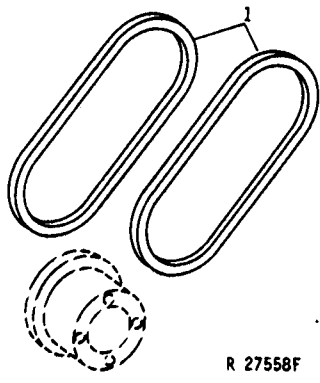


FAN BELT  
(4239T)  
CODE 2401 FAN BELT, STANDARD POSITION WATER PUMP

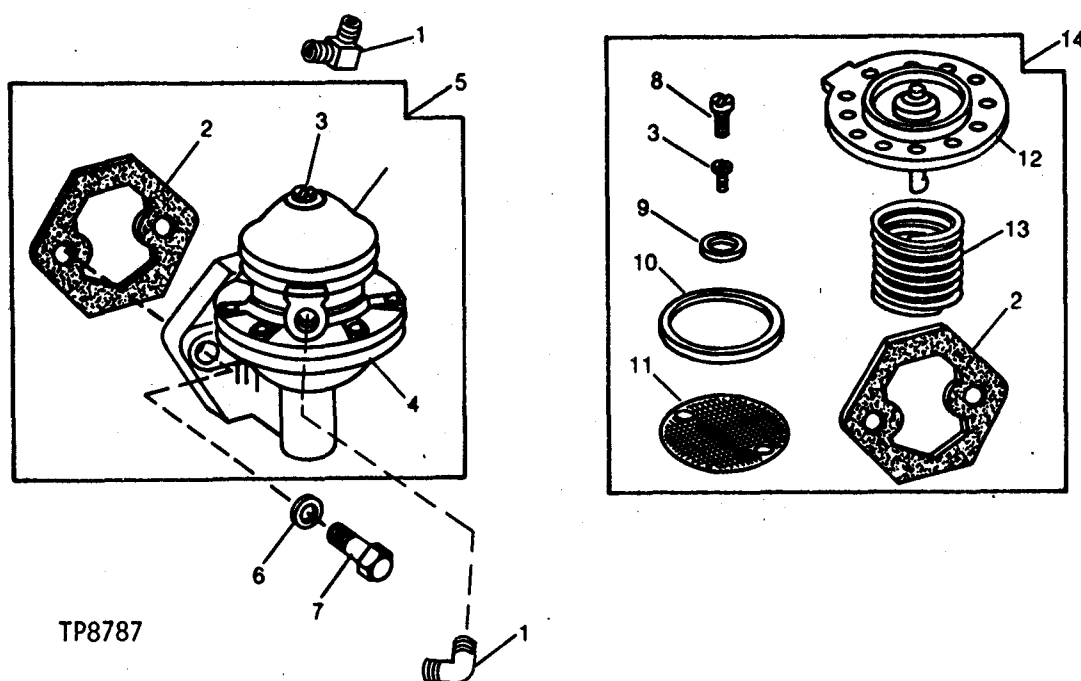
R27558



| KEY | PART NO. | PART NAME | QTY | ENGINE<br>SERIAL NO. | REMARKS                                               |
|-----|----------|-----------|-----|----------------------|-------------------------------------------------------|
| 1   | AR72036  | BELT SET  | 1   |                      | (SUB FOR AT24833, THIS APPLICATION, SET OF TWO BELTS) |

# FUEL TRANSFER PUMP (AC AND SOFABEX)

TP8787

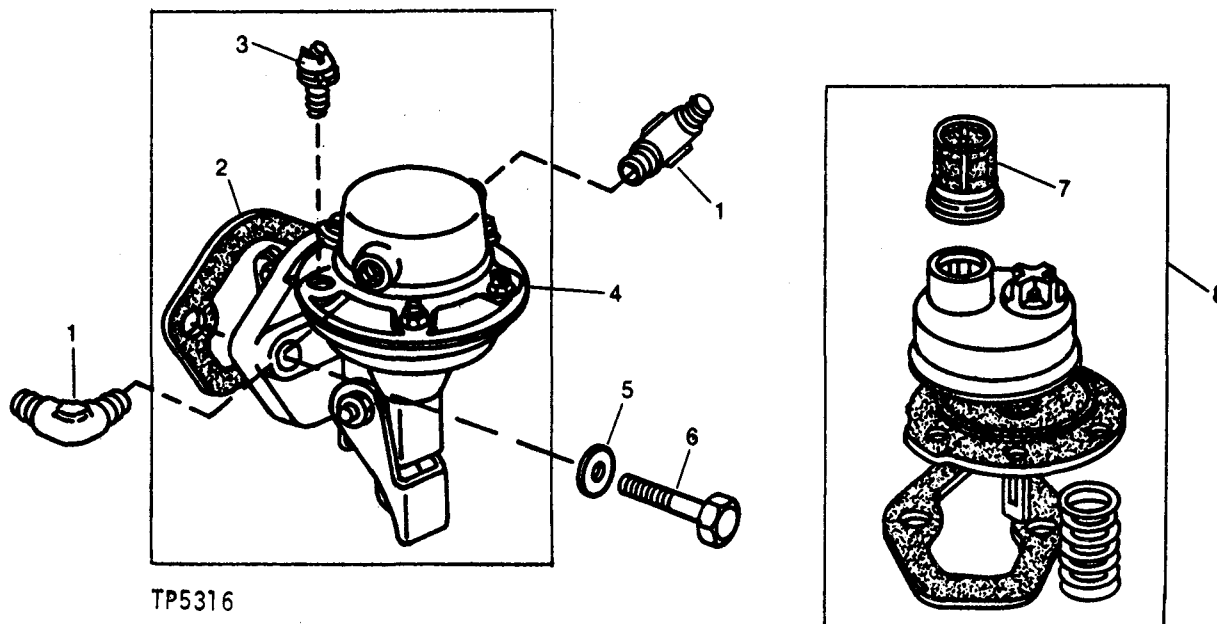


TP8787

| KEY | PART NO. | PART NAME | QTY | ENGINE<br>SERIAL NO. | REMARKS        |
|-----|----------|-----------|-----|----------------------|----------------|
| 1   | T30738   | ELBOW     | 2   |                      | 90°            |
| 2   | R27285   | GASKET    | 1   |                      |                |
| 3   | 21M7036  | SCREW     | 1   |                      | M5 X 16        |
| 4   | .....    | FUEL PUMP | 1   |                      | (SUB DD14292)  |
| 5   | DD14292  | FUEL PUMP | 1   |                      |                |
| 6   | R20498   | WASHER    | 2   |                      |                |
| 7   | 19H1849  | CAP SCREW | 2   |                      | 5/16" X 1-1/4" |
| 8   | R49266   | BOLT      | 2   |                      |                |
| 9   | .....    | GASKET    | 1   |                      | (SUB RE13517)  |
| 10  | .....    | GASKET    | 1   |                      | (SUB RE13517)  |
| 11  | .....    | SCREEN    | 1   |                      | (SUB RE13517)  |
| 12  | .....    | DIAPHRAGM | 1   |                      | (SUB RE13517)  |
| 13  | .....    | SPRING    | 1   |                      | (SUB RE13517)  |
| 14  | RE13517  | KIT       | 1   |                      |                |

# FUEL TRANSFER PUMP (CORONA)

TP5316



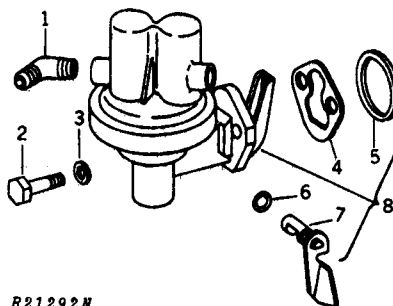
TP5316

| KEY | PART NO. | PART NAME          | QTY | ENGINE<br>SERIAL NO. | REMARKS                       |
|-----|----------|--------------------|-----|----------------------|-------------------------------|
| 1   | T30738   | ELBOW              | 2   | 90°                  |                               |
| 2   | R27285   | GASKET             | 1   |                      |                               |
| 3   | AR102676 | SCREW, WITH WASHER | 6   |                      |                               |
| 4   | DD14195  | FUEL PUMP          | 1   |                      | (SUB FOR AR102678)            |
| 5   | 24H1136  | WASHER             | 2   |                      | 11/32" X 11/16" X 0.060"      |
| 6   | 19H1849  | CAP SCREW          | 2   |                      | 5/16" X 1-1/4"                |
| 7   | R75931   | FUEL FILTER        | 1   |                      |                               |
| 8   | DD14194  | FUEL PUMP          | 1   |                      | FUEL PUMP, (SUB FOR AR102675) |

MEMORANDA

R21292

## FUEL TRANSFER PUMP



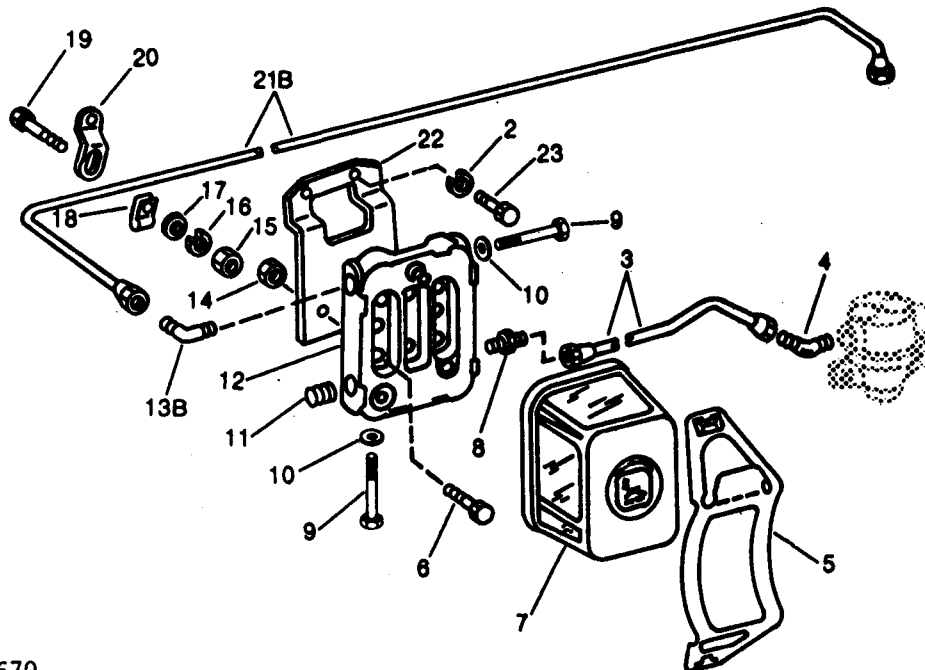
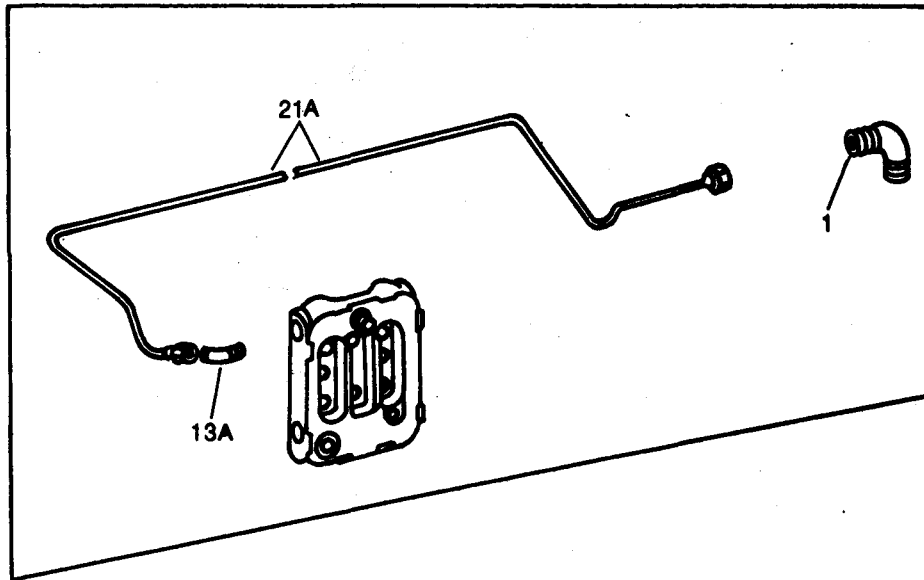
R21292N

| KEY | PART NO. | PART NAME | QTY | ENGINE<br>SERIAL NO. | REMARKS               |
|-----|----------|-----------|-----|----------------------|-----------------------|
| 1   | T30738   | ELBOW     | 1   |                      | 90°                   |
| 2   | 19H1849  | CAP SCREW | 2   |                      | 5/16" X 1-1/4"        |
| 3   | R20498   | WASHER    | 2   |                      | ALUMINUM              |
| 4   | R27285   | GASKET    | 1   |                      |                       |
| 5   | R48399   | WASHER    | 1   |                      |                       |
| 6   | A4365R   | O-RING    | 1   |                      |                       |
| 7   | AR52556  | LEVER     | 1   |                      | PRIMARY               |
| 8   | AR52159  | FUEL PUMP | 1   |                      | (A) (SUB FOR AR49770) |
|     | AR53343  | FUEL PUMP | 1   |                      | (A)                   |
|     | AR92777  | FUEL PUMP | 1   |                      | (A) (SUB FOR AR76030) |
|     | AR55730  | FUEL PUMP | 1   |                      | (SUB FOR AR77914)     |

(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

# FUEL FILTER AND FUEL LINES (4239D)

TP9670



TP9670

**FUEL FILTER AND FUEL LINES-CONTINUED  
(4239D)**

| KEY | PART NO. | PART NAME      | QTY | ENGINE<br>SERIAL NO. | REMARKS                                 |
|-----|----------|----------------|-----|----------------------|-----------------------------------------|
| 1   | R48008   | ELBOW          | 1   | -575617              | 90°                                     |
| 2   | 12H304   | LOCK WASHER    | 4   |                      | 3/8"                                    |
| 3   | AR80620  | FUEL LINE      | 1   |                      | (A) TRANSFER PUMP TO FILTER             |
|     | AR86345  | FUEL LINE      | 1   |                      | (A) (SUB FOR AR63654, THIS APPLICATION) |
|     | AT20266  | FUEL LINE      | 1   |                      | (A)                                     |
| 4   | T30738   | ELBOW          | 1   |                      |                                         |
| 5   | R66821   | CLAMP          | 1   |                      | (SUB FOR R57258)                        |
| 6   | 19H2284  | CAP SCREW      | 3   |                      | 3/8" X 7/8"                             |
| 7   | AR50041  | FILTER ELEMENT | 1   |                      |                                         |
| 8   | R27346   | FITTING        | 1   |                      |                                         |
| 9   | R48071   | DRAIN PLUG     | 2   |                      |                                         |
| 10  | R26287   | O-RING         | 2   |                      |                                         |
| 11  | 15H558   | PIPE PLUG      | 1   |                      | 1/8"                                    |
| 12  | AR50040  | HOUSING        | 1   |                      |                                         |
| 13  | T24945   | ELBOW          | 1   |                      | 45°                                     |
| 13A | T24945   | ELBOW          | 1   | -575617              | 45°                                     |
| 13B | T30738   | ELBOW          | 1   | 575618-              |                                         |
| 14  | 14H812   | NUT            | 2   |                      | 3/8"                                    |
| 15  | 14H785   | NUT            | 1   |                      | 5/16"                                   |
| 16  | 12H303   | LOCK WASHER    | 1   |                      | 5/16"                                   |
| 17  | 24H1136  | WASHER         | 1   |                      | 11/32" X 11/16" X 0.060"                |
| 18  | T13914   | CLAMP          | 1   |                      |                                         |
| 19  | 19H1813  | CAP SCREW      | 1   |                      | 5/16" X 5/8"                            |
| 20  | R48569   | BRACKET        | 1   |                      |                                         |
| 21A | AR80231  | FUEL LINE      | 1   | -575617              | FILTER TO INJECTION PUMP                |
| 21B | AR69743  | FUEL LINE      | 1   | 575618-              |                                         |
| 22  | R53214   | BRACKET        | 1   |                      |                                         |
| 23  | 19H1134  | CAP SCREW      | 2   |                      | 3/8" X 3/4"                             |

