY PAN ASSEMBLY**



2249691-002\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                        | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------------|-----|------------------|
| A    | 22585459  | BOX, EXHAUST                       | 1   |                  |
| B    | 22585442  | BAFFLE, EXHAUST                    | 1   |                  |
| C    | 22585467  | BRACKET, EXHAUST                   | 1   |                  |
| D    | 22337877  | PAN, FRONT BELLY                   | 1   |                  |
| E    | 22337869  | PAN, MIDDLE BELLY                  | 1   |                  |
| F    | 22337851  | PAN, REAR BELLY                    | 1   |                  |
| G    | 36880623  | COVER, FLEXABLE                    | 1   |                  |
| H    | 22538490  | SCREW, TAPPING M08-1.25 X20        | 54  |                  |
| J    | 22542096  | RUNNING GEAR                       | 1   |                  |
| K    | 36879492  | SCREW, HEX FLANGE HD M12-1.75 X 25 | 4   |                  |
| L    | 36877579  | FENDER                             | 2   |                  |
| M    | 92368687  | SCREW, TAPPING M06-1.0 X 14        | 10  |                  |
| N    | 22597561  | BRACKET, SHIPPING                  | 4   |                  |

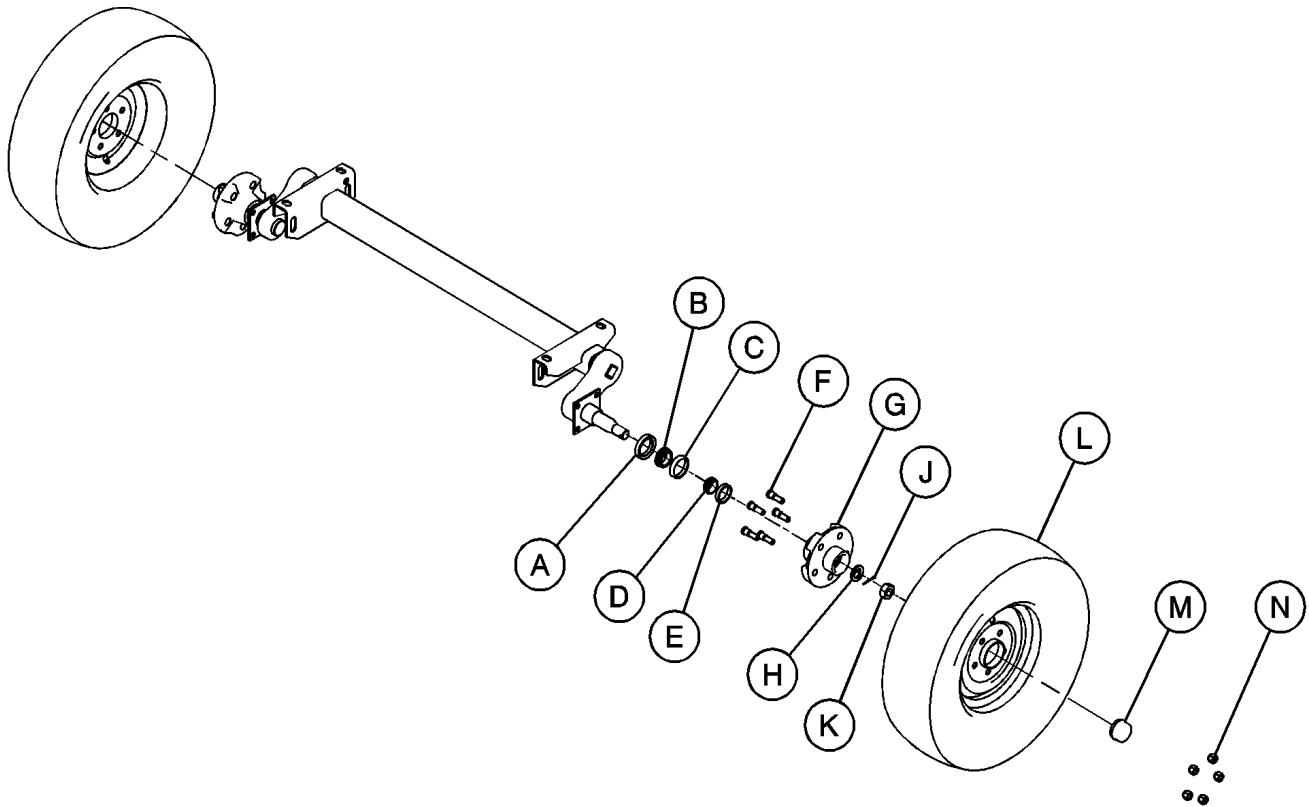
DRAWBAR ASSEMBLY  
DRAWBAR ASSEMBLY



22546964\_003\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                       | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------------|-----|------------------|
| A    | 22507008  | PLATE, DRAWBAR                    | 1   |                  |
| B    | 35279025  | SCREW, TAPPING M08-1.25 X20       | 13  |                  |
| C    | 35376094  | SCREW, HEX M16-2.0 X 120          | 2   |                  |
| D    | 35605187  | EYE, 3" PINTEL                    | 1   |                  |
| E    | 96701750  | NUT, HEX M16-2.0                  | 4   |                  |
| F    | 95934907  | WASHER, FLAT 7/16" X 1.0"         | 2   |                  |
| G    | 22144521  | CHAIN/HOOK ASM.                   | 2   |                  |
| H    | 22271696  | DRAWBAR ASM.                      | 1   |                  |
| J    | 36923415  | JACK ASM.                         | 1   |                  |
| K    | 96747282  | SCREW, HEX FLANGE HD M14-2.0 X 90 | 2   |                  |
| L    | 96728555  | NUT, NYLOC M14-2.0                | 2   |                  |
| M    | 96747290  | SCREW, HEX FLANGE M12-1.75 X 90   | 4   |                  |
| N    | 22514996  | BOX, EXHAUST                      | 1   |                  |

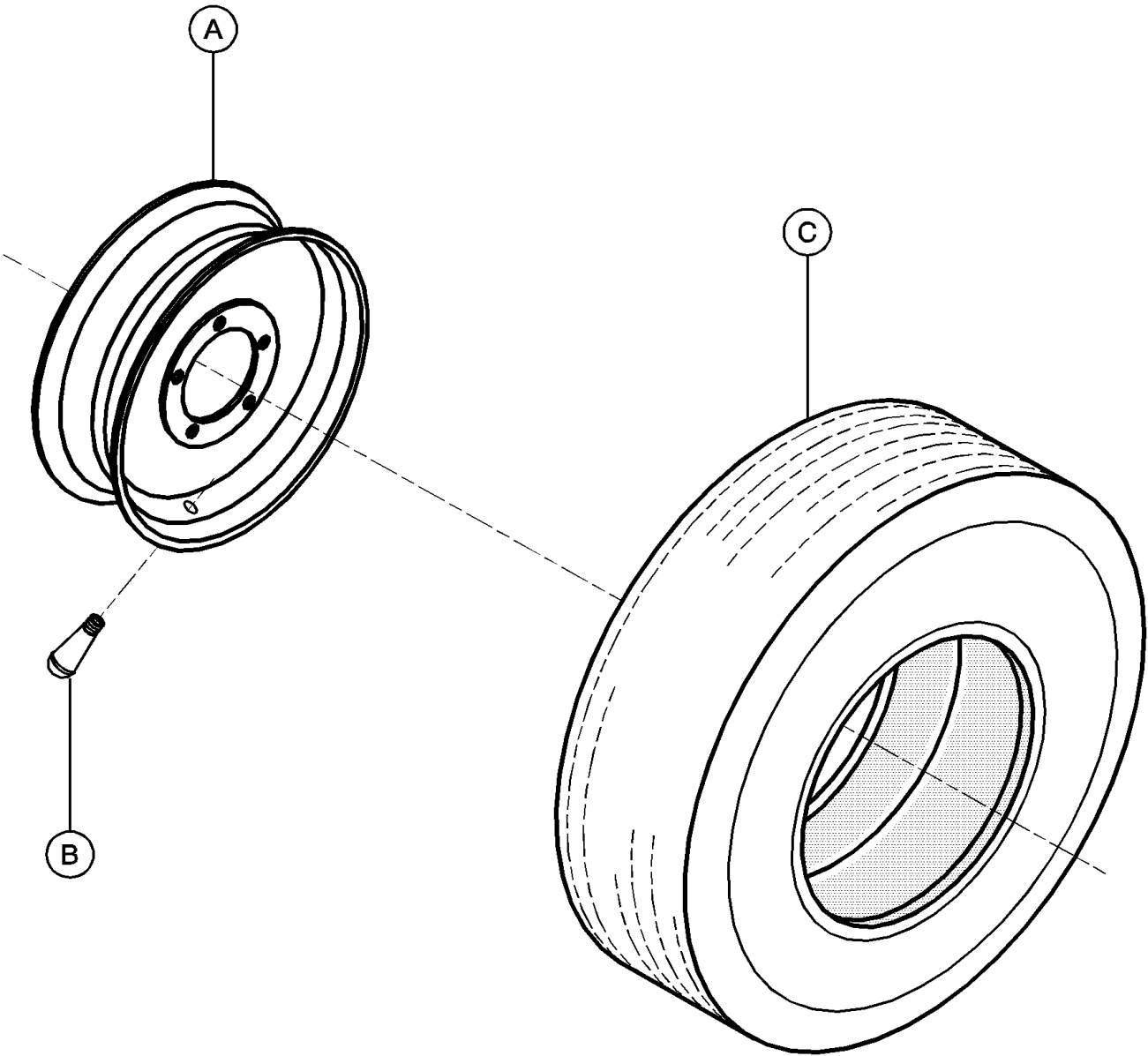
RUNNING GEAR  
RUNNING GEAR



22546964\_004\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION         | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------|-----|------------------|
| A    | 35391101  | SEAL, GREASE        | 2   |                  |
| B    | 35361864  | CONE, INNER BEARING | 2   |                  |
| C    | 35361872  | CUP, INNER BEARING  | 2   |                  |
| D    | 35315191  | CONE, OUTER BEARING | 2   |                  |
| E    | 35315183  | CUP, OUTER BEARING  | 2   |                  |
| F    | 35361898  | STUD, WHEEL         | 10  |                  |
| G    | 36848158  | HUB w/ CUPS         | 2   |                  |
| H    | 35315209  | WASHER, SPINDEL     | 2   |                  |
| J    | 35315225  | PIN, COTTER         | 2   |                  |
| K    | 35315217  | NUT, SPINDLE        | 2   |                  |
| L    | 36073559  | TIRE & WHEEL ASM.   | 2   |                  |
| M    | 35391127  | CAP, GREASE/DUST    | 2   |                  |
| N    | 35315274  | NUT, WHEEL LUG      | 10  |                  |

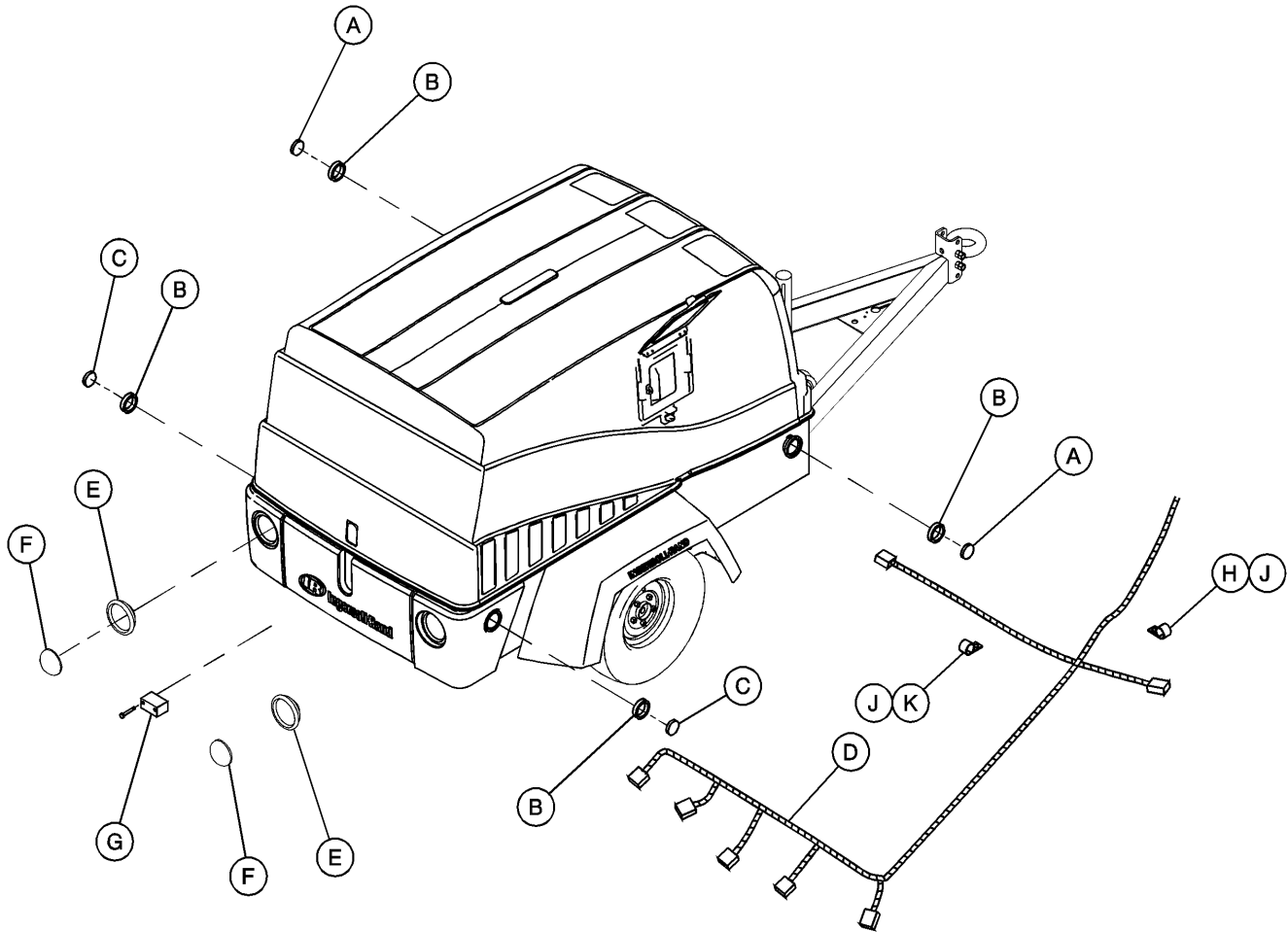
15" TIRE & WHEEL ASSEMBLY  
15" TIRE & WHEEL ASSEMBLY



22546964\_005\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION       | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------|-----|------------------|
| A    | 35277706  | WHEEL, 15 X 6JJ   | 1   |                  |
| B    | 35282565  | STEM, VALVE       | 1   |                  |
| C    | 22246276  | TIRE, ST205/75D15 | 1   |                  |

TAIL LIGHT WIRING  
TAIL LIGHT WIRING

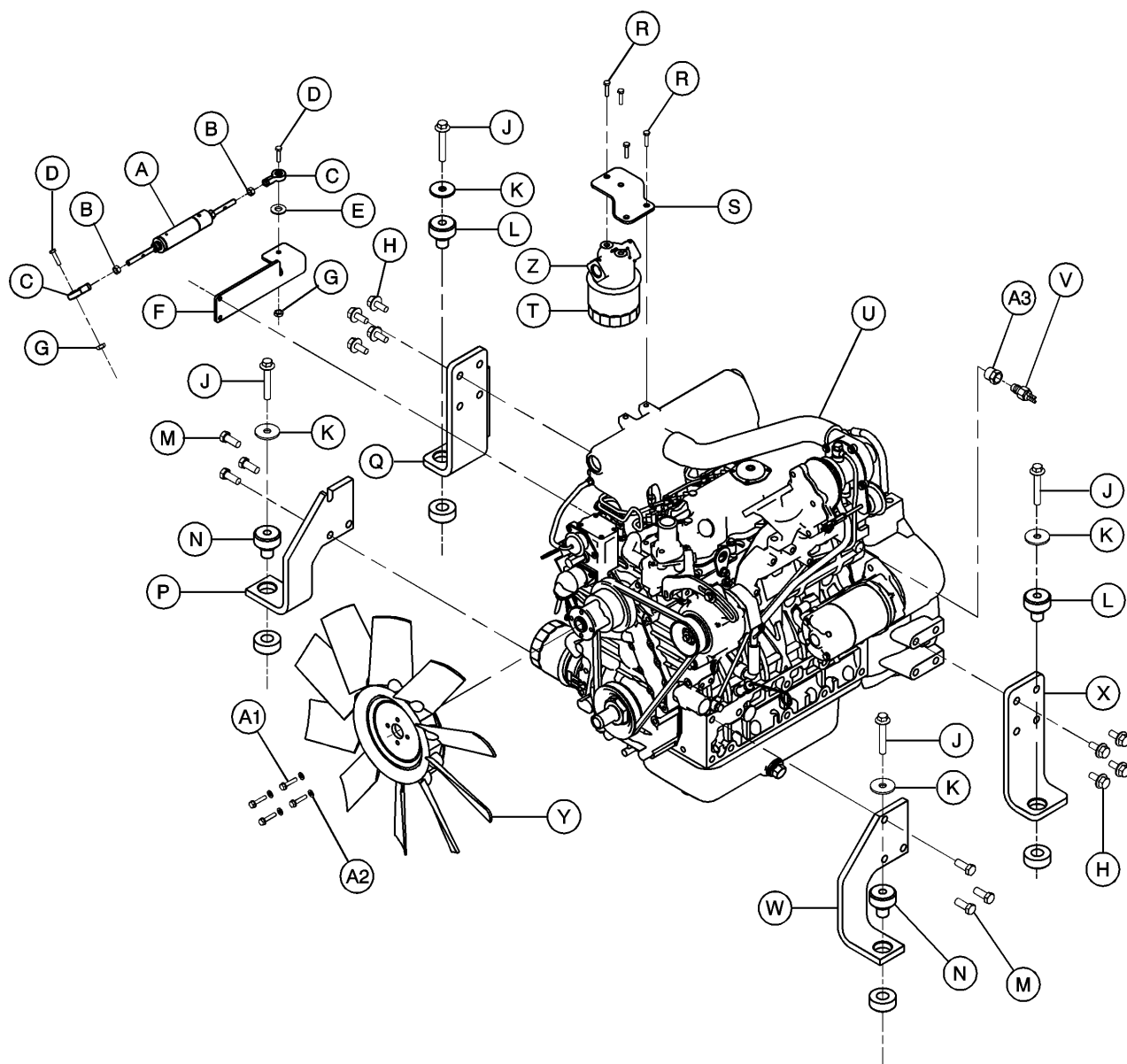


22546964\_006\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                  | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------|-----|------------------|
| A    | 35367051  | LAMP, AMBER CLEARANCE        | 2   |                  |
| B    | 36893734  | GROMMET, CLEARANCE LIGHT     | 4   |                  |
| C    | 35367044  | LAMP, RED CLEARANCE          | 2   |                  |
| D    | 22515027  | HARNESS, 2 LIGHT             | 1   |                  |
| E    | 36787968  | GROMMET, TAIL LIGHT          | 2   |                  |
| F    | 36788081  | LAMP, COMBO TAIL             | 2   |                  |
| G    | 54726468  | LIGHT, LICENSE               | 1   |                  |
| H    | 35253038  | CLAMP, SUPPORT 3/8"          | 6   |                  |
| J    | 22538490  | SCREW, TAPPING M08-1.25 X 20 | 10  |                  |
| K    | 36853174  | CLAMP, SUPPORT 1/4 "         | 3   |                  |

# ENGINE MOUNTING

## ENGINE MOUNTING

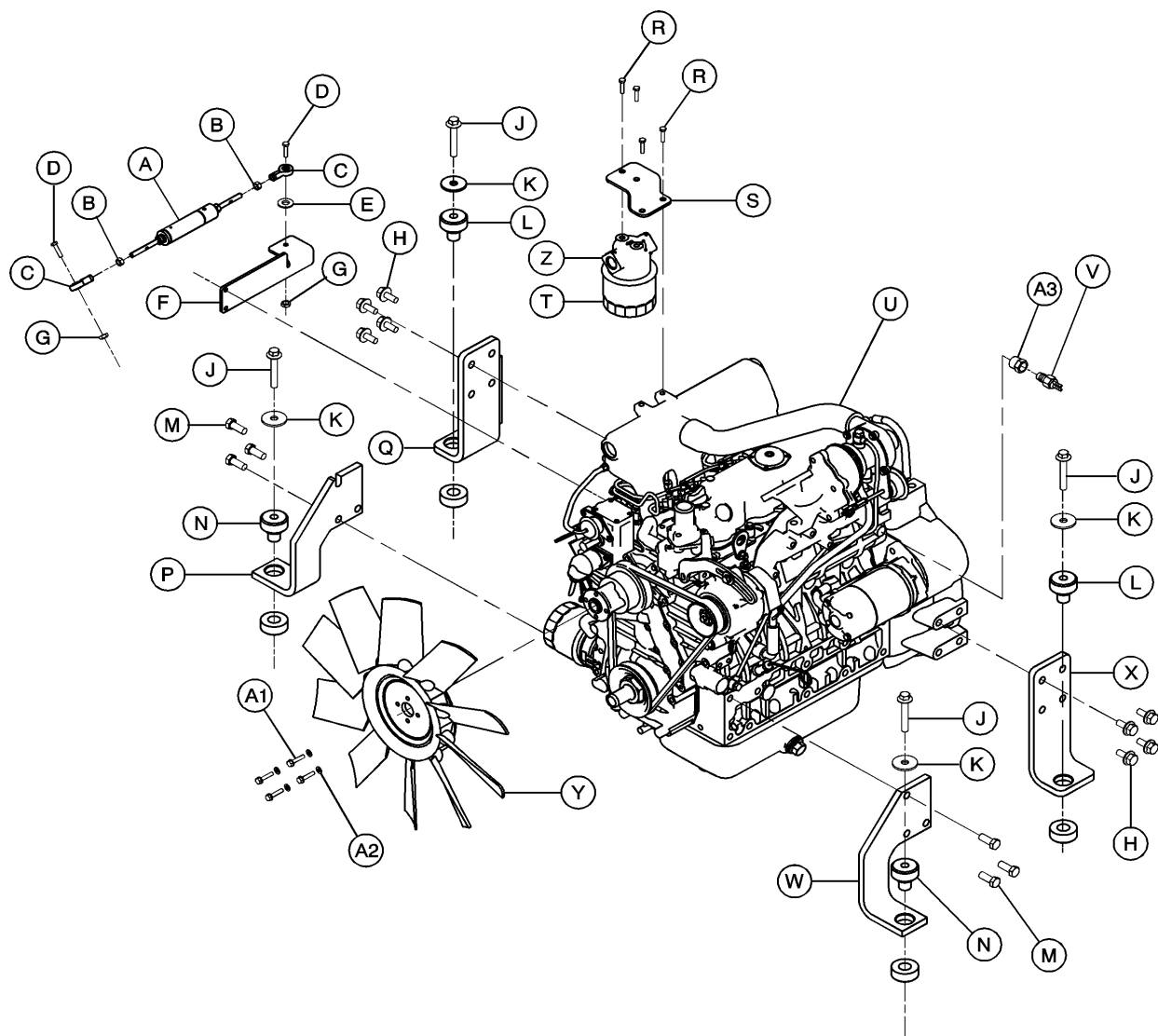


22546964\_007\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                     | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------------------|-----|------------------|
| A    | 35592435  | CYLINDER, AIR                   | 1   |                  |
| B    | 95935086  | NUT, HEX JAM 5/16-24            | 2   |                  |
| C    | 35328467  | BEARING, RODEND                 | 2   |                  |
| D    | 96701461  | SCREW, HEX M06-1.0 X 25         | 2   |                  |
| E    | 95935029  | WASHER, 1/4" FLAT               | 1   |                  |
| F    | 22452668  | BRACKET, SPEED CONTROL          | 1   |                  |
| G    | 36769032  | NUT, HEX LOCKING M06-1.0        | 2   |                  |
| H    | 36881712  | SCREW, HEX FLANGE 1/2 -13x 1.0" | 8   |                  |
| J    | 96747225  | SCREW, HEX FLANGE M12-1.75 X 70 | 4   |                  |
| K    | 54429295  | WASHER, SNUBBING                | 4   |                  |
| L    | 22429666  | ISOLATOR                        | 2   |                  |
| M    | 96729595  | SCREW, HEX M12-1.25 X 30        | 6   |                  |

# ENGINE MOUNTING

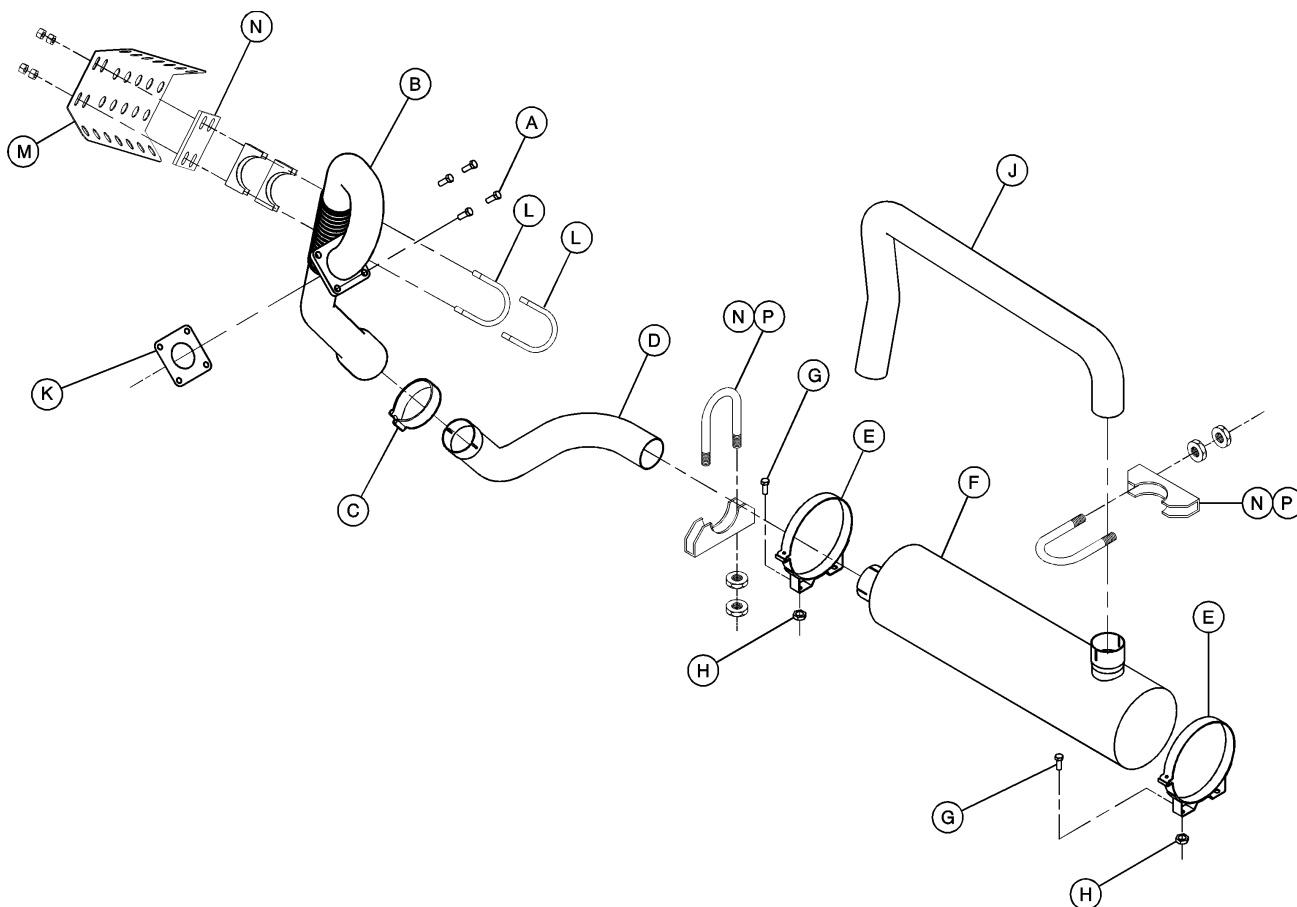
## ENGINE MOUNTING



22546964\_007\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                         | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------------------------|-----|------------------|
| N    | 22429641  | ISOLATOR                            | 2   |                  |
| P    | 22414940  | BRACKET, ENG FRT MOUNT CRBSD        | 1   |                  |
| Q    | 22377105  | BRACKET, ENG REAR MOUNT CRBSD       | 1   |                  |
| R    | 96728571  | SCREW, HEX FLANGED LOCK M6-1.0 X 25 | 4   |                  |
| S    | 22500193  | BRACKET, OIL FILTER                 | 1   |                  |
| T    | 22496905  | ELEMENT, 4IRX3 N&T OIL FILTER       | 1   |                  |
| U    | 22449573  | ENGINE, 4IRX3T                      | 1   |                  |
| V    | 36878379  | SWITCH, PRESSURE 12PSI              | 1   |                  |
| W    | 22414932  | BRACKET, ENG FRT MOUNT STSD         | 1   |                  |
| X    | 22376719  | BRACKET, ENG REAR MOUNT STSD        | 1   |                  |
| Y    | 22495857  | FAN                                 | 1   |                  |
| Z    | 22568406  | COVER, OIL FILTER                   | 1   |                  |
| A1   | 96706817  | SCREW, HEX M06-1.0 X 60             | 4   |                  |
| A2   | 95935029  | WASHER, FLAT                        | 4   |                  |
| A3   | 96746334  | ADAPTER, 1/8BSPT X 1/8NPT           | 1   |                  |

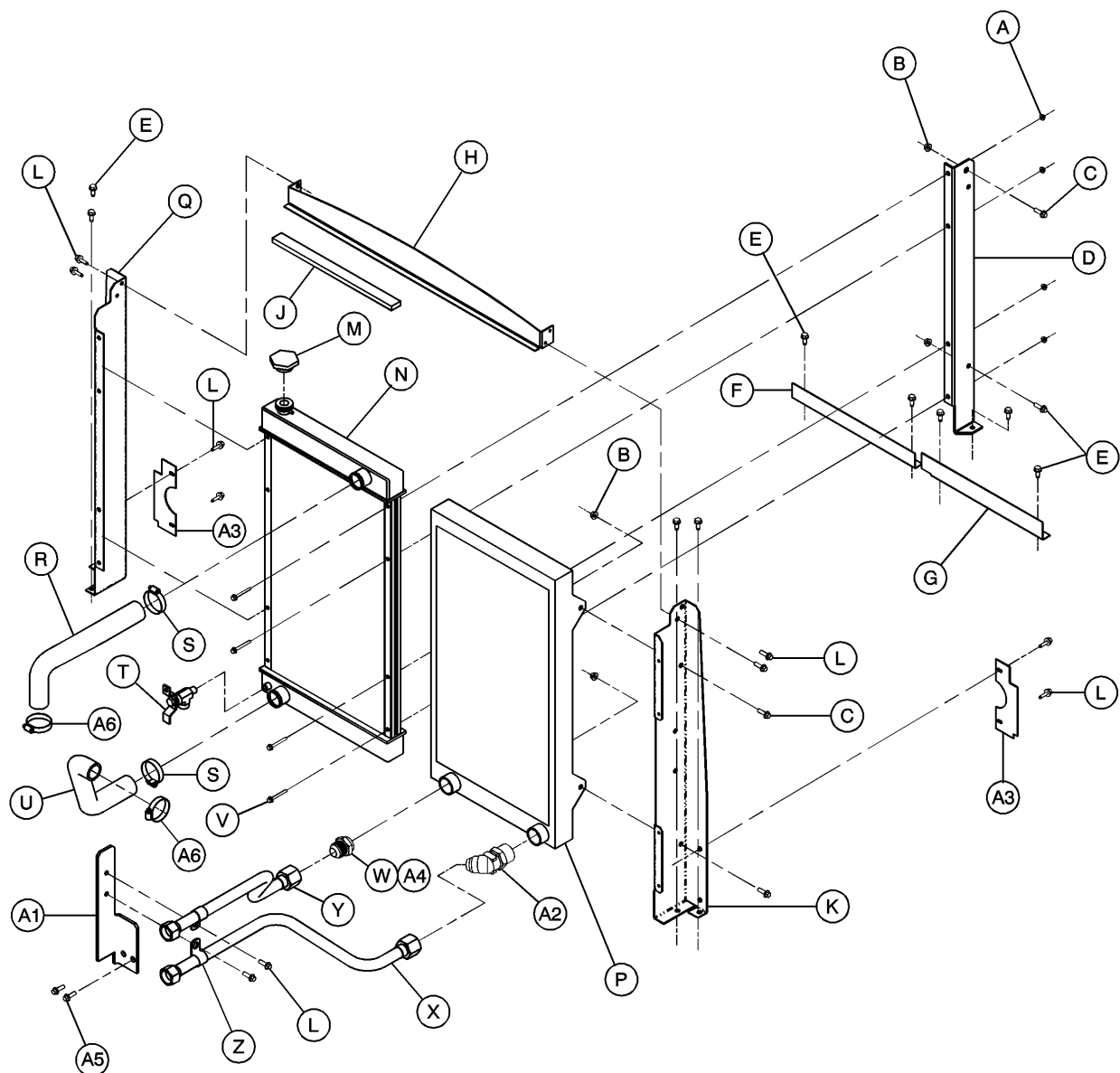
ENGINE EXHAUST  
ENGINE EXHAUST



22546964\_008\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                    | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------------|-----|------------------|
| A    | 96702055  | SCREW, HEX M08-1.25 X 20       | 4   |                  |
| B    | 22433783  | TUBE, EXHAUST                  | 1   |                  |
| C    | 35296060  | CLAMP, EXHAUST SEAL 2.5"       | 3   |                  |
| D    | 22378467  | TUBE, EXHAUST                  | 1   |                  |
| E    | 35585009  | BAND, AIR CLR MTG              | 2   |                  |
| F    | 22584015  | MUFFLER                        | 1   |                  |
| G    | 36889608  | SCREW, HEX FLANGE M8-1.25 X 25 | 4   |                  |
| H    | 36881886  | NUT, HEX FLANGE M8-1.25        | 4   |                  |
| J    | 22500540  | TUBE, TAILPIPE                 | 1   |                  |
| K    | 22568422  | GASKET, EXHAUST PIPE           | 1   |                  |
| L    | 35192178  | CLAMP, SADDLE                  | 2   |                  |
| M    | 22539423  | SHIELD, HEAT                   | 1   |                  |
| N    | 96746334  | ADAPTER, 1/8BSPT X 1/8NPT      | 1   |                  |

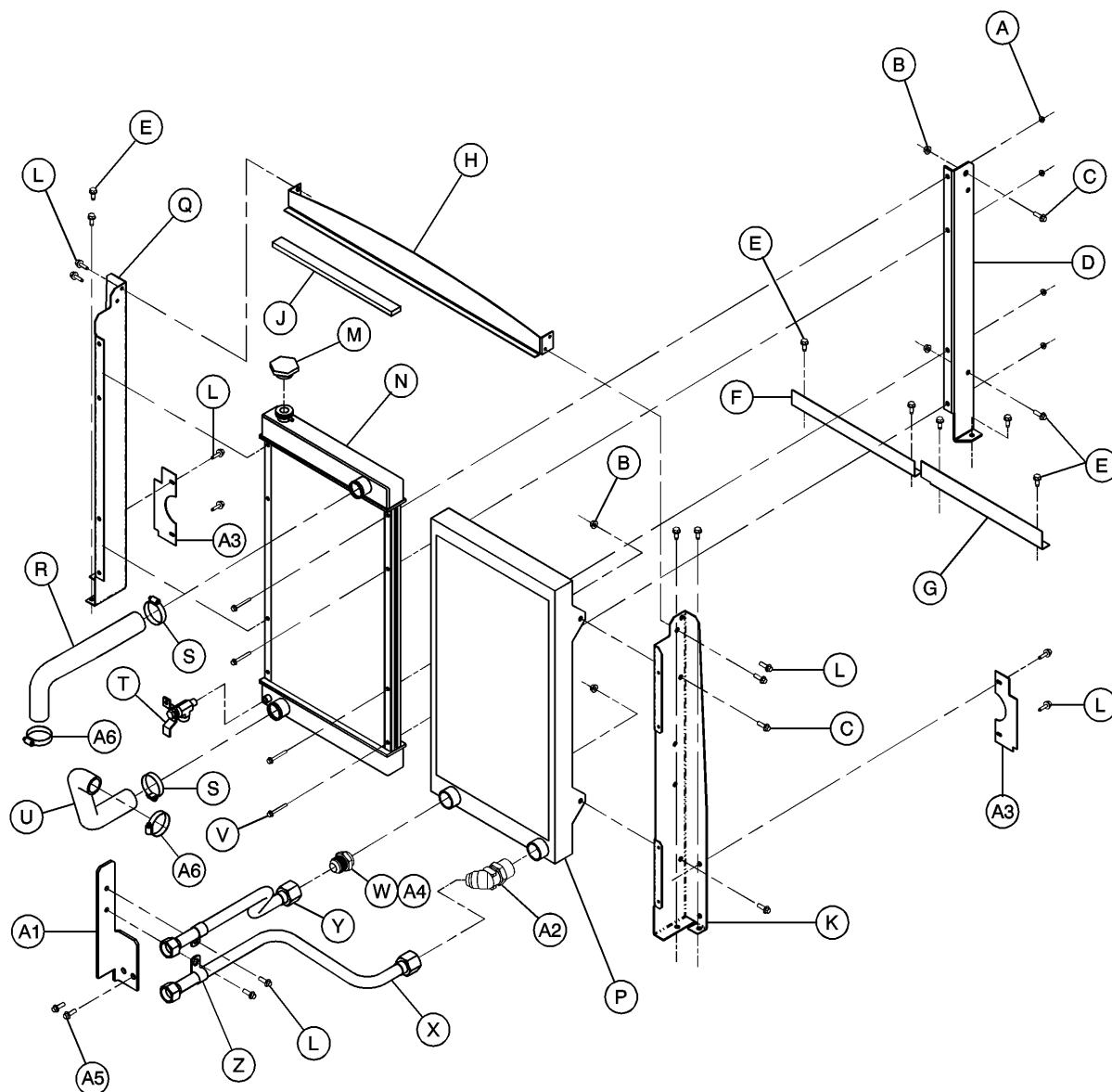
COOLING COMPLETE  
COOLING COMPLETE



22546964\_009\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                    | QTY   | DIMENSIONS/NOTES |
|------|-----------|--------------------------------|-------|------------------|
| A    | 36898104  | NUT, HEX FLANGE M06-1.0        | 4     |                  |
| B    | 36881886  | NUT, HEX FLANGE M8-1.25        | 4     |                  |
| C    | 36889608  | SCREW, HEX FLANGE M8-1.25 X 25 | 4     |                  |
| D    | 22489660  | SUPPORT, RADIATOR              | 1     |                  |
| E    | 35279025  | SCREW, TAPPING M08-1.25 X20    | 6     |                  |
| F    | 22487615  | BAFFLE, RADIATOR BOTTOM        | 1     |                  |
| G    | 22487607  | BAFFLE, COOLER BOTTOM          | 1     |                  |
| H    | 22489355  | BAFFLE, TOP                    | 1     |                  |
| J    | 54627617  | GUARD, DOOR EDGE               | 16.5" |                  |
| K    | 22488837  | BAFFLE, CURB SIDE              | 1     |                  |
| L    | 36797652  | SCREW, TAPPING M06-1.0 X 12    | 8     |                  |
| M    | 36769560  | CAP, RADIATOR                  | 1     |                  |
| N    | 22482277  | RADIATOR                       | 1     |                  |