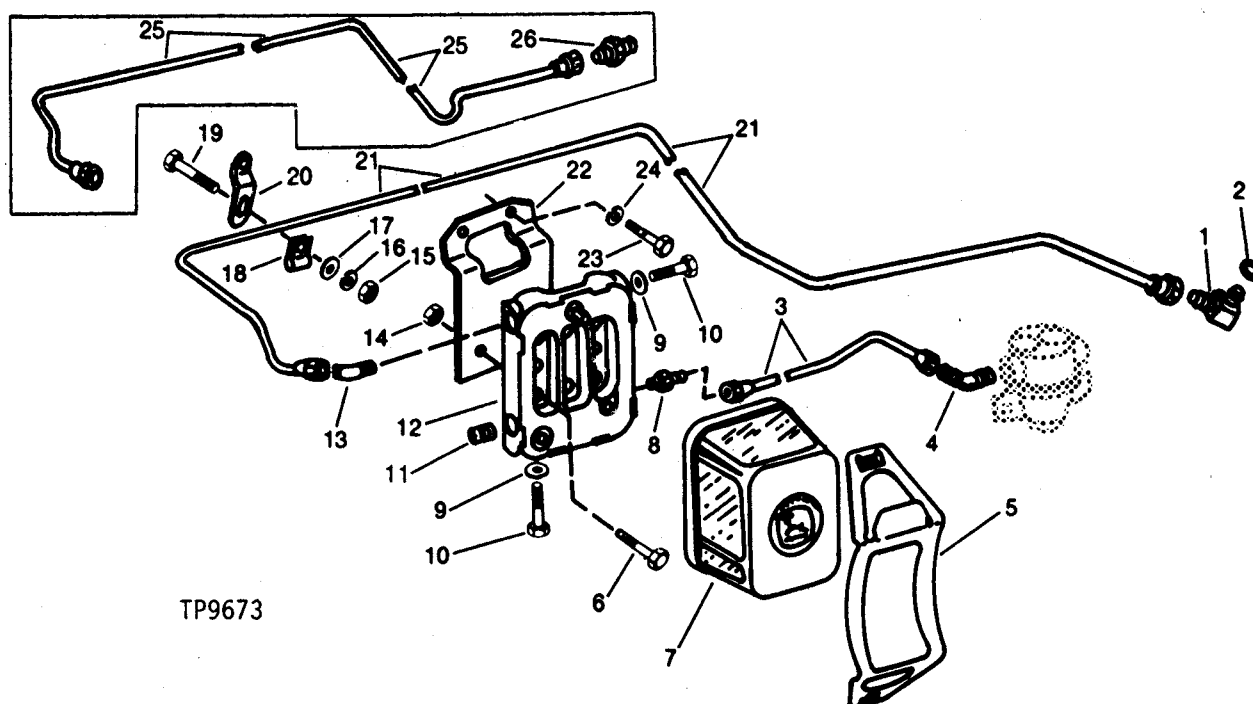
(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

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**MEMORANDA**

# FUEL FILTER AND FUEL LINES (4239T)

TP9673

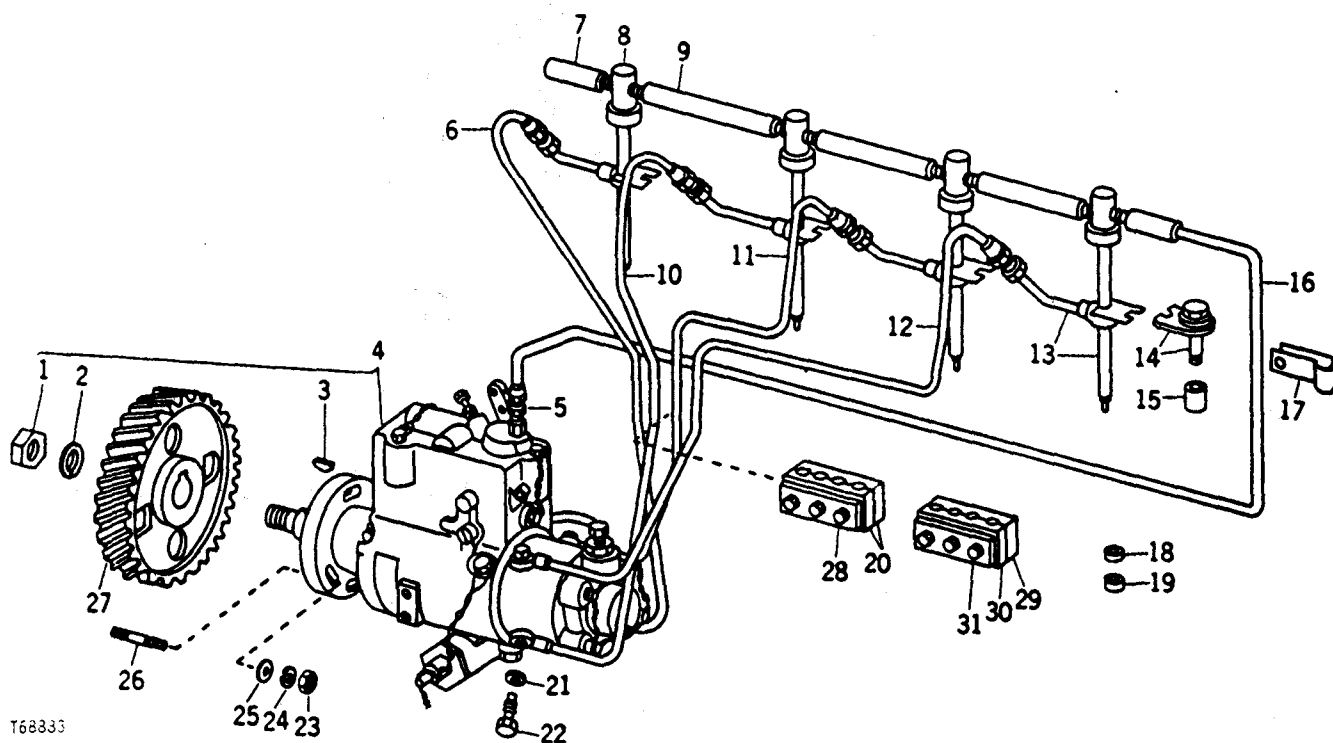


| KEY | PART NO. | PART NAME      | QTY | ENGINE<br>SERIAL NO. | REMARKS                                 |
|-----|----------|----------------|-----|----------------------|-----------------------------------------|
| 1   | AR26771  | ELBOW          | 1   |                      | 90° (USE WITH AR101240)                 |
| 2   | R26286   | O-RING         | 1   |                      |                                         |
| 3   | AR80620  | FUEL LINE      | 1   |                      | (A) TRANSFER PUMP TO FILTER             |
| 4   | AR86345  | FUEL LINE      | 1   |                      | (A) (SUB FOR AR63654, THIS APPLICATION) |
| 5   | T30738   | ELBOW          | 1   |                      | 90°                                     |
| 6   | R66821   | CLAMP          | 1   |                      | (SUB FOR R57258)                        |
| 7   | 19H2284  | CAP SCREW      | 2   |                      | 3/8" X 7/8"                             |
| 8   | AR50041  | FILTER ELEMENT | 1   |                      |                                         |
| 9   | R27346   | FITTING        | 1   |                      |                                         |
| 10  | R34447   | WASHER         | 2   |                      |                                         |
| 11  | R48071   | DRAIN PLUG     | 2   |                      |                                         |
| 12  | 15H558   | PIPE PLUG      | 1   |                      | 1/8"                                    |
| 13  | AR50040  | HOUSING        | 1   |                      |                                         |
| 14  | T24945   | ELBOW          | 1   |                      | 45°                                     |
| 15  | 14H812   | NUT            | 2   |                      | 3/8"                                    |
| 16  | 14H785   | NUT            | 1   |                      | 5/16"                                   |
| 17  | 12H303   | LOCK WASHER    | 1   |                      | 5/16"                                   |
| 18  | 24H1685  | WASHER         | 1   |                      | 11/32" X 3/4" X 0.075"                  |
| 19  | T13914   | CLAMP          | 1   |                      |                                         |
| 20  | 19H1813  | CAP SCREW      | 1   |                      | 5/16" X 5/8"                            |
| 21  | R48569   | BRACKET        | 1   |                      |                                         |
| 22  | AR101240 | FUEL LINE      | 1   |                      |                                         |
| 23  | R53214   | BRACKET        | 1   |                      |                                         |
| 24  | 19H2284  | CAP SCREW      | 2   |                      | 3/8" X 7/8"                             |
| 25  | 12H304   | LOCK WASHER    | 2   |                      | 3/8"                                    |
| 26  | AR78063  | FUEL LINE      | 1   |                      | (SUB AR101240 AND AR26771)              |
|     | R27272   | FITTING        | 1   |                      | (USE WITH AR78036)                      |

(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

FUEL INJECTION SYSTEM (4239D)  
 CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR  
 CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR

T68883



T68833

THIS PARTS LISTING IS CONTINUED

OEM ENGINES AND ACCESSORIES - 4239D AND 4239T

PC-3153 (23-APR-82)

LITHO IN U.S.A.

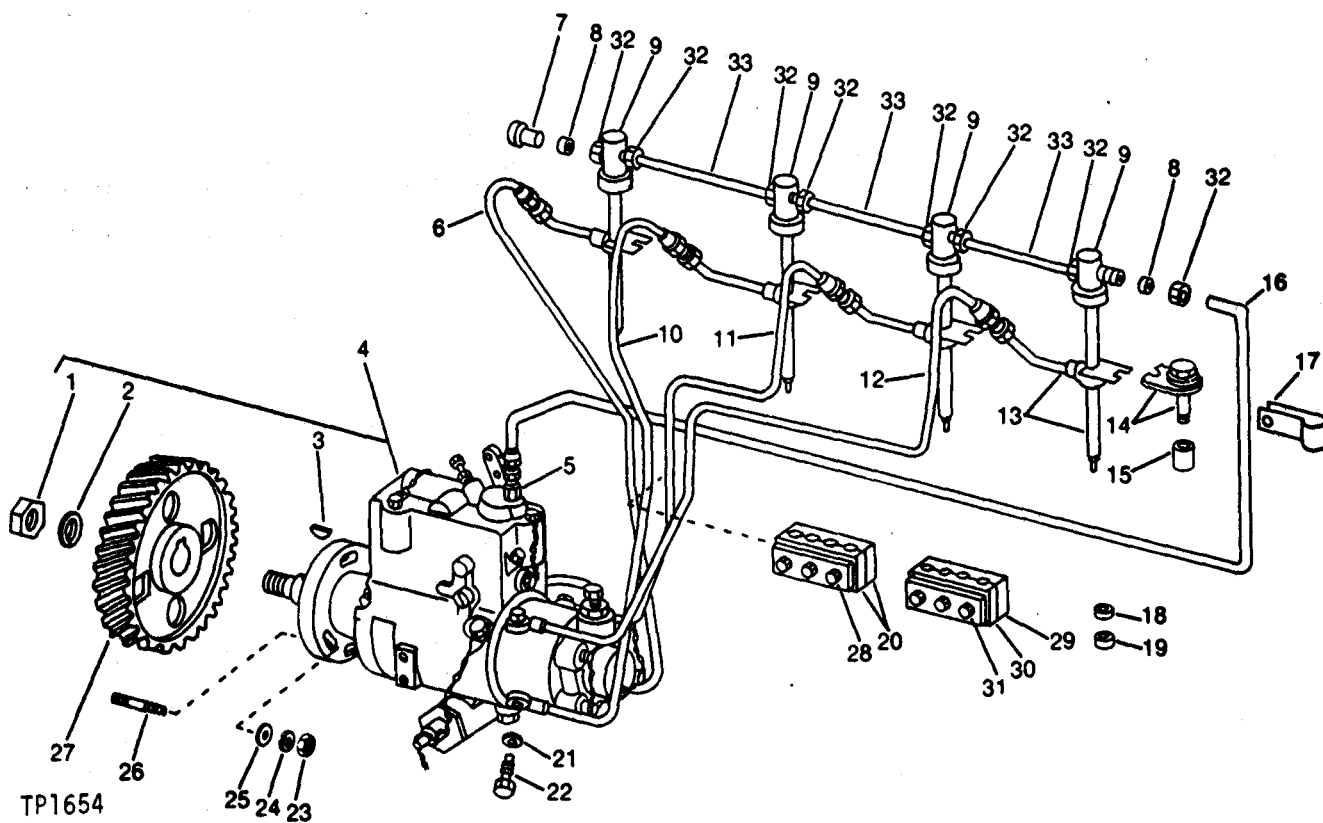
**FUEL INJECTION SYSTEM (4239D)-CONTINUED**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. -410663)**

| KEY | PART NO. | PART NAME           | QTY | ENGINE<br>SERIAL NO. | REMARKS                                                              |
|-----|----------|---------------------|-----|----------------------|----------------------------------------------------------------------|
| 1   | R48599   | NUT                 | 1   |                      |                                                                      |
| 2   | R48600   | LOCK WASHER         | 1   |                      |                                                                      |
| 3   | 26H10    | SHAFT KEY           | 1   |                      | 5/32" X 5/8"                                                         |
| 4   | AR80230  | FUEL INJECTION PUMP | 1   |                      | (ROOSA-MASTER NO. JDB435MD3053)                                      |
|     | AR80233  | FUEL INJECTION PUMP | 1   |                      | WITH 3 PERCENT-5 PERCENT GOVERNOR<br>(ROOSA-MASTER NO. JDB435CM3223) |
| 5   | R35352   | FITTING             | 1   |                      |                                                                      |
| 6   | AR77164  | FUEL LINE           | 1   |                      | (A) NO. 1                                                            |
|     | AT18173  | FUEL LINE           | 1   |                      | (A) NO. 1                                                            |
| 7   | .....    | HOSE                | 2   |                      | (MAKE FROM R68281, 1 524 MM (5') (SUB FOR<br>AT32064)                |
| 8   | AT27622  | CAP                 | 4   |                      |                                                                      |
| 9   | .....    | HOSE                | 3   |                      | (MAKE FROM R68281, 1 524 MM (5 FT.) (SUB FOR<br>T27465 AND AT32064)  |
| 10  | AR77165  | FUEL LINE           | 1   |                      | (A) NO. 2                                                            |
|     | AT18174  | FUEL LINE           | 1   |                      | (A) NO. 2                                                            |
| 11  | AR77166  | FUEL LINE           | 1   |                      | (A) NO. 3                                                            |
|     | AT18175  | FUEL LINE           | 1   |                      | (A) NO. 3                                                            |
| 12  | AR77167  | FUEL LINE           | 1   |                      | (A) NO. 4                                                            |
|     | AT18176  | FUEL LINE           | 1   |                      | (A) NO. 4                                                            |
| 13  | AR73673  | INJECTION NOZZLE    | 4   |                      | (A) (ROOSA-MASTER NO. 20631) (SUB AR89563 OR<br>AR89564)             |
|     | AR88239  | INJECTION NOZZLE    | 4   |                      | (A) (ROOSA-MASTER NO. 22042) (SUB AR89563 OR<br>AR89564)             |
| 14  | R34760   | CLAMP               | 4   |                      |                                                                      |
| 15  | R60745   | SPACER              | 4   |                      | (SUB FOR R34761)                                                     |
| 16  | AR63362  | FUEL LINE           | 1   |                      | (A) FUEL INJECTION PUMP LEAK-OFF                                     |
|     | AT27620  | FUEL LINE           | 1   |                      | (A)                                                                  |
| 17  | T29969   | CLAMP               | 4   |                      |                                                                      |
| 18  | R60746   | WASHER              | 4   |                      | NOZZLE, UPPER                                                        |
| 19  | R48000   | WASHER              | 4   |                      | NOZZLE, LOWER                                                        |
| 20  | DD13913  | CLAMP               | 1   |                      | (A) (SUB FOR AR61355, THIS APPLICATION)                              |
| 21  | T20055   | WASHER              | 8   |                      |                                                                      |
| 22  | R26726   | FITTING             | 4   |                      |                                                                      |
| 23  | 14H812   | NUT                 | 2   |                      | 3/8"                                                                 |
| 24  | 12H304   | LOCK WASHER         | 2   |                      | 3/8"                                                                 |
| 25  | 24H1303  | WASHER              | 2   |                      | 13/32" X 11/16" X 0.060"                                             |
| 26  | T20052   | STUD                | 2   |                      |                                                                      |
| 27  | T20165   | GEAR                | 1   |                      | (48 TEETH)                                                           |
| 28  | .....    | CAP SCREW           | 1   |                      |                                                                      |
|     | .....    | WASHER              | 1   |                      |                                                                      |
| 29  | T23463   | STRAP               | 1   |                      | (A) (SUB R59300, R61146, (2) R59299 AND (3)<br>AR76704)              |
|     | R59299   | CLAMP               | 1   |                      | (A)                                                                  |
|     | R61146   | STRAP               | 1   |                      | (A)                                                                  |
| 30  | T23462   | CLAMP               | 1   |                      | (A) (SUB R59300, R61146, (2) R59299 AND (3)<br>AR76704)              |
|     | R59299   | CLAMP               | 1   |                      | (A)                                                                  |
|     | R59300   | STRAP               | 1   |                      | (A)                                                                  |
| 31  | 21H1317  | SCREW               | 3   |                      | (A) NO. 10 X 5/8", (USE WITH T23462 AND<br>T23463)                   |
|     | 12H246   | LOCK WASHER         | 3   |                      | (A) NO. 10, (USE WITH T23462 AND T23463)                             |
|     | AR76704  | SCREW               | 3   |                      | (A)                                                                  |

(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

**FUEL INJECTION SYSTEM (4239D)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. 410664-575617)**

TP1654



THIS PARTS LISTING IS CONTINUED

OEM ENGINES AND ACCESSORIES - 4239D AND 4239T PC-3153 (02-SEP-83) LITHO IN U.S.A.

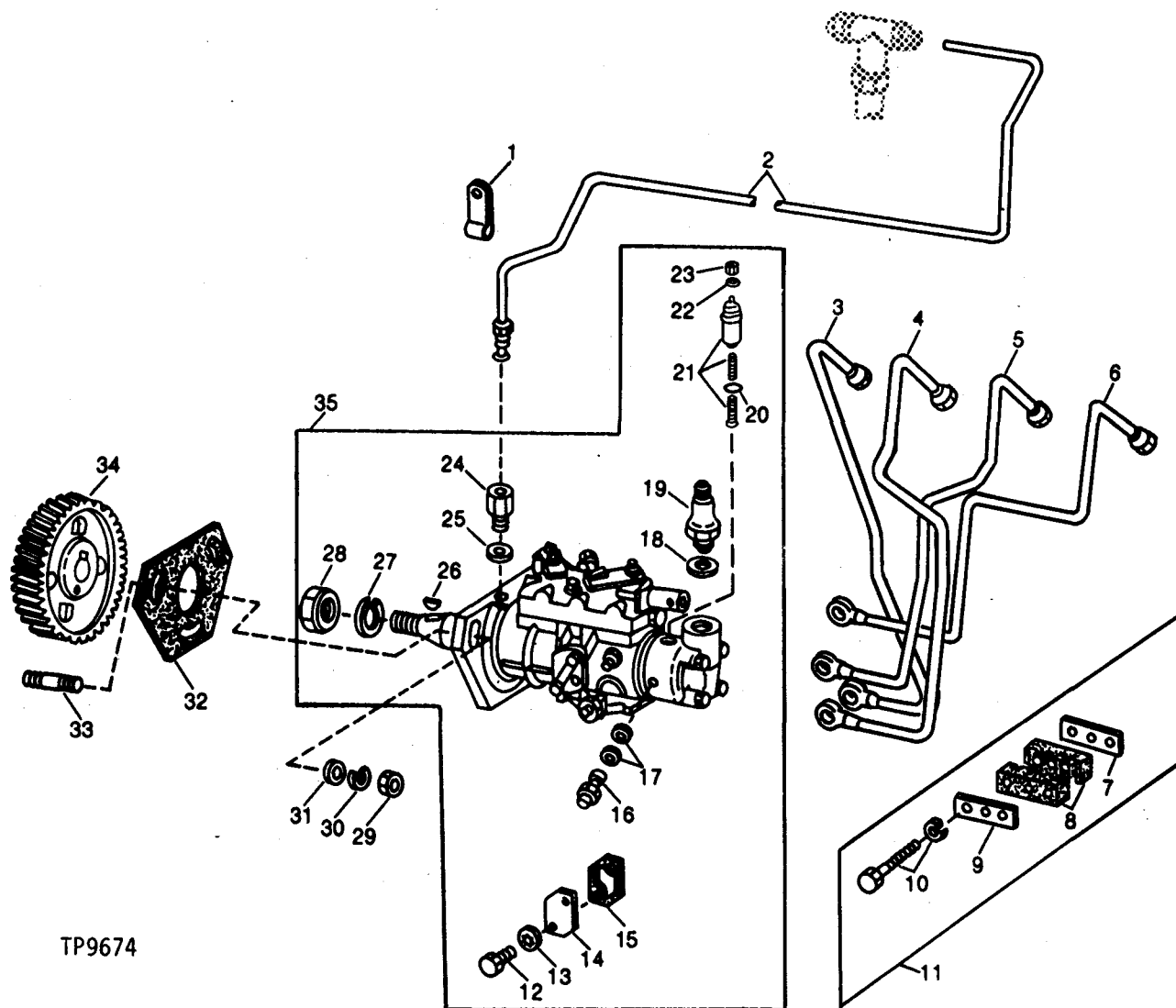
**FUEL INJECTION SYSTEM (4239D)-CONTINUED**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. 410664-575617)**

| KEY | PART NO. | PART NAME           | QTY | ENGINE<br>SERIAL NO. | REMARKS                                                              |
|-----|----------|---------------------|-----|----------------------|----------------------------------------------------------------------|
| 1   | R48599   | NUT                 | 1   |                      |                                                                      |
| 2   | R48600   | LOCK WASHER         | 1   |                      |                                                                      |
| 3   | 26H10    | SHAFT KEY           | 1   |                      | 5/32" X 5/8"                                                         |
| 4   | AR80230  | FUEL INJECTION PUMP | 1   |                      | (ROOSA-MASTER NO. JDB435MD3053)                                      |
|     | AR80233  | FUEL INJECTION PUMP | 1   |                      | WITH 3 PERCENT-5 PERCENT GOVERNOR<br>(ROOSA-MASTER NO. JDB435CM3223) |
| 5   | R35352   | FITTING             | 1   |                      |                                                                      |
| 6   | AR77164  | FUEL LINE           | 1   |                      | (A) NO. 1                                                            |
|     | AT18173  | FUEL LINE           | 1   |                      | (A) NO. 1                                                            |
| 7   | 16M2605  | RIVET               | 1   |                      | 6 X 20MM                                                             |
| 8   | R51936   | WASHER              | 8   |                      |                                                                      |
| 9   | AR85618  | CAP                 | 4   |                      |                                                                      |
| 10  | AR77165  | FUEL LINE           | 1   |                      | (A) NO. 2                                                            |
|     | AT18174  | FUEL LINE           | 1   |                      | (A) NO. 2                                                            |
| 11  | AR77166  | FUEL LINE           | 1   |                      | (A) NO. 3                                                            |
|     | AT18175  | FUEL LINE           | 1   |                      | (A) NO. 3                                                            |
| 12  | AR77167  | FUEL LINE           | 1   |                      | (A) NO. 4                                                            |
|     | AT18176  | FUEL LINE           | 1   |                      | (A) NO. 4                                                            |
| 13  | AR89563  | INJECTION NOZZLE    | 4   |                      | (A) (ROOSA-MASTER NO. 22203)                                         |
| 14  | R34760   | CLAMP               | 4   |                      |                                                                      |
| 15  | R60745   | SPACER              | 4   |                      |                                                                      |
| 16  | AR89844  | LINE                | 1   |                      | FUEL INJECTION PUMP LEAK-OFF                                         |
| 17  | T29969   | CLAMP               | 4   |                      |                                                                      |
| 18  | R60746   | WASHER              | 4   |                      | NOZZLE, UPPER                                                        |
| 19  | R48000   | WASHER              | 4   |                      | NOZZLE, LOWER                                                        |
| 20  | DD13913  | CLAMP               | 1   |                      | (SUB FOR AR61355, THIS APPLICATION)                                  |
| 21  | T20055   | WASHER              | 8   |                      |                                                                      |
| 22  | R26726   | FITTING             | 4   |                      |                                                                      |
| 23  | 14H812   | NUT                 | 2   |                      | 3/8"                                                                 |
| 24  | 12H304   | LOCK WASHER         | 2   |                      | 3/8"                                                                 |
| 25  | 24H1303  | WASHER              | 2   |                      | 13/32" X 11/16" X 0.060"                                             |
| 26  | T20052   | STUD                | 2   |                      |                                                                      |
| 27  | T20165   | GEAR                | 1   |                      | (48 TEETH)                                                           |
| 28  | .....    | CAP SCREW           | 1   |                      |                                                                      |
|     | .....    | WASHER              | 1   |                      |                                                                      |
| 29  | T23463   | STRAP               | 1   |                      | (A) (SUB R59300, R61146, (2) R59299 AND (3)<br>AR76704)              |
|     | R59299   | CLAMP               | 1   |                      | (A)                                                                  |
|     | R61146   | STRAP               | 1   |                      | (A)                                                                  |
| 30  | T23462   | CLAMP               | 1   |                      | (A) (SUB R59300, R61146, (2) R59299 AND (3)<br>AR76704)              |
|     | R59299   | CLAMP               | 1   |                      | (A)                                                                  |
|     | R59300   | STRAP               | 1   |                      | (A)                                                                  |
| 31  | 21H1317  | SCREW               | 3   |                      | (A) NO. 10 X 5/8", (USE WITH T23462 AND<br>T23463)                   |
|     | 12H246   | LOCK WASHER         | 3   |                      | (A) NO. 10, (USE WITH T23462 AND T23463)                             |
|     | AR76704  | SCREW               | 3   |                      | (A)                                                                  |
| 32  | R51937   | FITTING             | 8   |                      |                                                                      |
| 33  | R66090   | SLEEVE              | 3   |                      |                                                                      |

(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

CODE 1602 FUEL INJECTION SYSTEM (4239D)  
 CODE 1603 FUEL INJECTION SYSTEM, REGULAR GOVERNOR  
 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR  
 (SERIAL NO. 575618- )

TP9674



TP9674

THIS PARTS LISTING IS CONTINUED

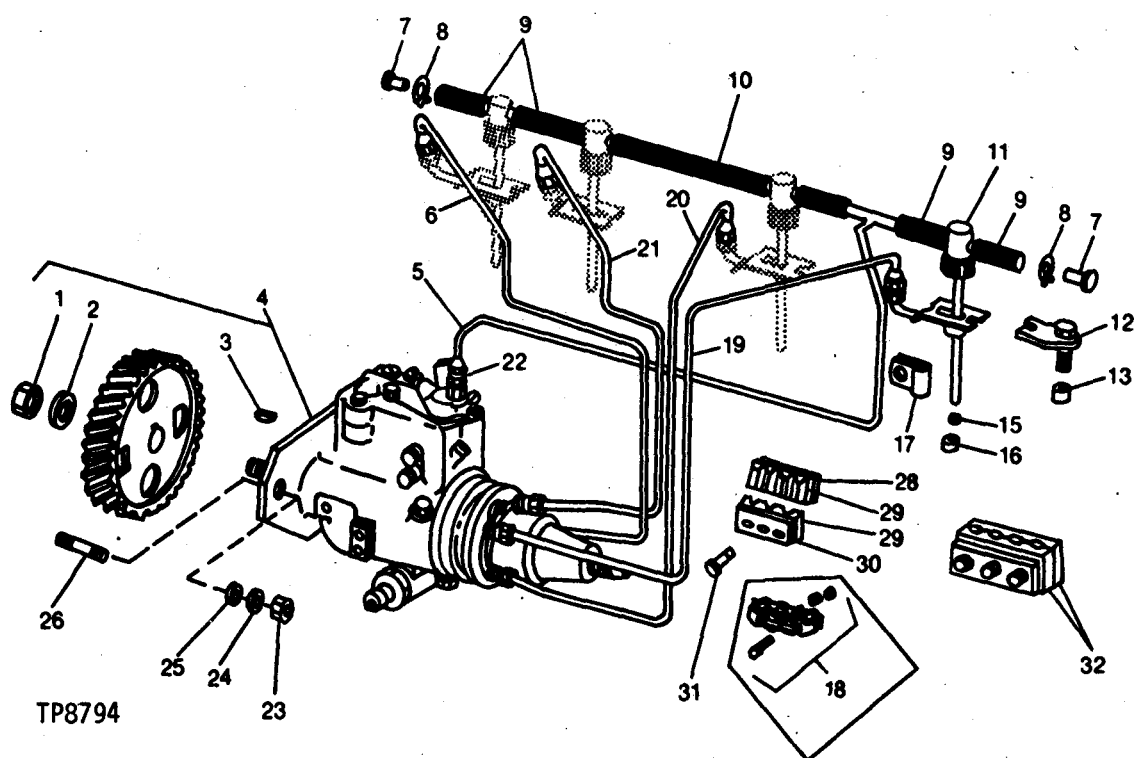
**FUEL INJECTION SYSTEM (4239D)-CONTINUED**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. 575618- )**

| KEY | PART NO. | PART NAME           | QTY | SERIAL NO. | REMARKS                                                        |
|-----|----------|---------------------|-----|------------|----------------------------------------------------------------|
| 1   | T29969   | CLAMP               | 1   |            |                                                                |
| 2   | AR89845  | LINE                | 1   |            | LEAK OFF                                                       |
| 3   | AR95750  | TUBE                | 1   |            | NO. 1                                                          |
| 4   | AR95751  | OIL LINE            | 1   |            | NO. 2                                                          |
| 5   | AR95752  | OIL LINE            | 1   |            | NO. 3                                                          |
| 6   | AR95753  | TUBE                | 1   |            | NO. 4                                                          |
| 7   | .....    | STRAP               | 1   |            | (SUB DD13913)                                                  |
| 8   | .....    | HALF CLAMP          | 2   |            | (SUB DD13913)                                                  |
| 9   | .....    | STRAP               | 1   |            | (SUB DD13913)                                                  |
| 10  | .....    | SCREW               | 3   |            | (SUB DD13913)                                                  |
| 11  | DD13913  | CLAMP               | 1   |            | (A)                                                            |
| 12  | T24544   | SCREW               | 2   |            |                                                                |
| 13  | 12H295   | LOCK WASHER         | 2   |            | NO. 10                                                         |
| 14  | T24542   | COVER               | 1   |            |                                                                |
| 15  | T24543   | GASKET              | 1   |            |                                                                |
| 16  | AT29464  | VALVE               | 4   |            |                                                                |
| 17  | T20055   | WASHER              | 8   |            |                                                                |
| 18  | T24619   | WASHER              | 1   |            |                                                                |
| 19  | R79015   | CONNECTOR           | 1   |            |                                                                |
| 20  | R67149   | O-RING              | 1   |            |                                                                |
| 21  | AR87379  | SOLENOID            | 1   |            | (A)                                                            |
|     | RE14225  | SOLENOID            | 1   |            | (A)                                                            |
| 22  | 12H295   | LOCK WASHER         | 1   |            | NO. 10                                                         |
| 23  | R67150   | NUT                 | 1   |            |                                                                |
| 24  | RE11602  | BALL CHECK          | 1   |            |                                                                |
| 25  | T20055   | WASHER              | 1   |            |                                                                |
| 26  | R56131   | SHAFT KEY           | 1   |            |                                                                |
| 27  | 12H317   | LOCK WASHER         | 1   |            | 9/16"                                                          |
| 28  | R78743   | NUT                 | 1   |            |                                                                |
| 29  | 14H785   | NUT                 | 3   |            | 5/16"                                                          |
| 30  | 12H303   | LOCK WASHER         | 3   |            | 5/16"                                                          |
| 31  | 24H1243  | WASHER              | 3   |            | 11/32" X 5/8" X 0.060"                                         |
| 32  | R77126   | GASKET              | 1   |            |                                                                |
| 33  | T23442   | STUD                | 3   |            |                                                                |
| 34  | R76964   | GEAR                | 1   |            | (48 TEETH)                                                     |
| 35  | RE15697  | FUEL INJECTION PUMP | 1   |            | WITH REGULAR GOVERNOR (ROTO-DIESEL NO. 3448F210)               |
|     | RE15699  | FUEL INJECTION PUMP | 1   |            | WITH 3 PERCENT - 5 PERCENT GOVERNOR (ROTO-DIESEL NO. 3448F160) |
| 36  | RE15699  | FUEL INJECTION PUMP | 1   |            |                                                                |

(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

FUEL INJECTION SYSTEM (4239T)  
 CODE 1602 AND 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR  
 CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR  
 (SERIAL NO. -410663)

TP8794



TP8794

THIS PARTS LISTING IS CONTINUED

OEM ENGINES AND ACCESSORIES - 4239D AND 4239T PC-3153 (02-SEP-83) LITHO IN U.S.A.