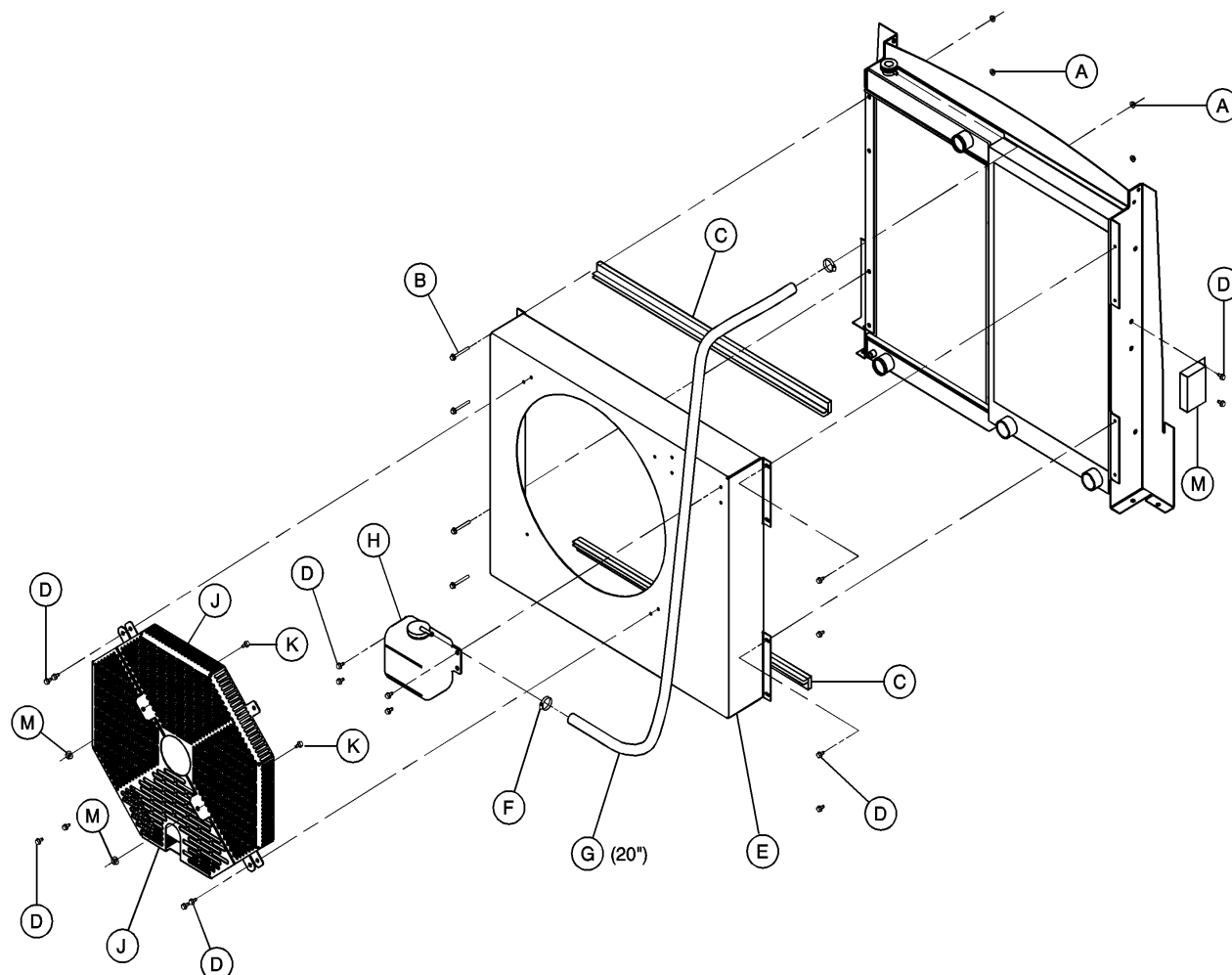
COOLING COMPLETE  
COOLING COMPLETE



22546964\_009\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                       | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------------|-----|------------------|
| P    | 36882934  | COOLER, OIL                       | 1   |                  |
| Q    | 22488845  | BAFFLE, STREET SIDE               | 1   |                  |
| R    | 22494660  | HOSE, RADIATOR TOP                | 1   |                  |
| S    | 35221662  | CLAMP, WORM GEAR                  | 4   |                  |
| T    | 36782167  | DRAIN, COCK                       | 1   |                  |
| U    | 22494678  | HOSE, RADIATOR BOTTOM             | 1   |                  |
| V    | 96727623  | SCREW, HEX FLANGE M6-1.0 X 50     | 4   |                  |
| W    | 35295880  | CONNECTOR, 1-1/16SAE X -12JIC     | 1   |                  |
| X    | 35376110  | HOSE, -12JIC X 54"                | 1   |                  |
| Y    | 35289503  | HOSE ASSY, -12JIC X 47"           | 1   |                  |
| Z    | 35291285  | CLAMP, 0.84 RUBBER COATED SUPPORT | 2   |                  |
| A1   | 22358782  | SUPPORT, TUBE                     | 1   |                  |
| A2   | 35294727  | ELBOW, 45o 1.06-16 X 3/8 TUBE     | 1   |                  |

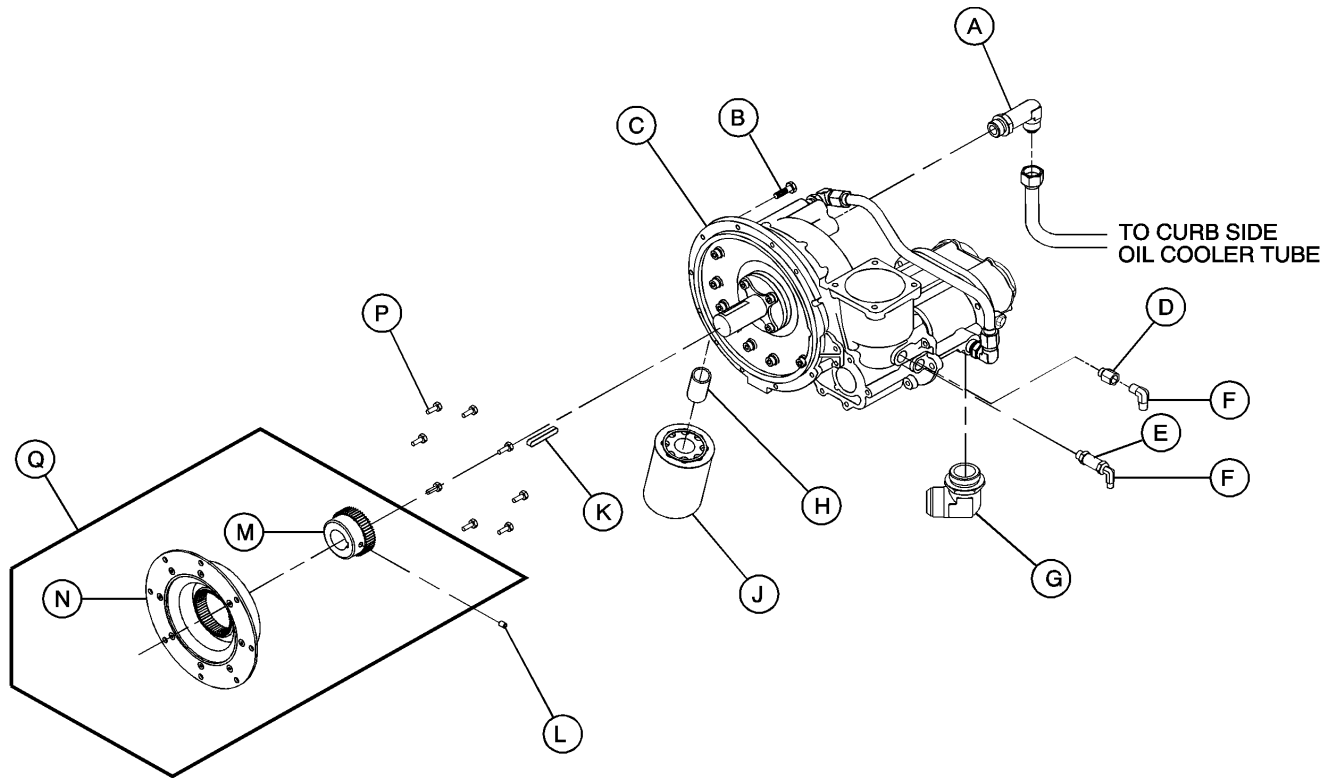
# FAN GUARD & SHROUD



22546964\_010\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                    | QTY   | DIMENSIONS/NOTES |
|------|-----------|--------------------------------|-------|------------------|
| A    | 36898104  | NUT, HEX FLANGE M06-1.0        | 4     | 2 PIECES         |
| B    | 96727623  | SCREW, HEX FLANGE M6-1.0 X 50  | 4     |                  |
| C    | 54627617  | GUARD, DOOR EDGE               | 31.5" |                  |
| D    | 36797652  | SCREW, TAPPING M06-1.0 X 12    | 16    |                  |
| E    | 22494769  | SHROUD, FAN                    | 1     |                  |
| F    | 35296342  | CLAMP, WORM GEAR               | 2     |                  |
| G    | 35360775  | TUBING, 5/16"                  | 20"   |                  |
| H    | 36884948  | BOTTLE, COOLANT RECOVERY       | 1     |                  |
| J    | 22460992  | GUARD, UPPER FAN               | 1     |                  |
| K    | 22460984  | GUARD, LOWER FAN               | 1     |                  |
| L    | 36898096  | SCREW, HEX FLANGE M06-1.0 X 20 | 2     |                  |
| M    | 36898104  | NUT, HEX FLANGE M06-1.0        | 2     |                  |
| N    | 22515860  | MODULE, ELECTRONIC             | 1     |                  |

AIREND COMPLETE  
AIREND COMPLETE

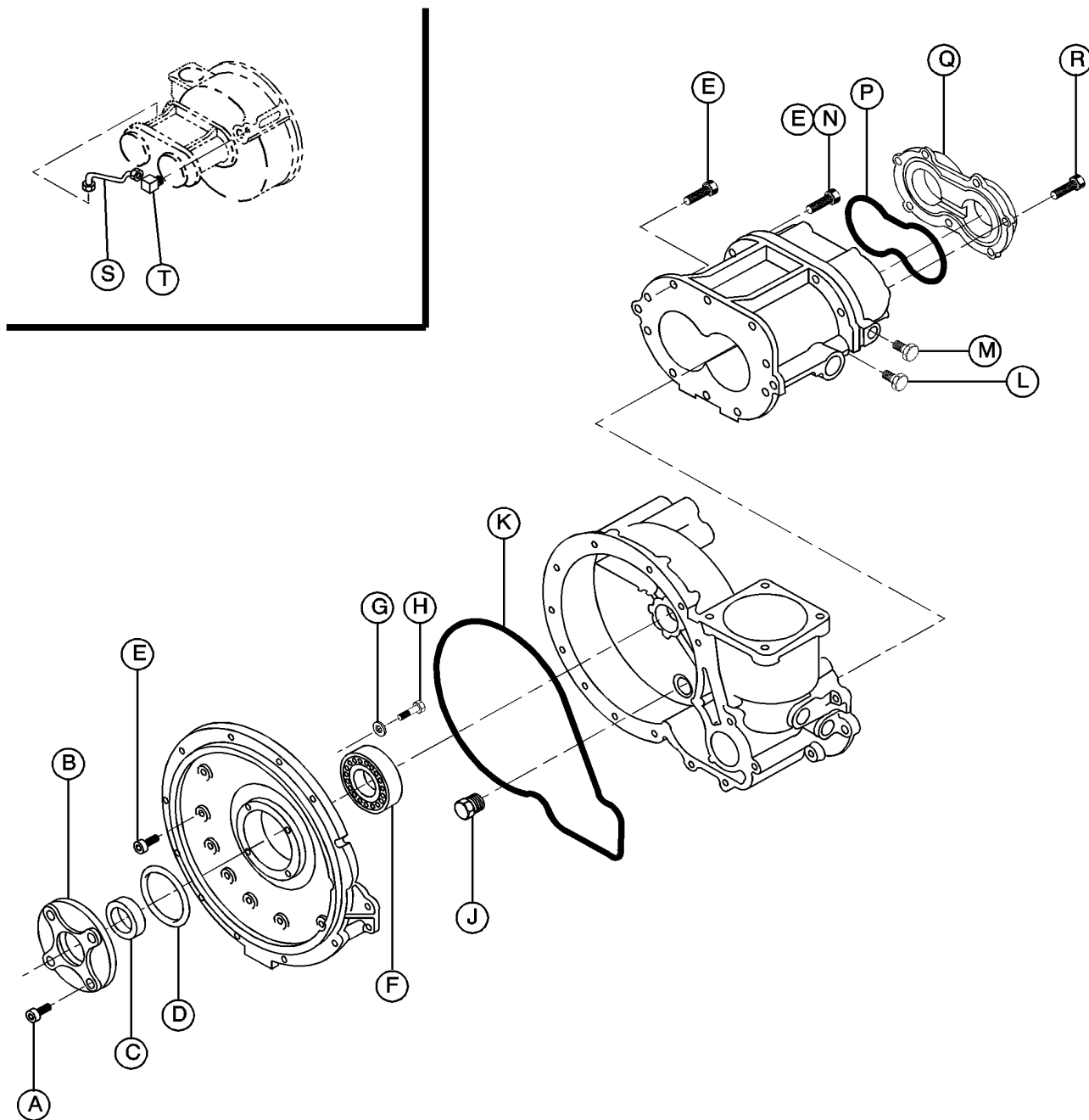


22546964\_011\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                         | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------------------------|-----|------------------|
| A    | 36885093  | ELBOW, -12 ORING TO -12JIC LONG     | 1   |                  |
| B    | 36880995  | BOLT, HEX FLANGE HEAD M10-1.50 X 30 | 9   |                  |
| C    | 42579417  | AIREND ASSEMBLY                     | 1   |                  |
| D    | 35302314  | ADAPTER                             | 1   |                  |
| E    | 36886992  | VALVE, CHECK .078 ORIFICE           | 1   |                  |
| F    | 35370386  | ELBOW, MALE 1/8NPT X 3/8" TUBE      | 2   |                  |
| G    | 95431292  | ELBOW, 90° 1-7/8-12 X -24JIC        | 1   |                  |
| H    | 22437057  | NIPPLE, PIPE 1.25-12UNF             | 1   |                  |
| J    | 22436323  | ELEMENT, OIL FILTER                 | 1   |                  |
| K    | 36769289  | KEY, M8 X 10 X 60 DOUBLE RADIUS     | 1   |                  |
| L    | 22404289  | SCREW, SET M08-1.25 X 12            | 1   |                  |
| M    | 22374847  | HUB, COUPLING                       | 1   |                  |
| N    | 22509699  | ELEMENT, COUPLING                   | 1   |                  |
| P    | 95220604  | SCREW, HEX SOCKET HD 3/8-16 X .75   | 8   |                  |
| Q    | 22509681  | COUPLING ASM., DRIVE                | 1   |                  |

# AIREND ASSEMBLY

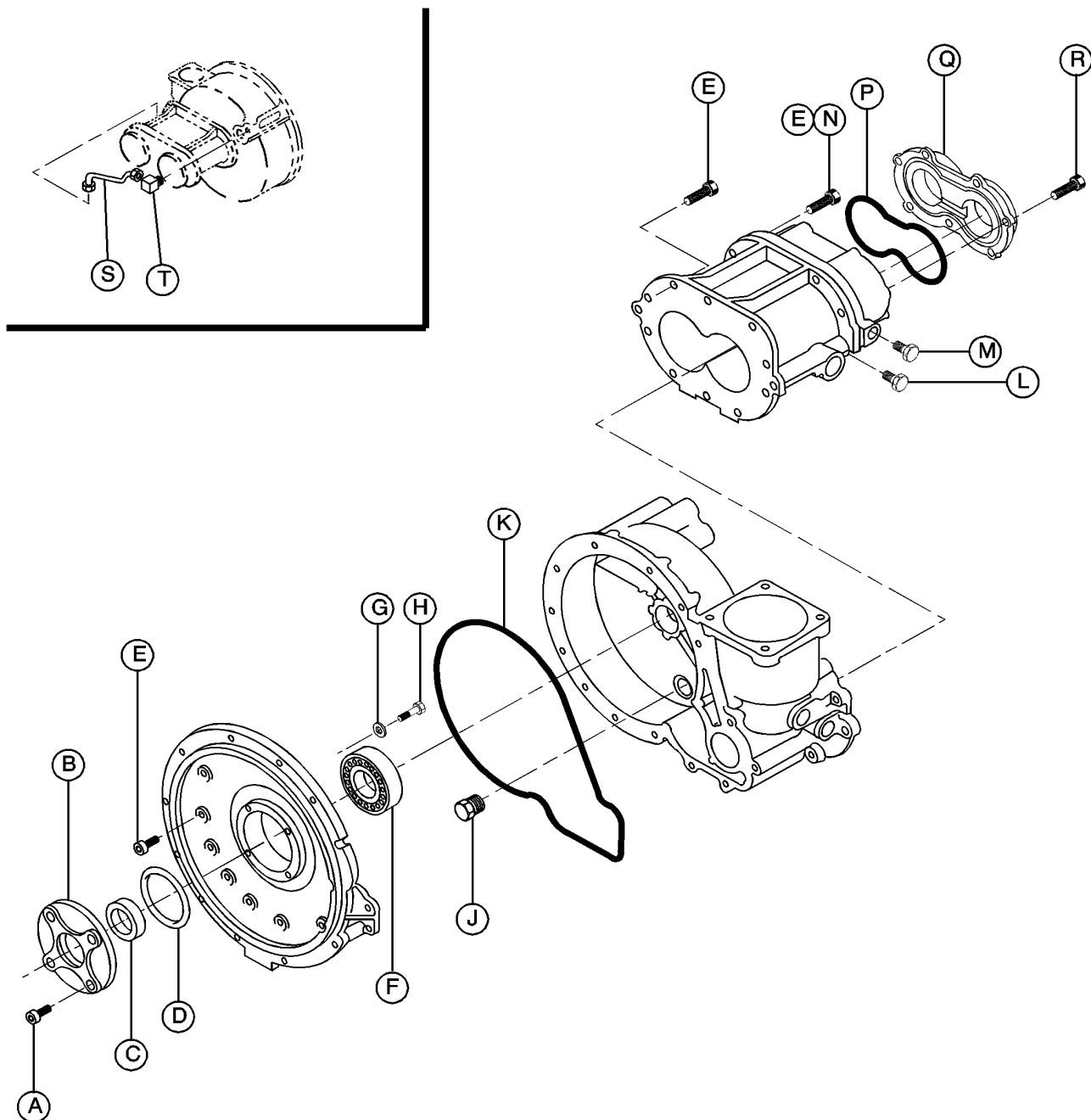
## AIREND ASSEMBLY



22546964\_012\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                      | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------------|-----|------------------|
| A    | 96708037  | SCREW, SOC HD M08-1.25 X 16      | 4   |                  |
| B    | 39588413  | COVER, SEAL                      | 1   |                  |
| C    | 35375369  | SEAL                             | 1   |                  |
| D    | 95022331  | O-RING                           | 1   |                  |
| E    | 96708060  | SCREW, SOC HD M08-1.25 X 25      | 31  |                  |
| F    | 35286004  | BEARING, BALL                    | 1   |                  |
| G    | 95094306  | WASHER, FLAT                     | 2   |                  |
| H    | 36791689  | SCREW, FLANGE LOCK M08-1.25 X 16 | 2   |                  |
| J    | 39101449  | PLUG, SOC HD 3/4                 | 1   |                  |

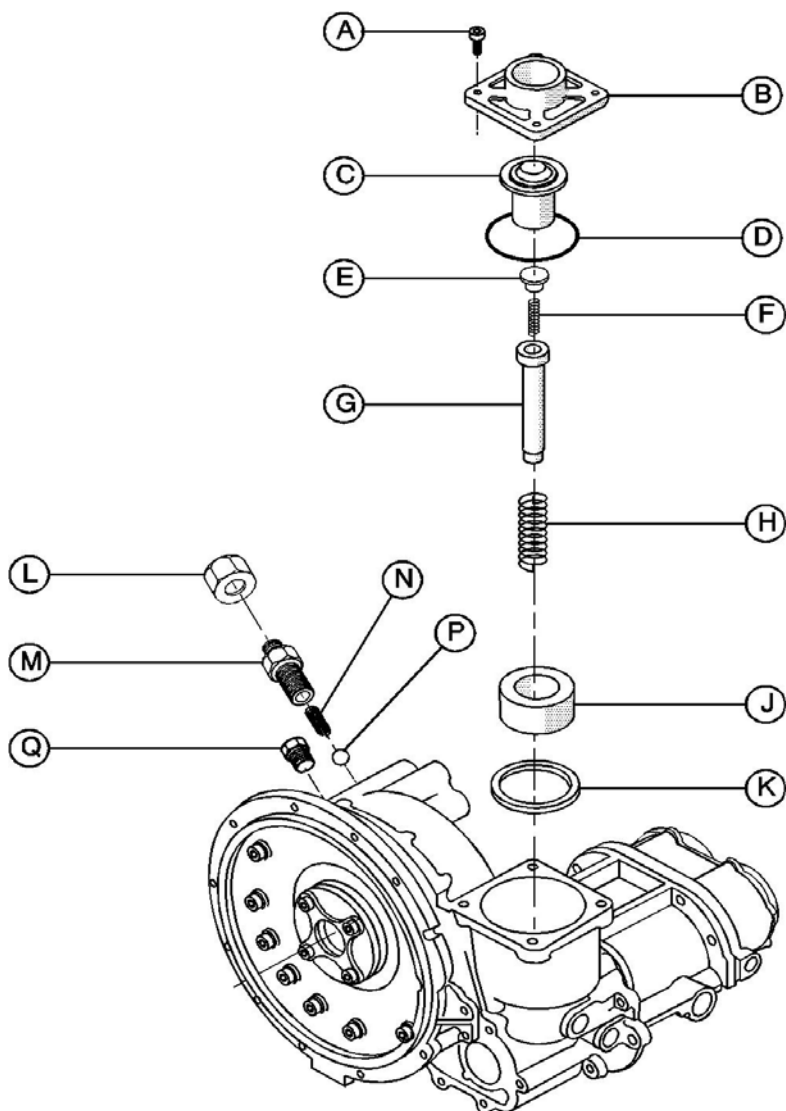
AIREND ASSEMBLY  
AIREND ASSEMBLY



22546964\_012\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                 | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------|-----|------------------|
| K    | 95641734  | O-RING                      | 1   |                  |
| L    | 95280541  | PLUG, HEX 1.06-12           | 1   |                  |
| M    | 95938965  | PLUG, HEX 7/16              | 1   |                  |
| N    | 96740375  | SCREW, SOC HD M08-1.25 X 45 | 1   |                  |
| P    | 95232115  | O-RING                      | 1   |                  |
| Q    | 36506442  | COVER, BEARING              | 1   |                  |
| R    | 96703012  | SCREW, SOC HD M06-1.0 X 20  | 7   |                  |
| S    | 36764553  | TUBE ASM., OIL INJECTION    | 1   |                  |
| T    | 35286491  | ELBOW                       | 2   |                  |

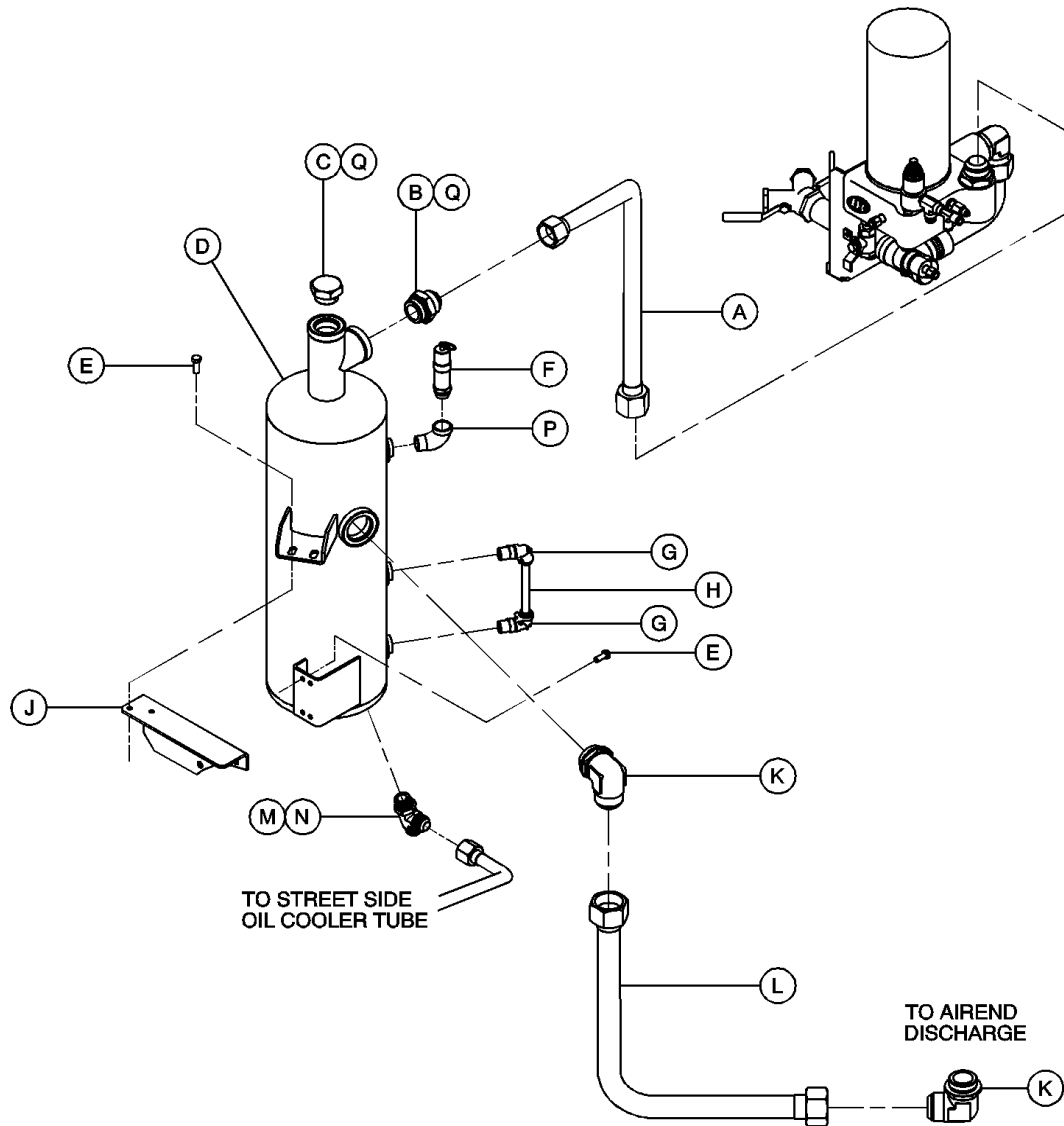
# UNLOADER ASSEMBLY UNLOADER ASSEMBLY



22546964\_013\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                 | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------|-----|------------------|
| A    | 96708144  | SCREW, SOC HD M10-1.50 X 25 | 4   |                  |
| B    | 36508471  | COVER, INLET                | 1   |                  |
| C    | 36511623  | VALVE, UNLOADER             | 1   |                  |
| D    | 95023107  | O-RING                      | 1   |                  |
| E    | 35379817  | CAP, SPRING                 | 1   |                  |
| F    | 35376342  | SPRING                      | 1   |                  |
| G    | 35611557  | STEM                        | 1   |                  |
| H    | 35376334  | SPRING                      | 1   |                  |
| J    | 35611615  | PISTON                      | 1   |                  |
| K    | 35376359  | SEAL                        | 1   |                  |
| L    | 95257333  | CAP                         | 1   |                  |
| M    | 35612175  | CONNECTOR                   | 1   |                  |
| N    | 35376326  | SPRING                      | 1   |                  |
| P    | 35376318  | BALL                        | 1   |                  |
| Q    | 95280541  | PLUG, HEX 1.06-12           | 1   |                  |

SEPARATOR TANK COMPLETE  
SEPARATOR TANK COMPLETE

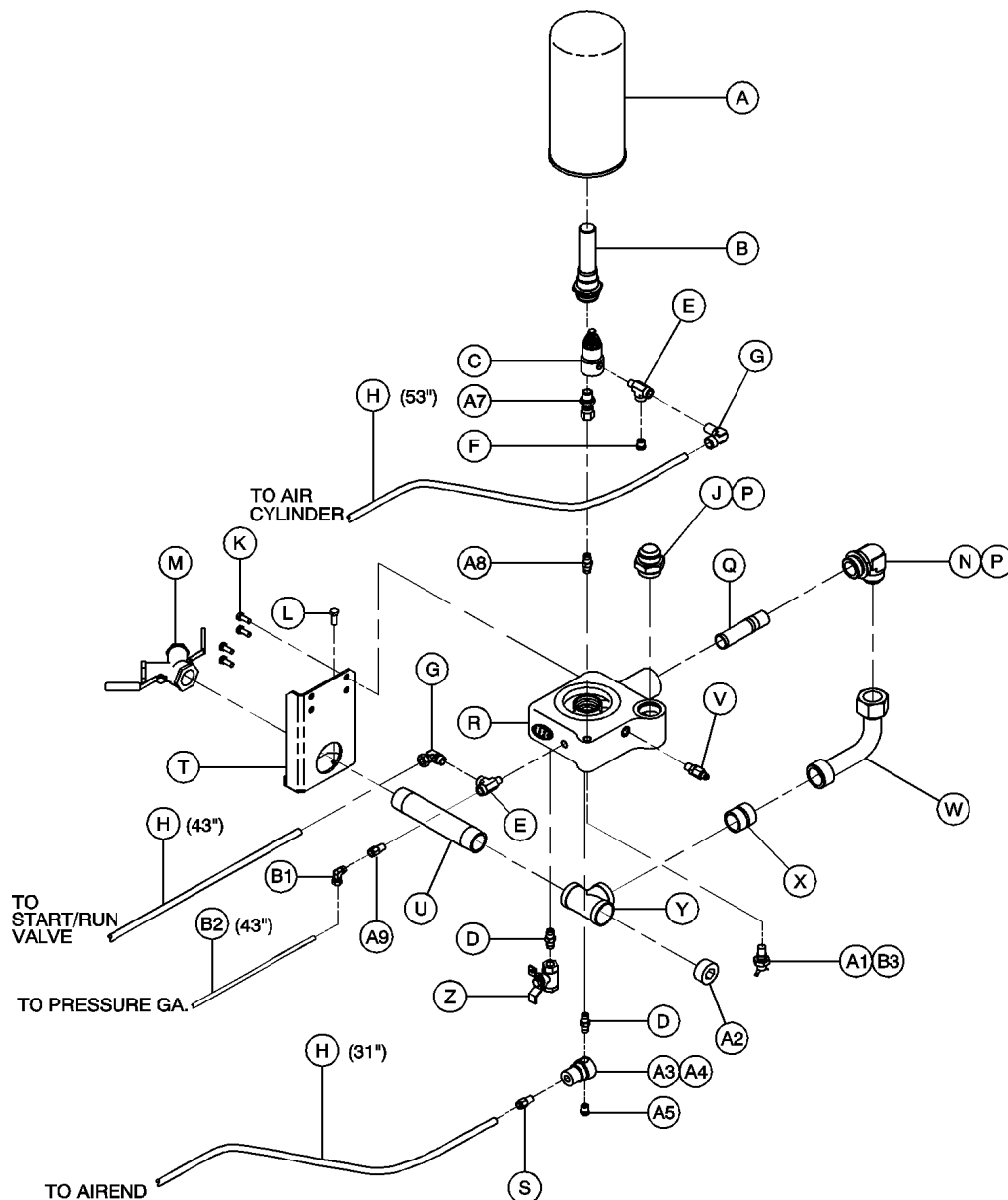


22546964\_014\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                      | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------------|-----|------------------|
| A    | 35228170  | HOSE, -20JIC X 27.25"            | 1   |                  |
| B    | 35279785  | CONNECTOR, 1-5/8-12 X -20JIC     | 1   |                  |
| C    | 35579630  | PLUG, 1-5/8 O-RING               | 1   |                  |
| D    | 22333900  | TANK, SEPARATOR                  | 1   |                  |
| E    | 35279025  | SCREW, TAPPING M08-1.25 X20      | 4   |                  |
| F    | 35325166  | VALVE, SAFETY 150 PSI            | 1   |                  |
| G    | 54627799  | ELBOW, SIGHT TUBE                | 2   |                  |
| H    | 22248454  | TUBE, SIGHT GAGE                 | 1   |                  |
| J    | 22349823  | BRACKET, SEPARATOR TANK MOUNTING | 1   |                  |
| K    | 95431292  | ELBOW, 90° 1-7/8-12 X -24JIC     | 1   |                  |
| L    | 22335491  | TUBE, DISCHARGE                  | 1   |                  |
| M    | 35332030  | TEE, 1-1/16SAE X -12JIC X -12JIC | 1   |                  |
| N    | 95730172  | CAPP, 1 1/16-12                  | 1   |                  |
| P    | 95928164  | ELBOW, STREET 1/2 NPT            | 1   |                  |

# SEPARATOR FILTER COMPLETE

## SEPARATOR FILTER COMPLETE

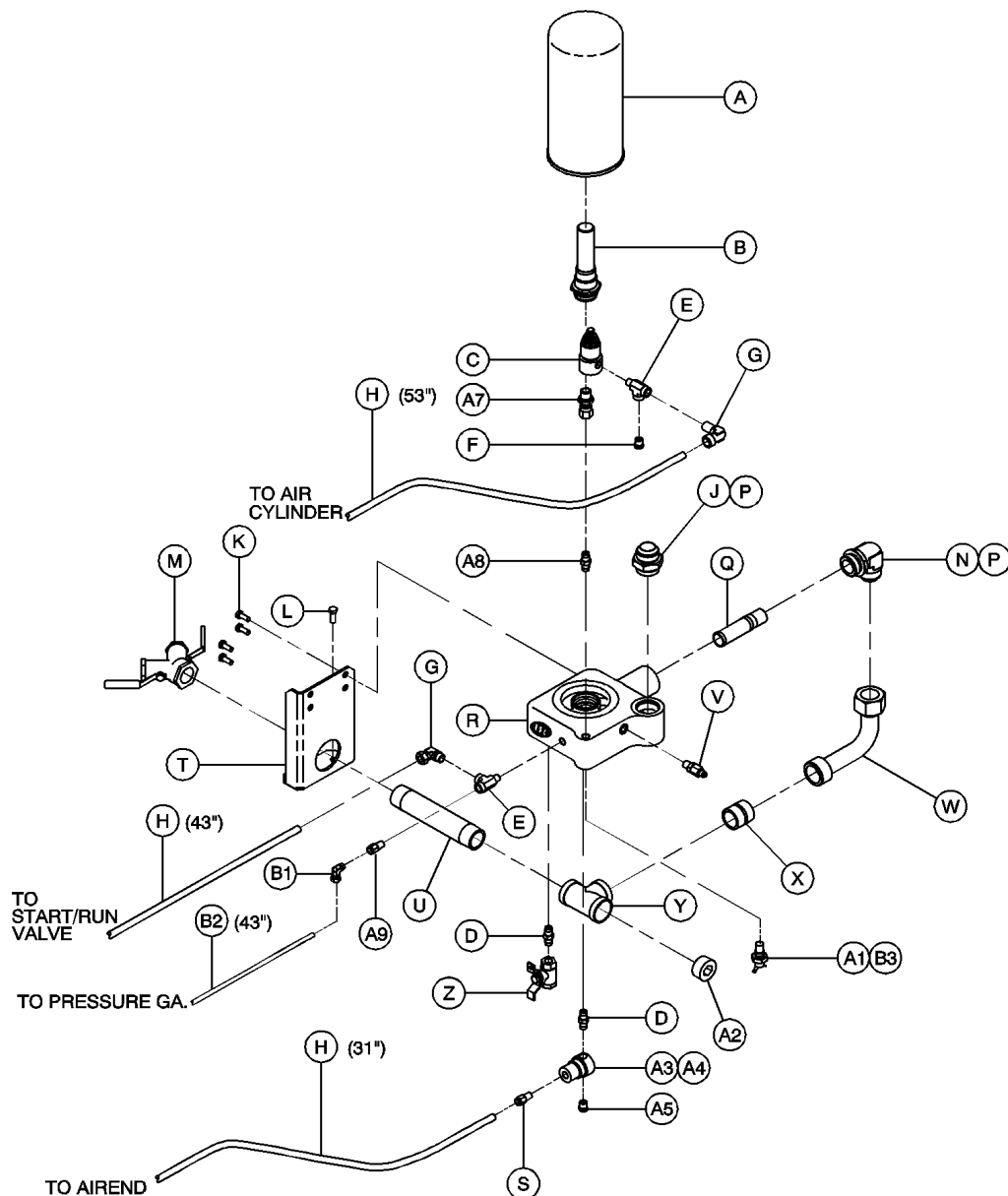


22546964\_015\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                      | QTY | DIMENSIONS/NOTES  |
|------|-----------|----------------------------------|-----|-------------------|
| A    | 22436331  | ELEMENT, SEPARATOR               | 1   | SEE LENGTHS ABOVE |
| B    | 22510341  | NIPPLE, FILTER AIR-OIL           | 1   |                   |
| C    | 36854149  | VALVE, PRESSURE REGULATOR 100PSI | 1   |                   |
| D    | 36793776  | NIPPLE, .25 NPT                  | 3   |                   |
| E    | 35114545  | TEE, STREET 1/4 NPT              | 1   |                   |
| F    | 36766772  | ORIFICE, MUFFLER .062            | 1   |                   |
| G    | 35369354  | ELBOW, 1/4NPT X 3/8" TUBE        | 1   |                   |
| H    | 35356484  | TUBING, 3/8 OD SYNFLX            | ~   |                   |
| J    | 35279785  | CONNECTOR, 1-5/8-12 X -20JIC     | 1   |                   |
| K    | 96702055  | SCREW, HEX M08-1.25 X 20         | 4   |                   |
| L    | 35279025  | SCREW, TAPPING M08-1.25 X20      | 2   |                   |
| M    | 36881076  | VALVE, WYE                       | 1   |                   |

# SEPARATOR FILTER COMPLETE

## SEPARATOR FILTER COMPLETE

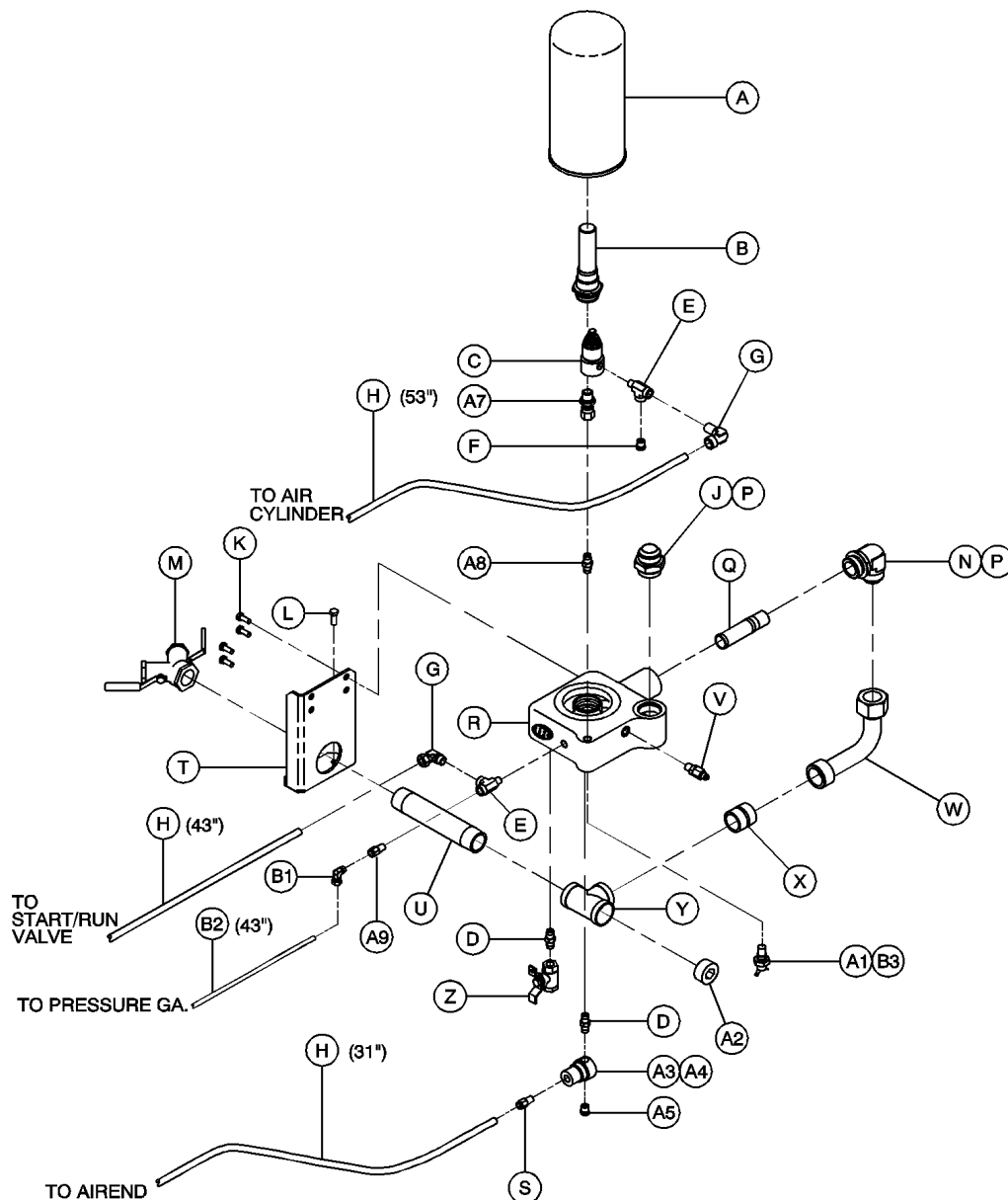


22546964\_015\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                        | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------------|-----|------------------|
| N    | 35279777  | ELBOW, 90° 1-5/8-12 X -20JIC       | 1   |                  |
| P    | 35279942  | O RING                             | 1   |                  |
| Q    | 36921377  | NOZZLE, .395 ORIFICE SONIC         | 1   |                  |
| R    | 22406755  | FILTER HEAD                        | 1   |                  |
| S    | 35369347  | CONNECTOR, MALE 1/4NPT X 3/8" TUBE | 2   |                  |
| T    | 22355846  | BRACKET, SEPARATOR                 | 1   |                  |
| U    | 95916268  | NIPPLE, LONG 1.25 NPT X 8"         | 1   |                  |
| V    | 36840437  | VALVE, CHECK .062 ORIFICE          | 1   |                  |
| W    | 22408561  | TUBE, DISCHARGE                    | 1   |                  |
| X    | 95953709  | NIPPLE, CLOSED 1.25 NPT X 1.62"    | 1   |                  |
| Y    | 95954236  | TEE, 1.25NPT                       | 1   |                  |
| Z    | 35324839  | VALVE, BALL 1/4 NPT                | 1   |                  |