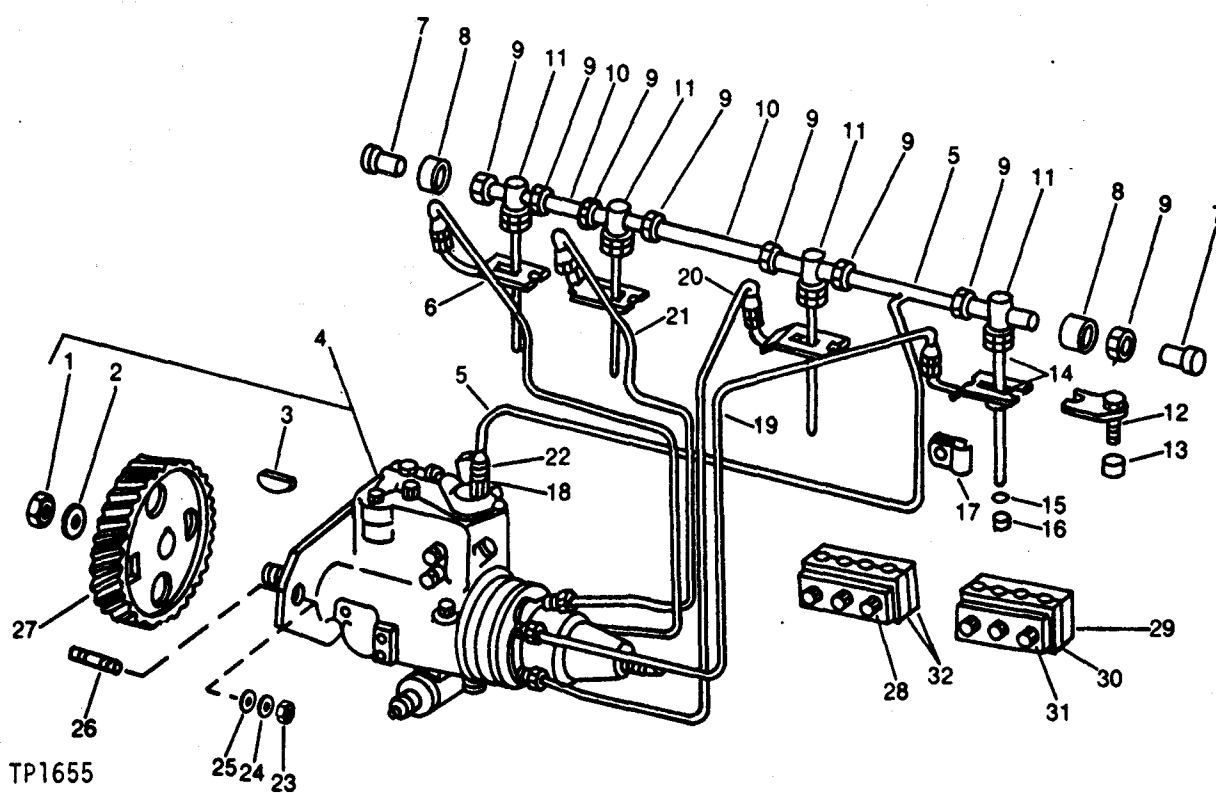
**FUEL INJECTION SYSTEM (4239T)-CONTINUED**  
**CODE 1602 AND 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. -410663)**

| KEY | PART NO. | PART NAME           | QTY | ENGINE<br>SERIAL NO. | REMARKS                                                                          |
|-----|----------|---------------------|-----|----------------------|----------------------------------------------------------------------------------|
| 1   | R56422   | NUT                 | 1   |                      |                                                                                  |
| 2   | R56423   | LOCK WASHER         | 1   |                      |                                                                                  |
| 3   | R56424   | SHAFT KEY           | 1   |                      |                                                                                  |
| 4   | AR87186  | FUEL INJECTION PUMP | 1   |                      | (ROOSA-MASTER NO. DM4427NW3262) (SUB FOR AR80325, ROOSA-MASTER NO. DM4427MD3051) |
|     | AR99951  | FUEL INJECTION PUMP | 1   |                      | (ROOSA-MASTER NO. DM4427HB3986) (SUB FOR AR80326, ROOSA-MASTER NO. DM4427HB3224) |
|     | AR87186  | FUEL INJECTION PUMP | 1   |                      | (ROOSA-MASTER NO. DM4427NW3262)                                                  |
| 5   | AR78062  | FUEL LINE           | 1   |                      |                                                                                  |
| 6   | AR75752  | FUEL LINE           | 1   |                      | NO. 1                                                                            |
| 7   | 16H246   | RIVET               | 2   |                      | 3/16" X 3/8"                                                                     |
| 8   | T13254   | CLAMP               | 2   |                      | (A)                                                                              |
|     | R48236   | PLATE               | 2   |                      | (A)                                                                              |
| 9   | .....    | HOSE                | 4   |                      | (MAKE FROM R68281, 1 524 MM (5') HOSE)                                           |
| 10  | .....    | HOSE                | 2   |                      | (MAKE FROM R68281, 1 524 MM (5') HOSE) (SUB FOR R27465 AND AT32064)              |
| 11  | AT27622  | CAP                 | 4   |                      |                                                                                  |
| 12  | R34760   | CLAMP               | 4   |                      |                                                                                  |
| 13  | R60745   | SPACER              | 4   |                      | (SUB FOR R34761)                                                                 |
| 14  | AR78031  | INJECTION NOZZLE    | 4   |                      | (A) (ROOSA-MASTER NO. 20941) (SUB AR90023)                                       |
|     | AR88241  | NOZZLE              | 4   |                      | (A) (ROOSA-MASTER NO. 22042) (SUB AR90023)                                       |
| 15  | R60746   | WASHER              | 4   |                      | (A) UPPER                                                                        |
| 16  | R48000   | WASHER              | 4   |                      | LOWER                                                                            |
| 17  | T29527   | CLIP                | 1   |                      | (A)                                                                              |
|     | T29969   | CLAMP               | 1   |                      | (A)                                                                              |
| 18  | AR61355  | CLAMP               | 1   |                      | (A) (SUB (3) AR76704, (2) R59299, R59300 AND R61146)                             |
|     | T23462   | CLAMP               | 1   |                      | (A) (SUB (3) AR76704, (2) R59299, R59300 AND R61146)                             |
|     | T23463   | STRAP               | 1   |                      | (A) (SUB (3) AR76704, (2) R59299, R59300 AND R61146)                             |
|     | 21H1317  | SCREW               | 3   |                      | (A) NO. 10 X 5/8"                                                                |
|     | 12H246   | LOCK WASHER         | 3   |                      | (A) NO. 10                                                                       |
| 19  | AR75755  | FUEL LINE           | 1   |                      | NO. 4                                                                            |
| 20  | AR75754  | FUEL LINE           | 1   |                      | NO. 3                                                                            |
| 21  | AR75753  | FUEL LINE           | 1   |                      | NO. 2                                                                            |
| 22  | R35352   | FITTING             | 1   |                      |                                                                                  |
| 23  | 14H785   | NUT                 | 3   |                      | 5/16"                                                                            |
| 24  | 12H303   | LOCK WASHER         | 3   |                      | 5/16"                                                                            |
| 25  | 24H1136  | WASHER              | 3   |                      | 11/32" X 11/16" X 0.060"                                                         |
| 26  | T23442   | STUD                | 3   |                      |                                                                                  |
| 27  | R56056   | GEAR                | 1   |                      | (48 TEETH)                                                                       |
| 28  | R61146   | STRAP               | 1   |                      |                                                                                  |
| 29  | R59299   | CLAMP               | 2   |                      |                                                                                  |
| 30  | R59300   | STRAP               | 1   |                      |                                                                                  |
| 31  | AR76704  | SCREW               | 1   |                      |                                                                                  |
| 32  | DD13913  | CLAMP               | 1   |                      | (A)                                                                              |

(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

CODE 1602 FUEL INJECTION SYSTEM (4239T)  
 FUEL INJECTION SYSTEM, REGULAR GOVERNOR  
 CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR  
 CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR  
 (SERIAL NO. 410664- )

TP1655



THIS PARTS LISTING IS CONTINUED

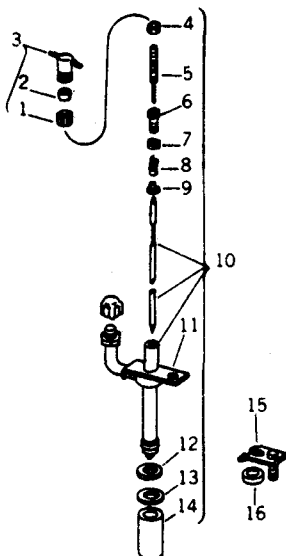
OEM ENGINES AND ACCESSORIES - 4239D AND 4239T PC-3153 (02-SEP-83) LITHO IN U.S.A.

**FUEL INJECTION SYSTEM (4239T)-CONTINUED**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**(SERIAL NO. 410664- )**

| KEY | PART NO. | PART NAME           | QTY | ENGINE<br>SERIAL NO. | REMARKS                                                                                                            |
|-----|----------|---------------------|-----|----------------------|--------------------------------------------------------------------------------------------------------------------|
| 1   | R56422   | NUT                 | 1   |                      |                                                                                                                    |
| 2   | R56423   | LOCK WASHER         | 1   |                      |                                                                                                                    |
| 3   | R56424   | SHAFT KEY           | 1   |                      |                                                                                                                    |
| 4   | AR87186  | FUEL INJECTION PUMP | 1   |                      | (ROOSA-MASTER NO. DM4427NW3262) (ROOSA-MASTER NO. DM4427MD3051) (SUB FOR AR80325)                                  |
|     | AR99951  | FUEL INJECTION PUMP | 1   |                      | WITH 3 PERCENT-5 PERCENT GOVERNOR                                                                                  |
|     | AR87186  | FUEL INJECTION PUMP | 1   |                      | (ROOSA-MASTER NO. DM4427HBX3986) (SUB FOR AR80326) (ROOSA-MASTER NO. DM4427HB3224) (ROOSA-MASTER NO. DM4427NW3262) |
| 5   | AR89852  | TUBE                | 1   |                      |                                                                                                                    |
| 6   | AR75752  | FUEL LINE           | 1   |                      | FUEL INJECTION, NO. 1                                                                                              |
| 7   | 16M2605  | RIVET               | 2   |                      | 6 X 20MM                                                                                                           |
| 8   | R51936   | WASHER              | 8   |                      |                                                                                                                    |
| 9   | R51937   | FITTING             | 8   |                      |                                                                                                                    |
| 10  | R66090   | SLEEVE              | 2   |                      |                                                                                                                    |
| 11  | AR85618  | CAP                 | 4   |                      |                                                                                                                    |
| 12  | R34760   | CLAMP               | 4   |                      |                                                                                                                    |
| 13  | R60745   | SPACER              | 4   |                      |                                                                                                                    |
| 14  | AR90023  | INJECTION NOZZLE    | 4   |                      | (ROOSA-MASTER NO. 22265)                                                                                           |
| 15  | R60746   | WASHER              | 4   |                      | UPPER                                                                                                              |
| 16  | R48000   | WASHER              | 4   |                      | LOWER                                                                                                              |
| 17  | T29969   | CLAMP               | 2   |                      |                                                                                                                    |
| 18  | R36535   | CHECK VALVE         | 1   |                      |                                                                                                                    |
| 19  | AR75755  | FUEL LINE           | 1   |                      | FUEL INJECTION, NO. 4                                                                                              |
| 20  | AR75754  | FUEL LINE           | 1   |                      | FUEL INJECTION, NO. 3                                                                                              |
| 21  | AR75753  | FUEL LINE           | 1   |                      | FUEL INJECTION, NO. 2                                                                                              |
| 22  | R35352   | FITTING             | 1   |                      |                                                                                                                    |
| 23  | 14H785   | NUT                 | 3   |                      | 5/16"                                                                                                              |
| 24  | 12H303   | LOCK WASHER         | 3   |                      | 5/16"                                                                                                              |
| 25  | 24H1136  | WASHER              | 3   |                      | 11/32" X 11/16" X 0.060"                                                                                           |
| 26  | T23442   | STUD                | 3   |                      |                                                                                                                    |
| 27  | R56056   | GEAR                | 1   |                      | (48 TEETH)                                                                                                         |
| 28  | .....    | CAP SCREW           | 1   |                      |                                                                                                                    |
|     | .....    | WASHER              | 1   |                      |                                                                                                                    |
| 29  | T23463   | STRAP               | 1   |                      | (SUB R59300, R61146, (2) R59299 AND (3) AR76704)                                                                   |
|     | R59299   | CLAMP               | 1   |                      |                                                                                                                    |
|     | R61146   | STRAP               | 1   |                      |                                                                                                                    |
| 30  | T23462   | CLAMP               | 1   |                      | (SUB R59300, R61146, (2) R59299 AND (3) AR76704)                                                                   |
|     | R59299   | CLAMP               | 1   |                      |                                                                                                                    |
|     | R59300   | STRAP               | 1   |                      |                                                                                                                    |
| 31  | AR76704  | SCREW               | 3   |                      |                                                                                                                    |
| 32  | DD13913  | CLAMP               | 1   |                      | WITH HARDWARE                                                                                                      |

**FUEL INJECTION NOZZLE ASSEMBLY**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. -410663)**

T35028



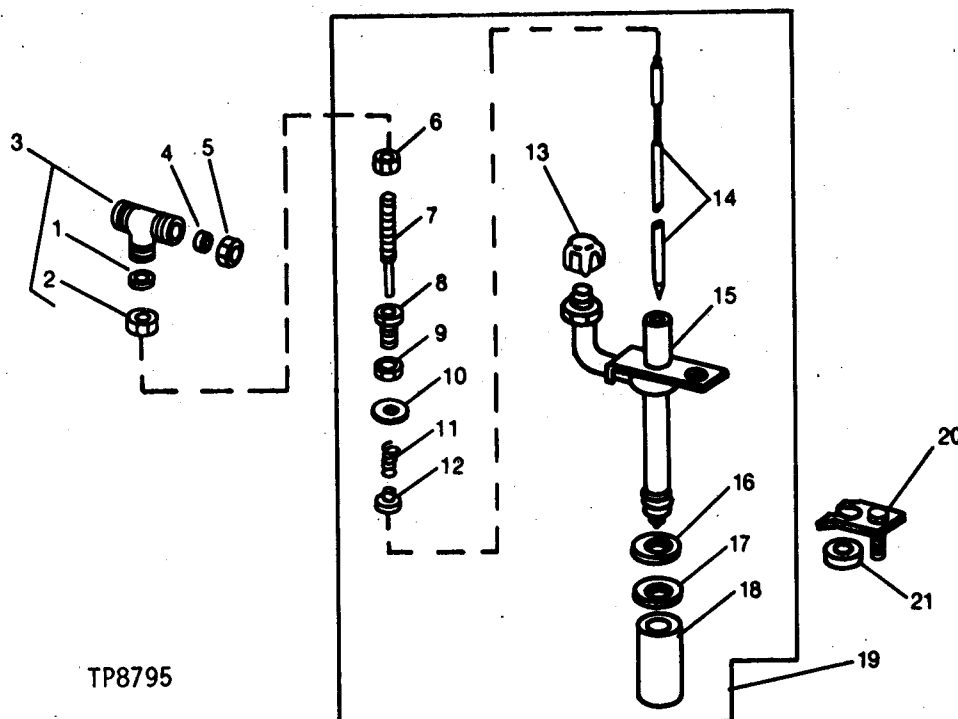
T35028

| KEY | PART NO. | PART NAME        | QTY | SERIAL NO.                                 | REMARKS                                                       |
|-----|----------|------------------|-----|--------------------------------------------|---------------------------------------------------------------|
| 1   | T29540   | FITTING          | 1   |                                            |                                                               |
| 2   | T29539   | WASHER           | 1   |                                            |                                                               |
| 3   | AT27622  | CAP              | 1   |                                            |                                                               |
| 4   | R47733   | LOCK NUT         | 1   | (A)                                        |                                                               |
| 5   | R47732   | SCREW            | 1   | (A)                                        |                                                               |
| 6   | R47734   | SCREW            | 1   | (A)                                        |                                                               |
| 7   | R46675   | NUT              | 1   | (A)                                        |                                                               |
| 8   | R47731   | SPRING           | 1   | (A)                                        |                                                               |
| 9   | R39886   | GUIDE            | 1   | (A)                                        |                                                               |
| 10  | AR88241  | NOZZLE           | 4   |                                            | (A) (ROOSA-MASTER NO. 22044) (4239T) (SUB AR90023)            |
|     | AR78031  | INJECTION NOZZLE | 4   |                                            | (A) (ROOSA-MASTER NO. 20941) (4239T) (SUB AR90023)            |
|     | AR73673  | INJECTION NOZZLE | 4   |                                            | (A) (ROOSA-MASTER NO. 20631) (4239D) (SUB AR89563 OR AR89564) |
|     | AR88239  | INJECTION NOZZLE | 4   |                                            | (A) (ROOSA-MASTER NO. 22042) (4239D) (SUB AR89563 OR AR89564) |
| 11  | R67779   | CLAMP            | 1   |                                            |                                                               |
| 12  | R60746   | WASHER           | 1   | (A) UPPER                                  |                                                               |
| 13  | R48000   | WASHER           | 1   | (A) LOWER                                  |                                                               |
| 14  | T24472   | PLUG             | 1   |                                            |                                                               |
| 15  | R34760   | CLAMP            | 1   |                                            |                                                               |
| 16  | R60745   | SPACER           | 1   | (A) (SUB FOR R34761)                       |                                                               |
| 17  | T31174   | PLUG             | 1   | (USED FOR SERVICING FUEL INJECTION NOZZLE) |                                                               |