# SEPARATOR FILTER COMPLETE

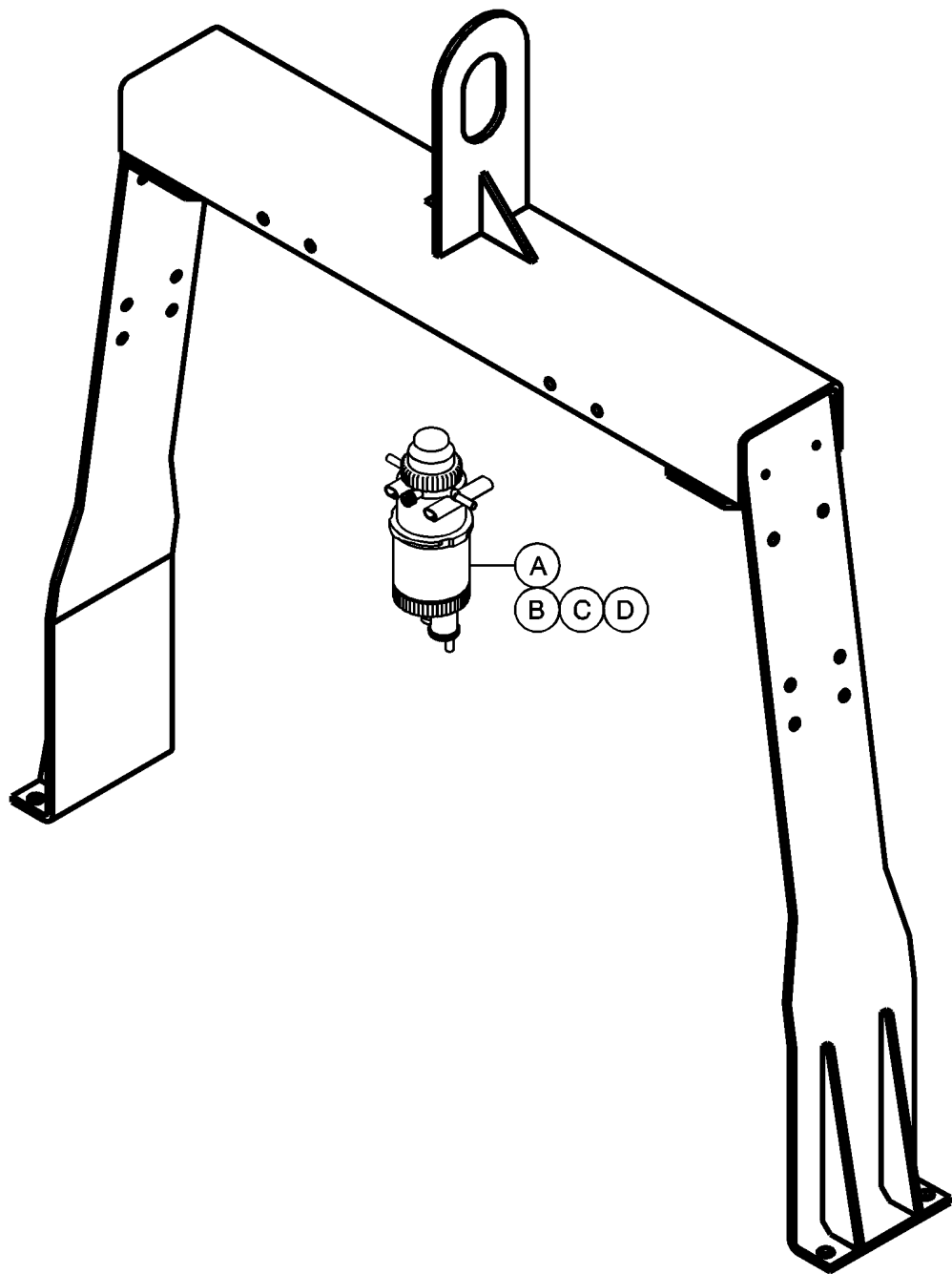
## SEPARATOR FILTER COMPLETE



22546964\_015\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                         | QTY | DIMENSIONS/NOTES                      |
|------|-----------|-------------------------------------|-----|---------------------------------------|
| A1   | 35596436  | SWITCH, TEMPERATURE 248o F          | 1   | ITEMS A, B, R INCLUDED                |
| A2   | 95928248  | PLUG, HEX COUNTERSINK 1.25 NPT      | 1   |                                       |
| A3   | 35322379  | VALVE, BLOWDOWN                     | 1   |                                       |
| A4   | 35379064  | KIT, DIAPHRAGM REPAIR               | AR  |                                       |
| A5   | 36766756  | MUFFLER, .140 ORIFICE               | 1   |                                       |
| A6   | 22406763  | FILTER, SEPARATOR                   | 1   |                                       |
| A7   | 95962601  | CONNECTOR, SWIVEL NUT 1.4 NPT       | 1   |                                       |
| A8   | 95101192  | CONNECTOR, 1/4NPT                   | 1   |                                       |
| A9   | 95930301  | BUSHING, REDUCING 1/4 NPT X 1/8 NPT | 1   |                                       |
| B1   | 36891547  | ELBOW, 1/8 NPT                      | 1   |                                       |
| B2   | 36891562  | TUBING, 1/8"                        | ~   | SEE LENGTHS ABOVE<br>INCLUDED IN ASM. |
| B3   | 39404165  | O-RING                              | ~   |                                       |

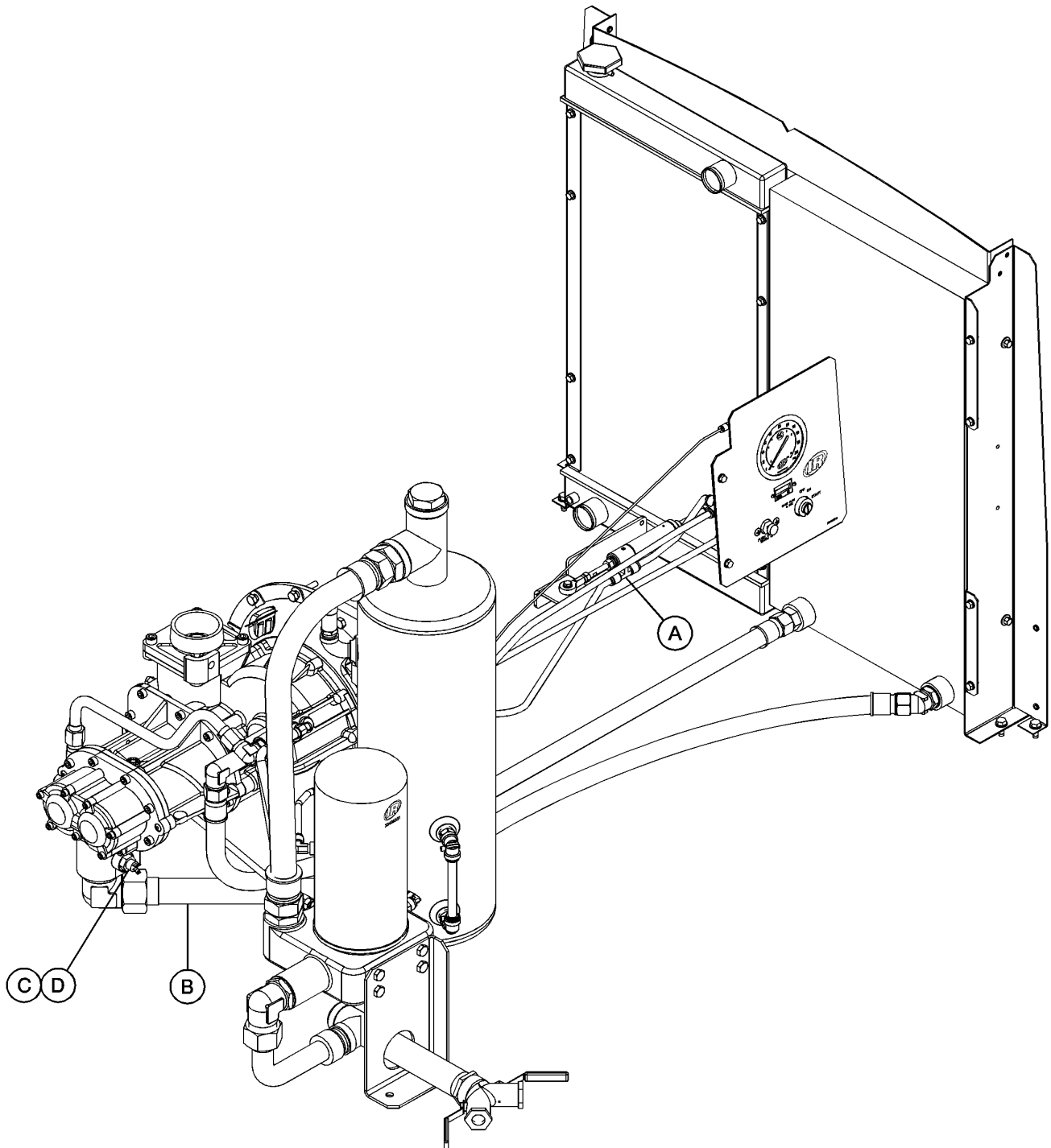
FUEL FILTER MOUNT  
FUEL FILTER MOUNT



22546964\_016\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION             | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------------|-----|------------------|
| A    | 22528228  | FILTER, FUEL/WATER      | 1   |                  |
| B    | 22532386  | BOWL, POLYCARBONATE     | 1   |                  |
| C    | 22532378  | ELEMENT, FUEL 10 MICRON | 1   |                  |
| D    | 22532394  | KIT, PRIMER PUMP        | 1   |                  |

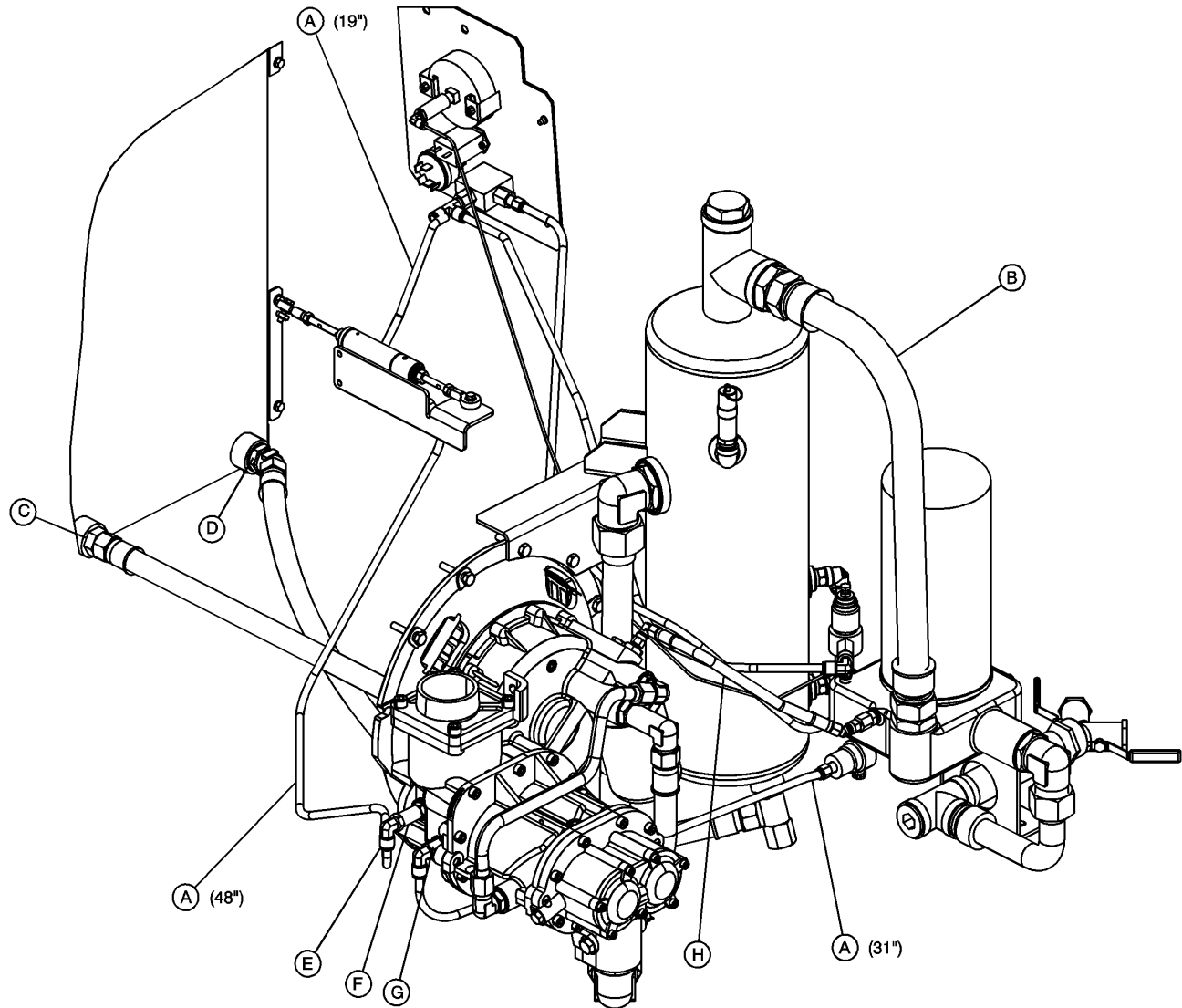
AIR AND OIL PIPING  
AIR AND OIL PIPING



22546964\_017\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                     | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------------------|-----|------------------|
| A    | 35369396  | TEE, BRANCH 1/4 NPT X 3/8" TUBE | 1   |                  |
| B    | 22335491  | TUBE, DISCHARGE                 | 1   |                  |
| C    | 35596436  | SWITCH, TEMPERSTURE             | 1   |                  |
| D    | 39404165  | O-RING                          | 1   |                  |

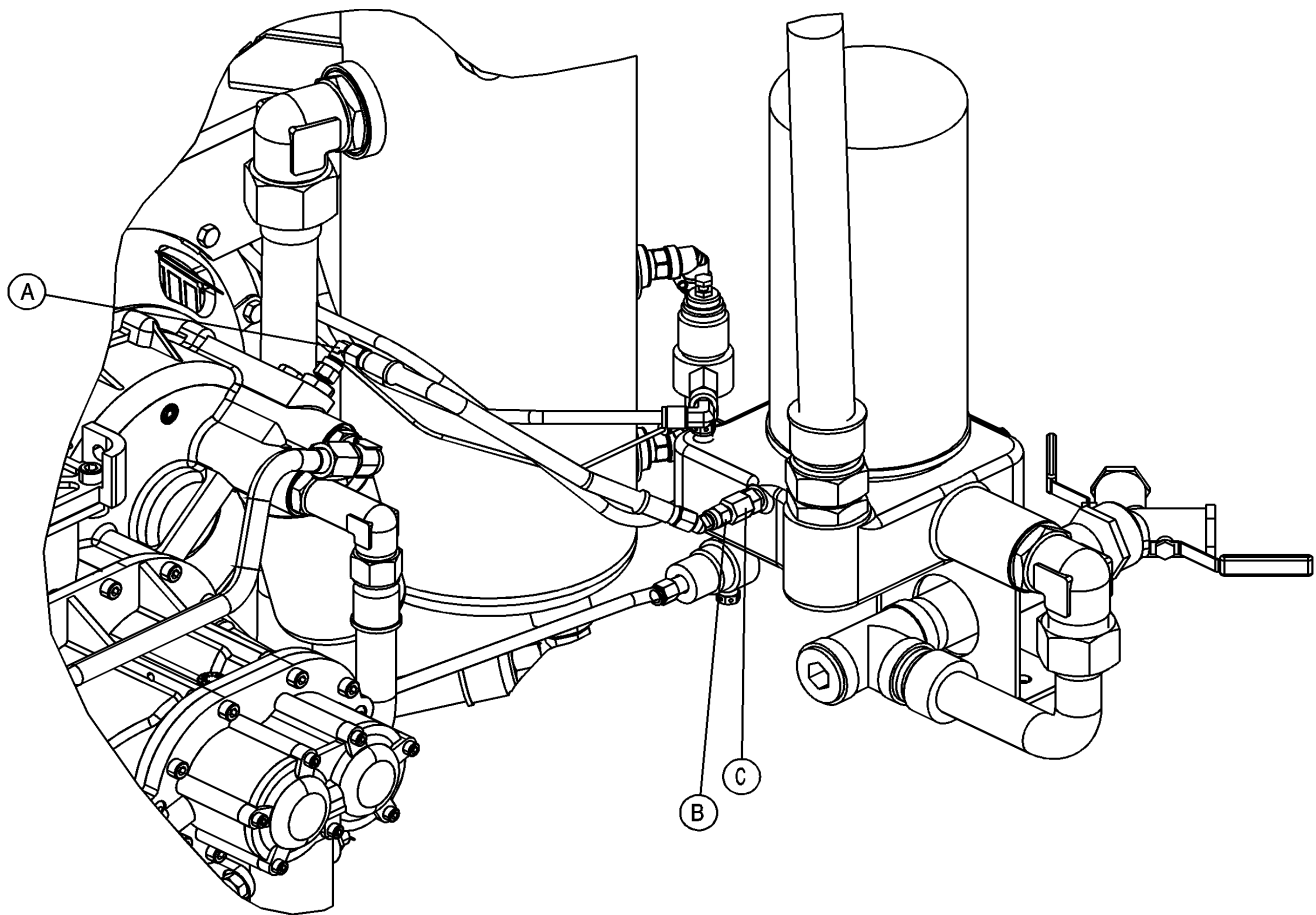
AIR AND OIL PIPING  
AIR AND OIL PIPING



22546964\_018\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                           | QTY | DIMENSIONS/NOTES  |
|------|-----------|---------------------------------------|-----|-------------------|
| A    | 35356484  | TUBING, SYNPLEX 3/8"                  |     | SEE LENGTHS ABOVE |
| B    | 35228170  | HOSE, DISCHARGE                       | 1   |                   |
| C    | 35295880  | CONNECTOR, 1.06 SAE X 12 JIC          | 1   |                   |
| D    | 35294727  | ELBOW, 45o 1.06 SAE X 12 JIC          | 1   |                   |
| E    | 35370386  | ELBOW, 1/8 NPT X 3/8 TUBE             | 1   |                   |
| F    | 36886992  | VALVE, .078 ORIFICE CHECK             | 1   |                   |
| G    | 35302314  | ADAPTER, 9/16-18 SAE X 1/4 FEMALE NPT | 1   |                   |
| H    | 35283241  | HOSE, SCAVENGE                        | 1   |                   |

AIR AND OIL PIPING  
AIR AND OIL PIPING

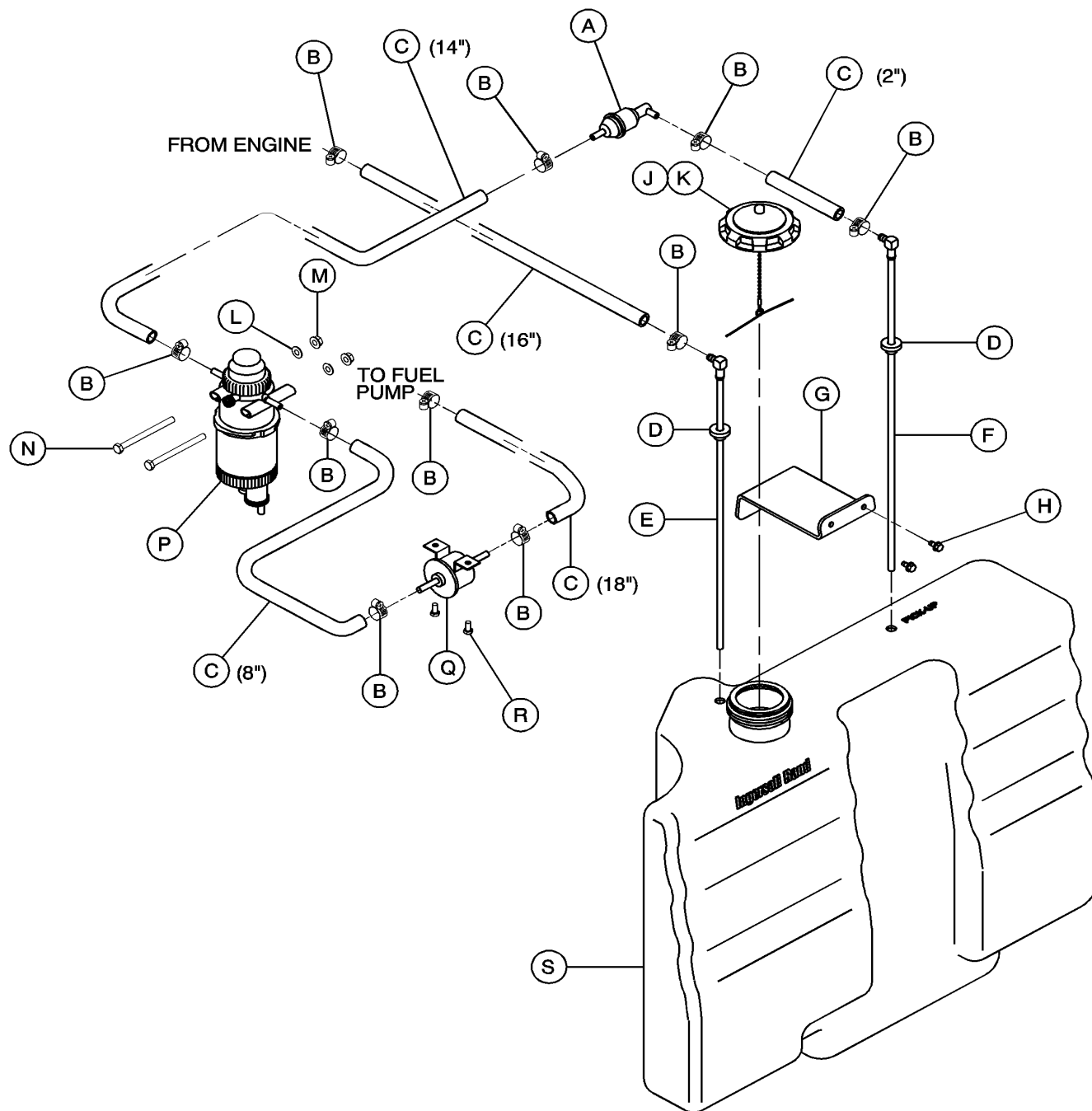


22546964\_019\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                  | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------|-----|------------------|
| A    | 35290352  | ELBOW, SWIVEL NUT -4 JIC     | 1   |                  |
| B    | 95446340  | ELBOW, 45o SWIVEL NUT -4 JIC | 1   |                  |
| C    | 36840437  | VALVE, .062 ORIFICE CHECK    | 1   |                  |



FUEL TANK  
FUEL TANK

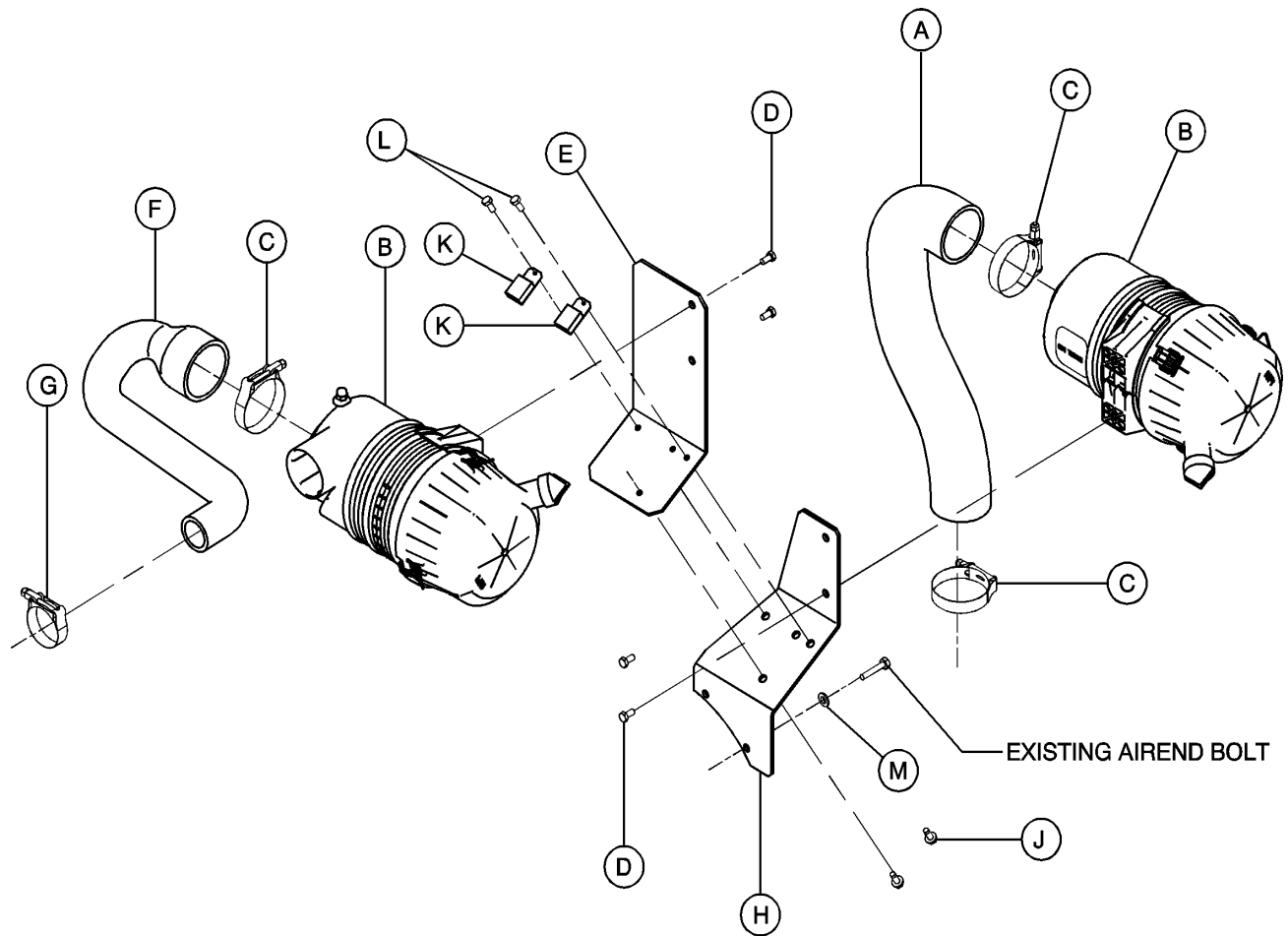


22546964\_020\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                 | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------|-----|------------------|
| K    | 35385111  | GASKET, FUEL CAP            | 1   |                  |
| L    | 95935037  | WASHER, FLAT                | 2   |                  |
| M    | 36881886  | NUT, HEX FLG M08-1.25       | 2   |                  |
| N    | 96726435  | SCREW, HEX M08-1.25 X 100   | 2   |                  |
| P    | 22528228  | FILTER, FUEL/WATER          | 1   |                  |
| Q    | 22568398  | PUMP, ELECTRONIC FUEL       | 1   |                  |
| R    | 36797652  | SCREW, TAPPING M06-1.0 X 12 | 2   |                  |
| S    | 22343503  | TANK, FUEL                  | 1   |                  |

# AIR CLEANER MOUNTING

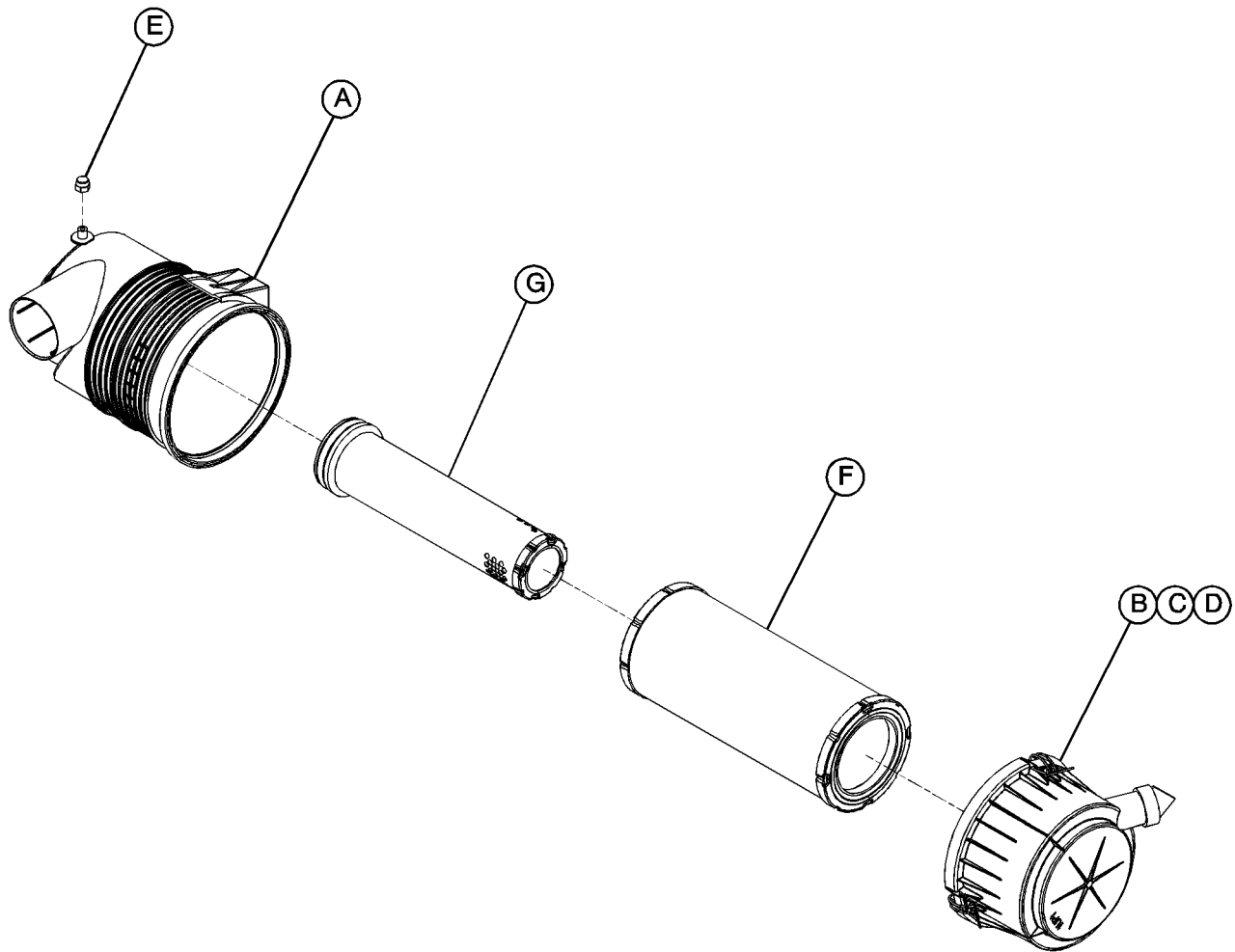
## AIR CLEANER MOUNTING



22546964\_021\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                 | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------|-----|------------------|
| A    | 22355143  | ELBOW, A/E FILTER           | 1   |                  |
| B    | 36897999  | CLEANER ASSY, AIR           | 2   |                  |
| C    | 35374073  | CLAMP, T-BOLT 3.62" DIA     | 3   |                  |
| D    | 96702048  | SCREW, HEX M08-1.25 X 16    | 4   |                  |
| E    | 22421325  | BRACKET, ENGINE AIR FILTER  | 1   |                  |
| F    | 22431985  | ELBOW, ENGINE               | 1   |                  |
| G    | 35305390  | CLAMP, T-BOLT 2.75" DIA     | 1   |                  |
| H    | 22421317  | BRACKET, AIR FILTER A/E     | 1   |                  |
| J    | 35279025  | SCREW, TAPPING M08-1.25 X20 | 2   |                  |
| K    | 22511505  | RELAY, 70AMP 12VDC          | 2   |                  |
| L    | 36797652  | SCREW, TAPPING M06-1.0 X 12 | 2   |                  |
| M    | 95935037  | WASHER, FLAT                | 2   |                  |

AIR CLEANER ASM.  
AIR CLEANER ASM.

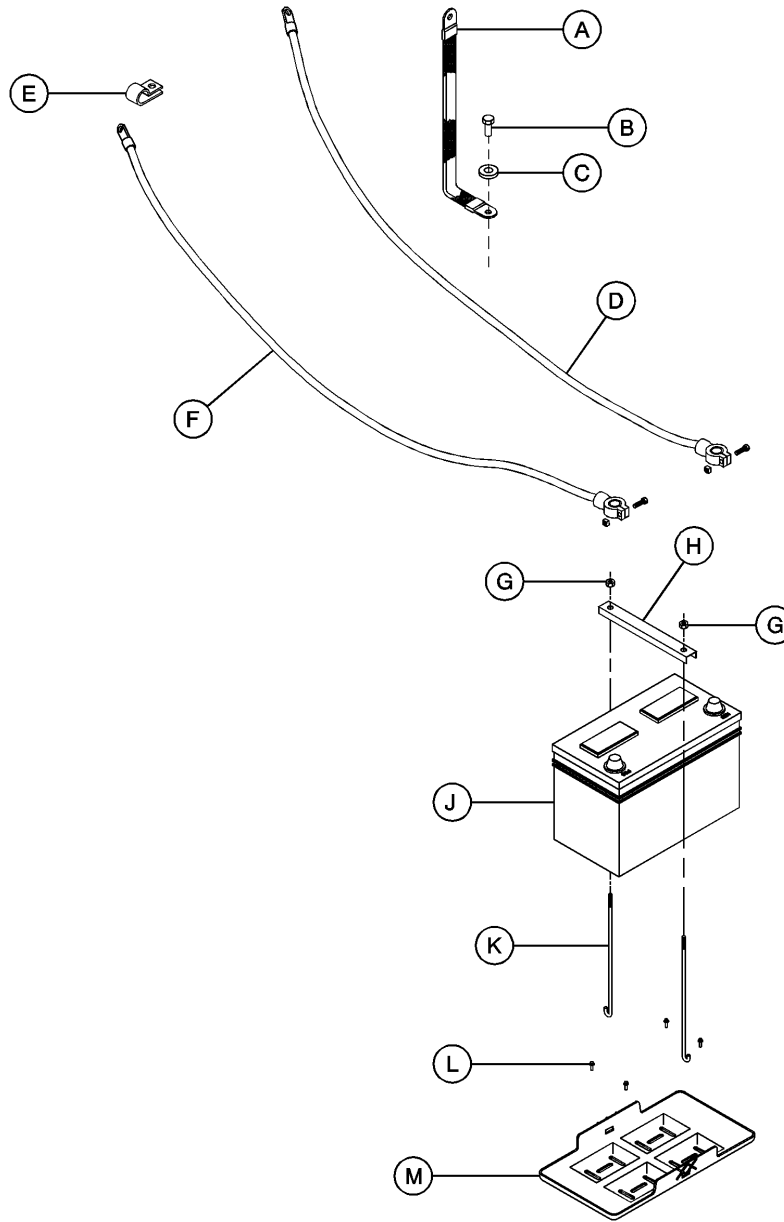


22546964\_022\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION         | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------|-----|------------------|
| A    | 35393701  | BODY, AIR CLEANER   | 1   | OPTIONAL         |
| B    | 35393693  | COVER, AIR CLEANER  | 1   |                  |
| C    | 35393669  | CLIP, RETAINING     | 3   |                  |
| D    | 35393677  | VALVE, DUST EJECTOR | 1   |                  |
| E    | 35393719  | PLUG, CAP           | 1   |                  |
| F    | 35393685  | ELEMENT, PRIMARY    | 1   |                  |
| G    | 35393651  | ELEMENT, SAFETY     | 1   |                  |

# BATTERY MOUNTING

## BATTERY MOUNTING

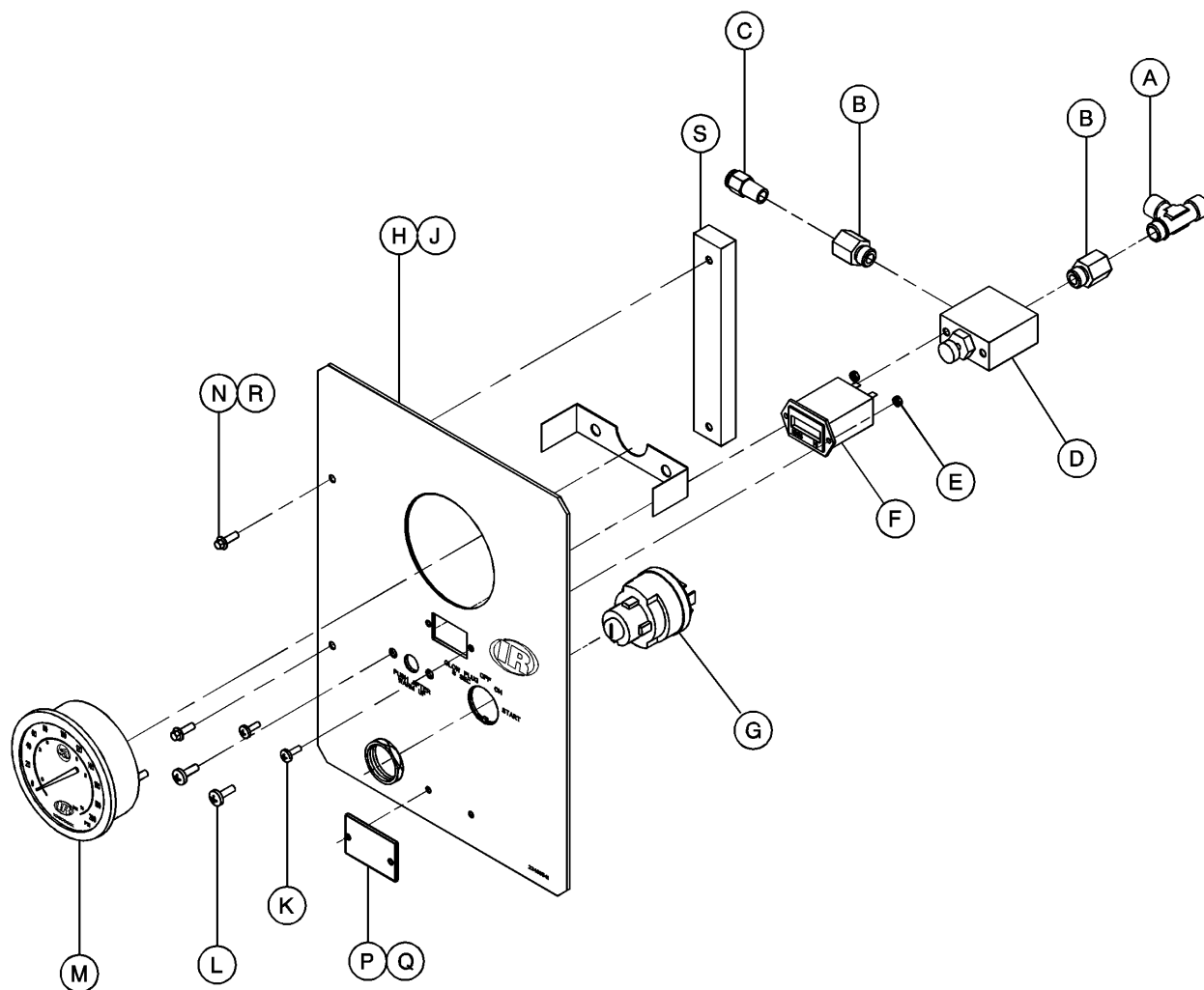


22546964\_023\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                       | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------------|-----|------------------|
| A    | 22451249  | STRAP, GROUND                     | 1   |                  |
| B    | 96701495  | SCREW, HEX M12-1.75 X 25          | 1   |                  |
| C    | 95935003  | WASHER, FLAT 1/2"                 | 1   |                  |
| D    | 22517502  | CABLE, BATTERY NEGATIVE           | 1   |                  |
| E    | 35225093  | CLAMP, SUPPORT 1/2" RUBBER COATED | 2   |                  |
| F    | 22517494  | CABLE, BATTERY POSITIVE           | 1   |                  |
| G    | 95923298  | NUT, HEX LOCKING 1/4-20           | 2   |                  |
| H    | 22524680  | BRACKET, BATT HOLD DOWN           | 1   |                  |
| J    | 36844264  | BATTERY, 12V                      | 1   |                  |
| K    | 36860005  | J-BOLT                            | 2   |                  |
| L    | 36797652  | SCREW, TAPPING M06-1.0 X 12       | 4   |                  |
| M    | 36878064  | TRAY, BATTERY                     | 1   |                  |

# INSTRUMENT PANEL

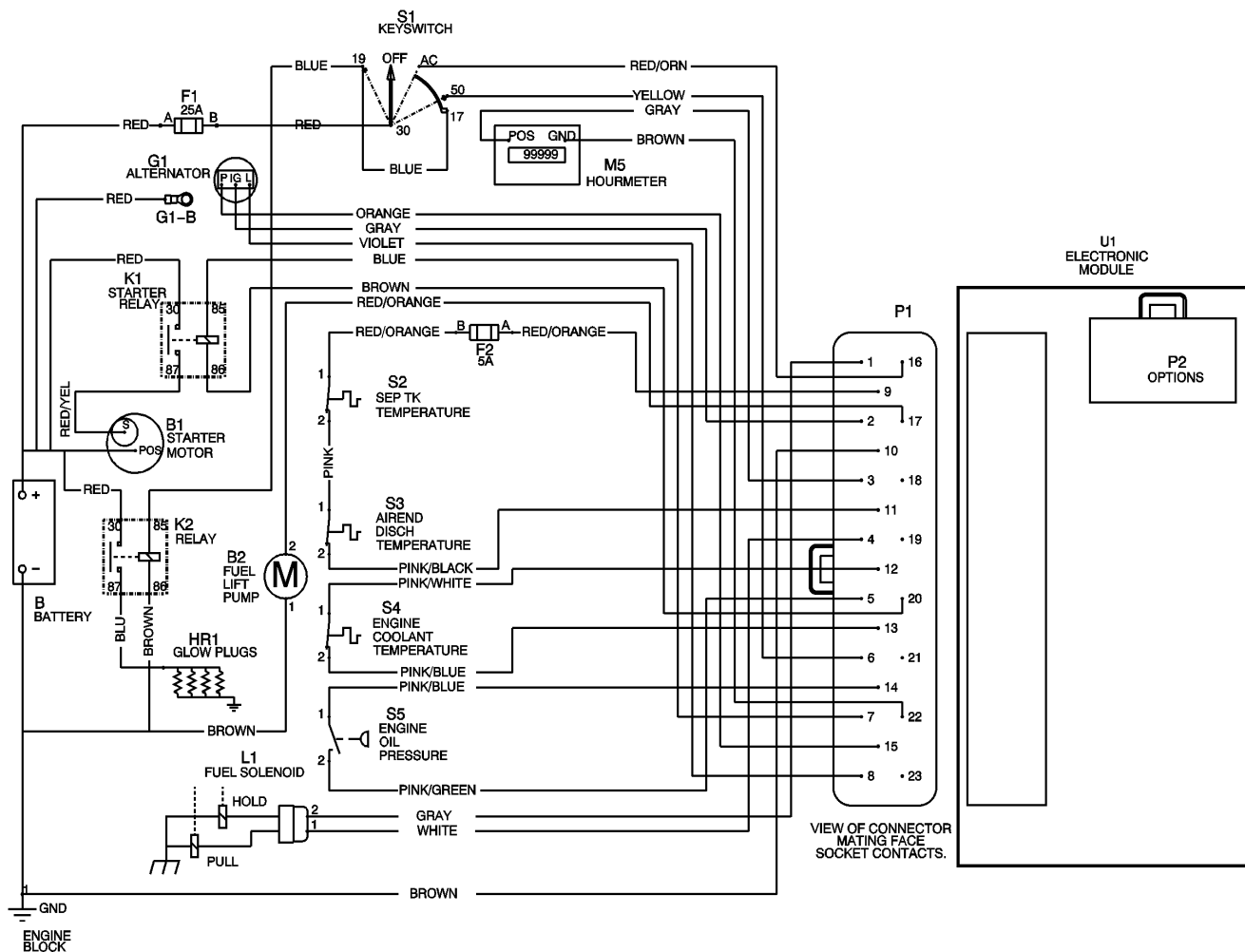
## INSTRUMENT PANEL



22546964\_024\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                        | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------------|-----|------------------|
| A    | 35369503  | TEE, RUN 1/4NPT X 3/8" TUBE        | 1   |                  |
| B    | 35302314  | ADAPTER                            | 2   |                  |
| C    | 35369347  | CONNECTOR, MALE 1/4NPT X 3/8" TUBE | 1   |                  |
| D    | 36783439  | VALVE, 2 WAY START/RUN             | 1   |                  |
| E    | 22054159  | NUT, PLASTIC #4-40                 | 2   |                  |
| F    | 22054175  | HOURMETER, ELEC/MECH               | 1   |                  |
| G    | 22624639  | SWITCH, KEY                        | 1   |                  |
| H    | 22363329  | PANEL, INSTRUMENT                  | 1   |                  |
| J    | 22496541  | DECAL, CONTROL PANEL               | 1   |                  |
| K    | 95775599  | SCREW, 4-40 X 1/2" SS              | 2   |                  |
| L    | 22090898  | SCREW, PAN HEAD M06-1.0 X 16       | 2   |                  |
| M    | 35706761  | GAUGE, DISCHARGE PRESSURE          | 1   |                  |
| N    | 36797652  | SCREW, TAPPING M06-1.0 X 12        | 2   |                  |
| P    | 22389886  | PLATE, SERIAL NUMBER               | 1   |                  |
| Q    | 36920486  | RIVET, .19 DIA SS                  | 2   |                  |
| R    | 96728431  | NUT, HEX M08-1.25                  | 2   |                  |
| S    | 22597231  | SPACER, BLOCK                      | 1   |                  |

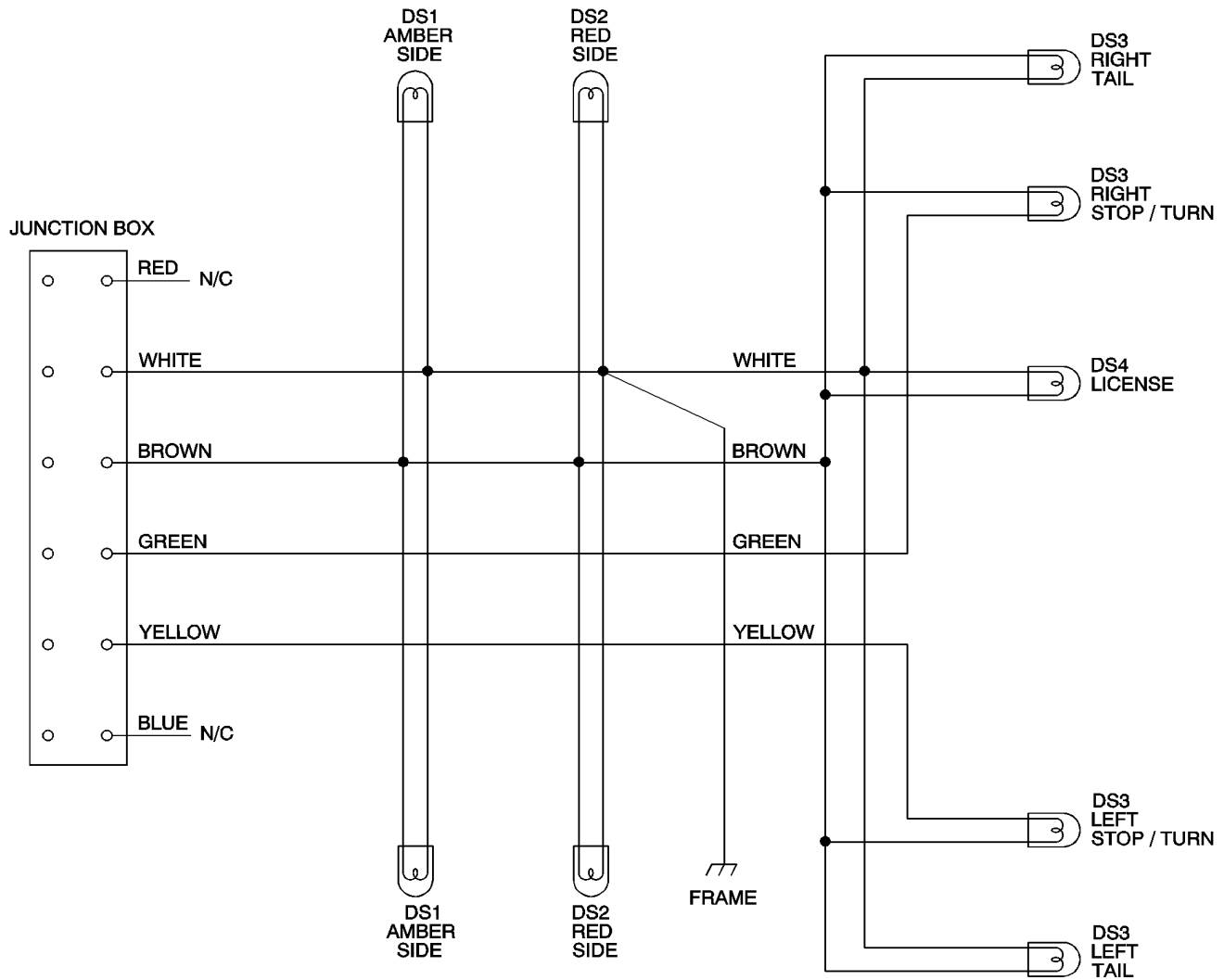
# WIRING DIAGRAM WIRING DIAGRAM



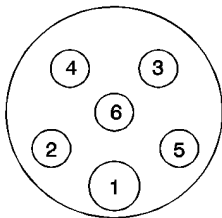
22546964\_025\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                 | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------------|-----|------------------|
| B    | 36844264  | BATTERY, 12V                | 1   |                  |
| B1   | 22496939  | STARTER                     | 1   |                  |
| B2   | 22568398  | PUMP, FUEL LIFT             | 1   |                  |
| F1   | 36793651  | FUSE, 25A                   | 1   |                  |
| F2   | 36782654  | FUSE, 5A                    | 1   |                  |
| G1   | 22496947  | ALTERNATOR                  | 1   |                  |
| HR1  | 22568349  | PLUG, GLOW                  | 4   |                  |
| K1   | 22511505  | RELAY, STARTER              | 1   |                  |
| K2   | 22511505  | RELAY, START PROTECT        | 1   |                  |
| L1   | 22568091  | SOLENOID, FUEL              | 1   |                  |
| M5   | 22054175  | HOURLMETER                  | 1   |                  |
| S1   | 22624639  | SWITCH, KEY                 | 1   |                  |
| S2   | 35596436  | SWITCH, SEPARATOR TANK TEMP | 1   |                  |
| S3   | 35596436  | SWITCH, A/E DISCHARGE TEMP  | 1   |                  |
| S4   | 36868479  | SWITCH, ENGINE WATER TEMP   | 1   |                  |
| S5   | 36878379  | SWITCH, ENGINE OIL PRESSURE | 1   |                  |
| U1   | 22515860  | MODULE, ELECTRONIC          | 1   |                  |
| W1   | 22474456  | HARNESS, CHASSIS            | 1   |                  |

# TAIL LIGHT WIRING DIAGRAM TAIL LIGHT WIRING DIAGRAM



## PLUG / SOCKET WIRING CONNECTIONS



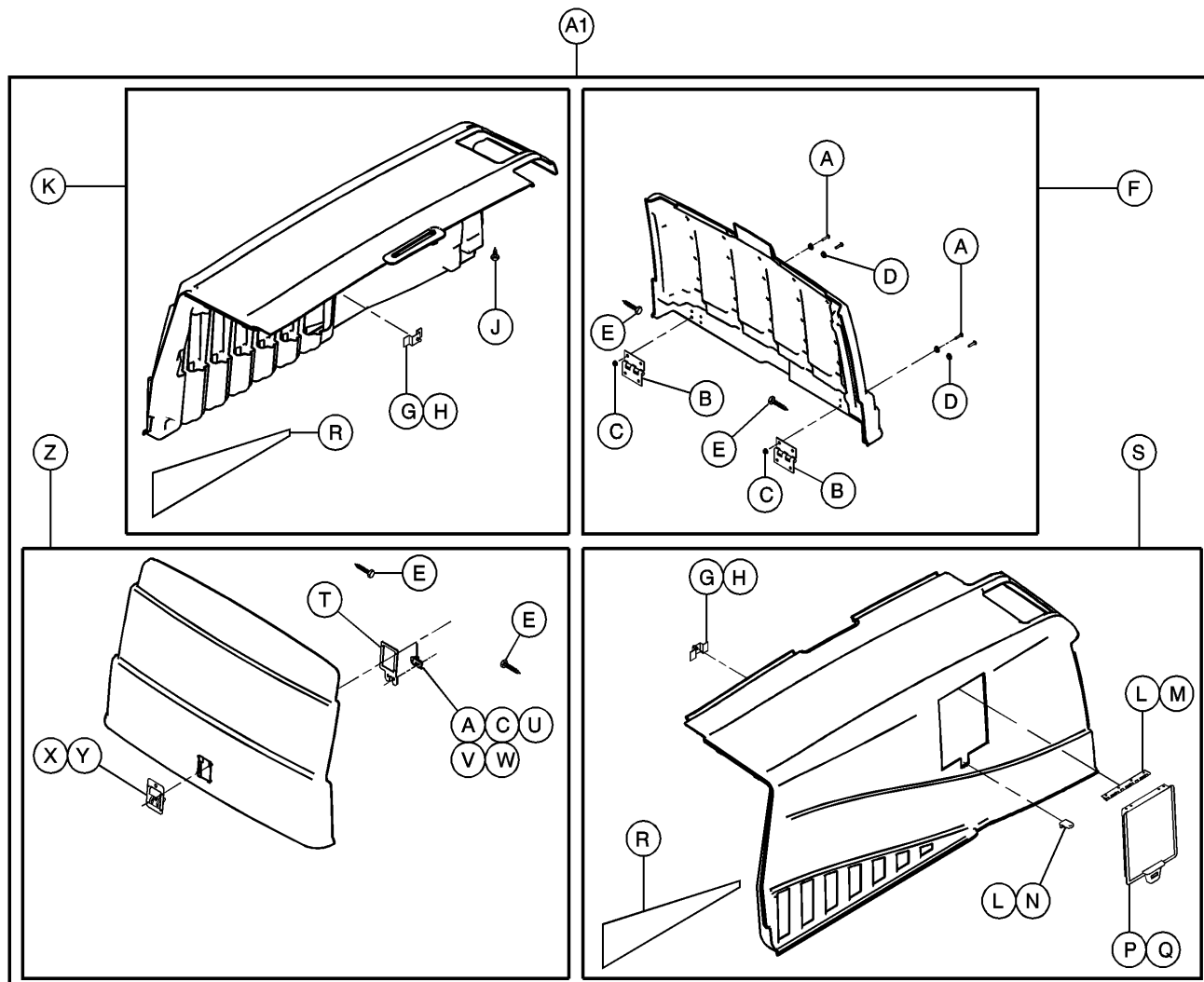
- 1 WHITE - GROUND
- 2 YELLOW - LEFT STOP/TURN SIGNAL
- 3
- 4 GREEN - RIGHT STOP/TURN SIGNAL
- 5 BROWN - TAIL / CLEARANCE LIGHTS
- 6 BLUE - ELECTRIC BRAKES

22546964\_026\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION        | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------|-----|------------------|
| DS1  | 36788081  | LIGHT, STOP / TAIL | 1   |                  |
| DS2  | 36788081  | LIGHT, STOP / TAIL | 1   |                  |
| DS3  | 54726468  | LIGHT, LICENSE     | 1   |                  |
| DS4  | 35367044  | LIGHT, RED SIDE    | 1   |                  |
| DS5  | 35367051  | LIGHT, AMBER SIDE  | 1   |                  |
| DS6  | 35367044  | LIGHT, RED SIDE    | 1   |                  |
| DS7  | 35367051  | LIGHT, AMBER SIDE  | 1   |                  |
| W2   | 22515027  | HARNESS, LIGHT     | 1   |                  |

# CANOPY ASSEMBLY

## CANOPY ASSEMBLY

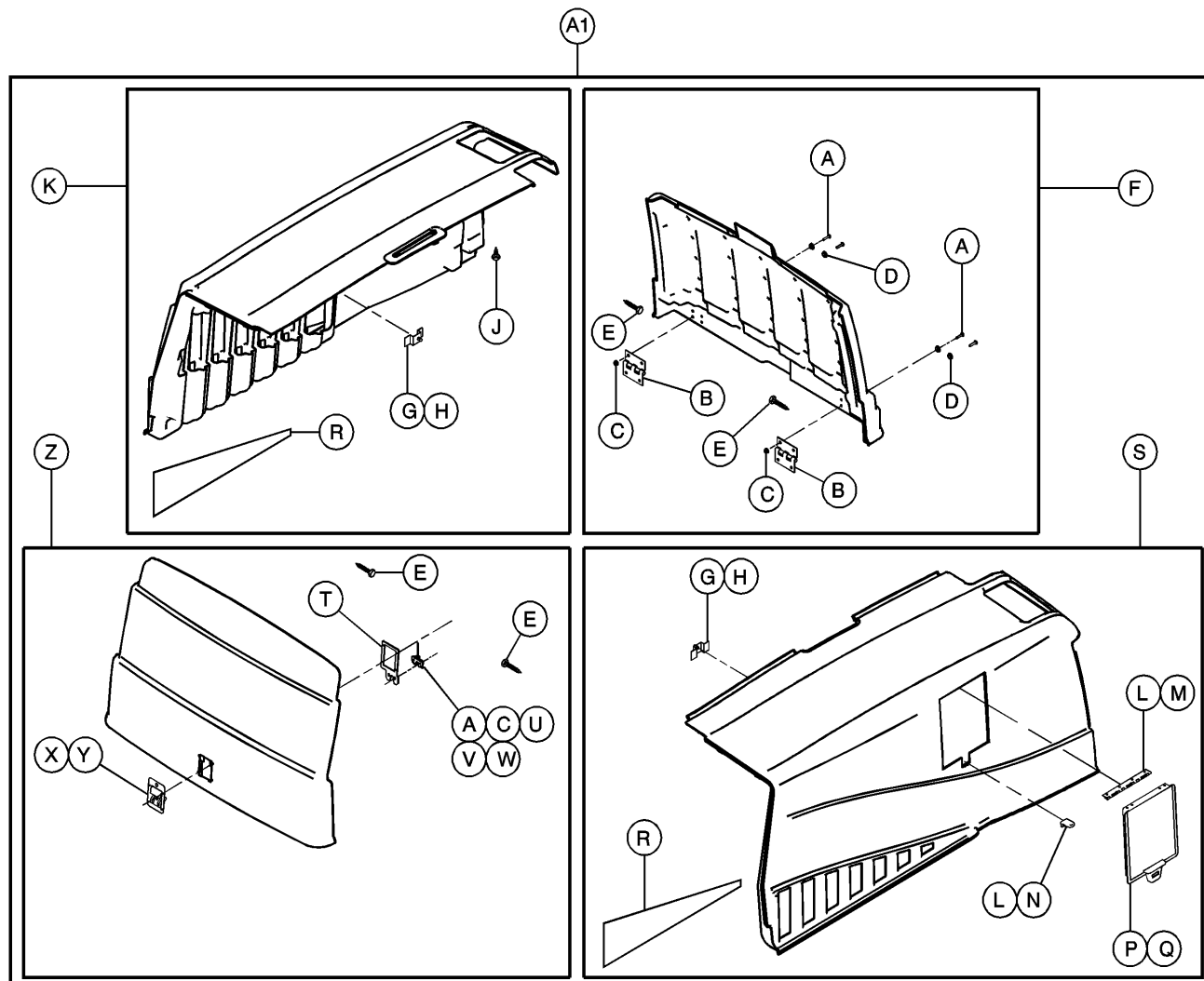


22546964\_027\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                      | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------------|-----|------------------|
| A    | 96741129  | SCREW, HEX SOC CAP M08-1.25 X 30 | 6   |                  |
| B    | 22441612  | HINGE, BUTT REVERSE ASSEMBLY     | 2   |                  |
| C    | 96728431  | NUT, NYLOC M08-1.25              | 6   |                  |
| D    | 22517510  | SPACER, 8.5 ID X 13.0 OD         | 4   |                  |
| E    | 22580104  | SCREW, HEX HD TYPE AB #14 X 2.0" | 14  |                  |
| F    | 22554679  | FRONT CANOPY ASSEMBLY            | 1   |                  |
| G    | 22580179  | BRACKET, BALL STUD               | 2   |                  |
| H    | 36797652  | SCREW, TAPPING M06-1.0 X 12      | 4   |                  |
| J    | 22580112  | SCREW, HEX HD TYPE AB #14 X 3/4" | 16  |                  |
| K    | 22554703  | CURB SIDE CANOPY ASSEMBLY        | 1   |                  |
| L    | 22493035  | HINGE, CONTROL PANEL SPRING      | 1   |                  |
| M    | 54721212  | RIVET, 3/16" X 5/8" ALUMINUM     | 6   |                  |
| N    | 22455440  | LATCH, INSTRUMENT PANEL DOOR     | 1   |                  |

# CANOPY ASSEMBLY

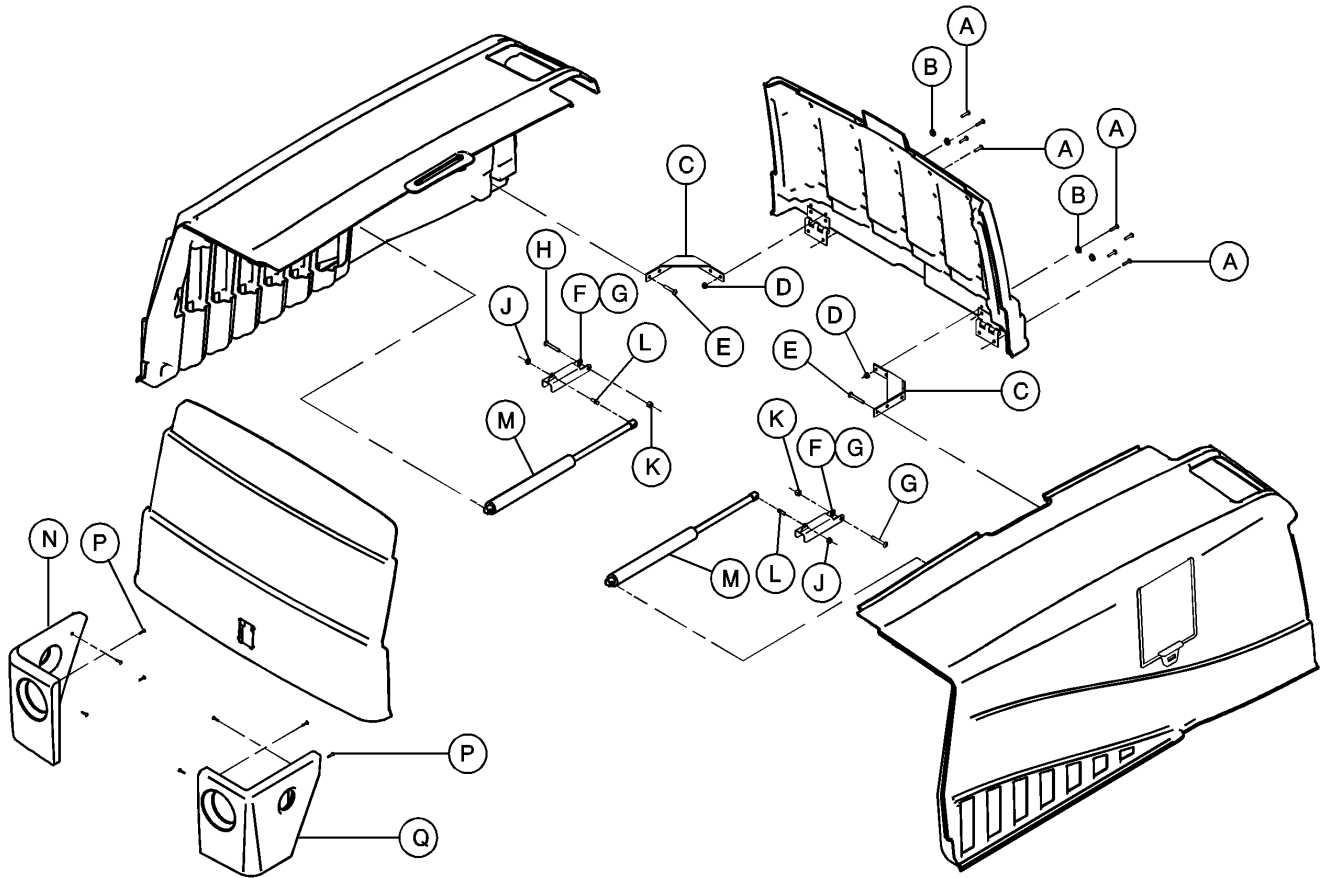
## CANOPY ASSEMBLY



22546964\_027\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                                                                                         | QTY | DIMENSIONS/NOTES   |
|------|-----------|-----------------------------------------------------------------------------------------------------|-----|--------------------|
| P    | 22545719  | DOOR, INSTRUMENT PANEL                                                                              | 1   |                    |
| Q    | 54721220  | RIVET, 3/16" X 7/16" ALUMINUM                                                                       | 4   |                    |
| R    | 22583967  | MESH, CAONPY INLET                                                                                  | 2   |                    |
| S    | 22554711  | STREET SIDE CANOPY ASSEMBLY                                                                         | 1   |                    |
| T    | 22579007  | PLATE, LATCH                                                                                        | 1   |                    |
| U    | 22546907  | LATCH, CANOPY                                                                                       | 1   |                    |
| V    | 22552939  | ROD, LINKAGE                                                                                        | 1   |                    |
| W    | 95928800  | NUT, HEX LOCK #10-32 SS                                                                             | 1   |                    |
| X    | 36793602  | LATCH, SLAM DOOR                                                                                    | 4   |                    |
| Y    | 22579759  | RIVET                                                                                               | 1   |                    |
| Z    | 22554661  | REAR CANOPY ASM.                                                                                    | 1   |                    |
| A1   | 22572259  | CANOPY ASSEMBLY  | 1   | INCLUDES ALL ABOVE |

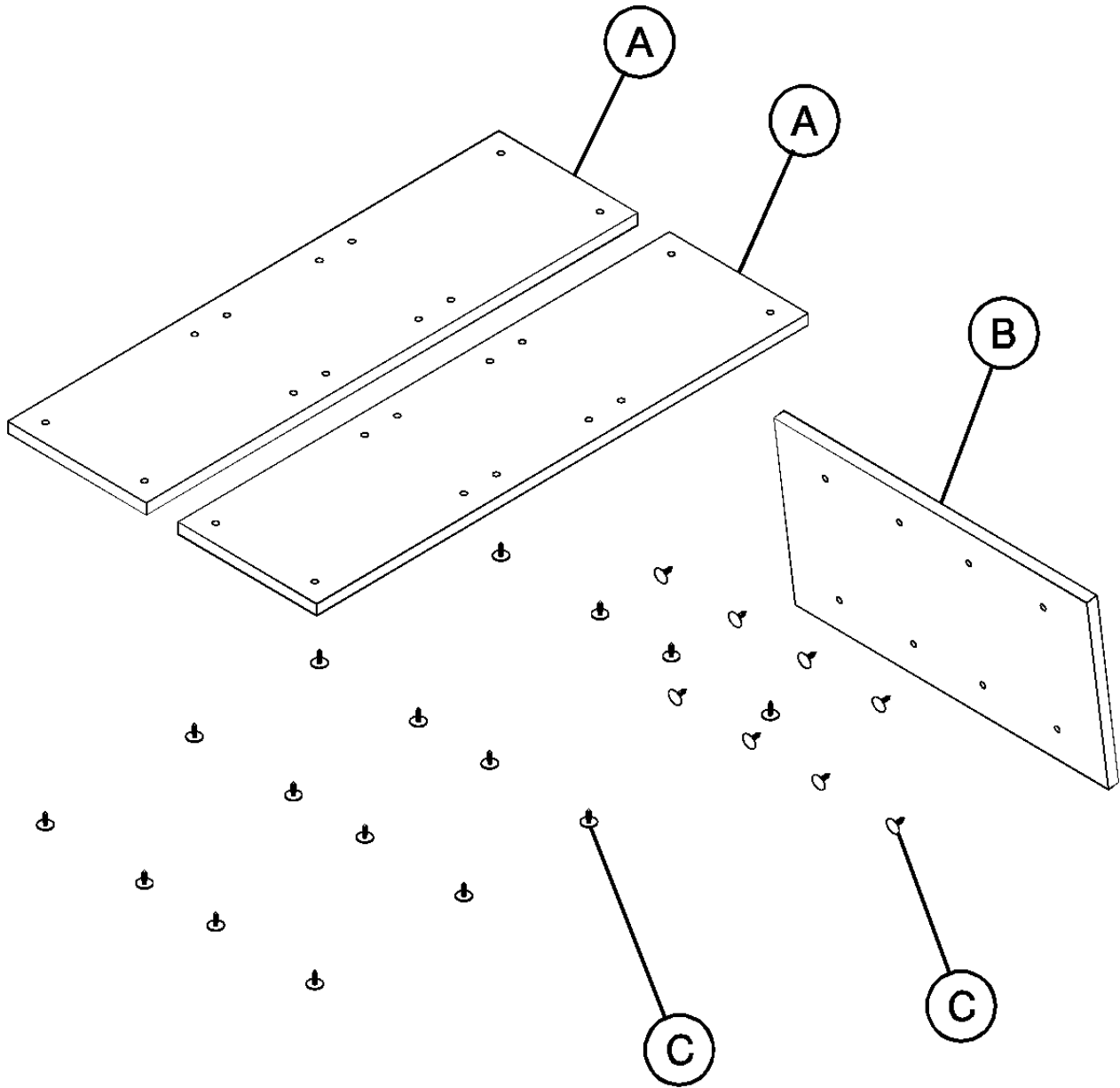
ENCLOSURE COMPLETE  
ENCLOSURE COMPLETE



22546964\_028\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                          | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------------------|-----|------------------|
| A    | 96741129  | SCREW, HEX SOC BUTN HD M08-1.26 X 30 | 8   |                  |
| B    | 22517510  | SPACER, 8.5 ID X 13.0 OD             | 4   |                  |
| C    | 22506182  | BRACKET, CANOPY SUPPORT              | 2   |                  |
| D    | 96728431  | NUT, NYLOC M08-1.25                  | 8   |                  |
| E    | 36797652  | SCREW, TAPPING M06-1.0 X 12          | 6   |                  |
| F    | 22480396  | SUPPORT, GAS SPRING                  | 2   |                  |
| G    | 22501282  | WASHER, NYLON                        | 4   |                  |
| H    | 96748140  | SCREW, SOC HEX M10-1.5 X 60          | 2   |                  |
| J    | 36881886  | NUT, HEX FLANGE M08-1.25             | 2   |                  |
| K    | 96704614  | NUT, LOCK HEX M10-1.5                | 2   |                  |
| L    | 35337328  | STUD, BALL M08-1.25                  | 2   |                  |
| M    | 22584437  | SPRING, GAS                          | 2   |                  |
| N    | 22413165  | BUMPER, LEFT SIDE REAR               | 1   |                  |
| P    | 54721212  | RIVET, 3/16" X 5/8" ALUMINUM         | 8   |                  |
| Q    | 22423354  | BUMPER, RIGHT SIDE REAR              | 1   |                  |

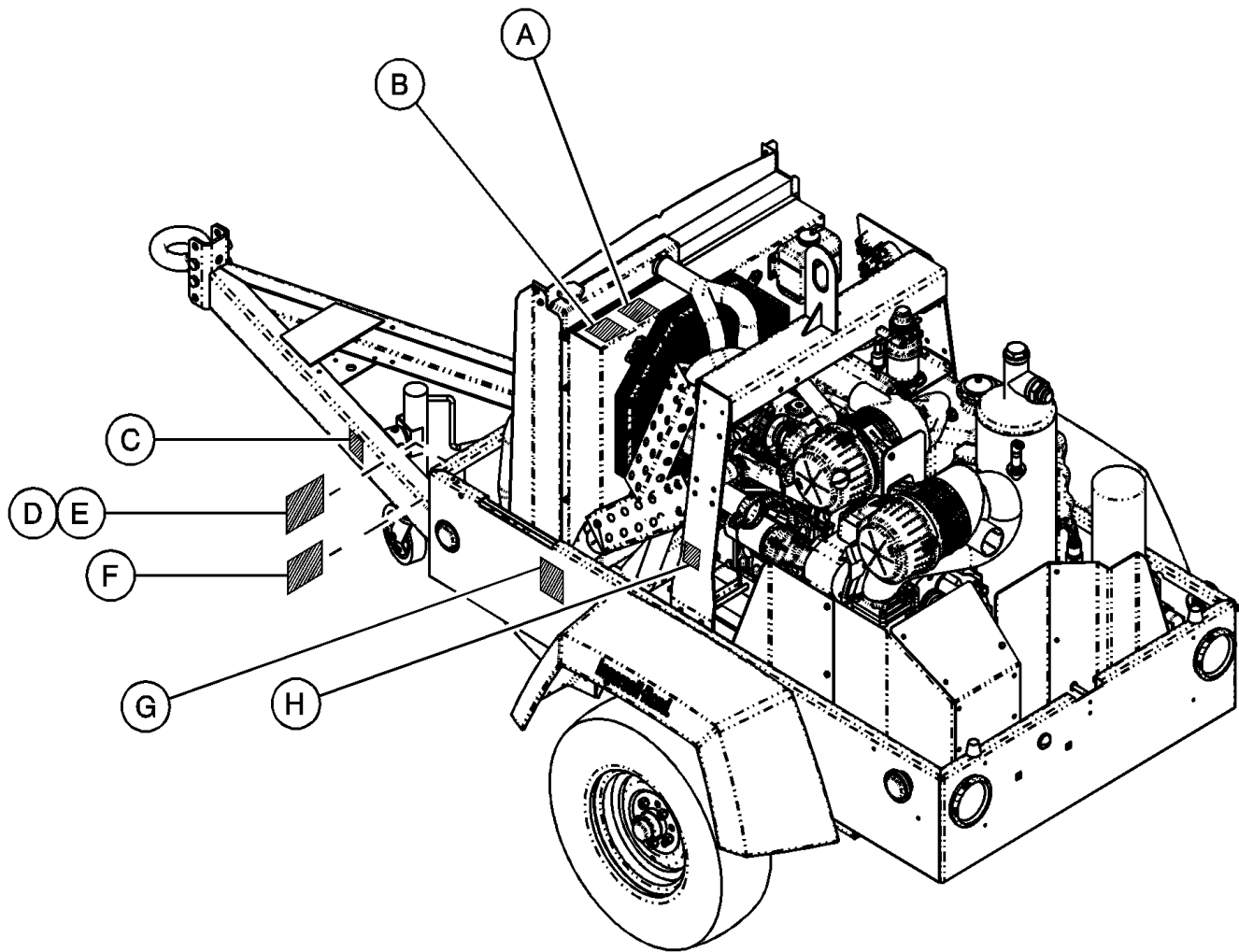
FOAM INSULATION  
FOAM INSULATION



22546964\_031\_1/05\_A

| ITEM | COMM. NO. | DESCRIPTION           | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------|-----|------------------|
| A    | 22605364  | PANEL, ACTL ROOF      | 2   |                  |
| B    | 22598056  | PANEL, ACTL HINGE END | 1   |                  |
| C    | 54724125  | CLIP, XMAS TREE       | 24  |                  |

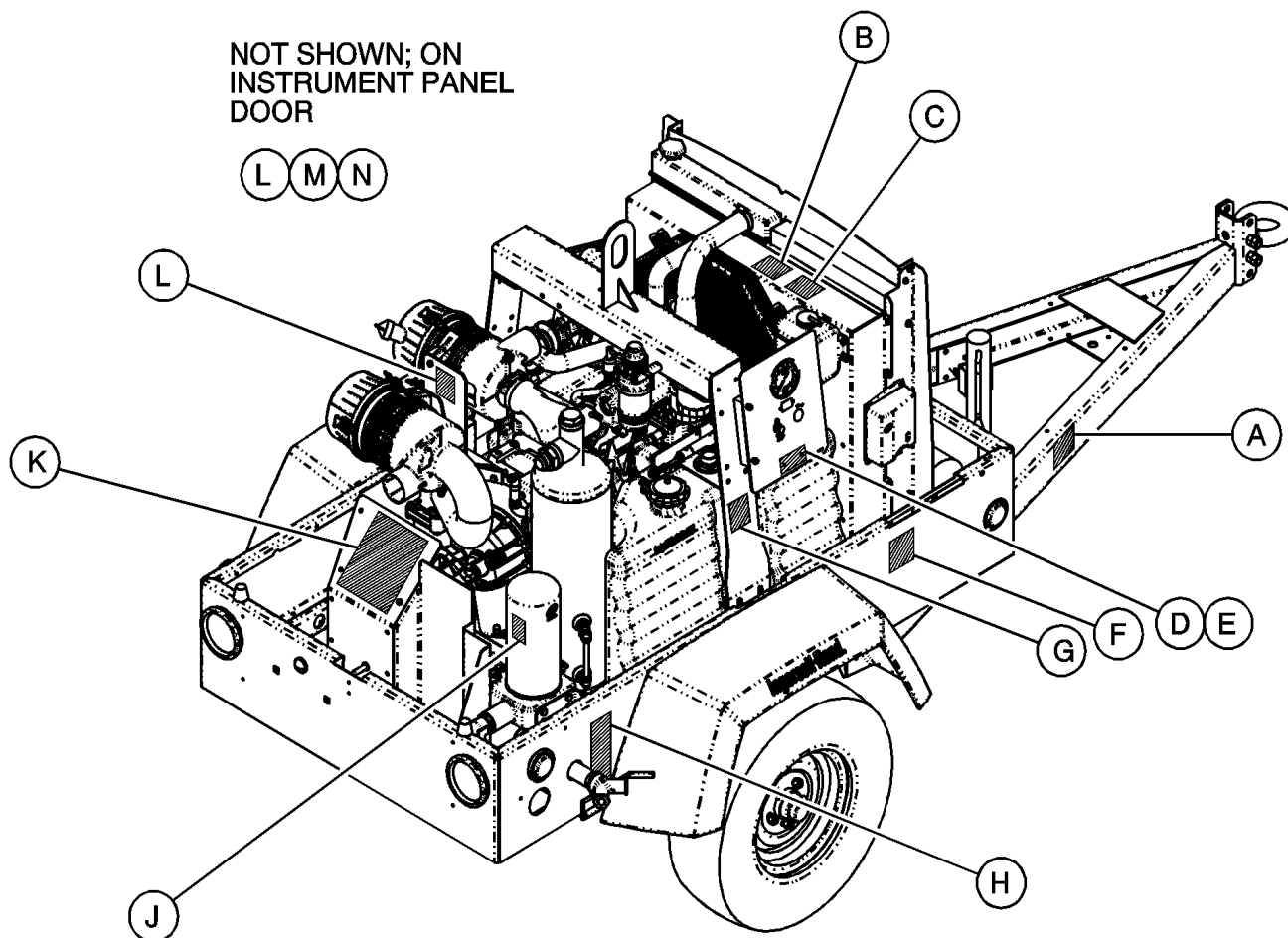
DECAL LOCATION  
DECAL LOCATION



22546964\_030\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                     | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------------------|-----|------------------|
| A    | 54568761  | DECAL ISO HOT PRESSURIZED FLUID | 1   |                  |
| B    | 54568779  | DECAL ISO ROTATING FAN          | 1   |                  |
| C    | 54568803  | DECAL ISO COLLAPSING JACK STAND | 1   |                  |
| D    | 36531176  | DECAL V.I.N.                    | 1   |                  |
| E    | 36533081  | DECAL V.I.N. OVERLAY            | 1   |                  |
| F    | 36514602  | DECAL NOISE EMISSIONS           | 1   |                  |
| G    | 36520955  | DECAL WARNING CRUSH AREA        | 1   |                  |
| H    | 54568753  | DECAL ISO COMBUSTABLE GAS       | 1   |                  |

DECAL LOCATION  
DECAL LOCATION



22546964\_031\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                  | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------|-----|------------------|
| A    | 54604921  | DECAL ISO TOWING             | 1   |                  |
| B    | 54604962  | DECAL ISO HOT RADIATOR FILL  | 1   |                  |
| C    | 54568779  | DECAL ISO ROTATING FAN       | 1   |                  |
| D    | 22389886  | PLATE,SERIAL NUMBER          | 1   |                  |
| E    | 36920486  | RIVET, SS .19 DIA            | 2   |                  |
| F    | 36520955  | DECAL WARNING CRUSH AREA     | 1   |                  |
| G    | 54625207  | DECAL ISO DIESEL FUEL        | 1   |                  |
| H    | 54629944  | DECAL ISO VERT 3-PART        | 1   |                  |
| J    | 54568795  | DECAL ISO HIGH PRESSURE AIR  | 1   |                  |
| K    | 22524284  | DECAL AirSource IR WIRING    | 1   |                  |
| L    | 54454756  | DECAL CAUTION NO ETHER       | 2   |                  |
| M    | 54568787  | DECAL ISO IMPROPER OPERATION | 1   |                  |
| N    | 22610737  | DECAL AirSource OPERATION    | 1   |                  |



## **Section B - ENGINE PARTS**



UPPER GASKET SET  
UPPER GASKET SET



22546980\_eng01\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------|-----|------------------|
|      |           |             |     |                  |