(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

**FUEL INJECTION NOZZLE ASSEMBLY**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. 410664- )**

TP8795



| KEY | PART NO. | PART NAME        | QTY | ENGINE<br>SERIAL NO. | REMARKS                                        |
|-----|----------|------------------|-----|----------------------|------------------------------------------------|
| 1   | T29539   | WASHER           | 1   |                      |                                                |
| 2   | T29540   | FITTING          | 1   |                      |                                                |
| 3   | AR85618  | CAP              | 1   |                      |                                                |
| 4   | R51936   | WASHER           | 1   |                      |                                                |
| 5   | R51937   | FITTING          | 1   |                      |                                                |
| 6   | R47733   | LOCK NUT         | 1   |                      | (A)                                            |
| 7   | R69443   | SCREW            | 1   |                      | (A)                                            |
| 8   | R62984   | SCREW            | 1   |                      | (A)                                            |
| 9   | R46675   | NUT              | 1   |                      | (A)                                            |
| 10  | R62891   | HOSE             | AR  |                      | (A)                                            |
| 11  | R69442   | SPRING           | 1   |                      | (A)                                            |
| 12  | R62982   | GUIDE            | 1   |                      | (A)                                            |
| 13  | T31174   | PLUG             | 1   |                      | (A) (USED FOR SERVICING FUEL INJECTION NOZZLE) |
| 14  | .....    | VALVE            | 1   |                      | (A) (SUB AR89563, AR89564, AR90023 OR AR90024) |
| 15  | R67779   | CLAMP            | 1   |                      | (A)                                            |
| 16  | R34764   | WASHER           | 1   | -XXXXXX              | NOZZLE, UPPER (SUB RE13887, THIS APPLICATION)  |
|     | R60746   | WASHER           | 1   | XXXXXX-              | (K)                                            |
| 17  | R48000   | WASHER           | 1   |                      | NOZZLE, LOWER                                  |
| 18  | T24472   | PLUG             | 1   |                      |                                                |
| 19  | AR89563  | INJECTION NOZZLE | 4   |                      | (A) (ROOSA-MASTER NO. 22203) (4239D)           |
|     | AR89564  | INJECTION NOZZLE | 4   |                      | (A) (ROOSA-MASTER NO. 22203) (4239D)           |
|     | AR90023  | INJECTION NOZZLE | 4   |                      | (A) (ROOSA-MASTER NO. 22265) (4239T)           |
|     | AR90024  | INJECTION NOZZLE | 4   |                      | (A) (ROOSA-MASTER NO. 22265) (4239T)           |
| 20  | R34760   | CLAMP            | 1   |                      |                                                |
| 21  | R34761   | SPACER           | 1   | -XXXXXX              | (SUB RE13887, THIS APPLICATION)                |
|     | R60745   | SPACER           | 1   | XXXXXX-              | (K)                                            |

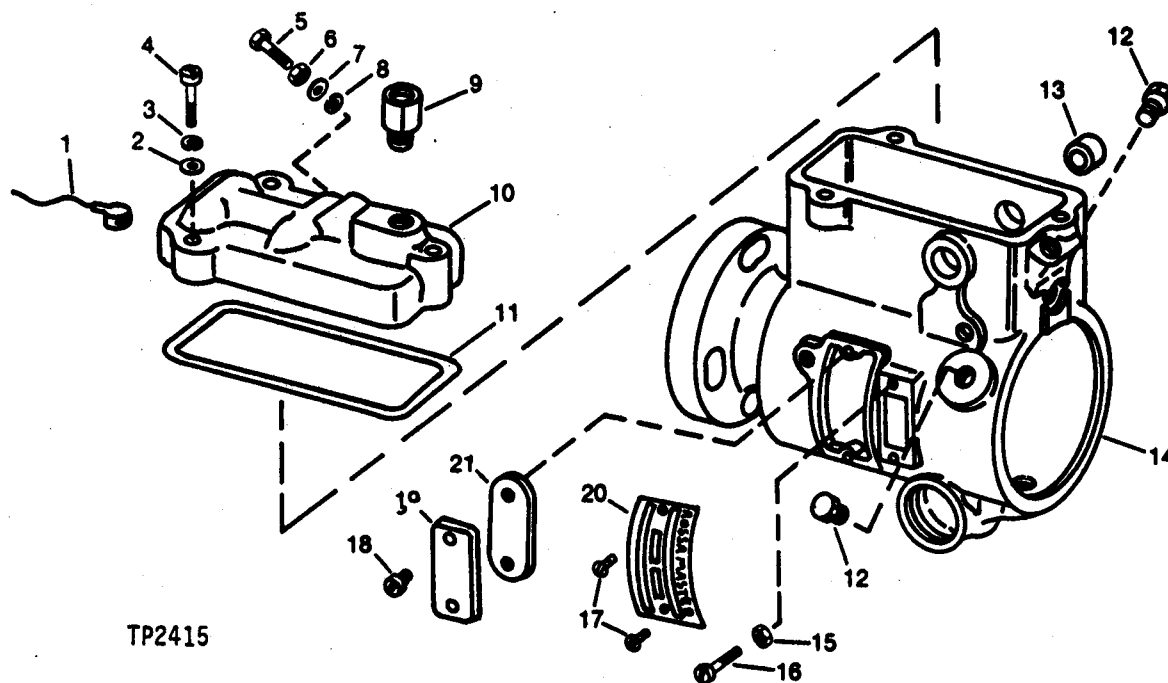
(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

(K) KIT RE13887

MEMORANDA

**FUEL INJECTION PUMP HOUSING (4239D)**  
**(ROOSA-MASTER NO. JDB435MD3053)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**(SERIAL NO. -575617)**

TP2415



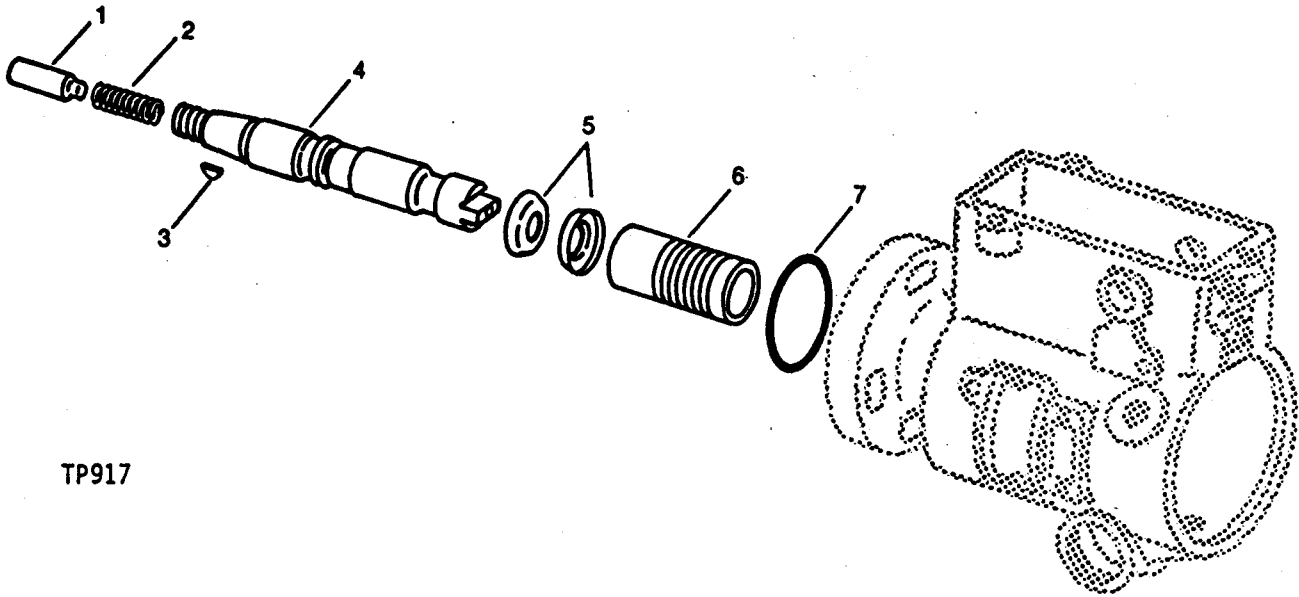
TP2415

| KEY | PART NO. | PART NAME           | QTY | SERIAL NO. | REMARKS                |
|-----|----------|---------------------|-----|------------|------------------------|
| 1   | T11877   | WIRE                | 4   | (K)        |                        |
| 2   | T15715   | WASHER              | 3   |            |                        |
| 3   | 12H295   | LOCK WASHER         | 3   |            | INTERNAL-TOOTH, NO. 10 |
| 4   | T15721   | SCREW               | 3   |            |                        |
| 5   | T17953   | CAP SCREW           | 1   |            |                        |
| 6   | T11921   | NUT                 | 1   |            |                        |
| 7   | T17947   | WASHER              | 1   |            |                        |
| 8   | T17951   | O-RING              | 1   | (K)        |                        |
| 9   | R36535   | CHECK VALVE         | 1   |            |                        |
| 10  | R37139   | COVER               | 1   |            |                        |
| 11  | T11918   | WASHER              | 1   | (K)        |                        |
| 12  | R30714   | BOLT                | 2   |            |                        |
| 13  | R48493   | BUSHING             | 2   |            |                        |
| 14  | AR67675  | HOUSING             | 1   |            |                        |
| 15  | T11878   | WASHER              | 1   | (K)        |                        |
| 16  | T11930   | SCREW               | 1   |            |                        |
| 17  | T11876   | SCREW               | 2   |            |                        |
| 18  | T11884   | SCREW               | 2   |            |                        |
| 19  | T11882   | STRAP               | 1   |            |                        |
| 20  | T11875   | SERIAL NUMBER PLATE | 1   |            |                        |
| 21  | T11883   | GASKET              | 1   | (K)        |                        |

(K) KIT AR36412

FUEL INJECTION PUMP DRIVE GROUP (4239D)  
(ROOSA-MASTER NO. JDB435MD3053)  
CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR  
(SERIAL NO. -575617)

TP917



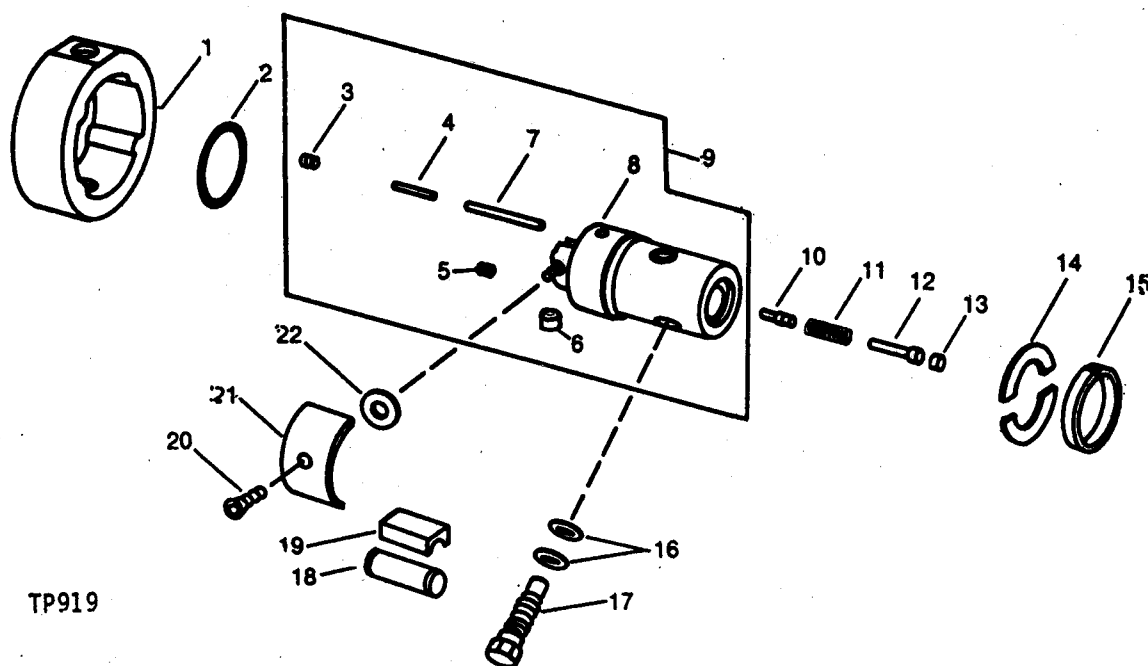
TP917

| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS      |
|-----|----------|-------------|-----|------------|--------------|
| 1   | T19855   | PIN         | 1   |            |              |
| 2   | R36540   | SPRING      | 1   |            |              |
| 3   | 26H10    | SHAFT KEY   | 1   |            | 5/32" X 5/8" |
| 4   | R36538   | DRIVE SHAFT | 1   |            |              |
| 5   | T11290   | SEAL        | 2   |            | (K)          |
| 6   | T19865   | BUSHING     | 1   |            |              |
| 7   | T19854   | O-RING      | 1   |            | (K)          |

(K) KIT AR34612

**FUEL INJECTION PUMP HEAD AND ROTOR GROUP (4239D)**  
**(ROOSA-MASTER NO. JDB435MD3053)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**(SERIAL NO. -575617)**

TP919



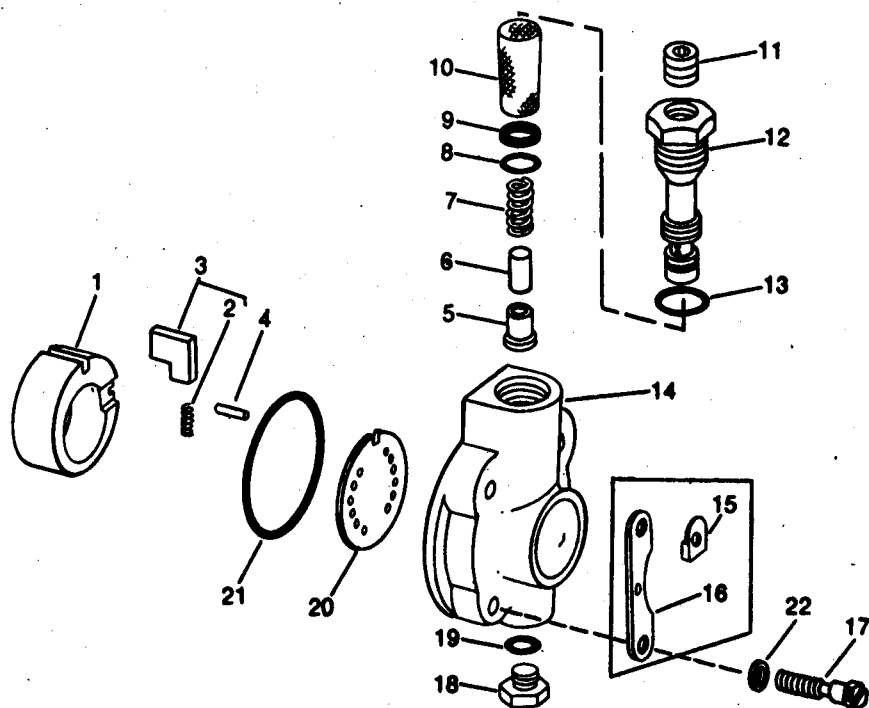
| KEY | PART NO. | PART NAME                 | QTY | SERIAL NO. | REMARKS         |
|-----|----------|---------------------------|-----|------------|-----------------|
| 1   | R48501   | RING                      | 1   |            |                 |
| 2   | T11891   | O-RING                    | 1   |            | (K)             |
| 3   | R30725   | SET SCREW                 | 2   |            |                 |
| 4   | R30726   | DOWEL PIN                 | 1   |            |                 |
|     | R49346   | DOWEL PIN                 | 1   |            | (COLORED BLACK) |
| 5   | T11926   | SET SCREW                 | 1   |            |                 |
| 6   | T32238   | PLUNGER                   | 2   |            | (PLUNGER A)     |
|     | T32239   | PLUNGER                   | 2   |            | (PLUNGER B)     |
|     | T32240   | PLUNGER                   | 2   |            | (PLUNGER C)     |
|     | T32241   | PLUNGER                   | 2   |            | (PLUNGER D)     |
| 7   | R30727   | RETAINER                  | 1   |            |                 |
| 8   | .....    | HOUSING                   | 1   |            | (SUB AR52229)   |
| 9   | AR52229  | HYDRAULIC HEAD, AND ROTOR | 1   |            |                 |
| 10  | T19856   | VALVE                     | 1   |            | DELIVERY        |
|     | T19857   | VALVE                     | 1   |            | (OVERSIZE)      |
| 11  | R30735   | SPRING                    | 1   |            |                 |
| 12  | T26223   | STOP                      | 1   |            | (K)             |
| 13  | R30737   | SCREW                     | 1   |            |                 |
| 14  | T11890   | RETAINER                  | 2   |            |                 |
| 15  | T11889   | SNAP RING                 | 1   |            |                 |
| 16  | T20055   | WASHER                    | 12  |            | (K)             |
| 17  | R26726   | FITTING                   | 6   |            |                 |
| 18  | T11886   | NEEDLE ROLLER             | 2   |            |                 |
| 19  | R56483   | SHOE                      | 2   |            |                 |
| 20  | T11887   | SCREW                     | 1   |            |                 |
| 21  | T11888   | LEAF SPRING               | 1   |            |                 |
| 22  | T31124   | SHIM                      | 1   |            | 0.13 MM (.005") |
|     | T31125   | SHIM                      | 1   |            | 0.16 MM (.006") |
|     | T31126   | SHIM                      | 1   |            | 0.18 MM (.007") |
|     | T31127   | SHIM                      | 1   |            | 0.20 MM (.008") |
|     | T31128   | SHIM                      | 1   |            | 0.23 MM (.009") |