LOWER GASKET SET  
LOWER GASKET SET

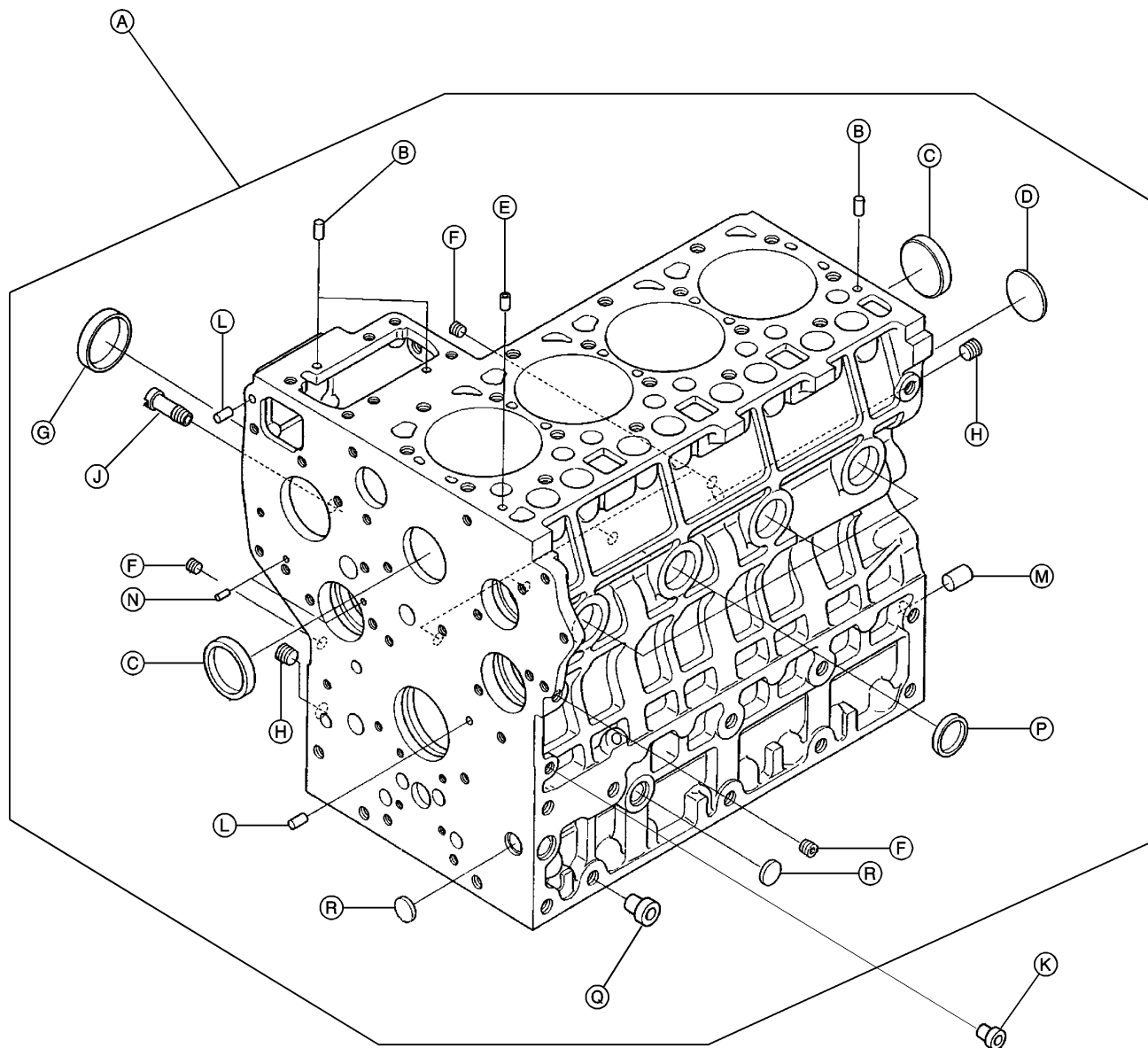


22546980\_eng02\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------|-----|------------------|
|      |           |             |     |                  |

# CRANKCASE ASSEMBLY

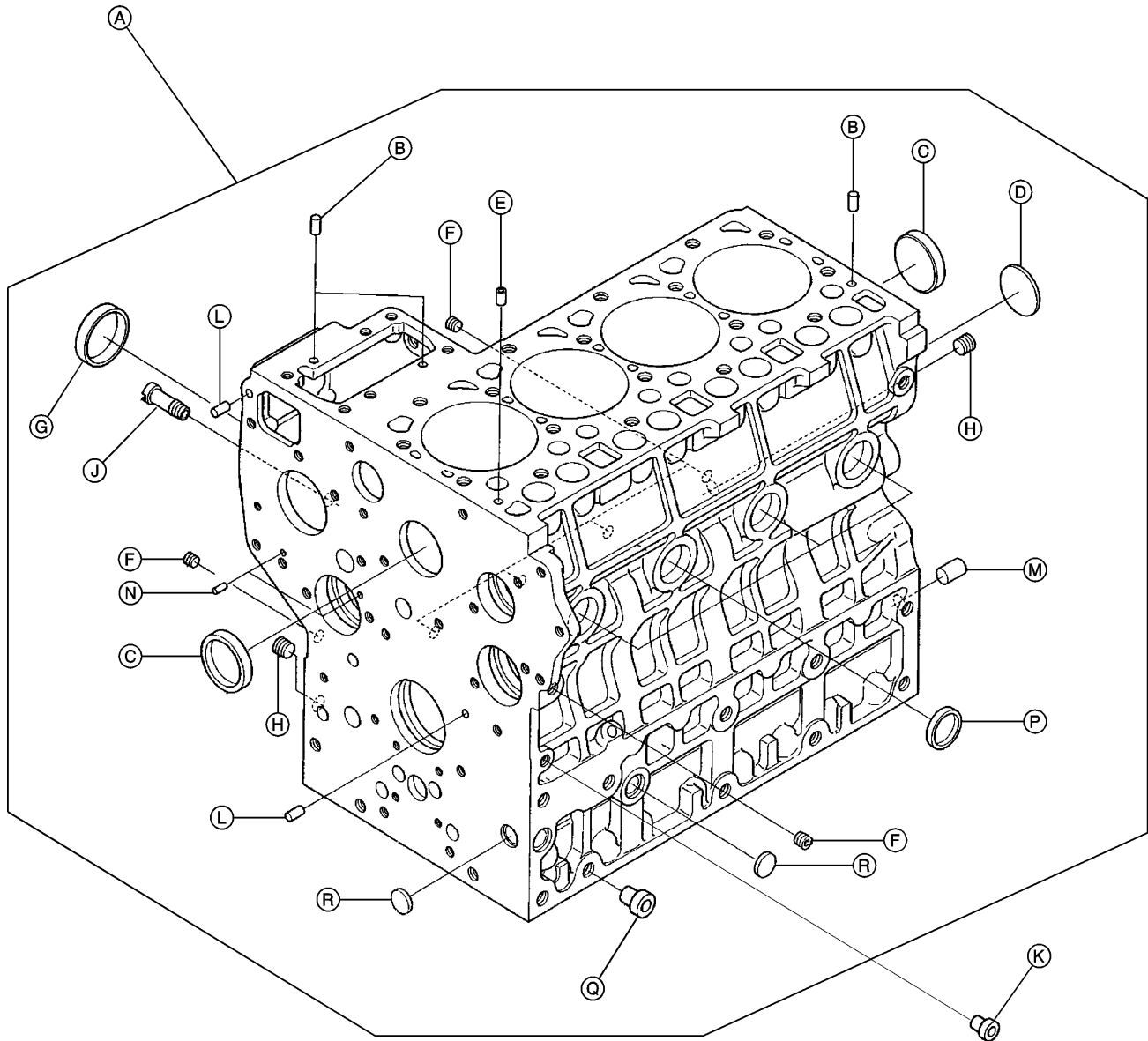
## CRANKCASE ASSEMBLY



22546980\_eng03\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION        | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------|-----|------------------|
| A    | 22568190  | CRANKCASE COMPLETE | 1   |                  |
| B    | 22594782  | PIN, STRAIGHT      | 3   |                  |
| C    | 22586556  | CAP, SEALING       | 1   |                  |
| D    | 22587414  | PLUG, EXPANSION    | 1   |                  |
| E    | 22586697  | PIN, PIPE          | 1   |                  |
| F    | 22587034  | PLUG               | 6   |                  |
| G    | 22595185  | CAP, SEALING       | 1   |                  |
| H    | 22587042  | PLUG               | 2   |                  |
| J    | 22595078  | PIPE, WATER RETURN | 1   |                  |

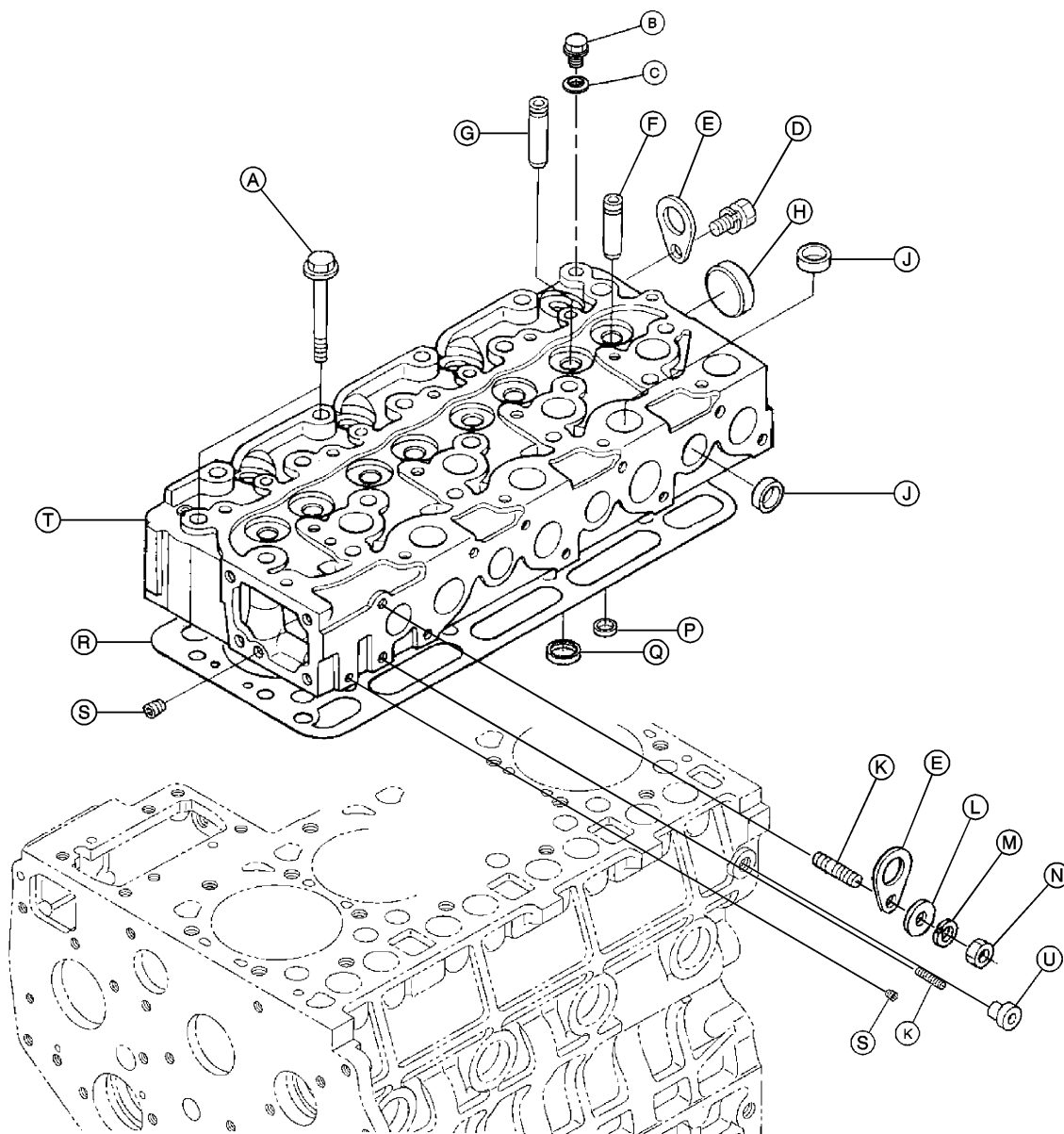
# CRANKCASE ASSEMBLY CRANKCASE ASSEMBLY



22546980\_eng03\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION     | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------|-----|------------------|
| K    | 22595813  | PLUG            | 1   |                  |
| L    | 22594790  | PIN, STRAIGHT   | 2   |                  |
| M    | 22594808  | PIN, STRAIGHT   | 1   |                  |
| N    | 22594774  | PIN, STRAIGHT   | 2   |                  |
| P    | 22586549  | CAP, SEALING    | 6   |                  |
| Q    | 22589220  | PLUG            | 2   |                  |
| R    | 22587646  | PLUG, EXPANSION | 3   |                  |

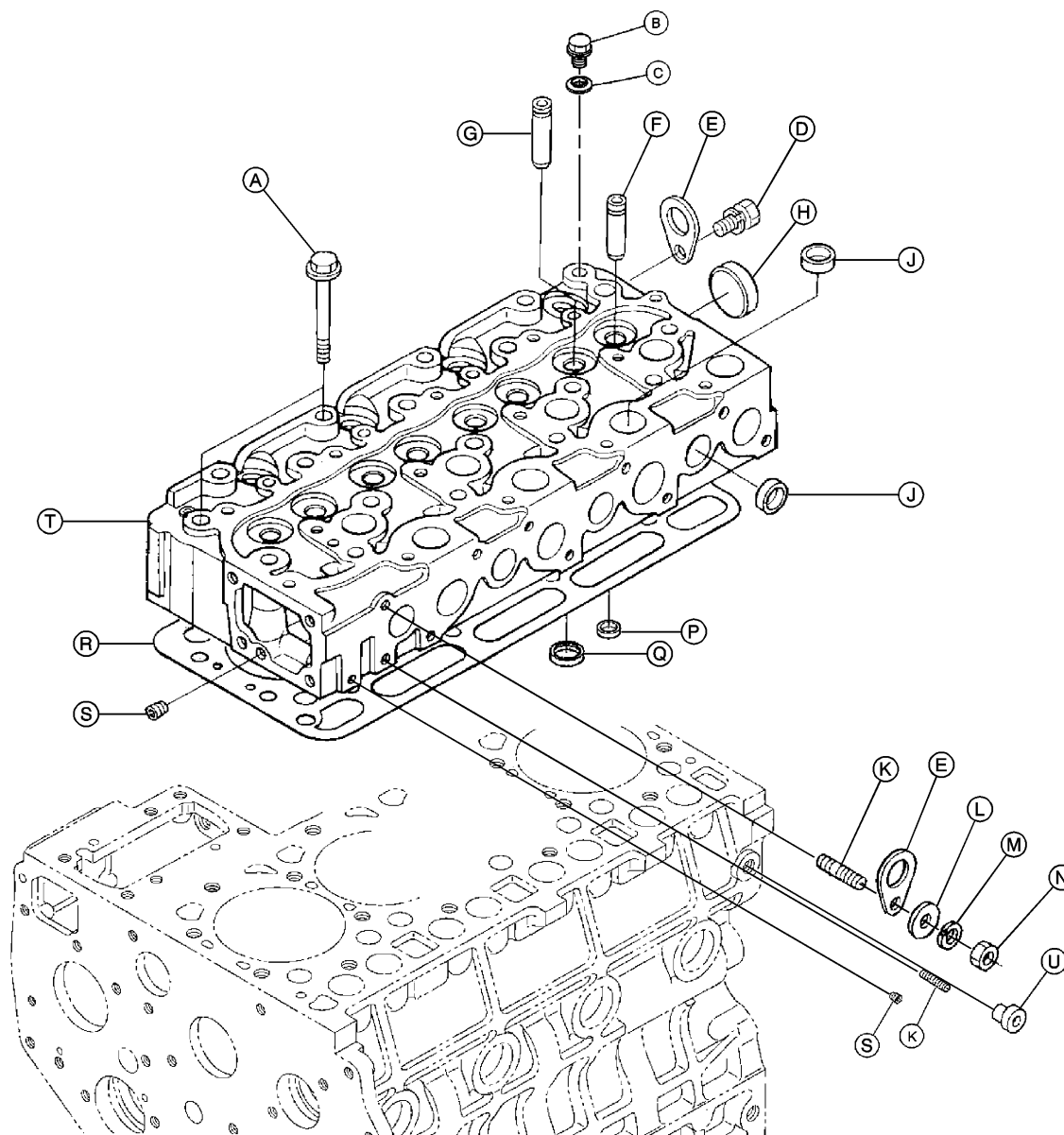
CYLINDER HEAD ASSEMBLY  
CYLINDER HEAD ASSEMBLY



22546980\_eng04\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION           | QTY | DIMENSIONS/NOTES |
|------|-----------|-----------------------|-----|------------------|
| A    | 22568034  | BOLT, CYLINDER HEAD   | 18  | L=16             |
| B    | 22595011  | PLUG                  | 1   |                  |
| C    | 22594667  | WASHER, RUBBER INSERT | 1   |                  |
| D    | 22594337  | BOLT                  | 1   |                  |
| E    | 22586523  | HOOK, ENGINE          | 2   |                  |
| F    | 22595342  | GUIDE, EXHAUST VALVE  | 4   |                  |
| G    | 22587570  | GUIDE, INLET VALVE    | 4   |                  |
| H    | 22586572  | CAP, SEALING          | 1   |                  |
| J    | 22586531  | CAP, SEALING          | 12  |                  |
| K    | 22586929  | STUD                  | 2   |                  |
| L    | 22594592  | WASHER, PLAIN         | 1   |                  |
| M    | 22594634  | WASHER, SPRING LOCK   | 1   |                  |
| P    |           |                       |     |                  |
| Q    |           |                       |     |                  |
| R    |           |                       |     |                  |
| S    |           |                       |     |                  |
| T    |           |                       |     |                  |
| U    |           |                       |     |                  |

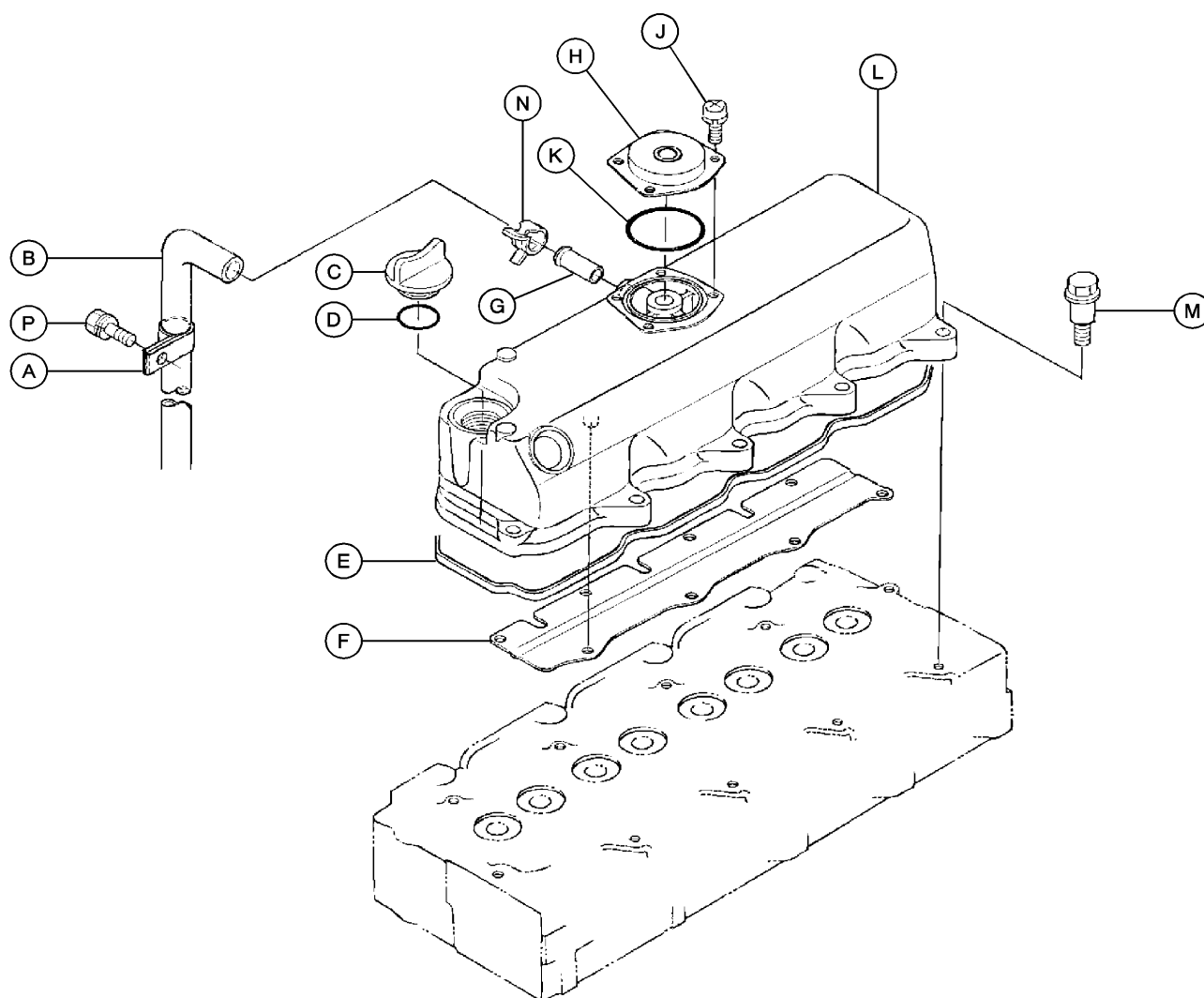
CYLINDER HEAD ASSEMBLY  
CYLINDER HEAD ASSEMBLY



22546980\_eng04\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                  | QTY | DIMENSIONS/NOTES          |
|------|-----------|------------------------------|-----|---------------------------|
| N    | 22594519  | NUT                          | 1   |                           |
| P    | 22595193  | SEAT, EXHAUST VALVE          | 4   |                           |
| Q    | 22595201  | SEAT, INLET VALVE            | 4   |                           |
| R    | 22588412  | GASKET, CYLINDER HEAD        | 1   | t=1.15mm                  |
|      | 22568265  | GASKET, CYLINDER HEAD        | 1   | t=1.20mm                  |
|      | 22568273  | GASKET, CYLINDER HEAD        | 1   | t=1.25mm                  |
|      | 22588420  | GASKET, CYLINDER HEAD        | 1   | t=1.30mm                  |
|      | 22588438  | GASKET, CYLINDER HEAD        | 1   | t=1.35mm                  |
| S    | 22586796  | PLUG                         | 2   |                           |
| T    | 22568257  | CYLINDER HEAD ASSEMBLY       | 1   | INCLUDES ITEMS F-J, Q & S |
| U    | 96746334  | ADAPTER, OIL PRESSURE SWITCH | 1   |                           |

VALVE COVER  
VALVE COVER

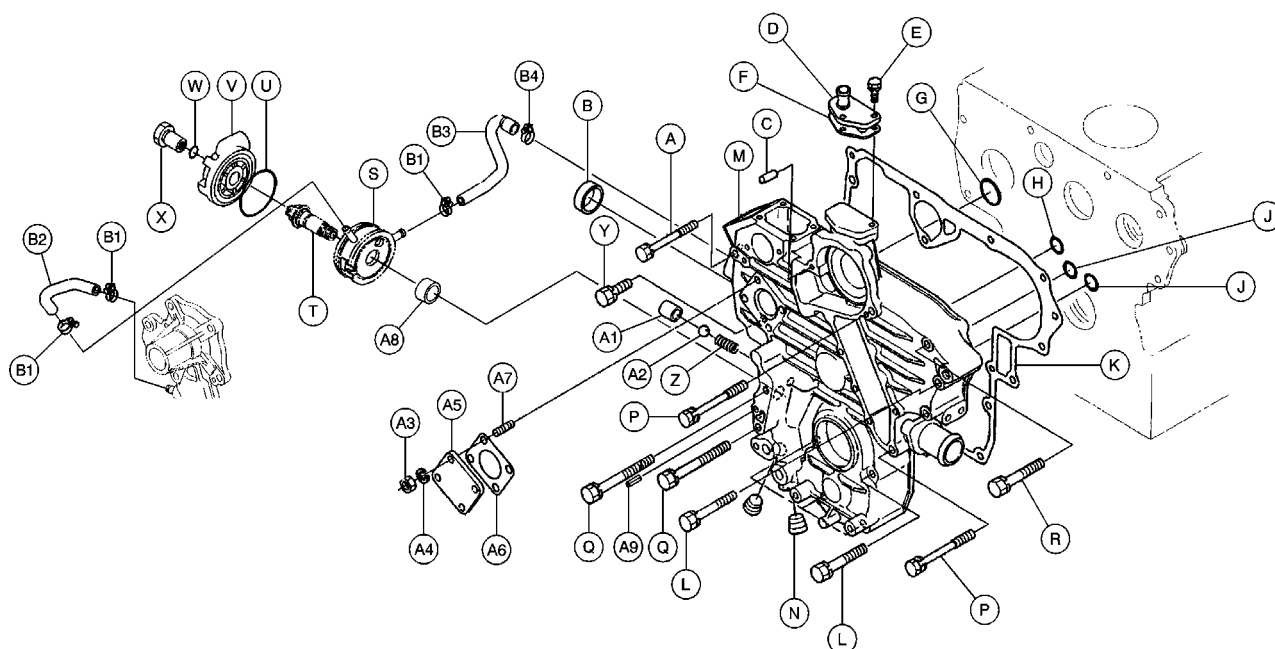


22546980\_eng05\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                     | QTY | DIMENSIONS/NOTES   |
|------|-----------|---------------------------------|-----|--------------------|
| A    | 22588099  | CLAMP, BREATHER TUBE            | 1   | INCLUDES ITEMS F-K |
| B    | 22588941  | TUBE, BREATHER                  | 1   |                    |
| C    | 22567903  | PLUG, OIL FILLER                | 1   |                    |
| D    | 22567820  | O RING                          | 1   |                    |
| E    | 22568331  | GASKET, VALVE COVER             | 1   |                    |
| F    | 22588818  | SHIELD, BREATHER                | 1   |                    |
| G    | 22587612  | PIPE, WATER RETURN              | 1   |                    |
| H    | 22595516  | COVER, BREATHER                 | 1   |                    |
| J    | 22594576  | SCREW, WITH WASHER M05-0.8 X 10 | 4   |                    |
| K    | 22588933  | O RING, BREATHER                | 1   |                    |
| L    | 22588404  | VALVE COVER ASSEMBLY            | 1   |                    |
| M    | 22588909  | BOLT                            | 10  |                    |
| N    | 22586382  | CLAMP, HOSE                     | 1   |                    |
| P    | 22567788  | BOLT, HEX M08-1.25 X 22         | 1   |                    |

# GEAR CASE

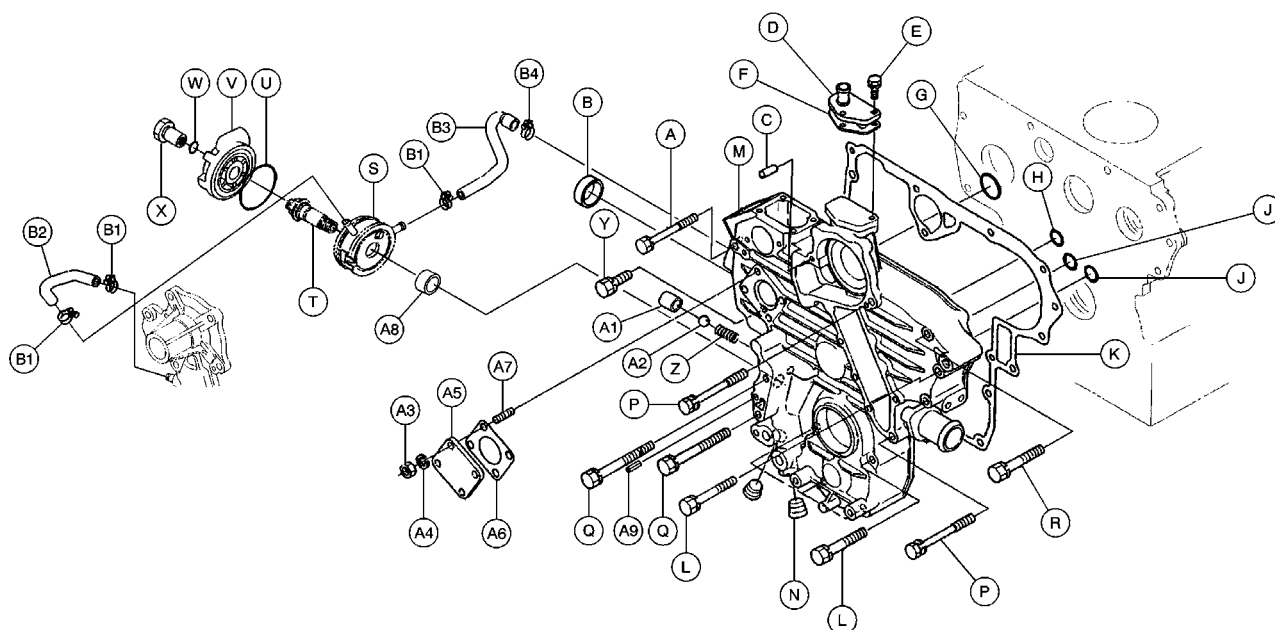
## GEAR CASE



22546980\_eng06\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------|-----|------------------|
| A    | 22587620  | BOLT                     | 1   |                  |
| B    | 22595029  | CAP, SEALING             | 1   |                  |
| C    | 22594790  | PIN, STRAIGHT            | 2   |                  |
| D    | 22587018  | FLANGE, WATER RETURN     | 1   |                  |
| E    | 22594162  | BOLT, HEX M06-1.0 X 20   | 3   |                  |
| F    | 22587927  | GASKET, RETURN FLANGE    | 1   |                  |
| G    | 22594758  | O-RING                   | 1   |                  |
| H    | 22594725  | O-RING                   | 1   |                  |
| J    | 22594741  | O-RING                   | 2   |                  |
| K    | 22568067  | GASKET, GEAR CASE        | 1   |                  |
| L    | 22594303  | BOLT, HEX M08-1.25 X 70  | 7   |                  |
| M    | 22595409  | GEAR CASE COMPLETE       | 1   | includes item N  |
| N    | 22587406  | PLUG                     | 2   |                  |
| P    | 22587638  | BOLT                     | 2   |                  |
| Q    | 22594360  | BOLT, HEX M08-1.25 X 110 | 2   |                  |
| R    | 22594386  | BOLT, HEX M08-1.25 X 80  | 2   |                  |
| S    | 22588362  | OIL COOLER ASSEMBLY      | 1   |                  |
| T    | 22588354  | CONNECTOR                | 1   |                  |

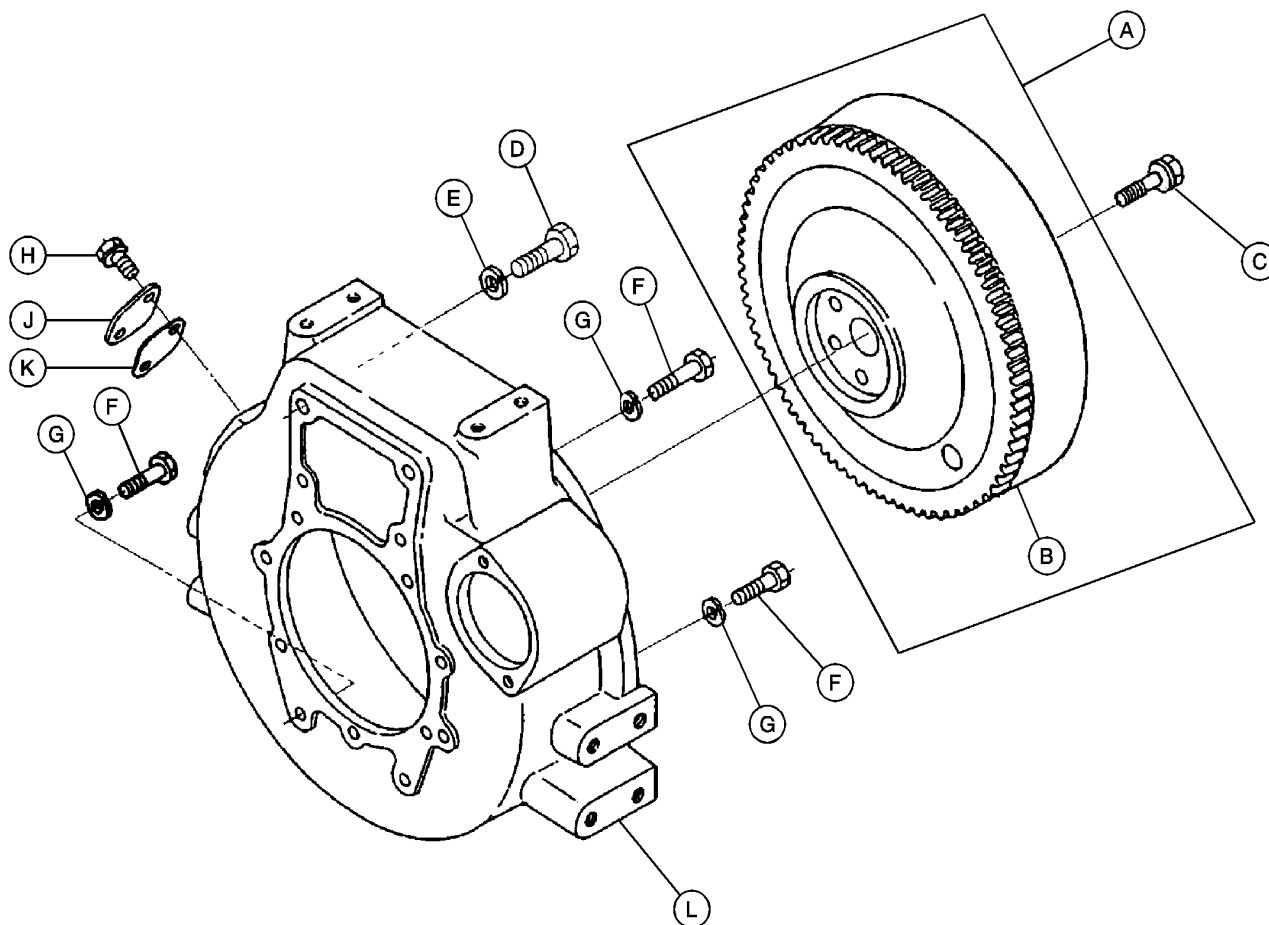
GEAR CASE



22546980\_eng06\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------|-----|------------------|
| U    | 22568059  | O-RING                   | 1   |                  |
| V    | 22568208  | ADAPTER, REMOTE OIL FILL | 1   |                  |
| W    | 22567812  | O-RING                   | 1   |                  |
| X    | 22595417  | PLUG, OIL FILTER         | 1   |                  |
| Y    | 22594279  | BOLT, HEX M08-1.25 X 35  | 1   |                  |
| Z    | 22586770  | SPRING                   | 1   |                  |
| A1   | 22586994  | SEAT, VALVE              | 1   |                  |
| A2   | 22586374  | BALL                     | 1   |                  |
| A3   | 22594493  | NUT                      | 4   |                  |
| A4   | 22594626  | WASHER, SPRING LOCK      | 4   |                  |
| A5   | 22586762  | COVER                    | 1   |                  |
| A6   | 22595524  | GASKET, HOUR METER       | 1   |                  |
| A7   | 22586754  | STUD                     | 4   |                  |
| A8   | 22588370  | COLLAR                   | 1   |                  |
| A9   | 22594832  | PIN, SPRING              | 1   |                  |
| B1   | 22595151  | BAND, PIPE               | 3   |                  |
| B2   | 22595466  | HOSE, OIL COOLER         | 1   |                  |
| B3   | 22595326  | HOSE, OIL COOLER         | 1   |                  |
| B4   | 22586390  | CLAMP, HOSE              | 1   |                  |

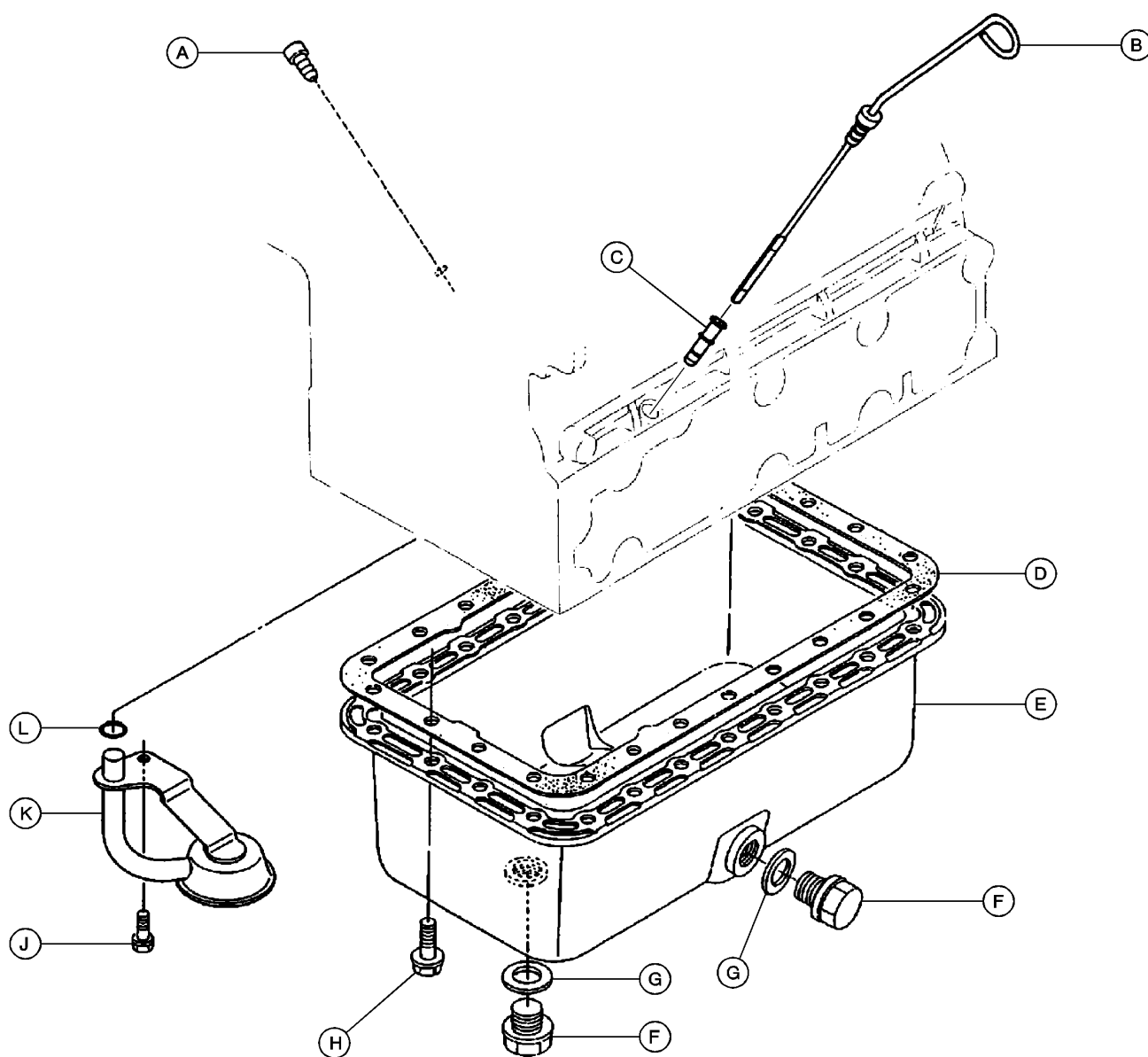
FLYWHEEL  
FLYWHEEL



22546980\_eng07\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION         | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------|-----|------------------|
| A    | 22587547  | FLYWHEEL COMPLETE   | 1   |                  |
| B    | 22595128  | GEAR, RING          | 1   |                  |
| C    | 22586820  | BOLT, FLYWHEEL      | 6   |                  |
| D    | 22594212  | BOLT, M12-1.25 X 50 | 2   |                  |
| E    | 22594659  | WASHER, SPRING LOCK | 2   |                  |
| F    | 22594204  | BOLT, M10-1.25 X 32 | 11  |                  |
| G    | 22594642  | WASHER, SPRING LOCK | 11  |                  |
| H    | 22594337  | BOLT, M08-1.25 X 16 | 2   |                  |
| J    | 22595102  | COVER               | 1   |                  |
| K    | 22595110  | GASKET, COVER       |     |                  |
| L    | 22588339  | HOUSING, FLYWHEEL   | 1   |                  |