(K) KIT AR34612

**FUEL INJECTION PUMP TRANSFER GROUP (4239D)**  
**(ROOSA-MASTER NO. JDB435MD3053)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**(SERIAL NO. -575617)**

TP7694

TP7694

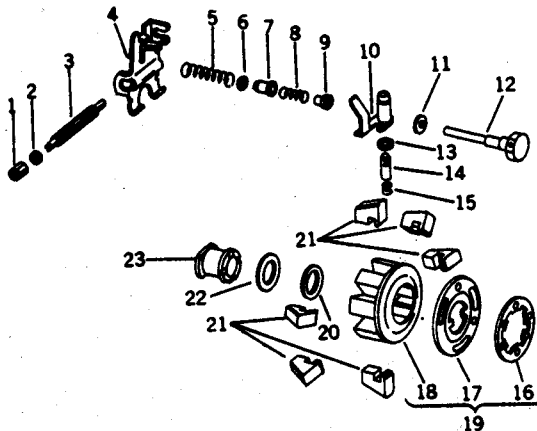


| KEY | PART NO. | PART NAME  | QTY | SERIAL NO. | REMARKS                                     |
|-----|----------|------------|-----|------------|---------------------------------------------|
| 1   | T26238   | SLEEVE     | 1   |            |                                             |
| 2   | R34630   | SPRING     | 2   |            |                                             |
| 3   | AR73828  | KIT        | 1   |            | BLADE TRANSFER PUMP WITH SPRINGS (STANDARD) |
|     | AR73829  | KIT        | 1   |            | (ALSO ORDER AR73829)                        |
| 4   | 34H240   | SPRING PIN | 1   |            | BLADE TRANSFER PUMP WITH SPRINGS (OVERSIZE) |
| 5   | T25142   | SEAL       | 1   |            | 1/8" X 1/4"                                 |
| 6   | T11900   | DOWEL PIN  | 1   |            | (K)                                         |
| 7   | R49209   | SPRING     | 1   |            | (COLORED BLACK AND BLACK)                   |
| 8   | T11899   | O-RING     | 1   |            | (K)                                         |
| 9   | R34632   | WASHER     | 1   |            | (K)                                         |
| 10  | R34625   | STRAINER   | 1   |            |                                             |
| 11  | R34623   | PLUG       | 1   |            |                                             |
| 12  | R34622   | SLEEVE     | 1   |            |                                             |
| 13  | R33259   | O-RING     | 1   |            | (K)                                         |
| 14  | R34624   | PLATE      | 1   |            |                                             |
| 15  | R48496   | CLIP       | 4   |            |                                             |
| 16  | R48497   | STRAP      | 2   |            |                                             |
| 17  | R48498   | BOLT       | 4   |            |                                             |
| 18  | T30607   | DRAIN PLUG | 1   |            |                                             |
| 19  | T26256   | O-RING     | 1   |            | (K)                                         |
| 20  | R34631   | PLATE      | 1   |            |                                             |
| 21  | T11894   | O-RING     | 1   |            | (K)                                         |
| 22  | T15715   | WASHER     | 4   |            |                                             |

(K) KIT AR34612

**FUEL INJECTION PUMP GOVERNOR GROUP (4239D)**  
**(ROOSA-MASTER NO. JDB435MD3053)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**(SERIAL NO. -575617)**

T20274



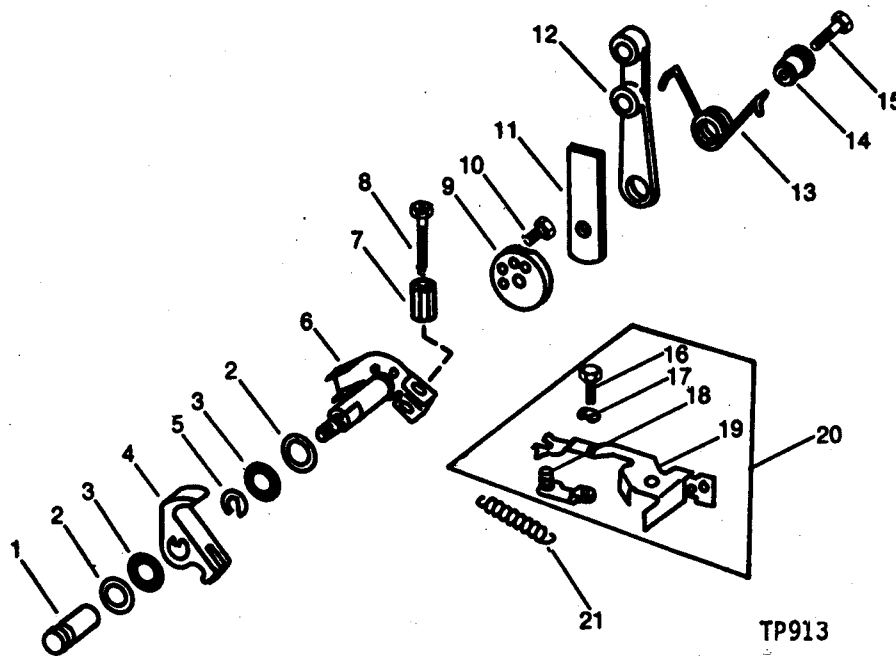
T 20274

| KEY | PART NO. | PART NAME | QTY | SERIAL NO. | REMARKS                 |
|-----|----------|-----------|-----|------------|-------------------------|
| 1   | T11932   | NUT       | 2   |            |                         |
| 2   | R34812   | O-RING    | 2   |            | (K)                     |
| 3   | T11925   | SHAFT     | 1   |            |                         |
| 4   | T16602   | ARM       | 1   |            |                         |
| 5   | T11953   | SPRING    | 1   |            | (COLORED RED AND GREEN) |
| 6   | T17952   | WASHER    | 1   |            |                         |
| 7   | T11924   | RETAINER  | 1   |            |                         |
| 8   | T11913   | SPRING    | 1   |            |                         |
| 9   | T11914   | GUIDE     | 1   |            |                         |
| 10  | AR30736  | ARM       | 1   |            |                         |
| 11  | T11943   | WASHER    | 1   |            | (K)                     |
| 12  | T11923   | STUD      | 1   |            |                         |
| 13  | R30732   | SHIM      | 1   |            |                         |
| 14  | AR91548  | KIT       | 1   |            | METERING VALVE          |
| 15  | R58422   | SPRING    | 1   |            |                         |
| 16  | R42483   | RING      | 1   |            | (K)                     |
| 17  | AR63213  | HUB       | 1   |            |                         |
| 18  | AR63212  | RETAINER  | 1   |            |                         |
| 19  | AR84890  | RETAINER  | 1   |            |                         |
| 20  | T11931   | RING      | 1   |            |                         |
| 21  | T11910   | WEIGHT    | 6   |            |                         |
| 22  | T11909   | WASHER    | 1   |            |                         |
| 23  | T16601   | SLEEVE    | 1   |            |                         |

(K) KIT AR34612

**FUEL INJECTION PUMP LINKAGE GROUP (4239D)**  
**(ROOSA-MASTER NO. JDB435MD3053)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**(SERIAL NO. -575617)**

TP913

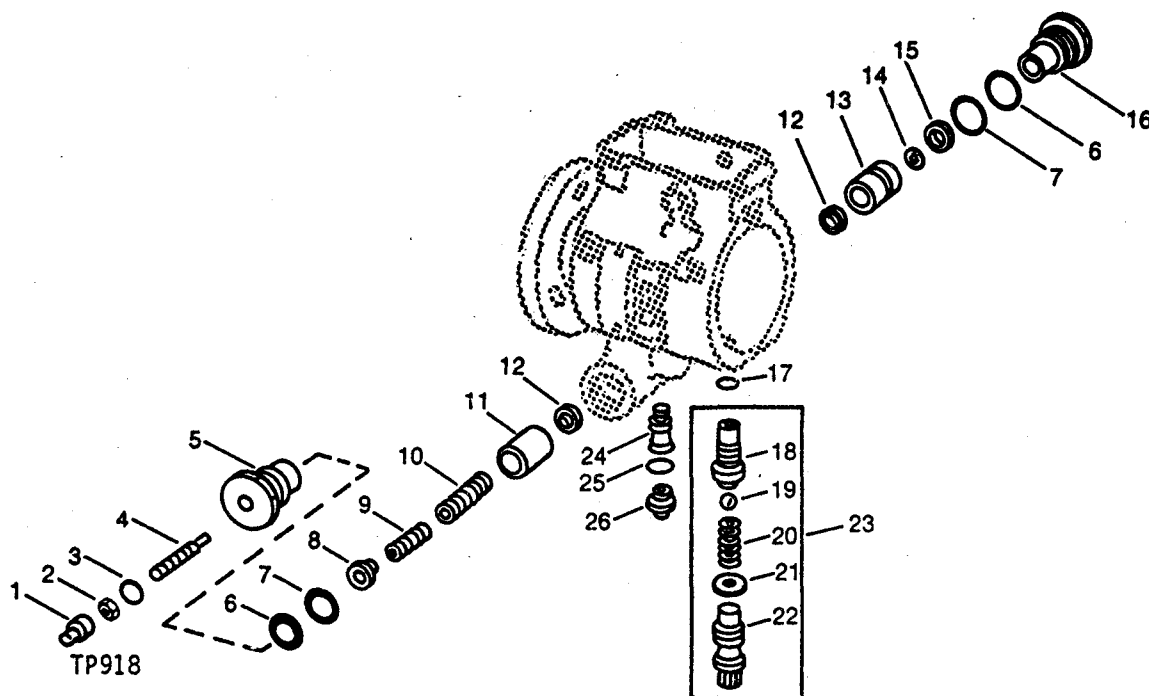


| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS                                |
|-----|----------|-------------|-----|------------|----------------------------------------|
| 1   | R59079   | SHAFT       | 1   |            |                                        |
| 2   | T15720   | WASHER      | 2   |            | (K)                                    |
| 3   | R76578   | O-RING      | 2   |            | (K) (SUB FOR T11915, THIS APPLICATION) |
| 4   | T11927   | LEVER       | 1   |            |                                        |
| 5   | T11929   | CLIP        | 1   |            |                                        |
| 6   | R36542   | SHAFT       | 1   |            |                                        |
| 7   | T19862   | NUT         | 1   |            |                                        |
| 8   | T11920   | SCREW       | 1   |            | HIGH IDLE                              |
| 9   | T19861   | SPACER      | 1   |            |                                        |
| 10  | T11917   | SCREW       | 1   |            |                                        |
| 11  | T19860   | STRAP       | 1   |            |                                        |
| 12  | T19858   | LEVER       | 1   |            |                                        |
| 13  | T17949   | SPRING      | 1   |            |                                        |
| 14  | T17950   | RETAINER    | 1   |            |                                        |
| 15  | T19859   | SCREW       | 1   |            |                                        |
| 16  | T11920   | SCREW       | 1   |            |                                        |
| 17  | R30719   | LOCK WASHER | 1   |            |                                        |
| 18  | AR28602  | LINK        | 1   |            |                                        |
| 19  | T15699   | HOOK        | 1   |            |                                        |
| 20  | AT11520  | HOOK        | 1   |            |                                        |
| 21  | T11911   | SPRING      | 1   |            |                                        |

(K) KIT AR34612

**FUEL INJECTION PUMP AUTOMATIC ADVANCE (4239D)**  
**(ROOSA-MASTER NO. JDB435MD3053)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**(SERIAL NO. -575617)**

TP918

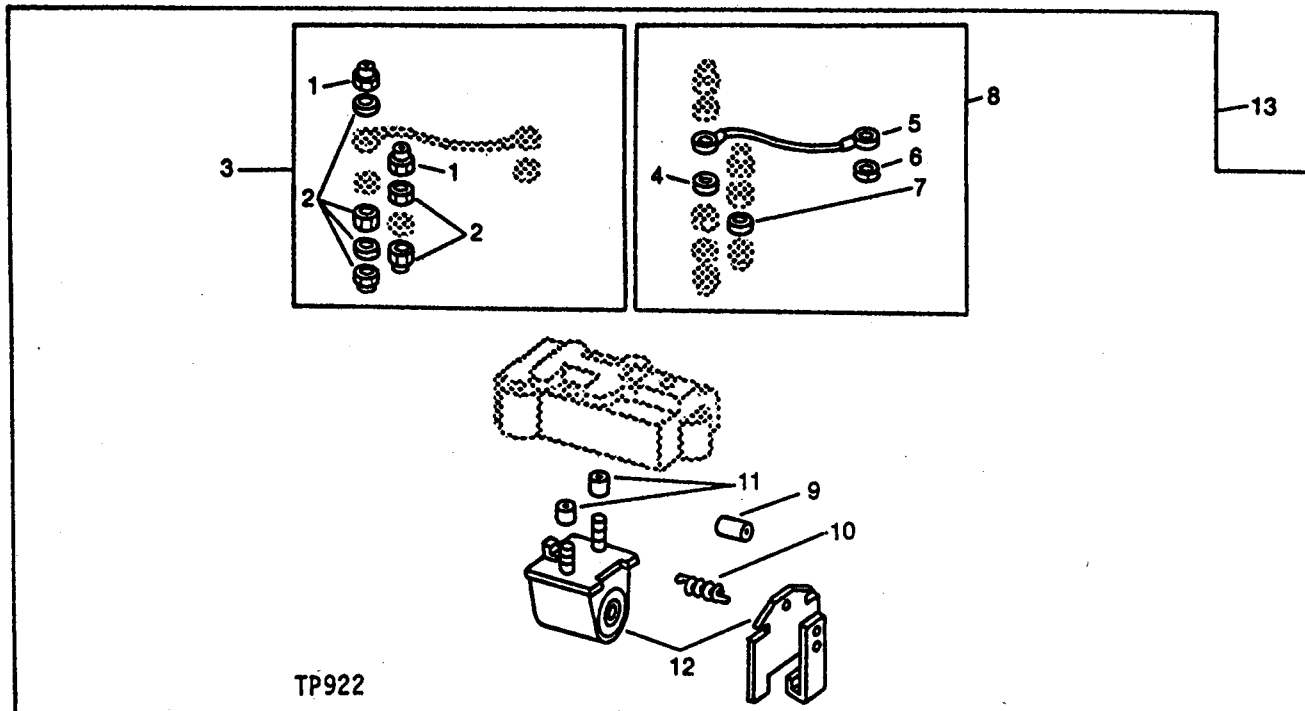


| KEY | PART NO. | PART NAME | QTY | SERIAL NO. | REMARKS                            |
|-----|----------|-----------|-----|------------|------------------------------------|
| 1   | T17117   | CAP       | 1   |            |                                    |
| 2   | T17122   | NUT       | 1   |            |                                    |
| 3   | T11915   | O-RING    | 1   |            | (K)                                |
| 4   | T17123   | SET SCREW | 1   |            |                                    |
| 5   | T17126   | PLUG      | 1   |            |                                    |
| 6   | R56396   | O-RING    | 2   |            | (K)                                |
| 7   | T15710   | O-RING    | 2   |            | (K)                                |
| 8   | T17125   | GUIDE     | 1   |            |                                    |
| 9   | R48607   | SPRING    | 1   |            | INNER (COLORED BLACK AND GREEN)    |
| 10  | R48606   | SPRING    | 1   |            | (COLORED RED AND YELLOW) OUTER     |
| 11  | T18529   | PISTON    | 1   |            |                                    |
| 12  | T15705   | WASHER    | 2   |            |                                    |
| 13  | R34824   | PISTON    | 1   |            |                                    |
| 14  | R34635   | WASHER    | 1   |            | (K)                                |
| 15  | R49211   | WASHER    | 1   |            |                                    |
| 16  | R74310   | PLUG      | 1   |            | (SUB FOR R49212)                   |
| 17  | T11899   | O-RING    | 2   |            | (K)                                |
| 18  | R48604   | PLUG      | 1   |            | (SUB AR51712)                      |
| 19  | T17137   | BALL      | 1   |            | (SUB AR51712)                      |
| 20  | R48601   | SPRING    | 1   |            | (SUB AR51712)                      |
| 21  | R48603   | WASHER    | 1   |            | (SUB AR51712)                      |
| 22  | R48602   | SCREW     | 1   |            | (SUB AR51712)                      |
| 23  | AR51712  | SCREW     | 1   |            |                                    |
| 24  | R36646   | SCREW     | 1   |            |                                    |
| 25  | T15712   | O-RING    | 1   |            | (K)                                |
| 26  | R40707   | PLUG      | 1   |            | (SUB FOR T15711, THIS APPLICATION) |