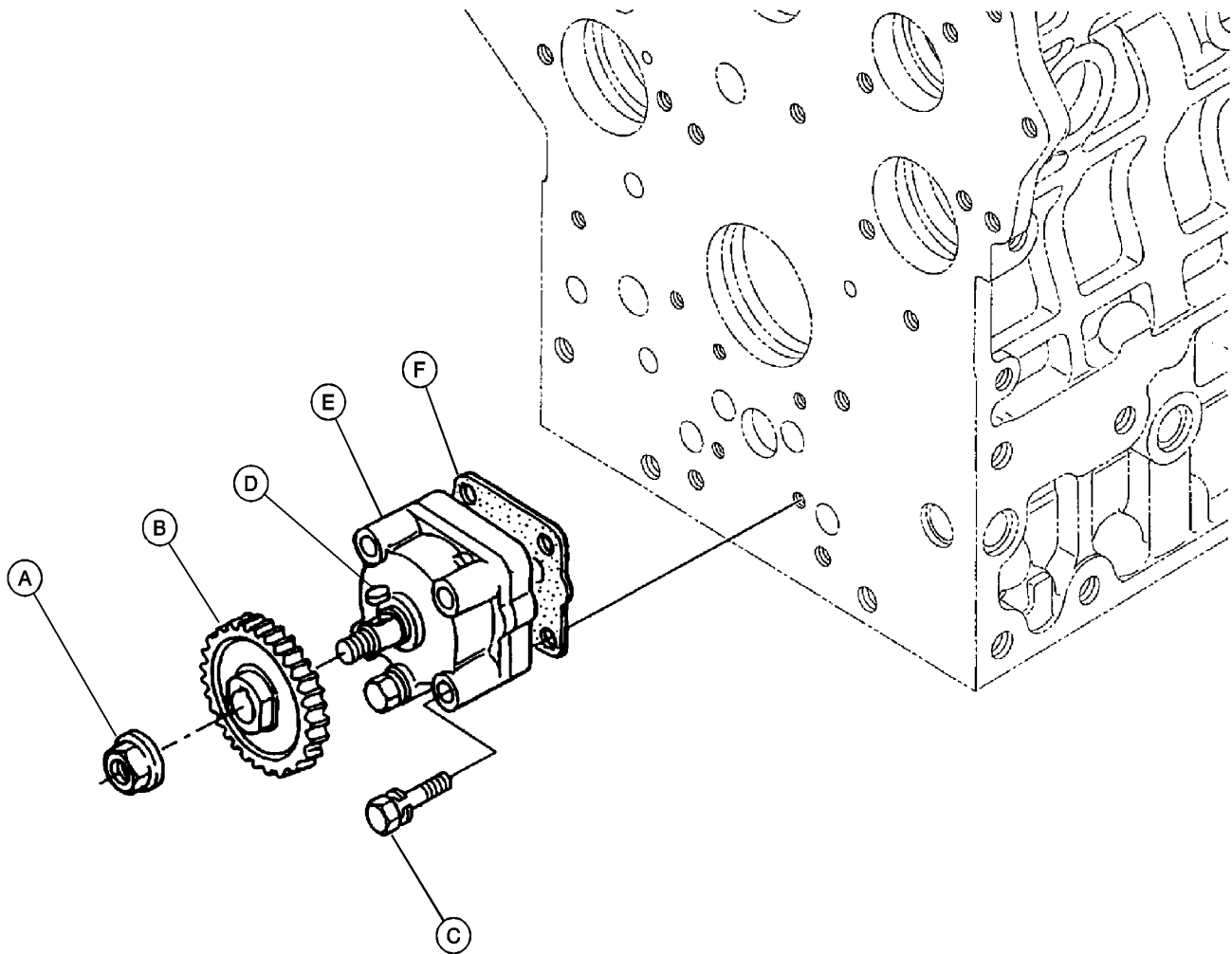
OIL PAN  
OIL PAN



22546980\_eng08\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION         | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------|-----|------------------|
| A    | 22568224  | PLUG, DIPSTICK HOLE | 1   |                  |
| B    | 22568232  | DIPSTICK            | 1   |                  |
| C    | 22568026  | GUIDE, DIPSTICK     | 1   |                  |
| D    | 22568240  | GASKET, OIL PAN     | 1   |                  |
| E    | 22587653  | OIL PAN             | 1   |                  |
| F    | 22567887  | PLUG, DRAIN         | 2   |                  |
| G    | 22567861  | GASKET, OIL PLUG    | 2   |                  |
| H    | 22568000  | BOLT, FLANGE        | 24  |                  |
| J    | 22594311  | BOLT                | 1   |                  |
| K    | 22588644  | SUMP, OIL           | 1   |                  |
| L    | 22594733  | O-RING              | 1   |                  |

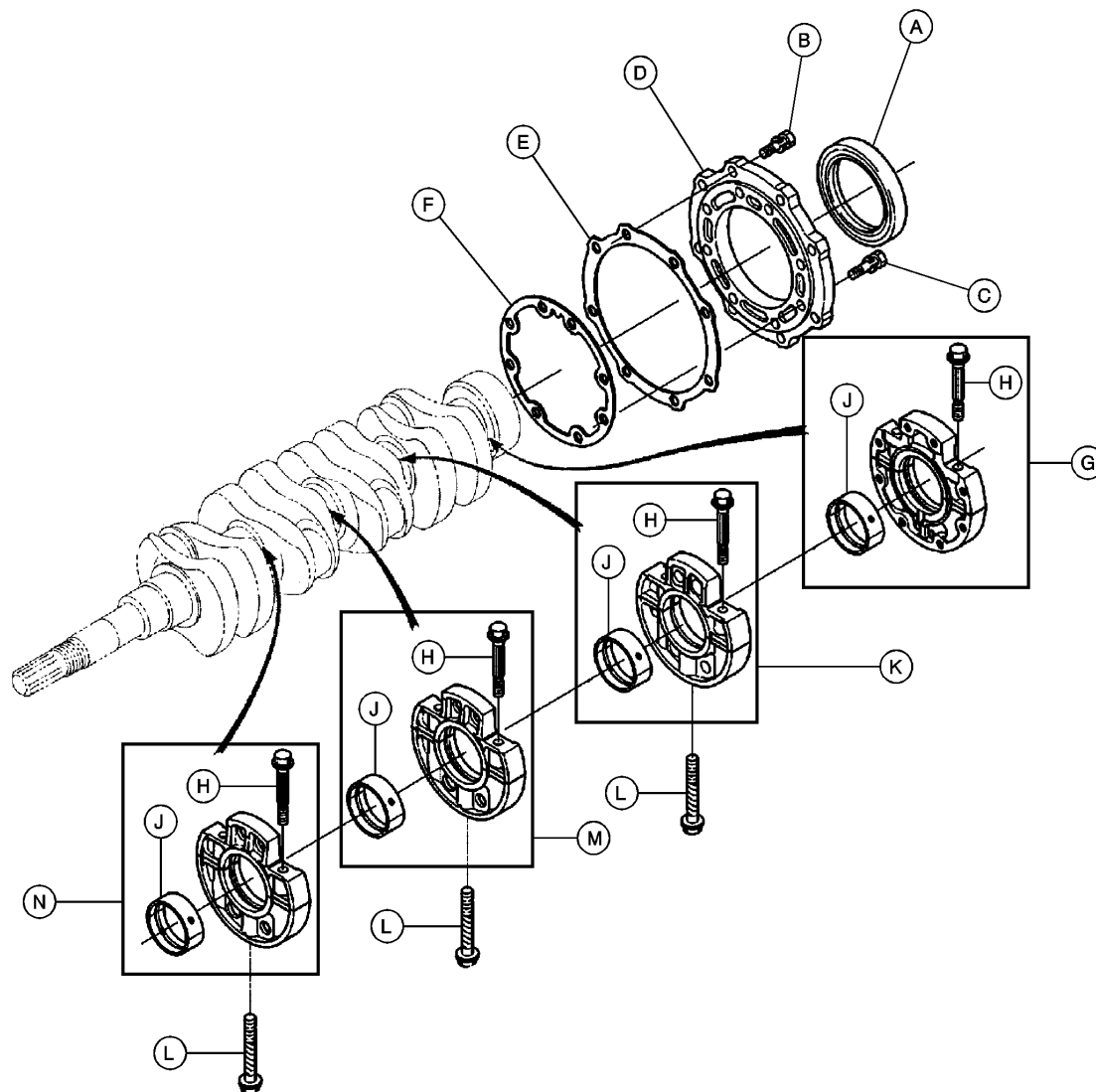
OIL PUMP  
OIL PUMP



22546980\_eng09\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION          | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------|-----|------------------|
| A    | 22586705  | NUT, FLANGE          | 1   |                  |
| B    | 22587729  | GEAR, OIL PUMP DRIVE | 1   |                  |
| C    | 22594188  | BOLT, M06-1.0 X 50   | 4   |                  |
| D    | 22594840  | KEY, FEATHER         | 1   |                  |
| E    | 22588313  | PUMP ASSEMBLY, OIL   | 1   |                  |
| F    | 22587794  | GASKET, OIL PUMP     | 1   |                  |

# CRANKSHAFT BEARINGS CRANKSHAFT BEARINGS

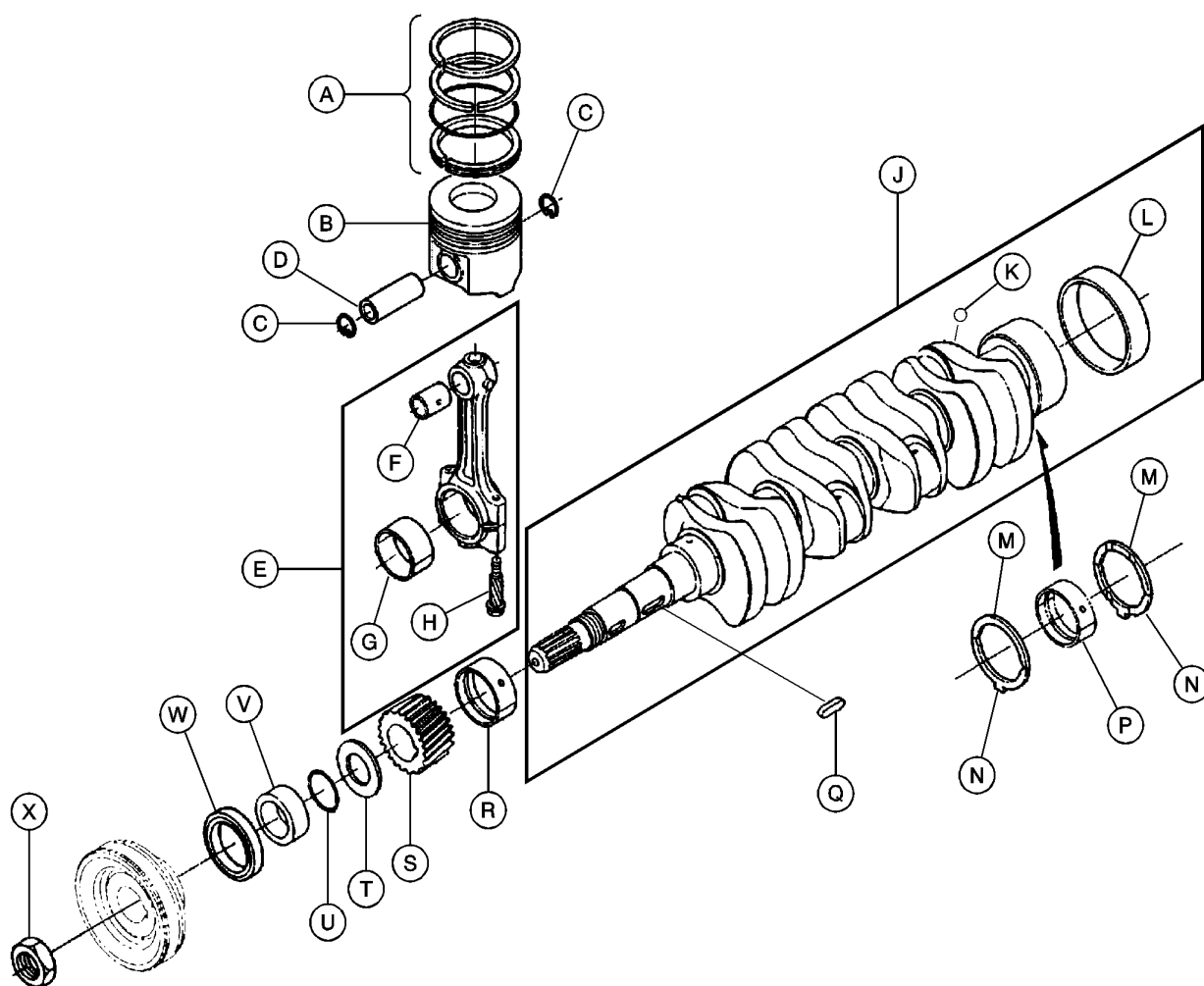


22546980\_eng10\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                  | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------------|-----|------------------|
| A    | 22588784  | SEAL, OIL                    | 1   |                  |
| B    | 22567796  | BOLT, M08-1.25 X 25          | 8   |                  |
| C    | 22594253  | BOLT, M08-1.25 X 28          | 8   |                  |
| D    | 22588669  | COVER, BEARING CASE          | 1   |                  |
| E    | 22588081  | GASKET, CASE COVER           | 1   |                  |
| F    | 22588065  | GASKET, BEARING CASE         | 1   |                  |
| G    | 22587976  | CASE ASSEMBLY, WHEEL BEARING | 1   |                  |
| H    | 22588073  | BOLT, BEARING CASE           | 8   |                  |
| J    | 22588198  | METAL, CRANKSHAFT            | 4   | STD SET          |
|      | 22588222  | METAL, CRANKSHAFT            | 4   | -0.20mm SET      |
|      | 22588230  | METAL, CRANKSHAFT            | 4   | -0.40mm SET      |
| K    | 22588123  | CASE ASSEMBLY, MAIN BEARING  | 1   |                  |
| L    | 22587067  | BOLT, BEARING CASE           | 3   |                  |
| M    | 22588115  | CASE ASSEMBLY, MAIN BEARING  | 1   |                  |
| N    | 22588107  | CASE ASSEMBLY, MAIN BEARING  | 1   |                  |

# CRANKSHAFT AND PISTONS

## CRANKSHAFT AND PISTONS

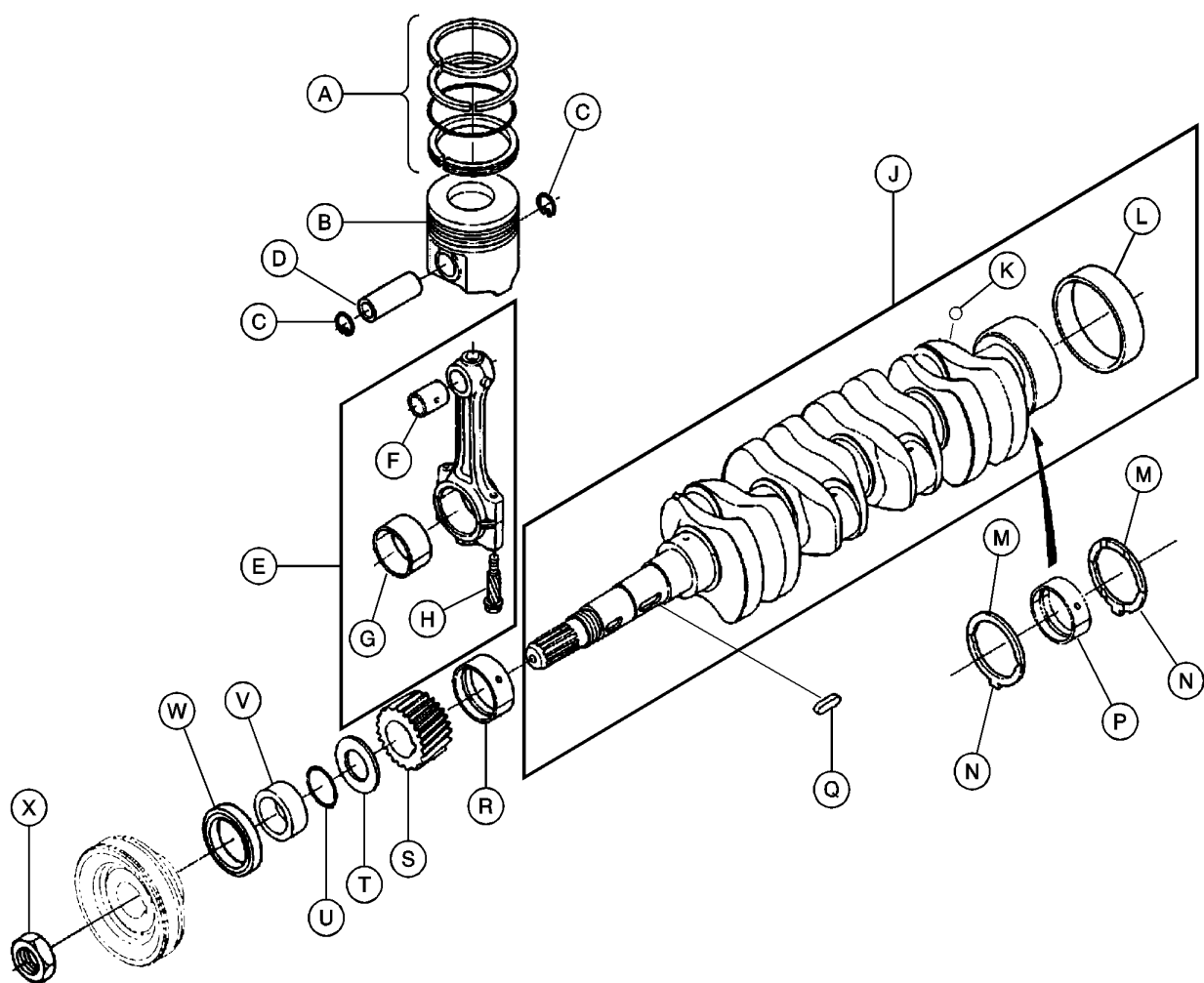


22546980\_eng11\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------|-----|------------------|
| A    | 22589048  | PISTON RING ASSEMBLY     | 4   | STD              |
|      | 22589055  | PISTON RING ASSEMBLY     | 4   | +0.25mm          |
| B    | 22595656  | PISTON (00)              | 4   | STD              |
|      | 22595680  | PISTON (00)              | 4   | +0.25mm          |
|      | 22595664  | PISTON (05)              | 4   | STD              |
|      | 22595698  | PISTON (05)              | 4   | +0.25mm          |
|      | 22595672  | PISTON (10)              | 4   | STD              |
|      | 22595706  | PISTON (10)              | 4   | +0.25mm          |
| C    | 22595383  | RING, INTERNAL RETAINING | 8   |                  |
| D    | 22586473  | PIN, PISTON              | 4   |                  |
| E    | 22589139  | CONNECTING ROD ASSEMBLY  | 4   |                  |
| F    | 22589121  | BUSHING, PISTON PIN      | 4   |                  |

# CRANKSHAFT AND PISTONS

## CRANKSHAFT AND PISTONS

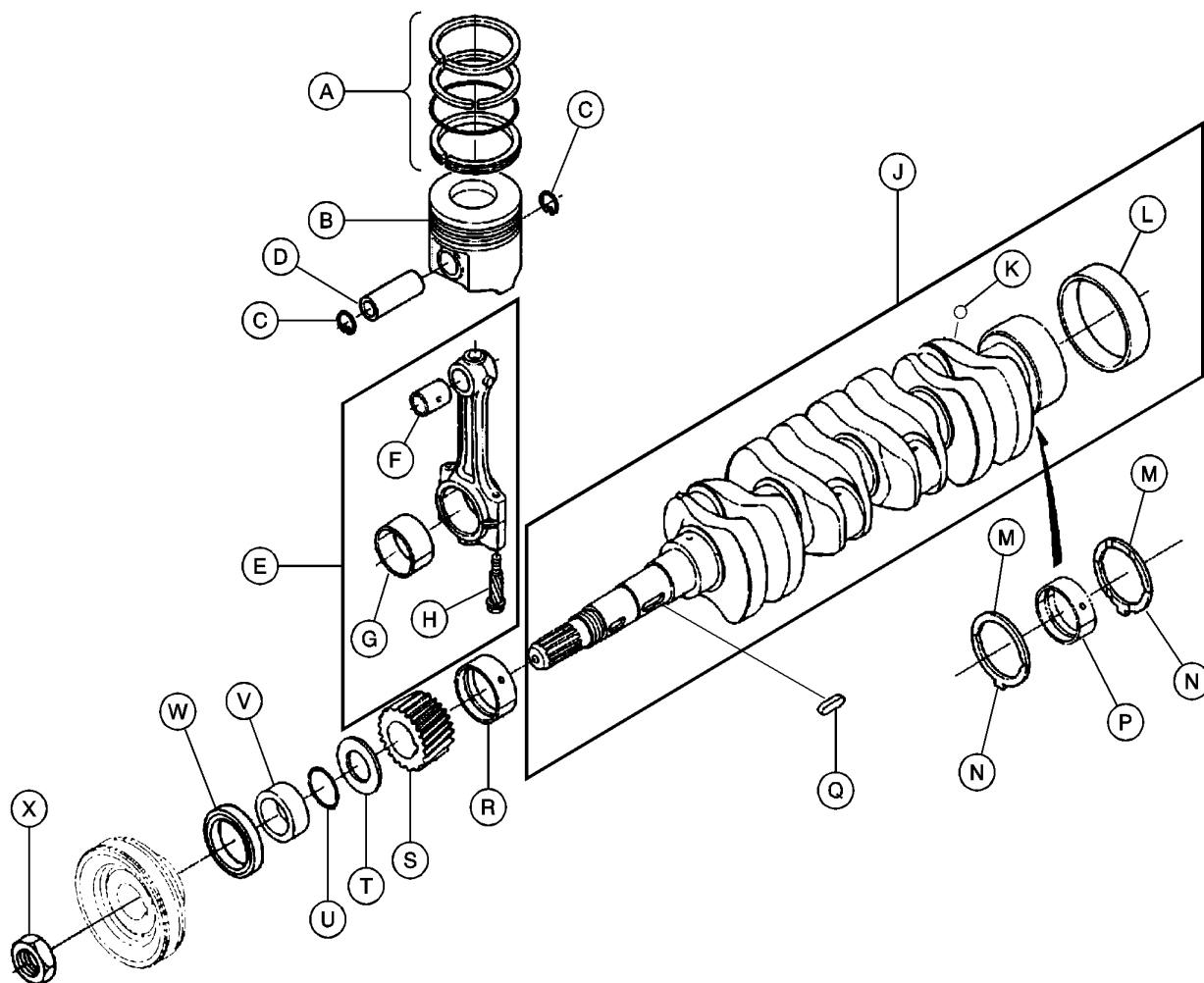


22546980\_eng11\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION          | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------|-----|------------------|
| G    | 22587562  | METAL, CRANKPIN      | 4   | STD SET          |
|      | 22595227  | METAL, CRANKPIN      | 4   | -0.20mm SET      |
|      | 22595235  | METAL, CRANKPIN      | 4   | -0.40mm SET      |
| H    | 22586960  | BOLT, CONNECTING ROD | 8   |                  |
| J    | 22588677  | CRANKSHAFT COMPLETE  | 1   |                  |
| K    | 22595037  | BALL                 | 4   |                  |
| L    | 22587711  | BUSHING, CRANKSHAFT  | 1   |                  |
| M    | 22588248  | METAL, SIDE          | 2   | STD              |
|      | 22588263  | METAL, SIDE          | 2   | +0.20mm          |
|      | 22588271  | METAL, SIDE          | 2   | +0.40mm          |
| N    | 22588255  | METAL, SIDE          | 2   | STD              |
|      | 22588289  | METAL, SIDE          | 2   | +0.20mm          |
|      | 22588297  | METAL, SIDE          | 2   | +0.40mm          |

# CRANKSHAFT AND PISTONS

## CRANKSHAFT AND PISTONS

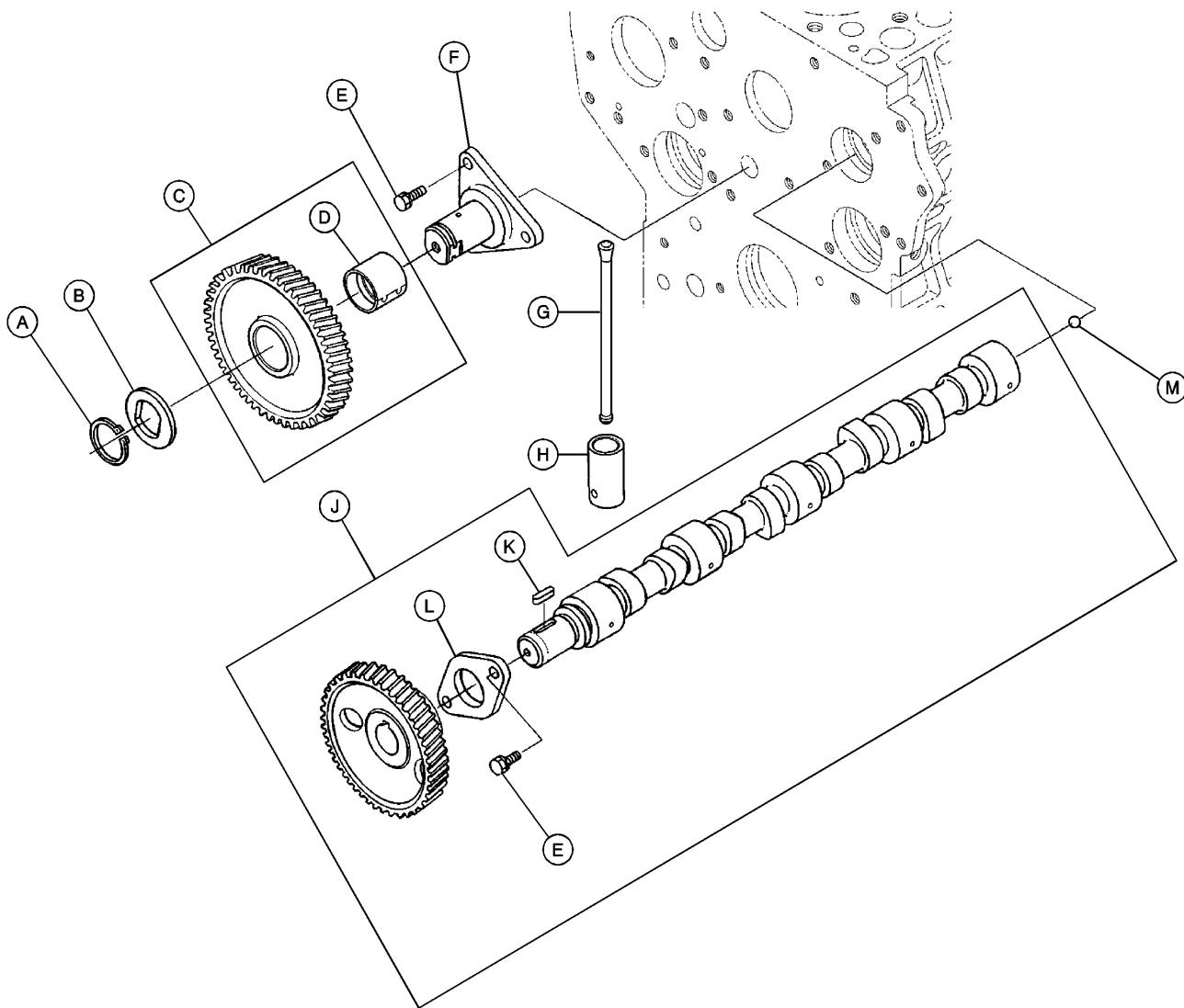


22546980\_eng11\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION        | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------|-----|------------------|
| P    | 22588198  | METAL, CRANKSHAFT  | 4   | STD SET          |
|      | 22588222  | METAL, CRANKSHAFT  | 4   | -0.20mm SET      |
|      | 22588230  | METAL, CRANKSHAFT  | 4   | -0.40mm SET      |
| Q    | 22594873  | KEY, FEATHER       | 1   |                  |
| R    | 22588180  | METAL, CRANKSHAFT  | 1   | STD              |
|      | 22588206  | METAL, CRANKSHAFT  | 1   | -0.20mm          |
|      | 22588214  | METAL, CRANKSHAFT  | 1   | -0.40mm          |
| S    | 22587745  | GEAR, CRANKSHAFT   | 1   |                  |
| T    | 22586895  | SLINGER, OIL       | 1   |                  |
| U    | 22594683  | O RING, 29.5 X 2   | 1   |                  |
| V    | 22587703  | COLLAR, CRANKSHAFT | 1   |                  |
| W    | 22587695  | SEAL, OIL          | 1   |                  |
| X    | 22586671  | NUT, CRANKSHAFT    | 1   |                  |

# CAMSHAFT AND IDLE GEAR

## CAMSHAFT AND IDLE GEAR

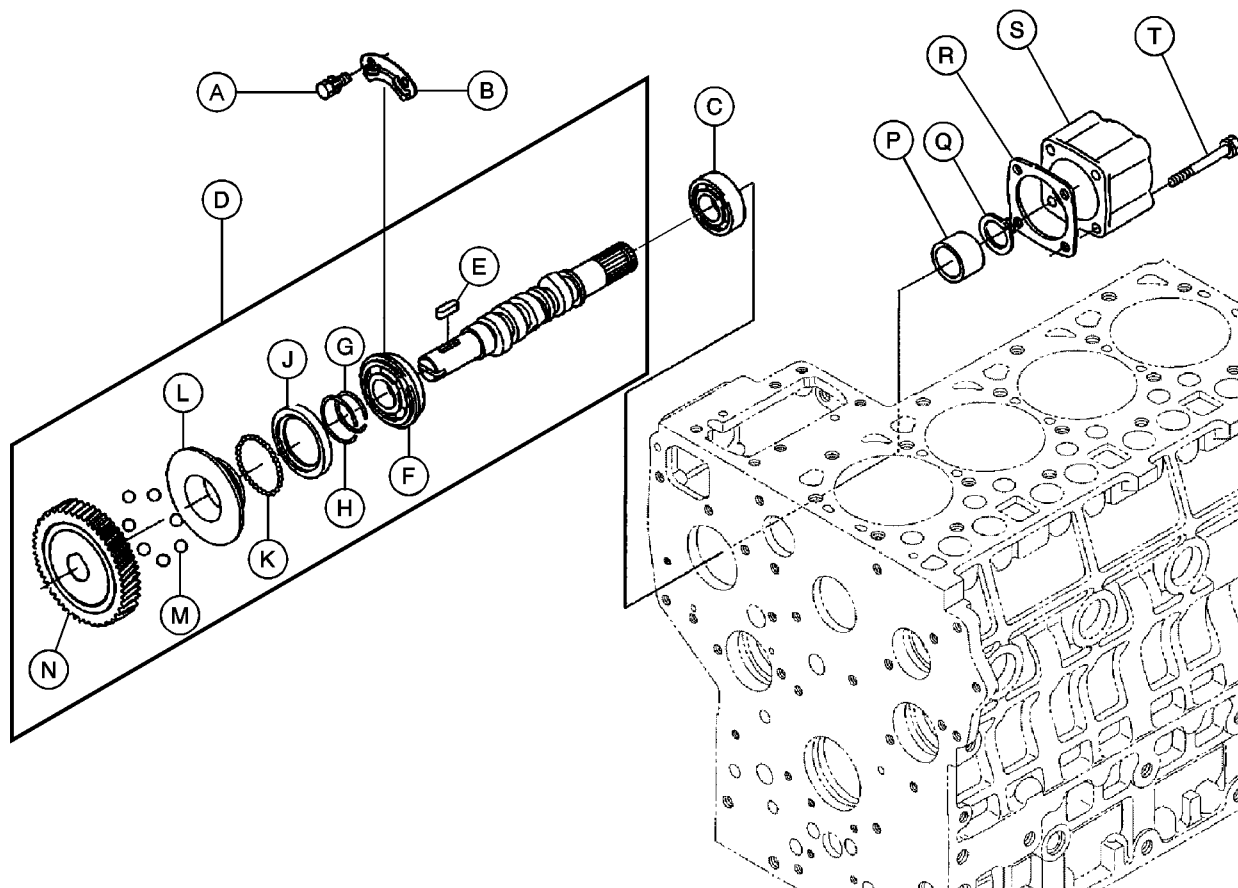


22546980\_eng12\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------|-----|------------------|
| A    | 22586887  | RING, EXTERNAL RETAINING | 1   |                  |
| B    | 22587760  | COLLAR                   | 1   |                  |
| C    | 22588594  | GEAR ASSEMBLY, IDLE      | 1   |                  |
| D    | 22587778  | BUSHING, IDLE GEAR       | 1   |                  |
| E    | 22594238  | BOLT, HEX M08-1.25 X 18  | 5   |                  |
| F    | 22595714  | SHAFT, IDLE GEAR         | 1   |                  |
| G    | 22588156  | ROD, PUSH                | 8   |                  |
| H    | 22587075  | TAPPET                   | 8   |                  |
| J    | 22588586  | CAMSHAFT ASSEMBLY        | 1   |                  |
| K    | 22594865  | KEY, FEATHER             | 1   |                  |
| L    | 22586663  | STOPPER, CAMSHAFT        | 1   |                  |
| M    | 22595037  | BALL                     | 1   |                  |

# FUEL CAMSHAFT

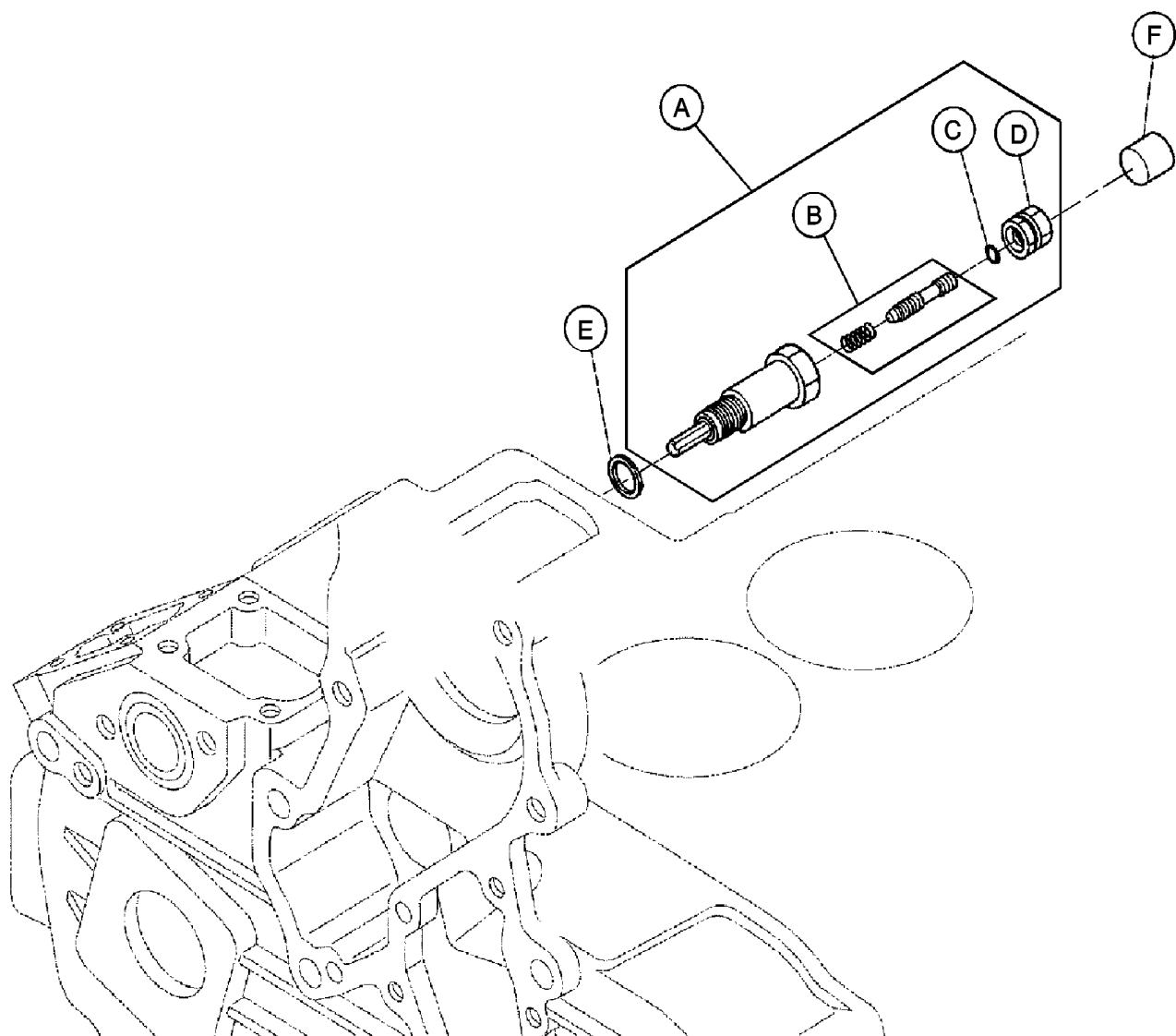
## FUEL CAMSHAFT



22546980\_eng13\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                     | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------------------|-----|------------------|
| A    | 22594311  | BOLT, M08-1.25 X 14             | 2   |                  |
| B    | 22588164  | STOPPER, FUEL CAMSHAFT          | 1   |                  |
| C    | 22588776  | BEARING, BALL                   | 1   |                  |
| D    | 22588685  | CAMSHAFT ASSEMBLY, FUEL         | 1   |                  |
| E    | 22594857  | KEY, FEATHER 5 X 5 X 25         | 1   |                  |
| F    | 22588305  | BEARING, BALL                   | 1   |                  |
| G    | 22586713  | RING, GOVERNOR SLEEVE RETAINING | 1   |                  |
| H    | 22586721  | RING, EXTERNAL RETAINING        | 1   |                  |
| J    | 22587174  | CASE, GOVERNOR BALL             | 1   |                  |
| K    | 22586366  | BALL, 3.96 mm                   | 39  |                  |
| L    | 22587109  | SLEEVE, GOVERNOR                | 1   |                  |
| M    | 22586358  | BALL, 19.05 mm                  | 7   |                  |
| N    | 22587422  | GEAR, INJECTION PUMP            | 1   |                  |
| P    | 22588693  | COLLAR, FUEL CAMSHAFT           | 1   |                  |
| Q    | 22586937  | RING, EXTERNAL RETAINING        | 1   |                  |
| R    | 22587984  | GASKET, FUEL CAMSHAFT COVER     | 1   |                  |
| S    | 22587554  | COVER, FUEL CAMSHAFT            | 1   |                  |
| T    | 22594287  | BOLT, M08-1.25 X 65             | 4   |                  |

ENGINE IDLE ASSEMBLY  
ENGINE IDLE ASSEMBLY

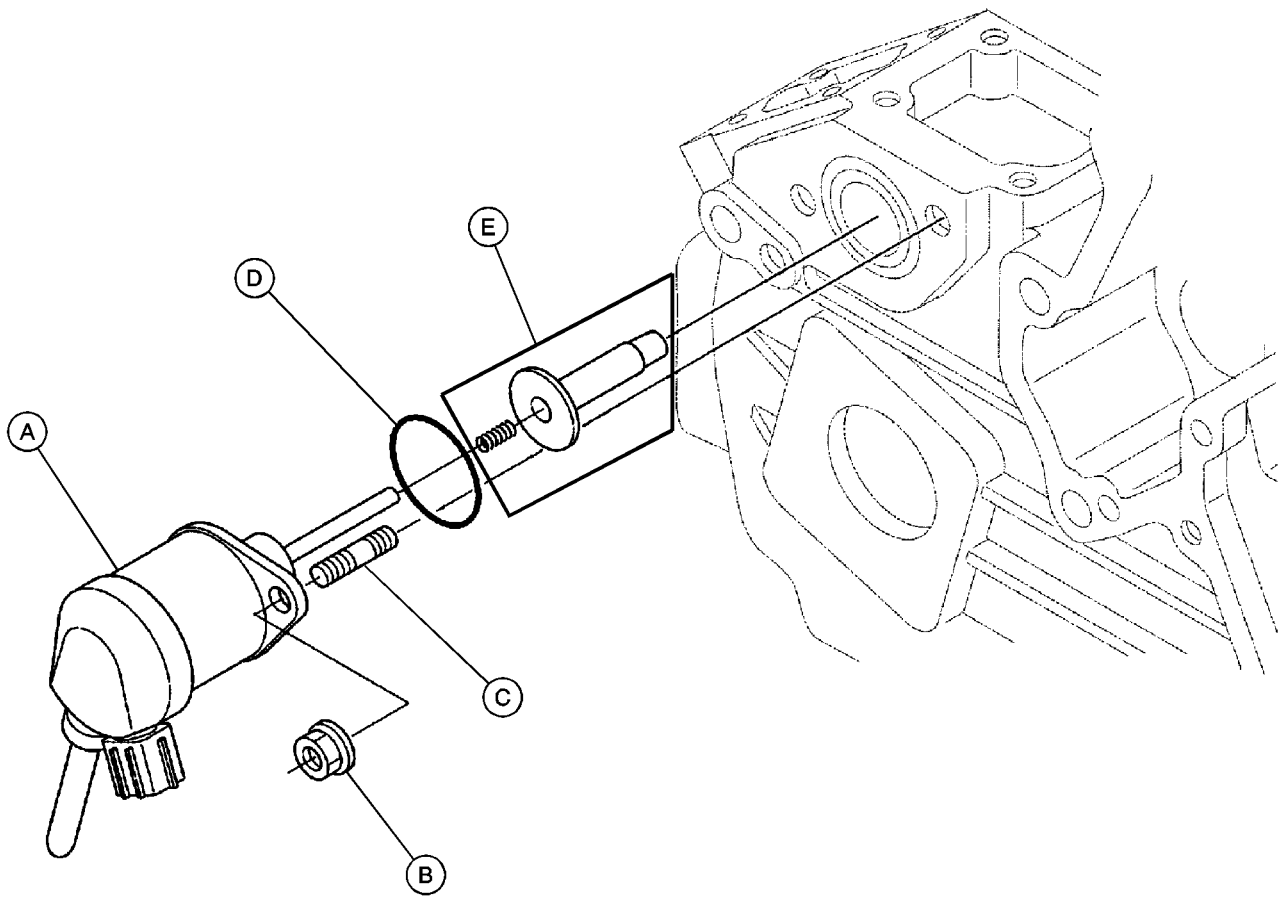


22546980\_eng14\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION               | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------------|-----|------------------|
| A    | 22587810  | APPARATUS, IDLING         | 1   |                  |
| B    | 22588867  | ASSEMBLY BOLT, ADJUSTMENT | 1   |                  |
| C    | 22594691  | O RING                    | 1   |                  |
| D    | 22588917  | NUT, SPRING               | 1   |                  |
| E    | 22594675  | GASKET                    | 1   |                  |
| F    | 22588875  | CAP                       | 1   |                  |

# ENGINE STOP SOLENOID

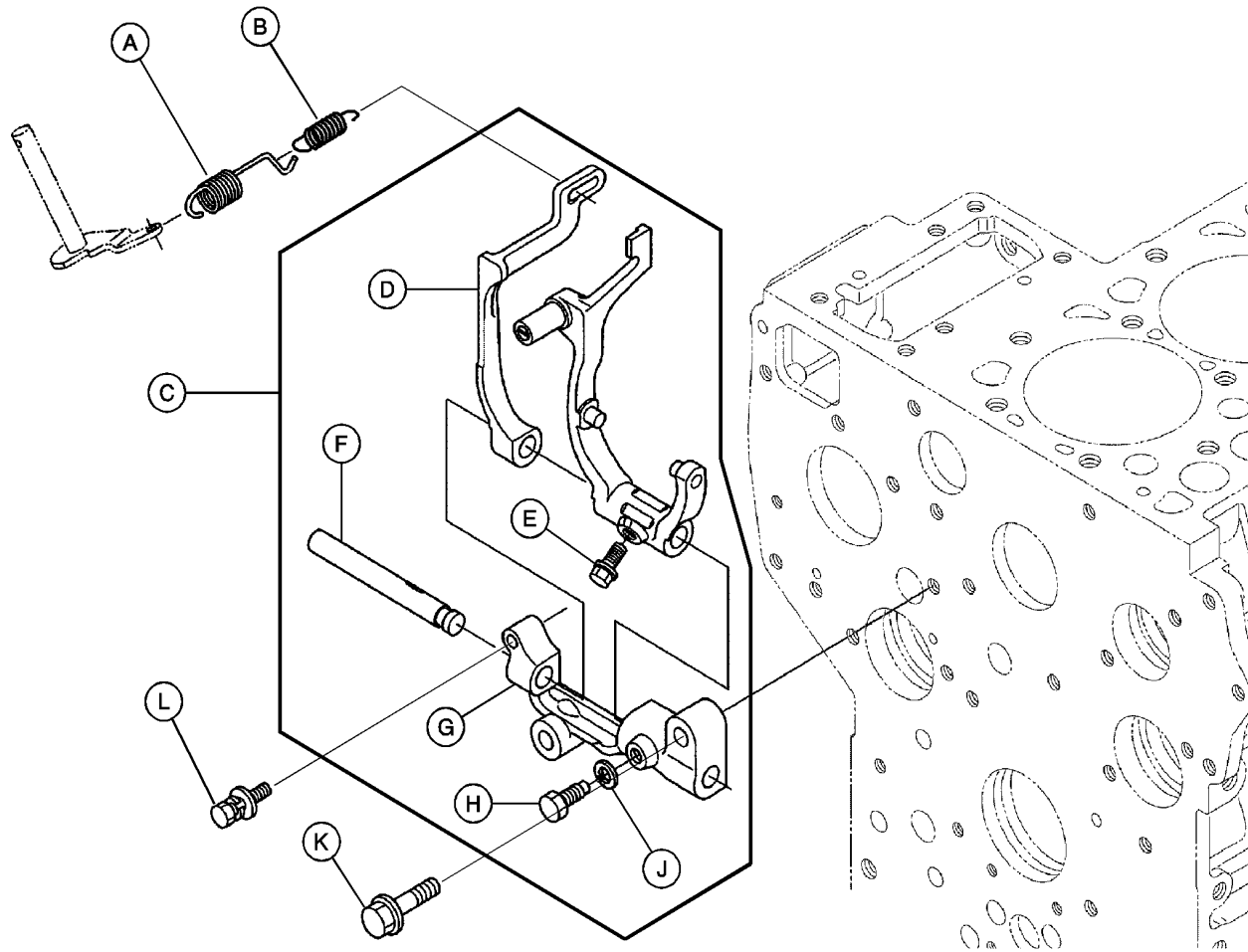
## ENGINE STOP SOLENOID



22546980\_eng15\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION          | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------|-----|------------------|
| A    | 22568091  | SOLENOID ASSEMBLY    | 1   |                  |
| B    | 22594568  | NUT, FLANGE          | 2   |                  |
| C    | 22586754  | STUD                 | 2   |                  |
| D    | 22594717  | O RING               | 1   |                  |
| E    | 22568075  | GUIDE ASM., SOLENOID | 1   |                  |

GOVERNOR  
GOVERNOR

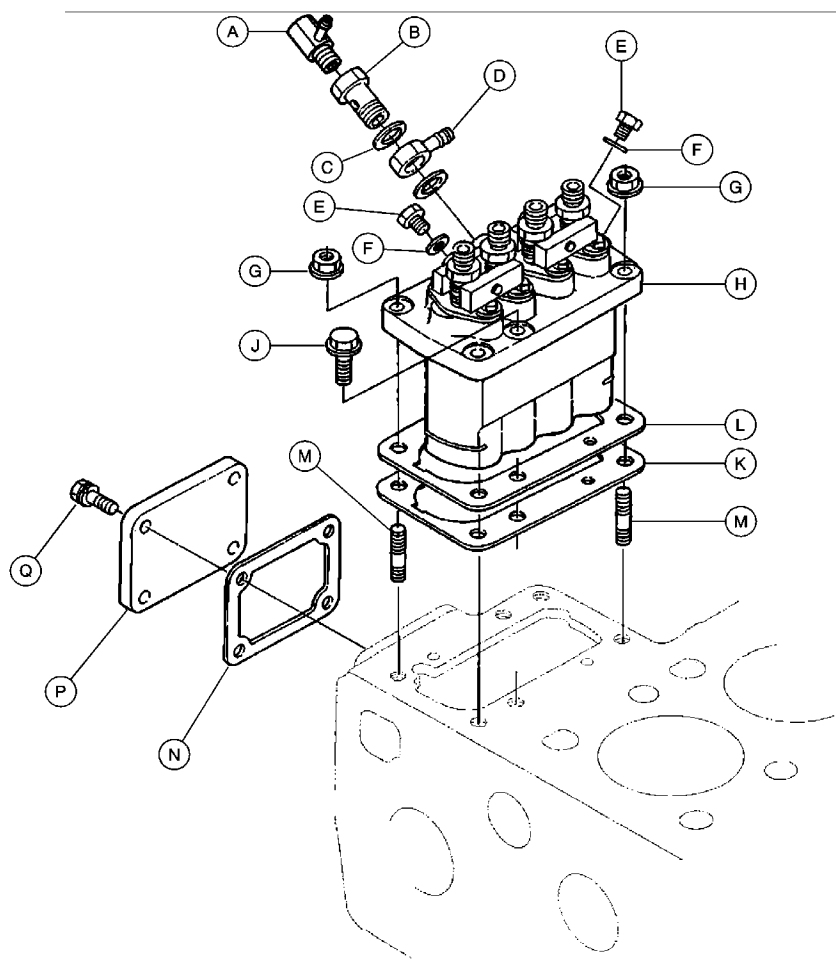


22546980\_eng16\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                    | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------------|-----|------------------|
| A    | 22595292  | SPRING, GOVERNOR               | 1   |                  |
| B    | 22588636  | SPRING, GOVERNOR               | 1   |                  |
| C    | 22595748  | FORK LEVER ASSEMBLY            | 1   |                  |
| D    | 22587844  | LEVER, FORK                    | 1   |                  |
| E    | 22594444  | BOLT, HEX FLANGE M06-1.0 X 18  | 1   |                  |
| F    | 22588883  | SHAFT, FORK LEVER              | 1   |                  |
| G    | 22586739  | HOLDER, FORK LEVER             | 1   |                  |
| H    | 22586747  | BOLT                           | 1   |                  |
| J    | 22594626  | WASHER, SPRING LOCK            | 1   |                  |
| K    | 22594469  | BOLT, HEX FLANGE M08-1.25 X 30 | 2   |                  |
| L    | 22594196  | BOLT, HEX M06-1.0 X 30         | 1   |                  |

# INJECTION PUMP

## INJECTION PUMP

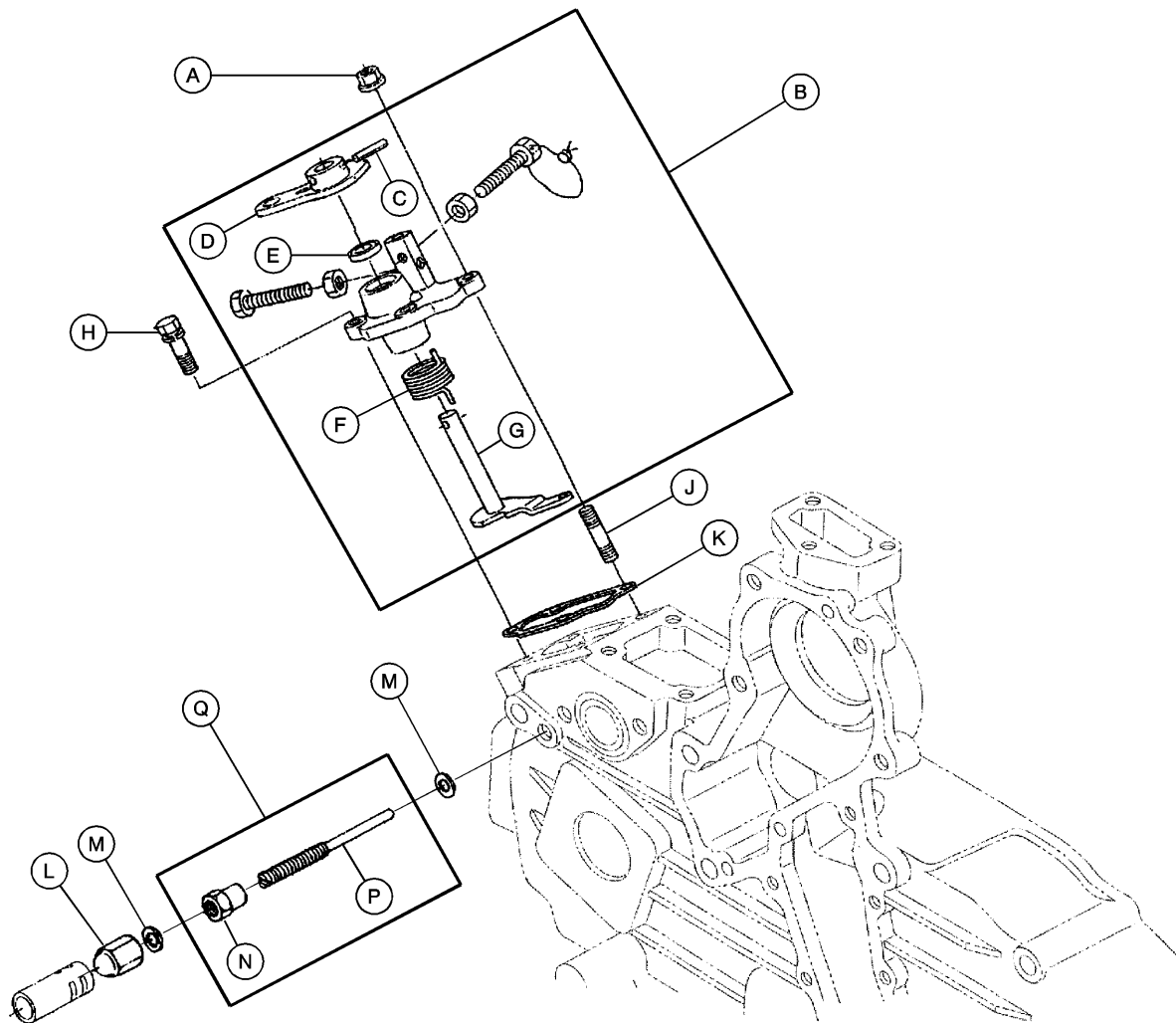


22546980\_eng17\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                    | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------------|-----|------------------|
| A    | 22595375  | ORIFICE                        | 1   |                  |
| B    | 22587448  | BOLT, JOINT                    | 1   |                  |
| C    | 22586853  | GASKET                         | 2   |                  |
| D    | 22586457  | JOINT, EYE                     | 1   |                  |
| E    | 22586846  | SCREW, AIR BLEEDER             | 2   |                  |
| F    | 22586861  | GASKET                         | 2   |                  |
| G    | 22594543  | NUT, FLANGE                    | 2   |                  |
| H    | 22568356  | INJECTION PUMP ASSEMBLY        | 1   |                  |
| J    | 22594451  | BOLT, HEX FLANGE M08-1.25 X 20 | 3   |                  |
| K    | 22587687  | SHIM, INJECTION PUMP           | 1   | t=0.30mm         |
|      | 22588495  | SHIM, INJECTION PUMP           | 1   | t=0.35mm         |
| L    | 22587661  | SHIM, INJECTION PUMP           | 1   | t=0.20mm         |
|      | 22587679  | SHIM, INJECTION PUMP           | 1   | t=0.25mm         |
| M    | 22567853  | STUD                           | 2   |                  |
| N    | 22568414  | GASKET, PUMP COVER             | 1   |                  |
| P    | 22588008  | COVER, INJECTION PUMP          | 1   |                  |
| Q    | 22594139  | BOLT, HEX M06-1.0 X 16         | 4   |                  |

# THROTTLE CONTROL

## THROTTLE CONTROL

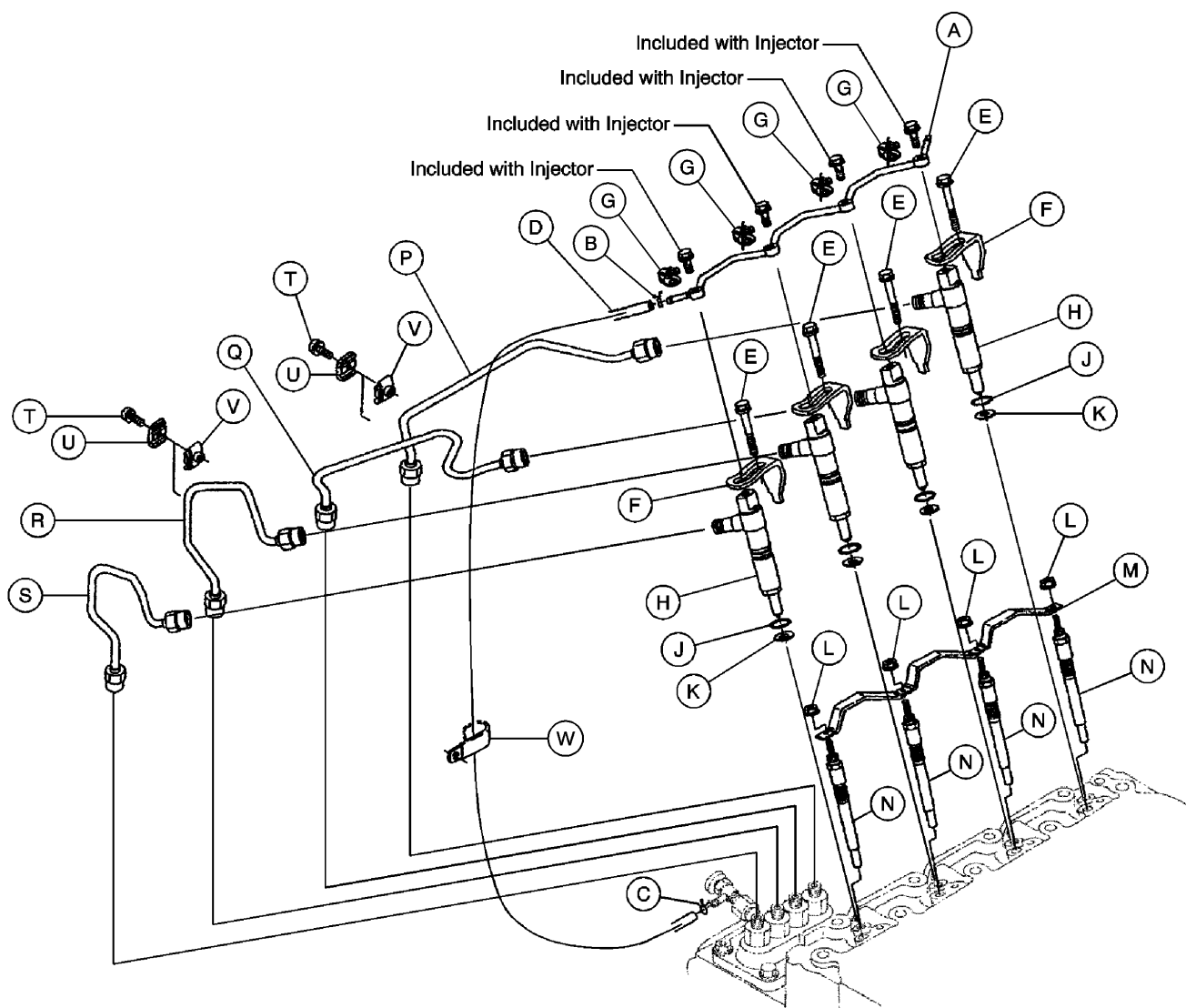


22546980\_eng18\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION               | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------------|-----|------------------|
| A    | 22594535  | NUT, FLANGE               | 2   |                  |
| B    | 22595771  | PLATE ASSEMBLY, CONTROL   | 1   |                  |
| C    | 22594816  | PIN, SPRING               | 1   |                  |
| D    | 22588552  | LEVER, SPEED CONTROL      |     |                  |
| E    | 22595177  | SEAL, OIL                 | 1   |                  |
| F    | 22587885  | SPRING, RETURN            | 1   |                  |
| G    | 22587836  | LEVER, GOVERNOR           | 1   |                  |
| H    | 22594162  | BOLT, M06-1.0 X 20        | 2   |                  |
| J    | 22586754  | STUD                      | 2   |                  |
| K    | 22568083  | GASKET, PLATE             | 1   |                  |
| L    | 22587190  | NUT                       | 1   |                  |
| M    | 22587091  | GASKET                    | 2   |                  |
| N    | 22587083  | NUT                       | 1   |                  |
| P    | 22595284  | BOLT, ADJUSTING           | 1   |                  |
| Q    | 22587828  | BOLT ASSEMBLY, ADJUSTMENT | 1   |                  |

# FUEL LINES and GLOW PLUGS

## FUEL LINES and GLOW PLUGS

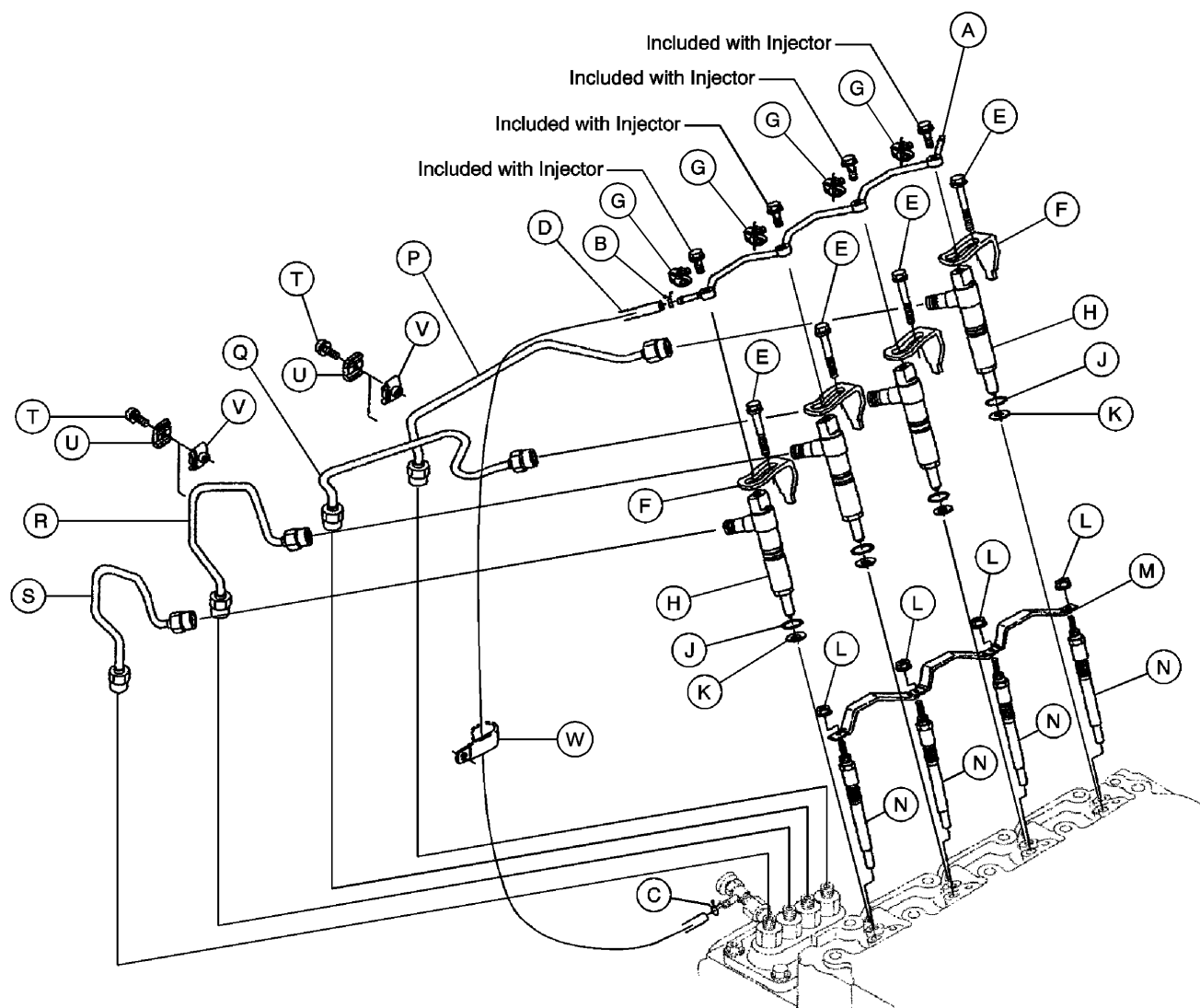


22546980\_eng19\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                   | QTY | DIMENSIONS/NOTES     |
|------|-----------|-------------------------------|-----|----------------------|
| A    | 22588834  | PIPE ASSEMBLY, OVER FLOW      | 1   | includes items B & C |
| B    | 22586424  | CLAMP, PIPE                   | 1   |                      |
| C    | 22586481  | CLAMP, PIPE                   | 1   |                      |
| D    | 22587604  | PIPE ASSEMBLY, OVER FLOW      | 1   |                      |
| E    | 22588842  | BOLT, CLAMP                   | 4   |                      |
| F    | 22588859  | CLAMP, NOZZLE                 | 4   |                      |
| G    | 22568166  | GASKET, FUEL RETURN EYE JOINT | 4   |                      |
| H    | 22568364  | HOLDER ASSEMBLY, NOZZLE       | 4   |                      |
| J    | 22594709  | O-RING                        | 4   |                      |
| K    | 22567838  | GASKET, INJECTOR NOZZLE       | 4   |                      |
| L    | 22594550  | NUT, FLANGE                   | 4   |                      |

# FUEL LINES and GLOW PLUGS

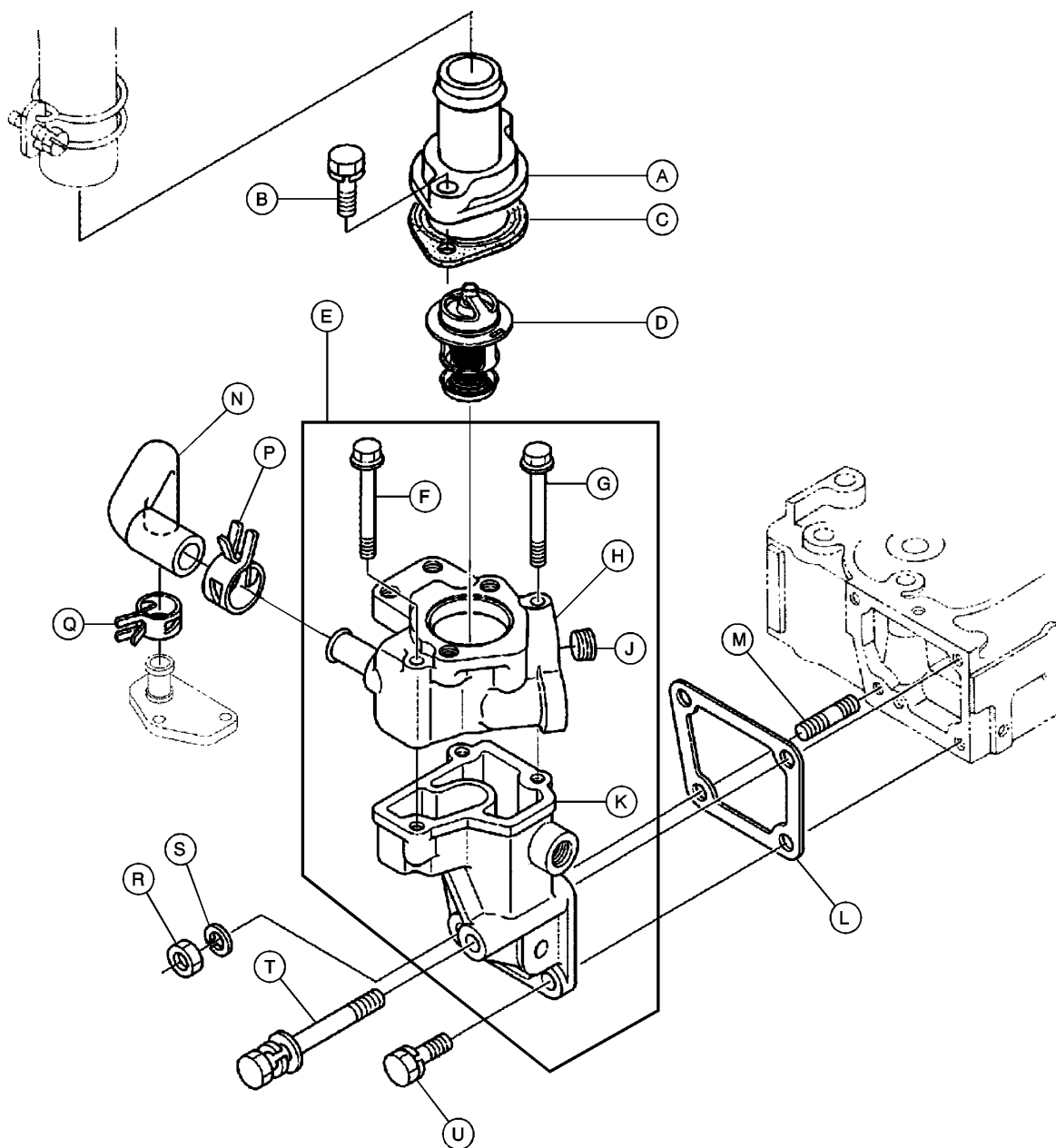
## FUEL LINES and GLOW PLUGS



22546980\_eng19\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                     | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------------------|-----|------------------|
| M    | 22595573  | CORD, GLOW PLUG                 | 1   |                  |
| N    | 22568349  | GLOW PLUG                       | 4   |                  |
| P    | 22595540  | PIPE, INJECTION                 | 1   |                  |
| Q    | 22588529  | PIPE, INJECTION                 | 1   |                  |
| R    | 22588396  | PIPE, INJECTION                 | 1   |                  |
| S    | 22595474  | PIPE, INJECTION                 | 1   |                  |
| T    | 22594584  | SCREW, WITH WASHER M05-0.8 X 20 | 4   |                  |
| U    | 22587216  | CLAMP, PIPE                     | 2   |                  |
| V    | 22587208  | CLAMP, PIPE                     | 2   |                  |
| W    | 22586788  | CLAMP, CORD                     | 1   |                  |

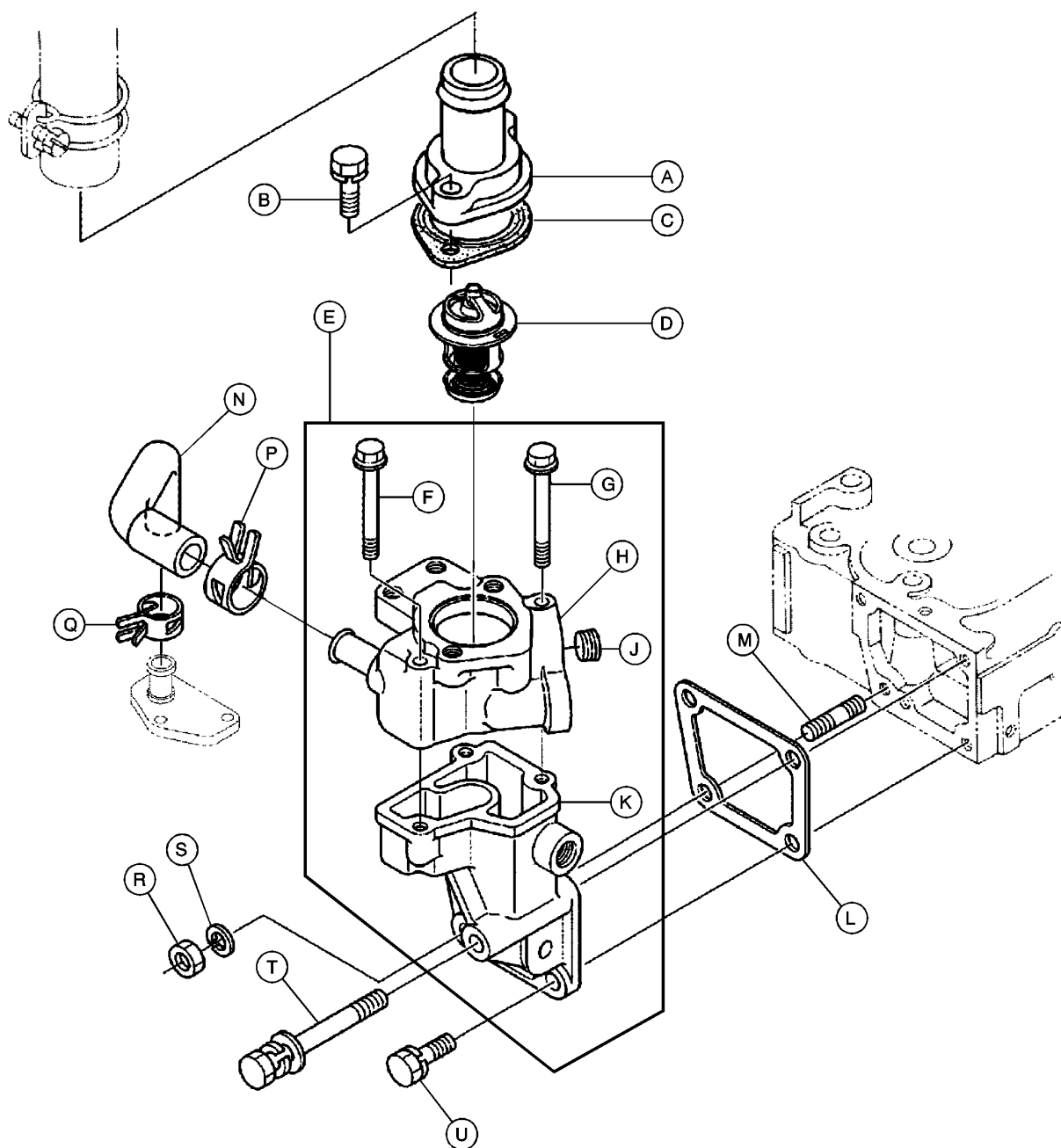
# THERMOSTAT HOUSING THERMOSTAT HOUSING



22546980\_eng20\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION               | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------------|-----|------------------|
| A    | 22586838  | COVER, THERMOSTAT         | 1   |                  |
| B    | 22594279  | BOLT, M08-1.25 X 35       | 2   |                  |
| C    | 22567911  | GASKET, THERMOSTAT        | 1   |                  |
| D    | 22568372  | THERMOSTAT                | 1   |                  |
| E    | 22588560  | FLANGE ASSEMBLY, WATER    | 1   |                  |
| F    | 22626451  | BOLT, FLANGE M06-1.0 X 60 | 2   |                  |
| G    | 22626469  | BOLT, FLANGE M06-1.0 X 65 | 1   |                  |
| H    | 22626444  | HOUSING, UPPER THERMOSTAT | 1   |                  |
| J    | 22626477  | PLUG                      | 1   |                  |
| K    | 22626444  | HOUSING, LOWER THERMOSTAT | 1   |                  |

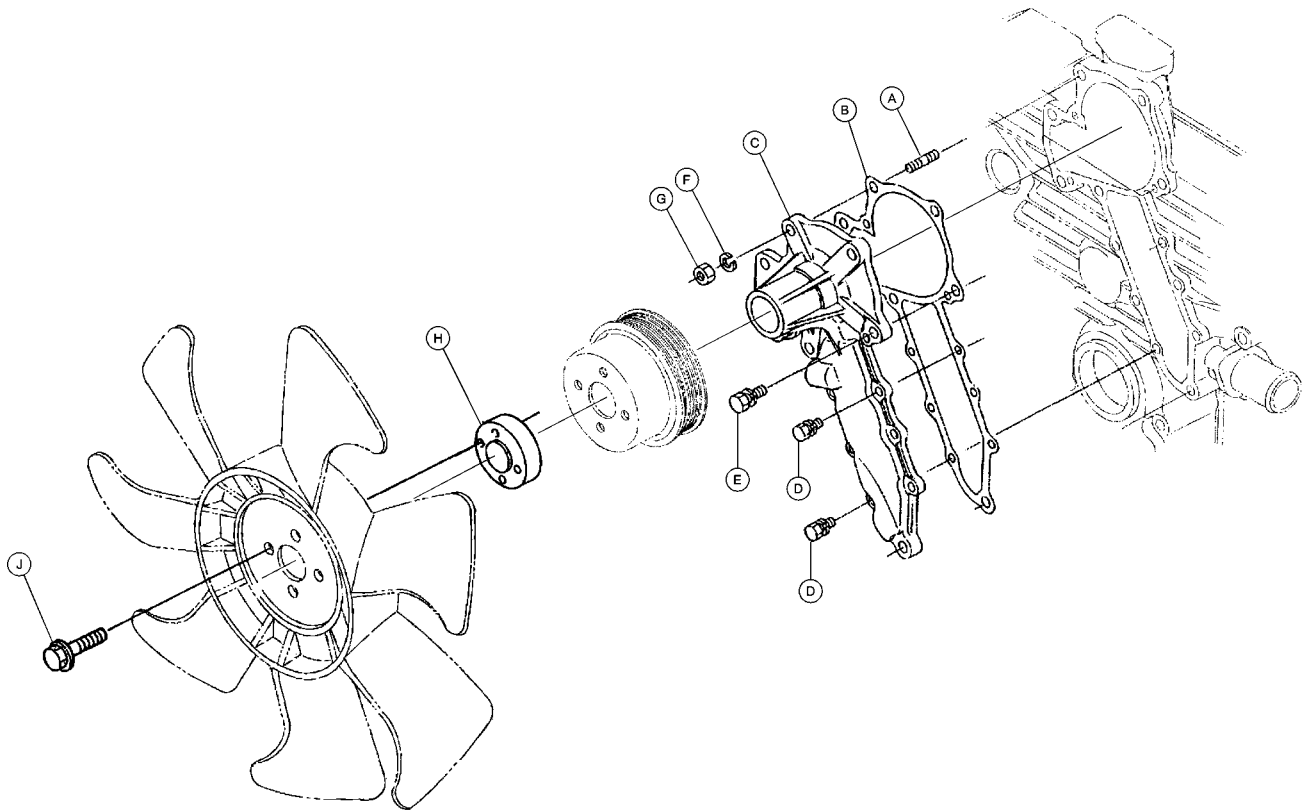
THERMOSTAT HOUSING  
THERMOSTAT HOUSING



22546980\_eng20\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------|-----|------------------|
| L    | 22568109  | GASKET, THERMOSTAT HOUSING | 1   |                  |
| M    | 22567853  | STUD                       | 1   |                  |
| N    | 22568117  | PIPE, WATER RETURN         | 1   |                  |
| P    | 22586408  | CLAMP, HOSE                | 1   |                  |
| Q    | 22586390  | CLAMP, HOSE                | 1   |                  |
| R    | 22594519  | NUT                        | 1   |                  |
| S    | 22594634  | WASHER, SPRING LOCK        | 1   |                  |
| T    | 22587950  | BOLT                       | 1   |                  |
| U    | 22567788  | BOLT, HEX M08-1.25 X 22    | 2   |                  |

# WATER PUMP WATER PUMP

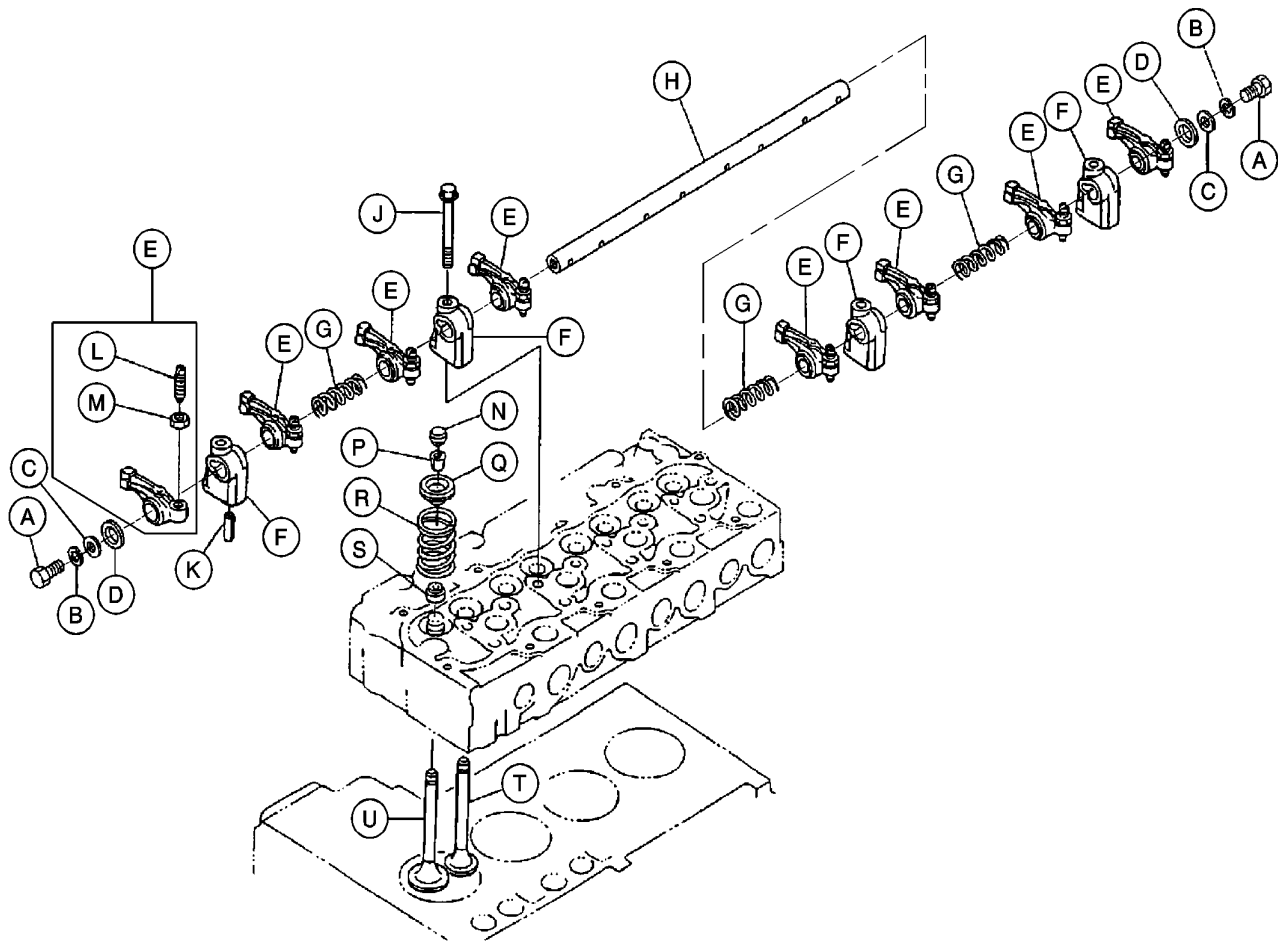


22546980\_eng21\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                    | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------------|-----|------------------|
| A    | 22594436  | STUD                           | 1   |                  |
| B    | 22568133  | GASKET, WATER PUMP             | 1   |                  |
| C    | 22568216  | PUMP ASSEMBLY, WATER           | 1   |                  |
| D    | 22594154  | BOLT, HEX M06-1.0 X 18         | 6   |                  |
| E    | 22594253  | BOLT, HEX M08-1.25 X 28        | 2   |                  |
| F    | 22594634  | WASHER, SPRING LOCK            | 1   |                  |
| G    | 22594519  | NUT                            | 1   |                  |
| H    | 22568174  | SPACER, FAN                    | 1   |                  |
| J    | 22567804  | BOLT, HEX FLANGE M08-1.25 X 55 | 4   |                  |