(K) KIT AR34612

**FUEL INJECTION PUMP ELECTRIC SHUT-OFF KIT (4239D)**  
**(ROOSA-MASTER NO. JDB435MD3053)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**(SERIAL NO. -575617)**

TP922

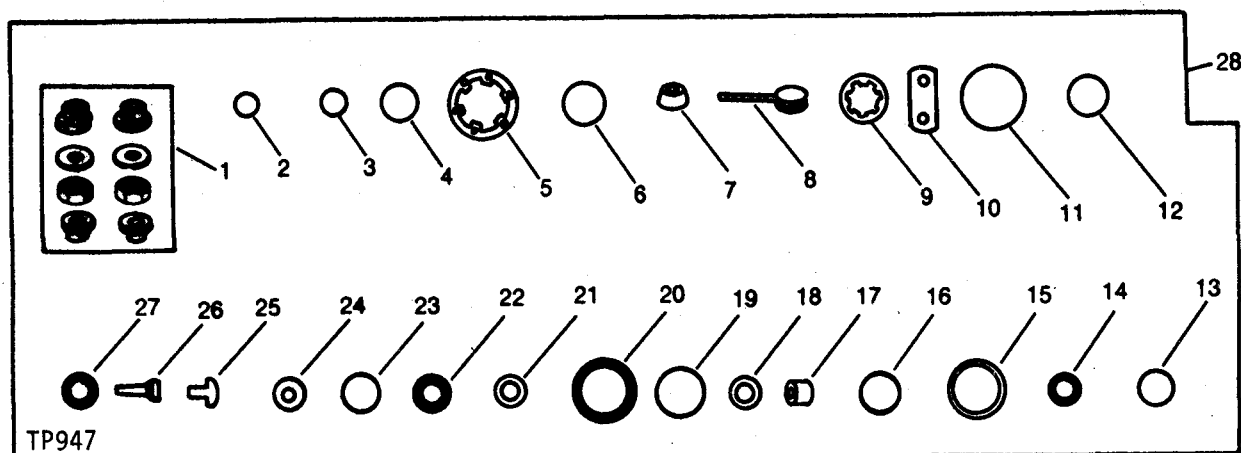


| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS            |
|-----|----------|-------------|-----|------------|--------------------|
| 1   | T19977   | LOCK NUT    | 2   |            |                    |
| 2   | .....    | NUT         | 1   |            | (SUB AR90601)      |
| 3   | AR90601  | KIT         | 1   |            | (K) NUT AND WASHER |
| 4   | R47077   | LOCK WASHER | 1   |            |                    |
| 5   | .....    | STRAP       | 1   |            | (SUB AR50874)      |
| 6   | 12H295   | LOCK WASHER | 1   |            | NO. 10             |
| 7   | .....    | WASHER      | 1   |            | (SUB AR50874)      |
| 8   | AR50874  | KIT         | 1   |            | GROUNDING STRAP    |
| 9   | R48795   | SLEEVE      | 1   |            |                    |
| 10  | T11935   | SPRING      | 1   |            |                    |
| 11  | T11937   | INSULATOR   | 2   |            | (K)                |
| 12  | .....    | HOUSING     | 1   |            | (SUB AR90340)      |
| 13  | AR90340  | KIT         | 1   |            | SHUT-OFF           |

(K) KIT AR34612

**FUEL INJECTION PUMP OVERHAUL GASKET KIT (4239D)**  
**(ROOSA-MASTER NO. JDB435MD3053)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**  
**(SERIAL NO. -575617)**

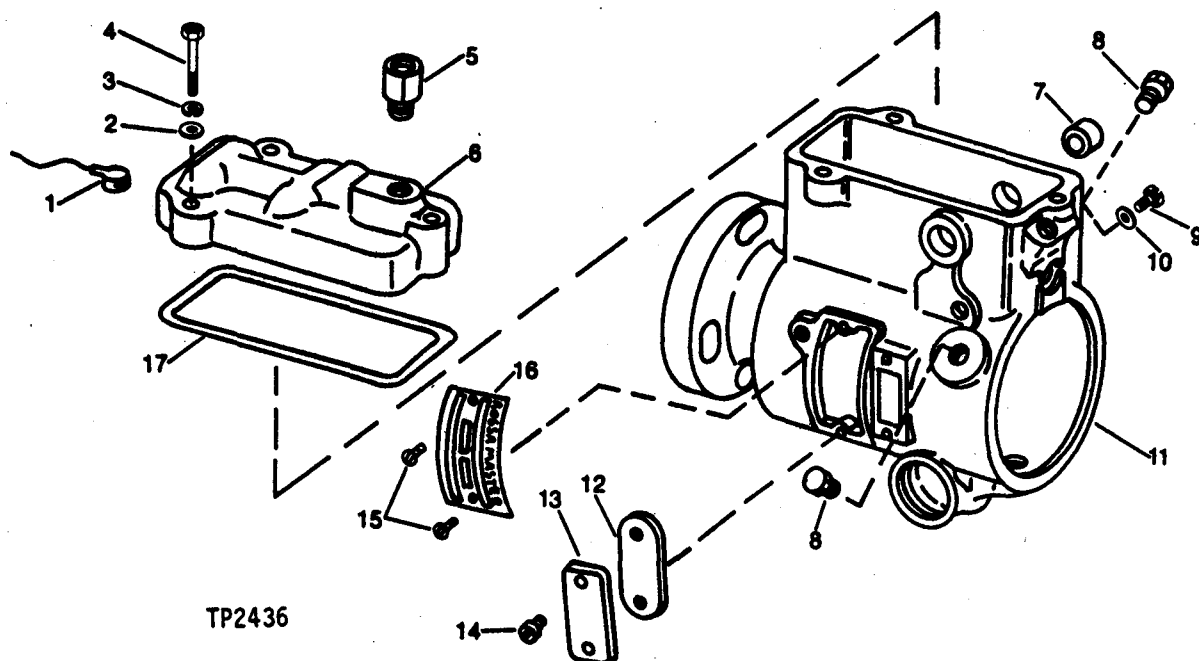
TP947



| KEY | PART NO. | PART NAME  | QTY | SERIAL NO. | REMARKS                            |
|-----|----------|------------|-----|------------|------------------------------------|
| 1   | AR90601  | KIT        | 1   |            | NUT AND WASHER                     |
| 2   | R34632   | WASHER     | 1   |            |                                    |
| 3   | R34635   | WASHER     | 1   |            |                                    |
| 4   | R34812   | O-RING     | 2   |            |                                    |
| 5   | R42483   | RING       | 1   |            |                                    |
| 6   | R56396   | O-RING     | 2   |            |                                    |
| 7   | T11290   | SEAL       | 2   |            |                                    |
| 8   | T11877   | WIRE       | 4   |            |                                    |
| 9   | T11878   | WASHER     | 1   |            |                                    |
| 10  | T11883   | GASKET     | 1   |            |                                    |
| 11  | T11891   | O-RING     | 1   |            |                                    |
| 12  | T11894   | O-RING     | 1   |            |                                    |
| 13  | T11899   | O-RING     | 3   |            |                                    |
| 14  | R76578   | O-RING     | 3   |            | (SUB FOR T11915, THIS APPLICATION) |
| 15  | T11918   | WASHER     | 1   |            |                                    |
| 16  | R33259   | O-RING     | 1   |            |                                    |
| 17  | T11937   | INSULATOR  | 2   |            |                                    |
| 18  | T11943   | WASHER     | 1   |            |                                    |
| 19  | T15710   | O-RING     | 2   |            |                                    |
| 20  | T15712   | O-RING     | 1   |            |                                    |
| 21  | T15720   | WASHER     | 2   |            |                                    |
| 22  | T17951   | O-RING     | 1   |            |                                    |
| 23  | T19854   | O-RING     | 1   |            |                                    |
| 24  | T20055   | WASHER     | 12  |            |                                    |
| 25  | T25142   | SEAL       | 1   |            |                                    |
| 26  | T26223   | STOP       | 1   |            |                                    |
| 27  | T26256   | O-RING     | 1   |            |                                    |
| 28  | AR34612  | GASKET KIT | 1   |            |                                    |

**FUEL INJECTION PUMP HOUSING (4239D)**  
**(ROOSA-MASTER NO. JDB435CM3223)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. -575617)**

TP2436



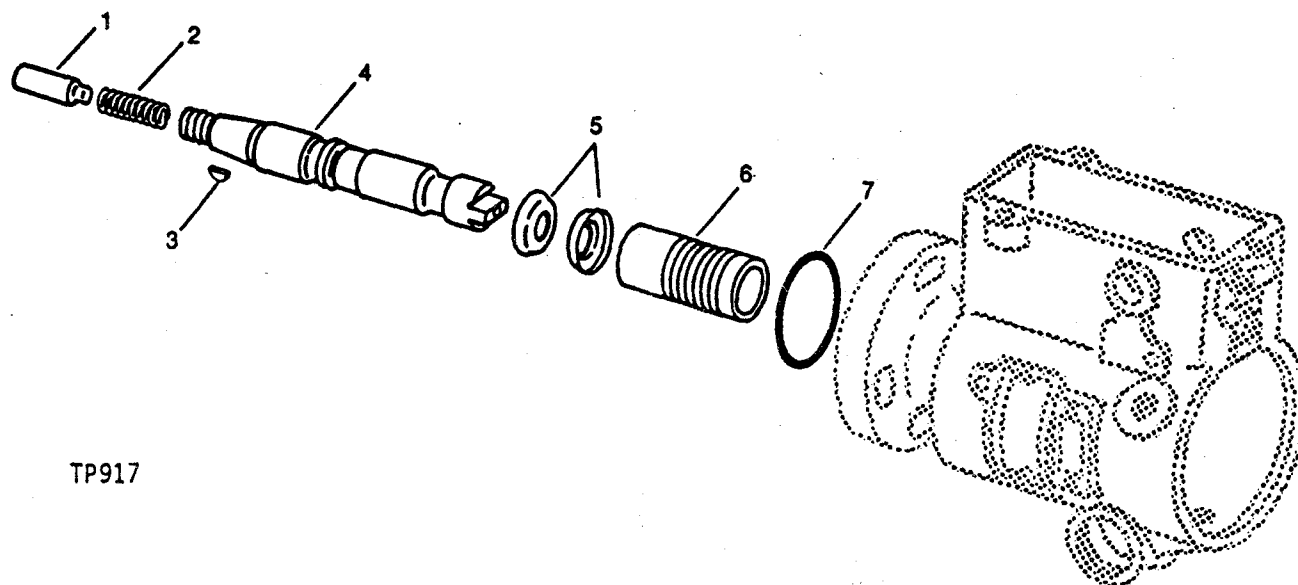
TP2436

| KEY | PART NO. | PART NAME           | QTY | SERIAL NO.                          | REMARKS |
|-----|----------|---------------------|-----|-------------------------------------|---------|
| 1   | T11877   | WIRE                | 4   | (K)                                 |         |
| 2   | T15715   | WASHER              | 3   |                                     |         |
| 3   | 12H295   | LOCK WASHER         | 3   | NO. 10                              |         |
| 4   | T15721   | SCREW               | 1   |                                     |         |
|     | R71851   | SCREW               | 2   |                                     |         |
| 5   | R36535   | CHECK VALVE         | 1   |                                     |         |
| 6   | T11919   | COVER               | 1   |                                     |         |
| 7   | R48493   | BUSHING             | 2   |                                     |         |
| 8   | R30714   | BOLT                | 2   |                                     |         |
| 9   | T11930   | SCREW               | 1   |                                     |         |
| 10  | T11878   | WASHER              | 1   |                                     |         |
| 11  | AR99984  | HOUSING             | 1   | (SUB FOR AR67675, THIS APPLICATION) |         |
| 12  | T11883   | GASKET              | 2   | (K)                                 |         |
| 13  | T11882   | STRAP               | 2   |                                     |         |
| 14  | T11884   | SCREW               | 4   |                                     |         |
| 15  | T11876   | SCREW               | 2   |                                     |         |
| 16  | T11875   | SERIAL NUMBER PLATE | 1   |                                     |         |
| 17  | T11918   | WASHER              | 1   | (K)                                 |         |

(K) KIT AR34612

FUEL INJECTION PUMP DRIVE GROUP (4239D)  
 (ROOSA-MASTER NO. JDB435CM3223)  
 CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR  
 (SERIAL NO. -575617)

TP917



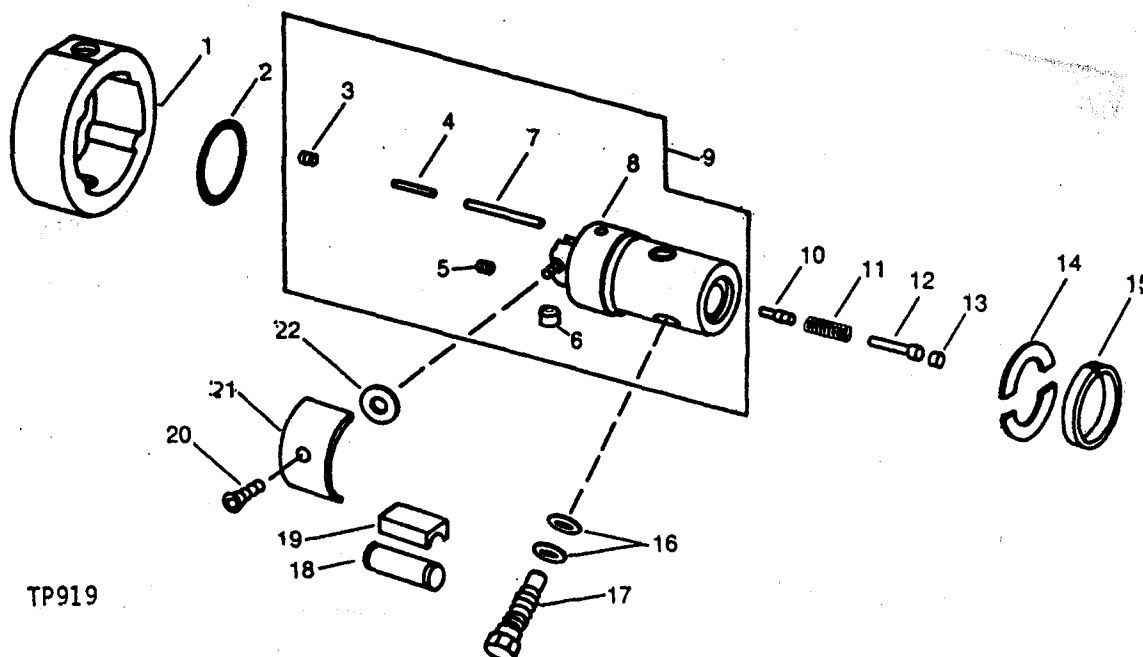
TP917

| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS      |
|-----|----------|-------------|-----|------------|--------------|
| 1   | T19855   | PIN         | 1   |            |              |
| 2   | R36540   | SPRING      | 1   |            |              |
| 3   | 26H10    | SHAFT KEY   | 1   |            | 5/32" X 5/8" |
| 4   | R36538   | DRIVE SHAFT | 1   |            |              |
| 5   | T11290   | SEAL        | 2   |            | (K)          |
| 6   | T19865   | BUSHING     | 1   |            |              |
| 7   | T19854   | O-RING      | 1   |            | (K)          |

(K) KIT AR34612

**FUEL INJECTION PUMP HEAD AND ROTOR GROUP (4239D)**  
**(ROOSA-MASTER NO. JDB435CM3223)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. -575617)**

TP919



TP919

| KEY | PART NO. | PART NAME                 | QTY | SERIAL NO. | REMARKS         |
|-----|----------|---------------------------|-----|------------|-----------------|
| 1   | R48501   | RING                      | 1   |            |                 |
| 2   | T11891   | O-RING                    | 1   |            | (K)             |
| 3   | R30725   | SET SCREW                 | 2   |            |                 |
| 4   | R30726   | DOWEL PIN                 | 1   |            | (PLAIN)         |
|     | R49346   | DOWEL PIN                 | 1   |            | (BLACK)         |
| 5   | T11926   | SET SCREW                 | 1   |            |                 |
| 6   | T32238   | PLUNGER                   | 2   |            | (PLUNGER A)     |
|     | T32239   | PLUNGER                   | 2   |            | (PLUNGER B)     |
|     | T32240   | PLUNGER                   | 2   |            | (PLUNGER C)     |
|     | T32241   | PLUNGER                   | 2   |            | (PLUNGER D)     |
| 7   | R30727   | RETAINER                  | 1   |            |                 |
| 8   | .....    | HOUSING                   | 1   |            | (SUB AR52229)   |
| 9   | AR52229  | HYDRAULIC HEAD, AND ROTOR | 1   |            |                 |
| 10  | T19856   | VALVE                     | 1   |            |                 |
|     | T19857   | VALVE                     | 1   |            | (OVERSIZE)      |
| 11  | R30735   | SPRING                    | 1   |            |                 |
| 12  | T26223   | STOP                      | 1   |            | (K)             |
| 13  | R30737   | SCREW                     | 1   |            |                 |
| 14  | T11890   | RETAINER                  | 2   |            |                 |
| 15  | T11889   | SNAP RING                 | 1   |            |                 |
| 16  | T20055   | WASHER                    | 12  |            | (K)             |
| 17  | R26726   | FITTING                   | 6   |            |                 |
| 18  | T11886   | NEEDLE ROLLER             | 2   |            |                 |
| 19  | R56483   | SHOE                      | 2   |            |                 |
| 20  | T11887   | SCREW                     | 1   |            |                 |
| 21  | T11888   | LEAF SPRING               | 1   |            |                 |
| 22  | T31124   | SHIM                      | AR  |            | 0.13 MM (.005") |
|     | T31125   | SHIM                      | AR  |            | 0.16 MM (.006") |
|     | T31126   | SHIM                      | AR  |            | 0.18 MM (.007") |
|     | T31127   | SHIM                      | AR  |            | 0.20 MM (.008") |
|     | T31128   | SHIM                      | AR  |            | 0.23 MM (.009") |