# ROCKER ARM ASSEMBLY

## ROCKER ARM ASSEMBLY

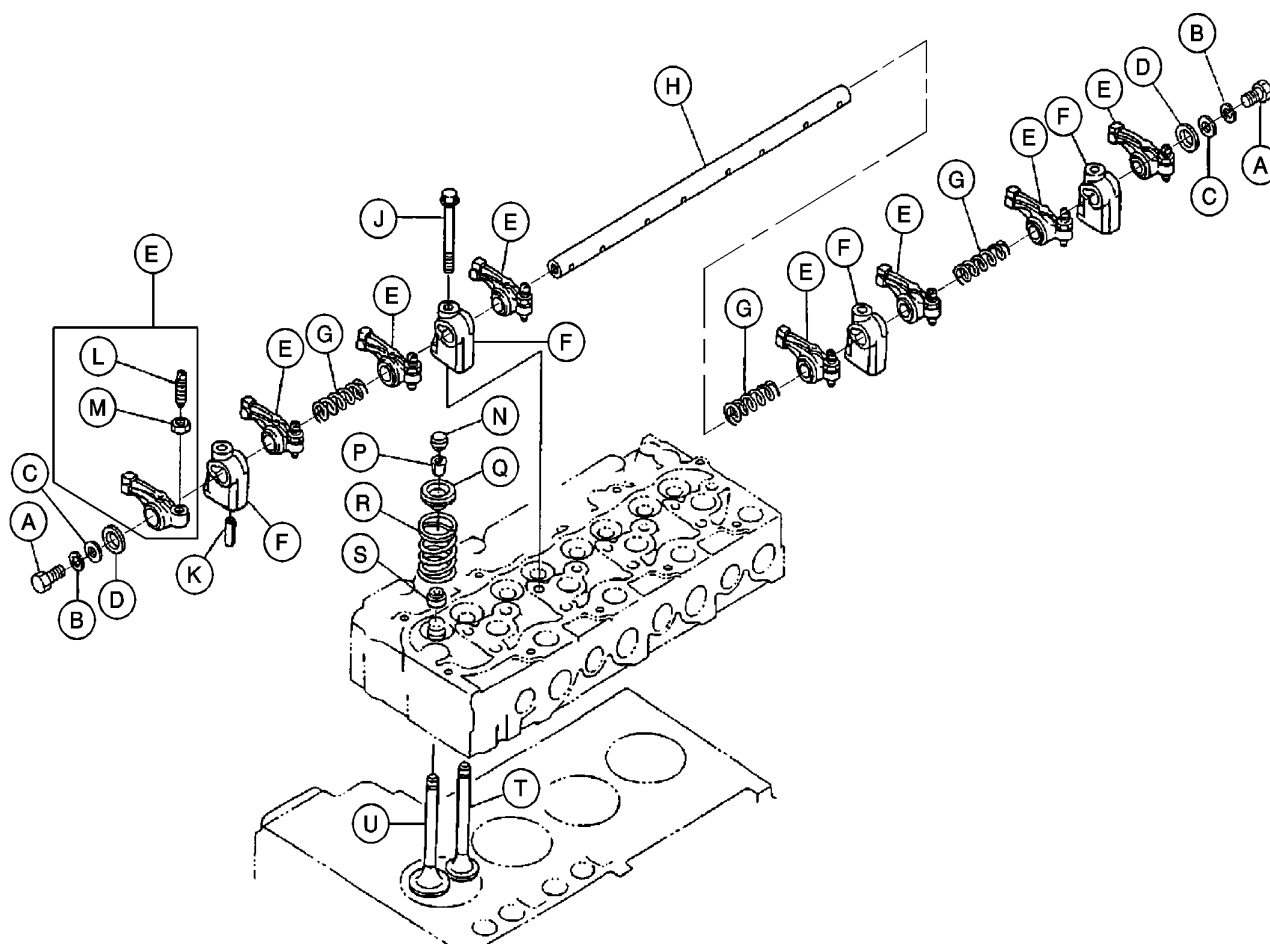


22546980\_eng22\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES                                 |
|------|-----------|--------------------------|-----|--------------------------------------------------|
| A    | 22594378  | BOLT                     | 2   | L=12<br><br><br><br><br><br><br><br><br><br>L=55 |
| B    | 22594626  | WASHER, SPRING LOCK      | 2   |                                                  |
| C    | 22594600  | WASHER, PLAIN            | 2   |                                                  |
| D    | 22586655  | WASHER, ROCKER ARM SHAFT | 2   |                                                  |
| E    | 22587182  | ASSEMBLY ,ROCKER ARM     | 8   |                                                  |
| F    | 22586648  | BRACKET, ROCKER ARM      | 4   |                                                  |
| G    | 22586630  | SPRING, ROCKER ARM       | 3   |                                                  |
| H    | 22588149  | SHAFT, ROCKER ARM        | 1   |                                                  |
| J    | 22594477  | BOLT, FLANGE             | 4   |                                                  |
| K    | 22594824  | PIN, SPRING              | 1   |                                                  |

# ROCKER ARM ASSEMBLY

## ROCKER ARM ASSEMBLY

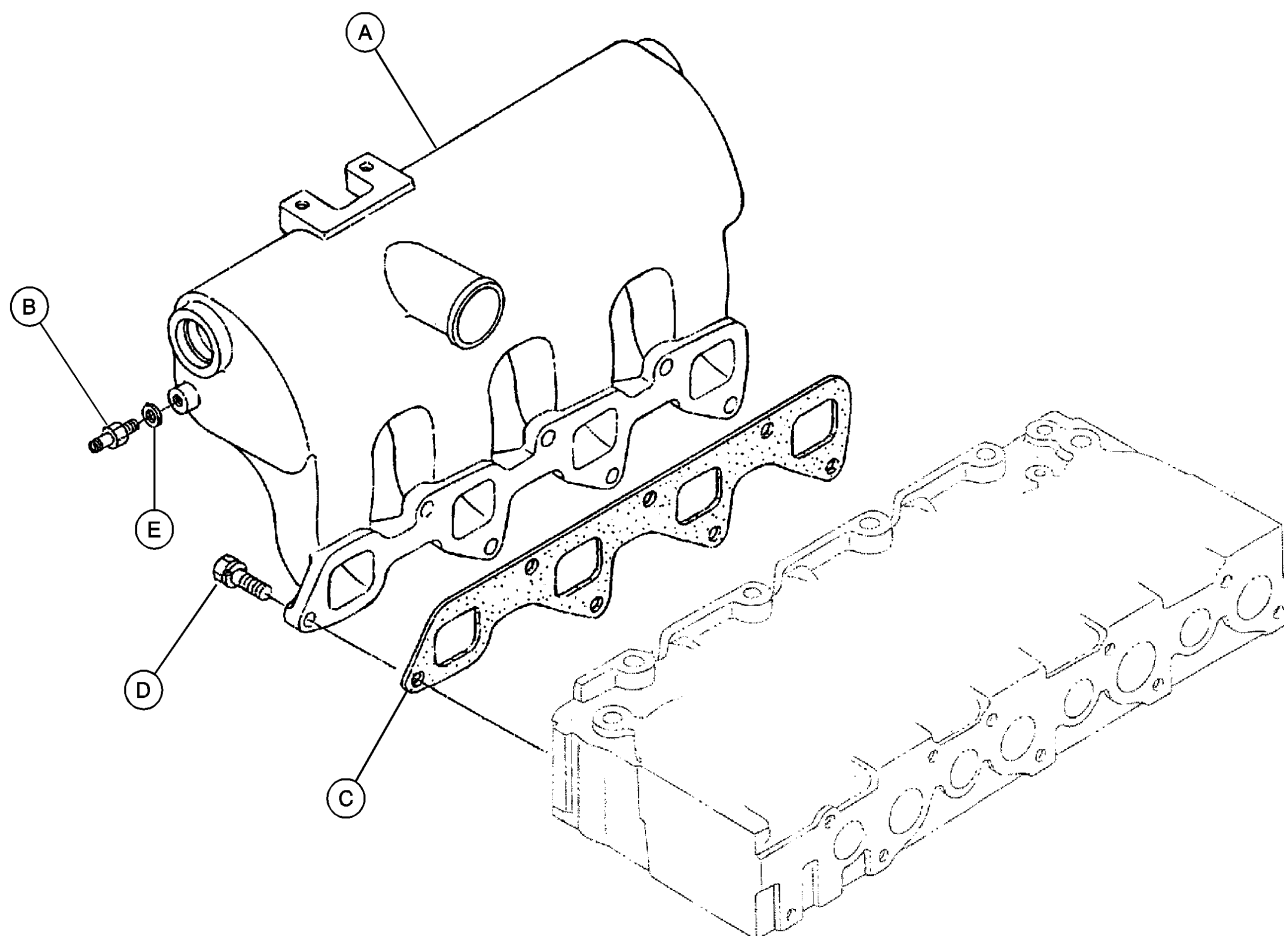


22546980\_eng22\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION            | QTY | DIMENSIONS/NOTES |
|------|-----------|------------------------|-----|------------------|
| L    | 22586952  | SCREW, ADJUSTING       | 8   | SET OF 2         |
| M    | 22586499  | NUT                    | 8   |                  |
| N    | 22586606  | CAP, VALVE             | 8   |                  |
| P    | 22586622  | COLLET, VALVE SPRING   | 8   |                  |
| Q    | 22586614  | RETAINER, VALVE SPRING | 8   |                  |
| R    | 22586598  | SPRING, VALVE          | 8   |                  |
| S    | 22586580  | SEAL, VALVE STEM       | 8   |                  |
| T    | 22587539  | VALVE, EXHAUST         | 4   |                  |
| U    | 22587521  | VALVE, INLET           | 4   |                  |

# INTAKE MANIFOLD

## INTAKE MANIFOLD

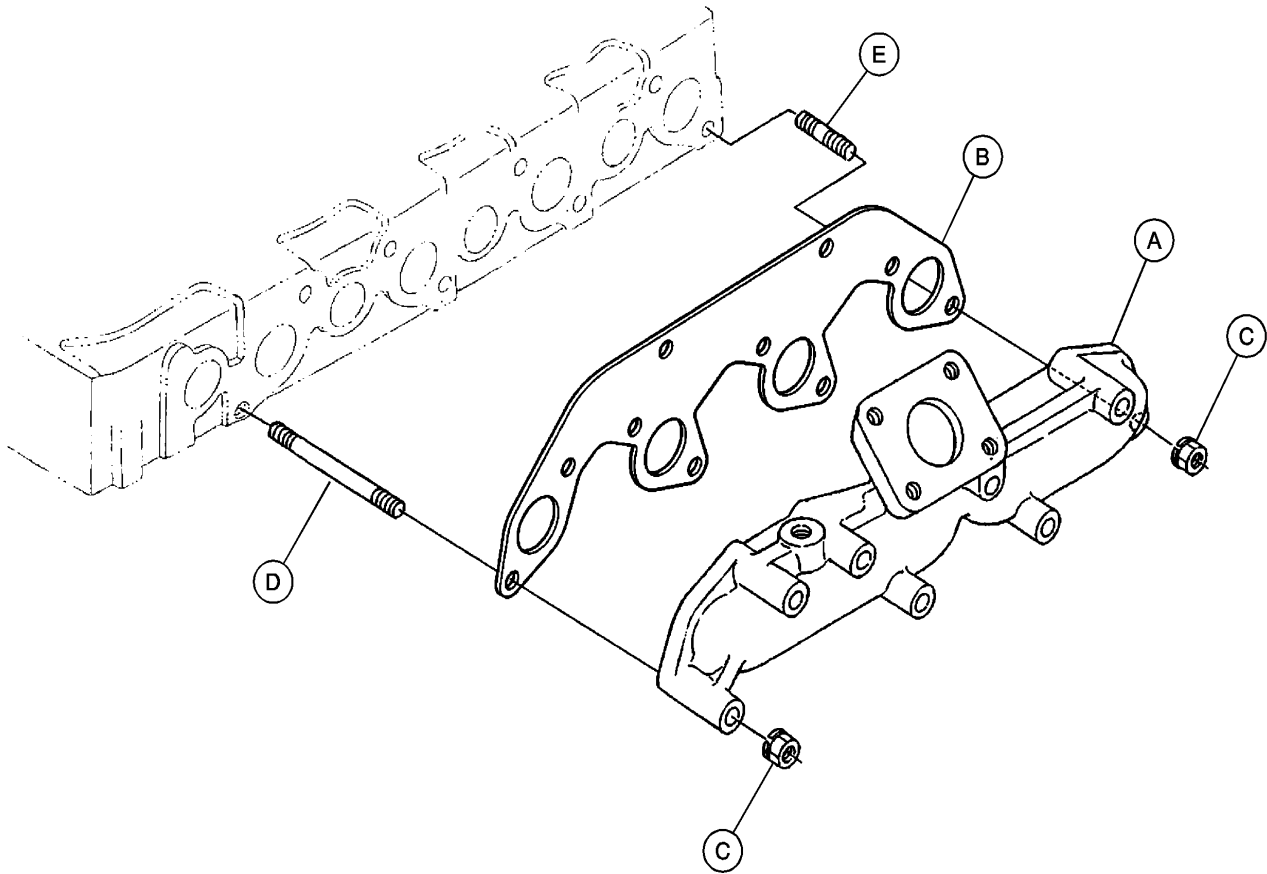


22546980\_eng23\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------|-----|------------------|
| A    | 22588974  | MANIFOLD ASSEMBLY, INLET | 1   |                  |
| B    | 22595136  | SCREW, AIR BLEEDER       | 1   |                  |
| C    | 22568281  | GASKET, INTAKE MANIFOLD  | 1   |                  |
| D    | 22567788  | BOLT, HEX M08-1.25 X 22  | 6   |                  |
| E    | 22587091  | GASKET                   | 1   |                  |

# EXHAUST MANIFOLD

## EXHAUST MANIFOLD

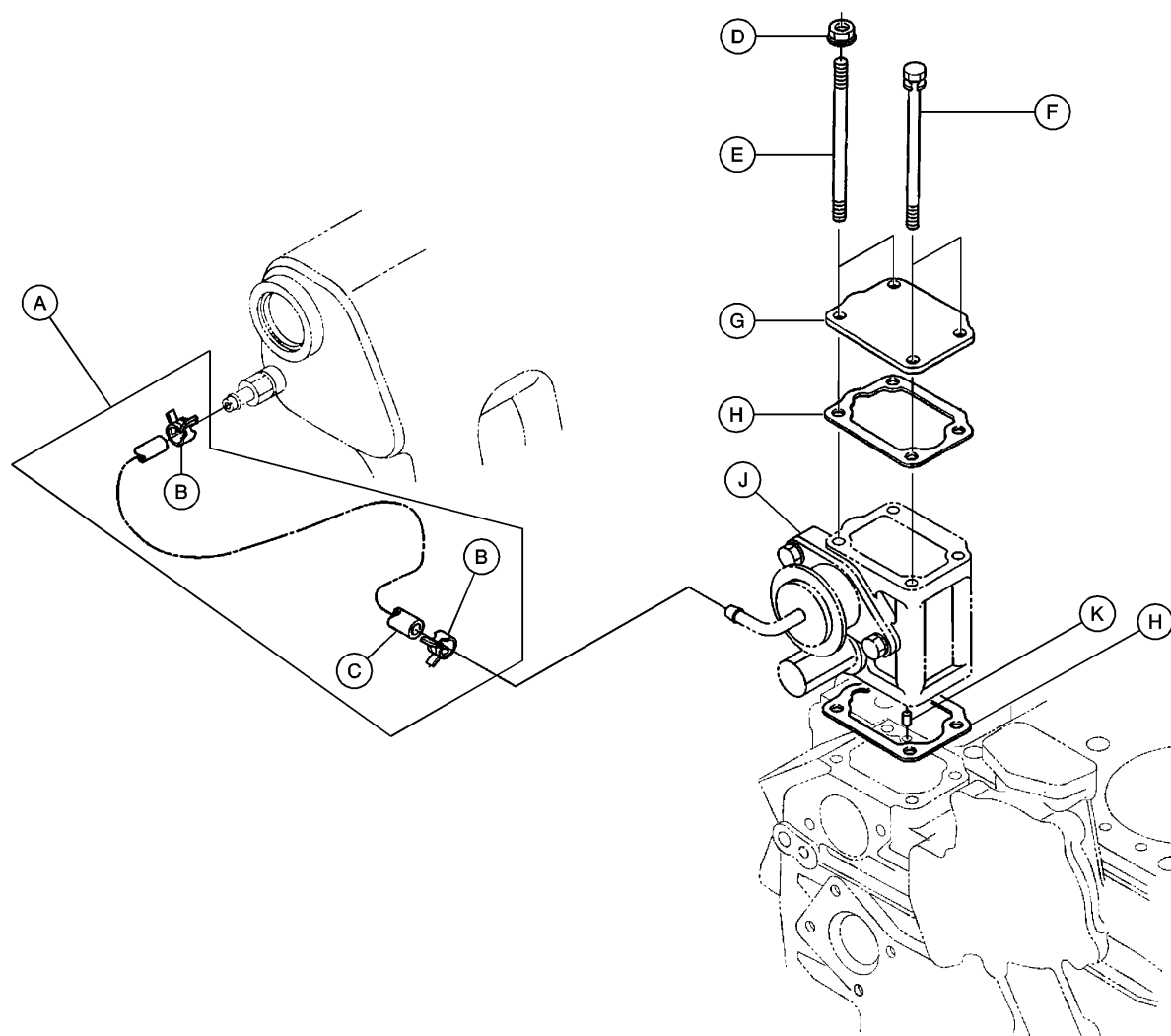


22546980\_eng24\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION              | QTY | DIMENSIONS/NOTES |
|------|-----------|--------------------------|-----|------------------|
| A    | 22588982  | MANIFOLD, EXHAUST        | 1   |                  |
| B    | 22567994  | GASKET, EXHAUST MANIFOLD | 1   |                  |
| C    | 22567952  | NUT                      | 8   |                  |
| D    | 22567853  | STUD                     | 1   |                  |
| E    | 22567895  | STUD                     | 7   |                  |

# BOOST COMPENSATOR

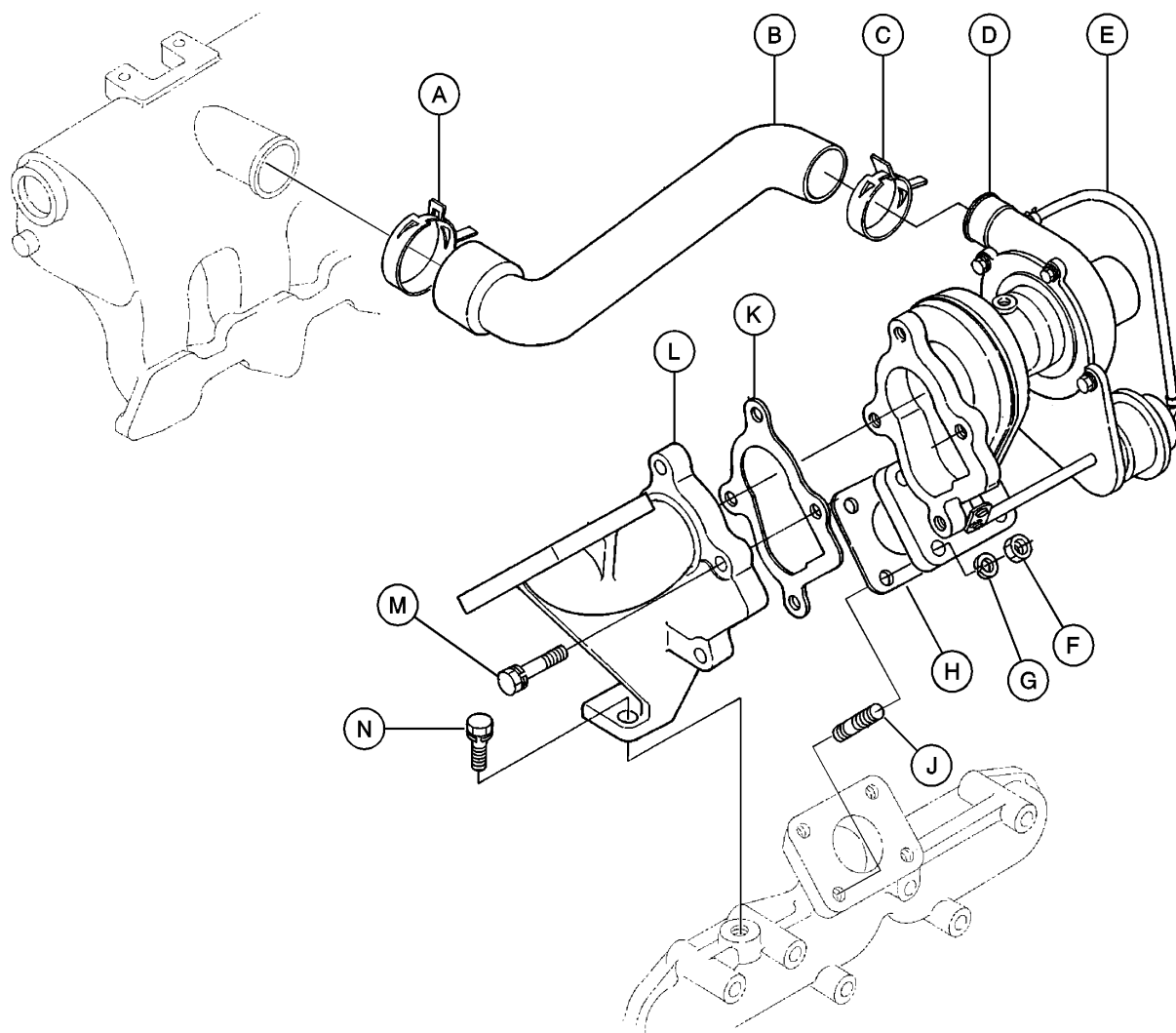
## BOOST COMPENSATOR



22546980\_eng27\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION                      | QTY | DIMENSIONS/NOTES |
|------|-----------|----------------------------------|-----|------------------|
| A    | 22595797  | ASSEMBLY PIPE, BOOST             | 1   |                  |
| B    | 22595144  | BAND, PIPE                       | 2   |                  |
| C    | 22595052  | TUBE, FUEL                       | 1   |                  |
| D    | 22594535  | NUT, HEX FLANGE M06-1.0          | 2   |                  |
| E    | 22595508  | STUD                             | 2   |                  |
| F    | 22594170  | BOLT, HEX M06-1.0 X 85           | 2   |                  |
| G    | 22595482  | COVER, BOOST COMPENSATOR HOUSING | 1   |                  |
| H    | 22568083  | GASKET, PLATE                    | 2   |                  |
| J    | 22627905  | BOOST COMPENSATOR                | 1   |                  |
| K    | 22594766  | PIN, STRAIGHT                    | 1   |                  |

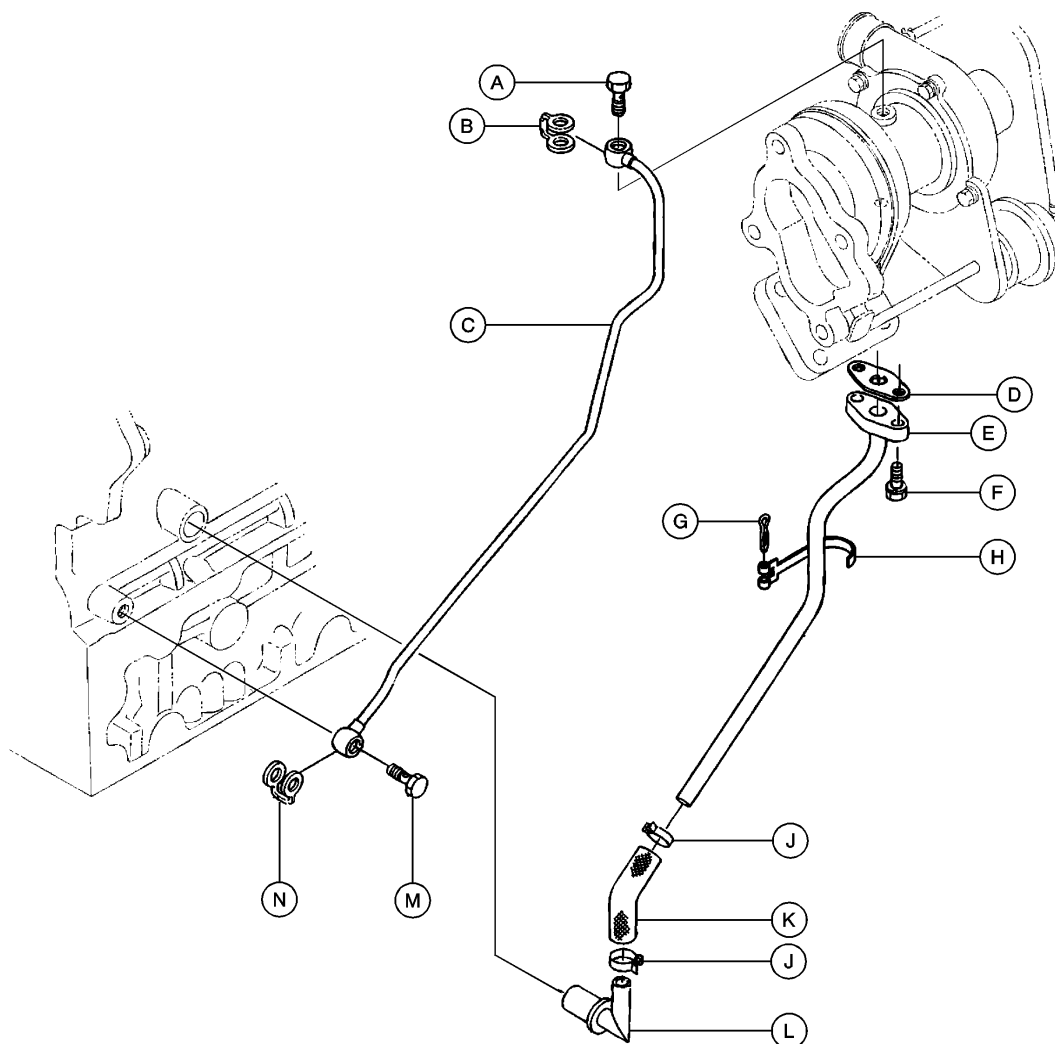
# TURBOCHARGER TURBOCHARGER



22546980\_eng28\_2/05\_A

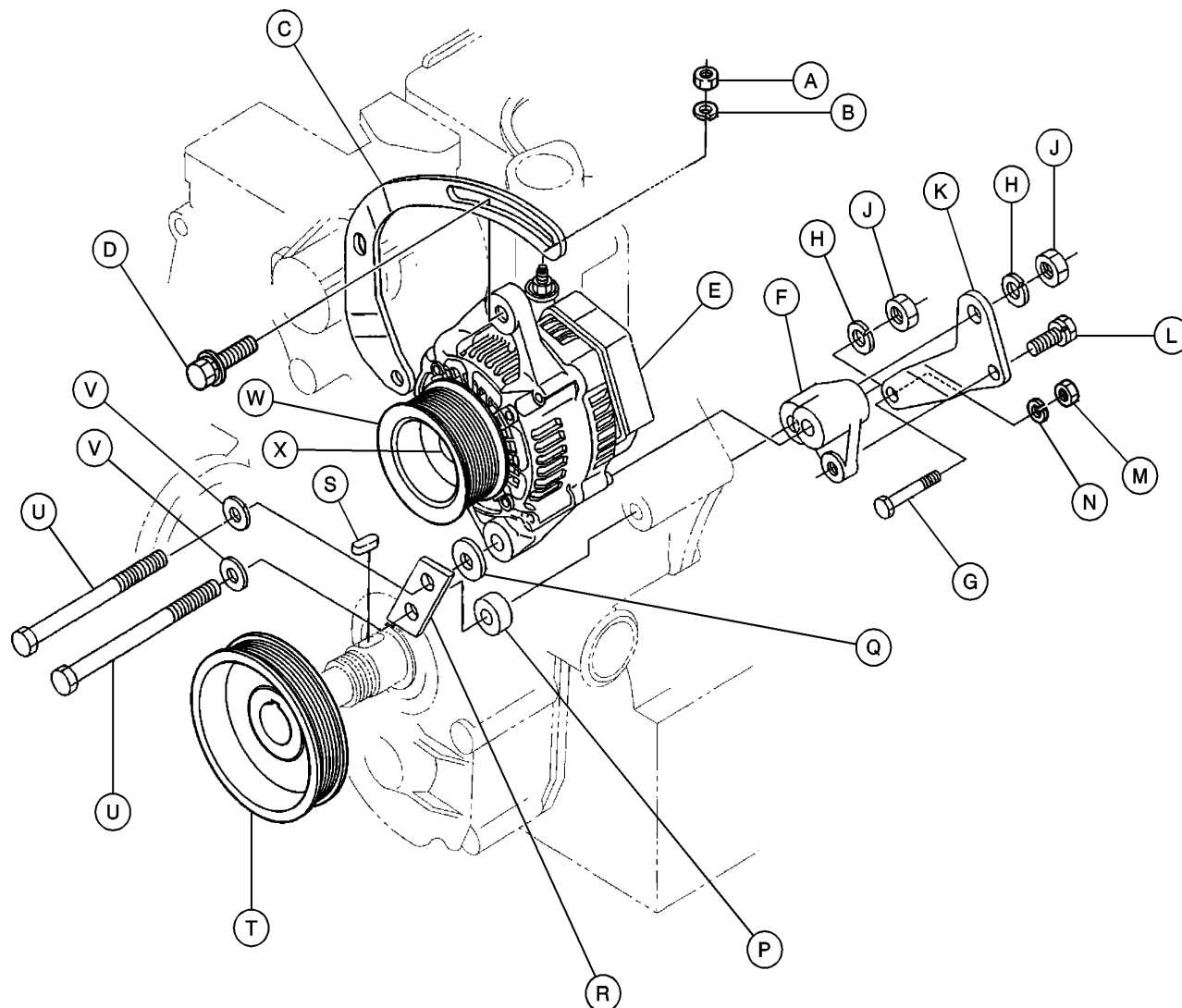
| ITEM | COMM. NO. | DESCRIPTION                    | QTY | DIMENSIONS/NOTES   |
|------|-----------|--------------------------------|-----|--------------------|
| A    | 22587398  | BAND, PIPE                     | 1   | INCLUDED W/ ITEM D |
| B    | 22588958  | HOSE, INLET                    | 1   |                    |
| C    | 22588966  | CLAMP, HOSE                    | 1   |                    |
| D    | 22567879  | ASSEMBLY TURBO CHARGER         | 1   |                    |
| E    | 22589030  | ASSEMBLY HOSE                  | 1   |                    |
| F    | 22594519  | NUT, HEX M08-1.25              | 4   |                    |
| G    | 22594626  | WASHER, SPRING LOCK            | 4   |                    |
| H    | 22567960  | GASKET, TURBO-EXHAUST MANIFOLD | 1   |                    |
| J    | 22594410  | STUD                           | 4   |                    |
| K    | 22567978  | GASKET, TURBO-MUFFLER FLANGE   | 1   |                    |
| L    | 22588990  | FLANGE, MUFFLER                | 1   |                    |
| M    | 22594261  | BOLT, HEX M08-1.25 X 30        | 4   |                    |
| N    | 22588925  | BOLT                           | 1   |                    |

# TURBOCHARGER OIL PIPING TURBOCHARGER OIL PIPING



| ITEM | COMM. NO. | DESCRIPTION                   | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------------------|-----|------------------|
| A    | 22595755  | BOLT, EYE JOINT               | 1   |                  |
| B    | 22568166  | GASKET, FUEL RETURN EYE JOINT | 1   |                  |
| C    | 22589154  | PIPE, ENGINE-TURBO OIL        | 1   |                  |
| D    | 22595367  | GASKET                        | 1   |                  |
| E    | 22595722  | PIPE, TURBO RETURN OIL        | 1   |                  |
| F    | 22594154  | BOLT, HEX M06-1.0 X 18        | 2   |                  |
| G    | 22595805  | PIN, BAND                     | 1   |                  |
| H    | 22595318  | CLAMP, PIPE                   | 1   |                  |
| J    | 22586382  | CLAMP, HOSE                   | 2   |                  |
| K    | 22595730  | TUBE, OIL                     | 1   |                  |
| L    | 22595300  | PIPE, OIL                     | 1   |                  |
| M    | 22586945  | BOLT, EYE JOINT               | 1   |                  |
| N    | 22595458  | GASKET, FUEL RETURN EYE JOINT | 1   |                  |

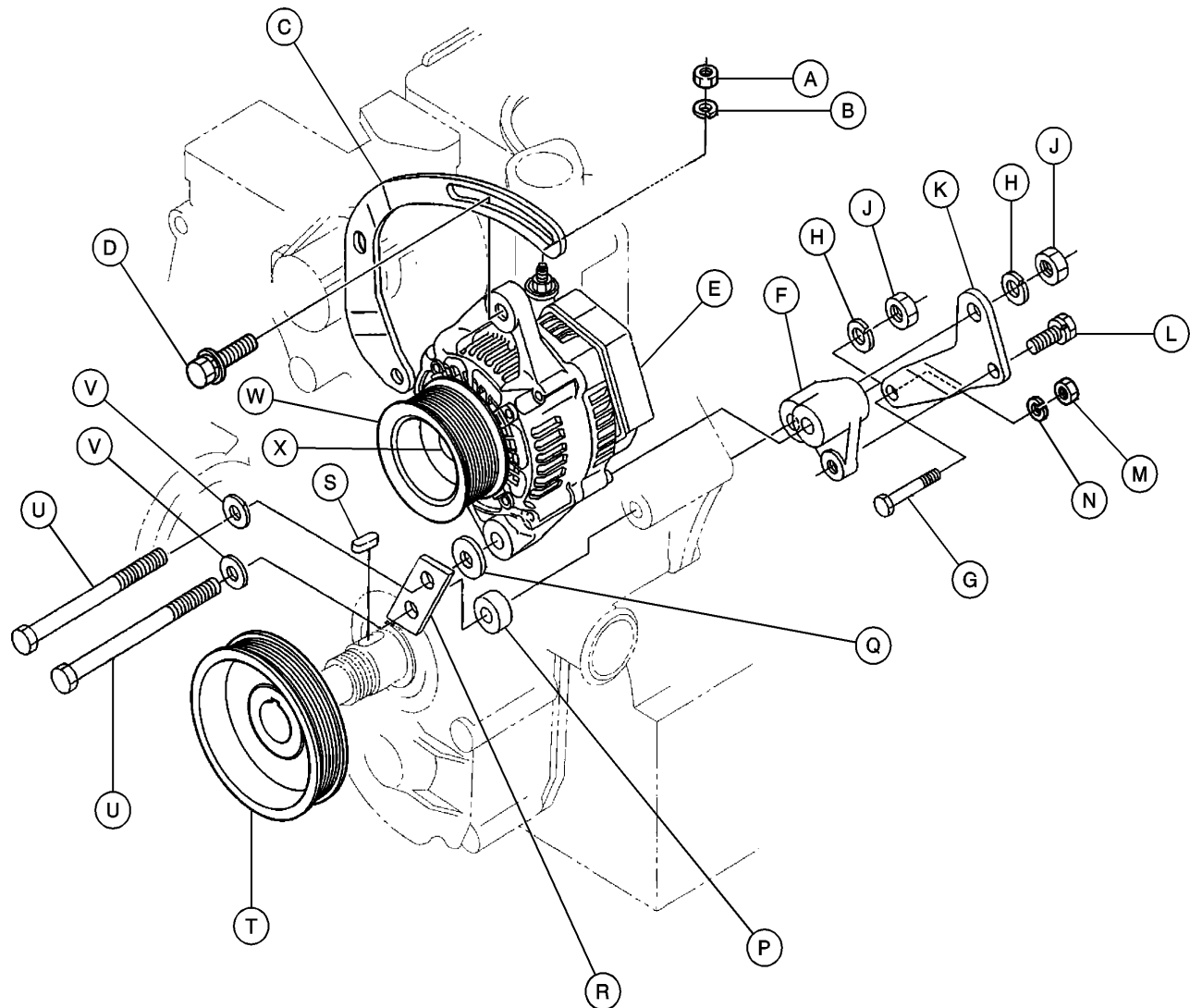
# ALTERNATOR AND PULLEY ALTERNATOR AND PULLEY



22546980\_eng25\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION             | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------------|-----|------------------|
| A    | 22594519  | NUT, HEX M08-1.25       | 1   |                  |
| B    | 22594634  | WASHER, SPRING LOCK     | 1   |                  |
| C    | 22595433  | STAY, DYNAMO            | 1   |                  |
| D    | 22594345  | BOLT, HEX M08-1.25 X 30 | 1   |                  |
| E    | 22568182  | ALTERNATOR              | 1   |                  |
| F    | 22595425  | SUPPORT, ALTERNATOR     | 1   |                  |
| G    | 22595276  | BOLT                    | 1   |                  |
| H    | 22594642  | WASHER, SPRING LOCK     | 2   |                  |
| J    | 22594527  | NUT, HEX M10-1.25       | 2   |                  |
| K    | 22595250  | SUPPORT, ALTERNATOR     | 1   |                  |
| L    | 22594246  | BOLT, HEX M08-1.25 X 20 | 1   |                  |

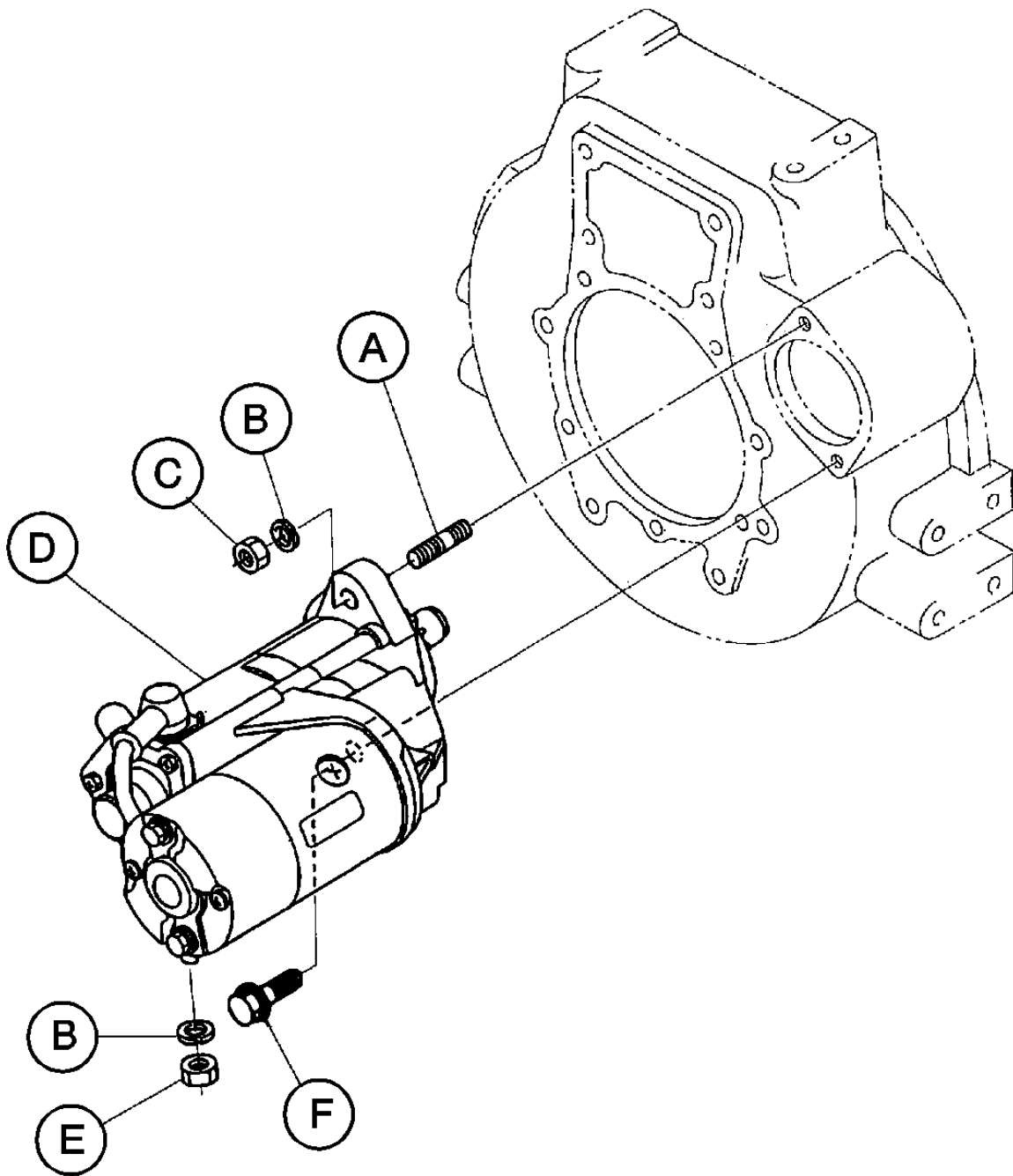
ALTERNATOR AND PULLEY  
ALTERNATOR AND PULLEY



22546980\_eng25\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION             | QTY | DIMENSIONS/NOTES |
|------|-----------|-------------------------|-----|------------------|
| M    | 22594493  | NUT, HEX M06-1.0        | 1   |                  |
| N    | 22594626  | WASHER, SPRING LOCK     | 1   |                  |
| P    | 22595839  | COLLAR                  | 1   |                  |
| Q    | 22595821  | SHIM                    | 1   |                  |
| R    | 22595268  | STAY                    | 1   |                  |
| S    | 22594865  | KEY, FEATHER            | 1   |                  |
| T    | 22567937  | PULLEY, FAN DRIVE       | 1   |                  |
| U    | 22594394  | BOLT, HEX M10-1.5 X 120 | 2   |                  |
| V    | 22594618  | WASHER, PLAIN           | 2   |                  |
| W    | 22595391  | PULLEY, ALTERNATOR      | 1   |                  |
| X    | 22595169  | NUT                     | 1   |                  |

STARTER  
STARTER



22546980\_eng26\_2/05\_A

| ITEM | COMM. NO. | DESCRIPTION         | QTY | DIMENSIONS/NOTES |
|------|-----------|---------------------|-----|------------------|
| A    | 22594428  | STUD                | 1   |                  |
| B    | 22594642  | WASHER, SPRING LOCK | 2   |                  |
| C    | 22594527  | NUT                 | 1   |                  |
| D    | 22496939  | STARTER ASM.        | 1   |                  |
| E    | 22594501  | NUT                 | 1   |                  |
| F    | 22594352  | BOLT                | 1   |                  |



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