(K) KIT AR34612

## FUEL INJECTION PUMP TRANSFER GROUP (4239D)

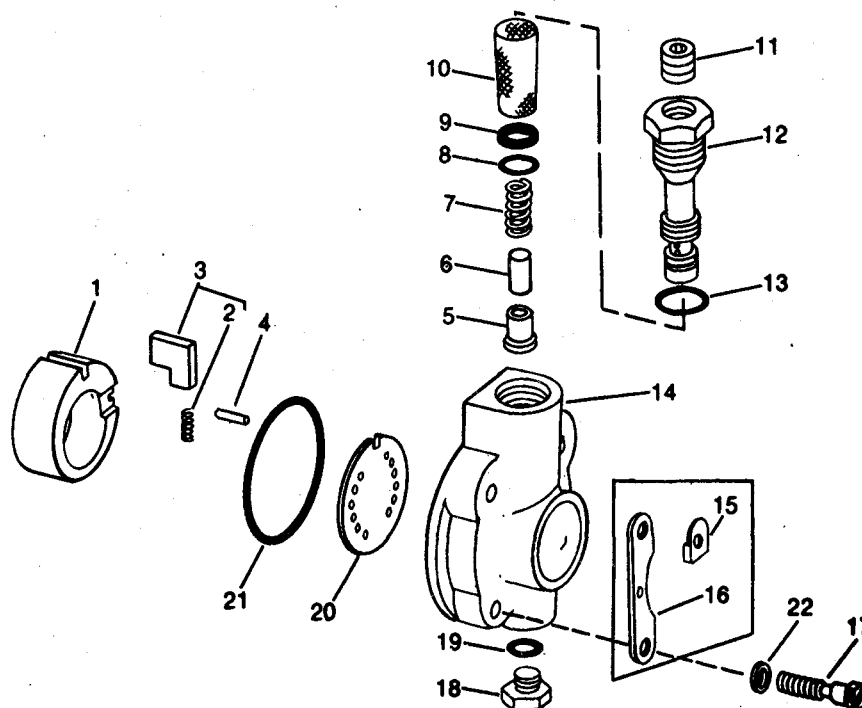
(ROOSA-MASTER NO. JDB435CM3223)

CODE 1603

FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR  
(SERIAL NO. -575617)

TP7694

TP7694.

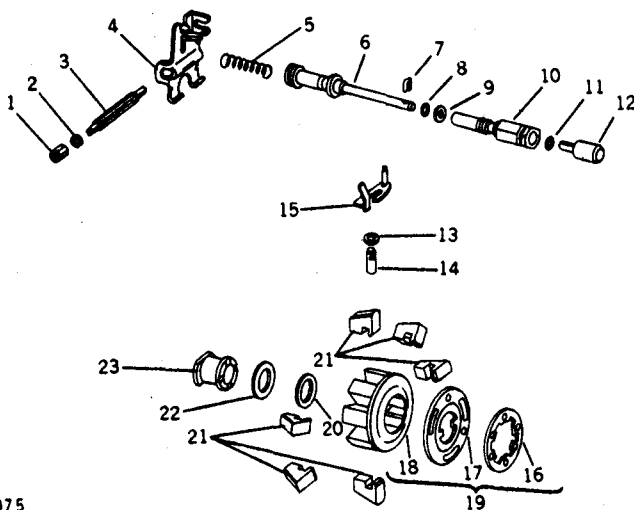


| KEY | PART NO. | PART NAME  | QTY | SERIAL NO. | REMARKS                   |
|-----|----------|------------|-----|------------|---------------------------|
| 1   | T26238   | SLEEVE     | 1   |            |                           |
| 2   | R34630   | SPRING     | 2   |            |                           |
| 3   | AR73828  | KIT        | 1   |            | (STANDARD SIZE)           |
|     | AR73829  | KIT        | 1   |            | (OVERSIZE)                |
| 4   | 34H240   | SPRING PIN | 1   |            | 1/8" X 1/4"               |
| 5   | T25142   | SEAL       | 1   |            | (K)                       |
| 6   | T11900   | DOWEL PIN  | 1   |            |                           |
| 7   | R49209   | SPRING     | 1   |            | (COLORED BLACK BOTH ENDS) |
| 8   | T11899   | O-RING     | 1   |            | (K)                       |
| 9   | R34632   | WASHER     | 1   |            | (K)                       |
| 10  | R34625   | STRAINER   | 1   |            |                           |
| 11  | R34623   | PLUG       | 1   |            |                           |
| 12  | R34622   | SLEEVE     | 1   |            |                           |
| 13  | T11934   | O-RING     | 1   |            |                           |
| 14  | R34624   | PLATE      | 1   |            |                           |
| 15  | R48496   | CLIP       | 4   |            |                           |
| 16  | R48497   | STRAP      | 2   |            |                           |
| 17  | R48498   | BOLT       | 4   |            |                           |
| 18  | T30607   | DRAIN PLUG | 1   |            |                           |
| 19  | T26256   | O-RING     | 1   |            | (K)                       |
| 20  | R34631   | PLATE      | 1   |            |                           |
| 21  | T11894   | O-RING     | 1   |            | (K)                       |
| 22  | T15715   | WASHER     | 4   |            |                           |

(K) KIT AR34612

**FUEL INJECTION PUMP GOVERNOR (4239D)**  
**(ROOSA-MASTER NO. JDB435CM3223)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. -575617)**

T35075



T35075

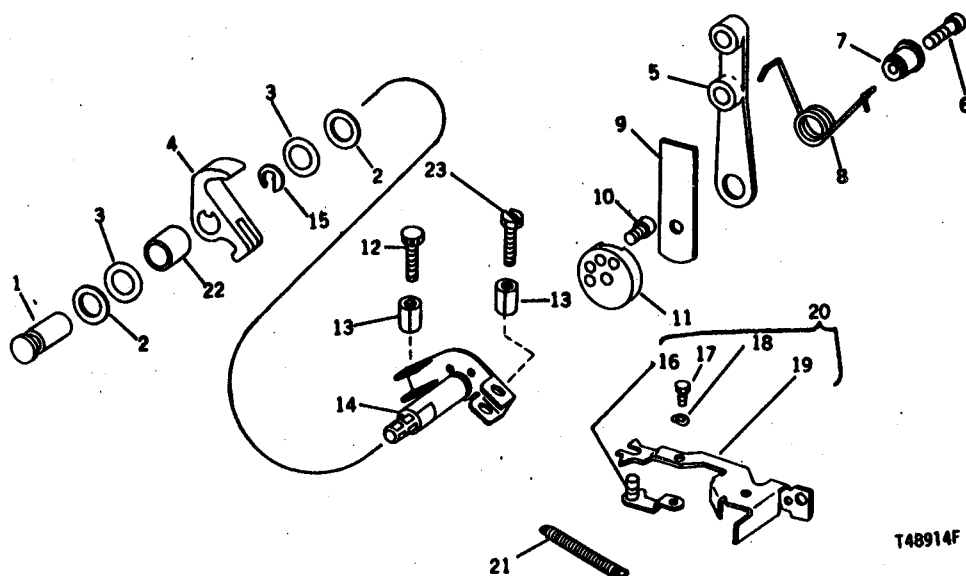
| KEY | PART NO. | PART NAME | QTY | SERIAL NO. | REMARKS        |
|-----|----------|-----------|-----|------------|----------------|
| 1   | T11932   | NUT       | 2   |            |                |
| 2   | R34812   | O-RING    | 2   |            | (K)            |
| 3   | T11925   | SHAFT     | 1   |            |                |
| 4   | R57872   | ARM       | 1   |            |                |
| 5   | R60710   | SPRING    | 1   |            |                |
| 6   | AR69572  | ROD       | 1   |            |                |
| 7   | R57871   | PIN       | 1   |            |                |
| 8   | T17951   | O-RING    | 1   |            |                |
| 9   | R57876   | WASHER    | 1   |            |                |
| 10  | R57873   | GUIDE     | 1   |            |                |
| 11  | T26256   | O-RING    | 1   |            | (K)            |
| 12  | AR69571  | CAP       | 1   |            |                |
| 13  | R30732   | SHIM      | 1   |            |                |
| 14  | AR91548  | KIT       | 1   |            | METERING VALVE |
| 15  | AR30736  | ARM       | 1   |            |                |
| 16  | R42483   | RING      | 1   |            | (K)            |
| 17  | AR63213  | HUB       | 1   |            |                |
| 18  | AR63212  | RETAINER  | 1   |            |                |
| 19  | AR84890  | RETAINER  | 1   |            |                |
| 20  | T11931   | RING      | 1   |            |                |
| 21  | T11910   | WEIGHT    | 6   |            |                |
| 22  | R59078   | WASHER    | 1   |            |                |
| 23  | T16601   | SLEEVE    | 1   |            | (A)            |
|     | R74472   | SLEEVE    | 1   |            | (A)            |

(A) EITHER PART ACCEPTABLE. CHECK FOR LOCAL AVAILABILITY.

(K) KIT AR34612

**FUEL INJECTION PUMP LINKAGE GROUP (4239D)**  
**(ROOSA-MASTER NO. JDB435CM3223)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. -575617)**

T48914

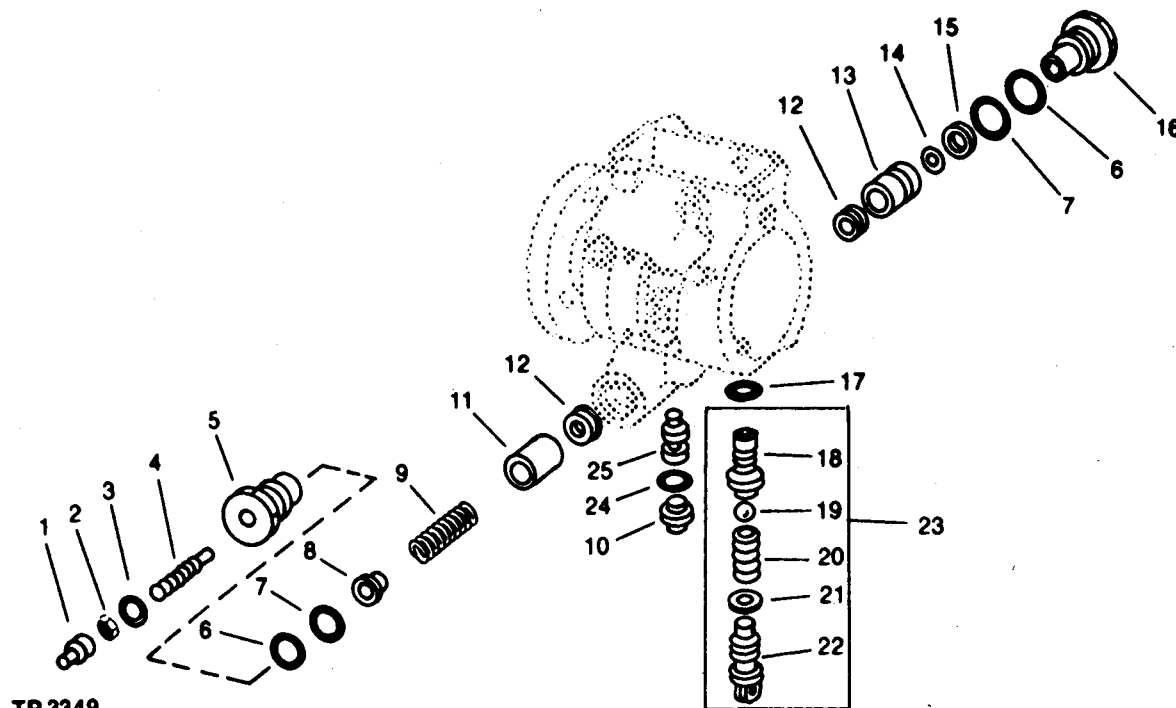


| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS                                |
|-----|----------|-------------|-----|------------|----------------------------------------|
| 1   | R59079   | SHAFT       | 1   |            |                                        |
| 2   | T15720   | WASHER      | 2   |            | (K)                                    |
| 3   | R76578   | O-RING      | 2   |            | (K) (SUB FOR T11915, THIS APPLICATION) |
| 4   | T11927   | LEVER       | 1   |            |                                        |
| 5   | T19858   | LEVER       | 1   |            |                                        |
| 6   | R70513   | SCREW       | 1   |            | (SUB FOR T19859, THIS APPLICATION)     |
| 7   | T17950   | RETAINER    | 1   |            |                                        |
| 8   | T17949   | SPRING      | 1   |            |                                        |
| 9   | T19860   | STRAP       | 1   |            |                                        |
| 10  | T11917   | SCREW       | 1   |            |                                        |
| 11  | T19861   | SPACER      | 1   |            |                                        |
| 12  | R30722   | BOLT        | 1   |            | LOW IDLE ADJUSTING                     |
| 13  | T11921   | NUT         | 2   |            |                                        |
| 14  | AR71186  | SHAFT       | 1   |            |                                        |
| 15  | T11929   | CLIP        | 1   |            |                                        |
| 16  | AR28602  | LINK        | 1   |            |                                        |
| 17  | R30718   | SCREW       | 1   |            |                                        |
| 18  | R30719   | LOCK WASHER | 1   |            |                                        |
| 19  | T15699   | HOOK        | 1   |            |                                        |
| 20  | AR51719  | HOOK        | 1   |            | (SUB FOR AT11520, THIS APPLICATION)    |
| 21  | T11911   | SPRING      | 1   |            |                                        |
| 22  | T11933   | SPACER      | 1   |            |                                        |
| 23  | T11941   | SCREW       | 1   |            | HIGH IDLE ADJUSTING                    |

(K) KIT AR34612

**FUEL INJECTION PUMP AUTOMATIC ADVANCE (4239D)**  
**(ROOSA-MASTER NO. JDB435CM3223)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. -575617)**

TP3349



TP 3349

| KEY | PART NO. | PART NAME | QTY | SERIAL NO. | REMARKS                            |
|-----|----------|-----------|-----|------------|------------------------------------|
| 1   | T17117   | CAP       | 1   |            |                                    |
| 2   | T17122   | NUT       | 1   |            |                                    |
| 3   | T11915   | O-RING    | 1   |            | (K)                                |
| 4   | T17123   | SET SCREW | 1   |            |                                    |
| 5   | T17126   | PLUG      | 1   |            | (K)                                |
| 6   | R56396   | O-RING    | 2   |            | (K)                                |
| 7   | T15710   | O-RING    | 2   |            |                                    |
| 8   | T17125   | GUIDE     | 1   |            |                                    |
| 9   | T24413   | SPRING    | 1   |            | INNER (COLORED RED)                |
| 10  | R40707   | PLUG      | 1   |            | (SUB FOR T15711, THIS APPLICATION) |
| 11  | R70314   | PISTON    | 1   |            |                                    |
| 12  | T15705   | WASHER    | 2   |            |                                    |
| 13  | T19863   | PISTON    | 1   |            |                                    |
| 14  | R34635   | WASHER    | 1   |            | (K)                                |
| 15  | R49211   | WASHER    | 1   |            |                                    |
| 16  | R74310   | PLUG      | 1   |            | (SUB FOR R49212, THIS APPLICATION) |
| 17  | T11899   | O-RING    | 2   |            | (K)                                |
| 18  | R48604   | PLUG      | 1   |            | (SUB AR51712)                      |
| 19  | T17137   | BALL      | 1   |            | (SUB AR51712)                      |
| 20  | R48601   | SPRING    | 1   |            | (SUB AR51712)                      |
| 21  | R48603   | WASHER    | 1   |            | (SUB AR51712)                      |
| 22  | R48602   | SCREW     | 1   |            | (SUB AR51712)                      |
| 23  | AR51712  | SCREW     | 1   |            |                                    |
| 24  | R36646   | SCREW     | 1   |            |                                    |
| 25  | T15712   | O-RING    | 1   |            | (K)                                |

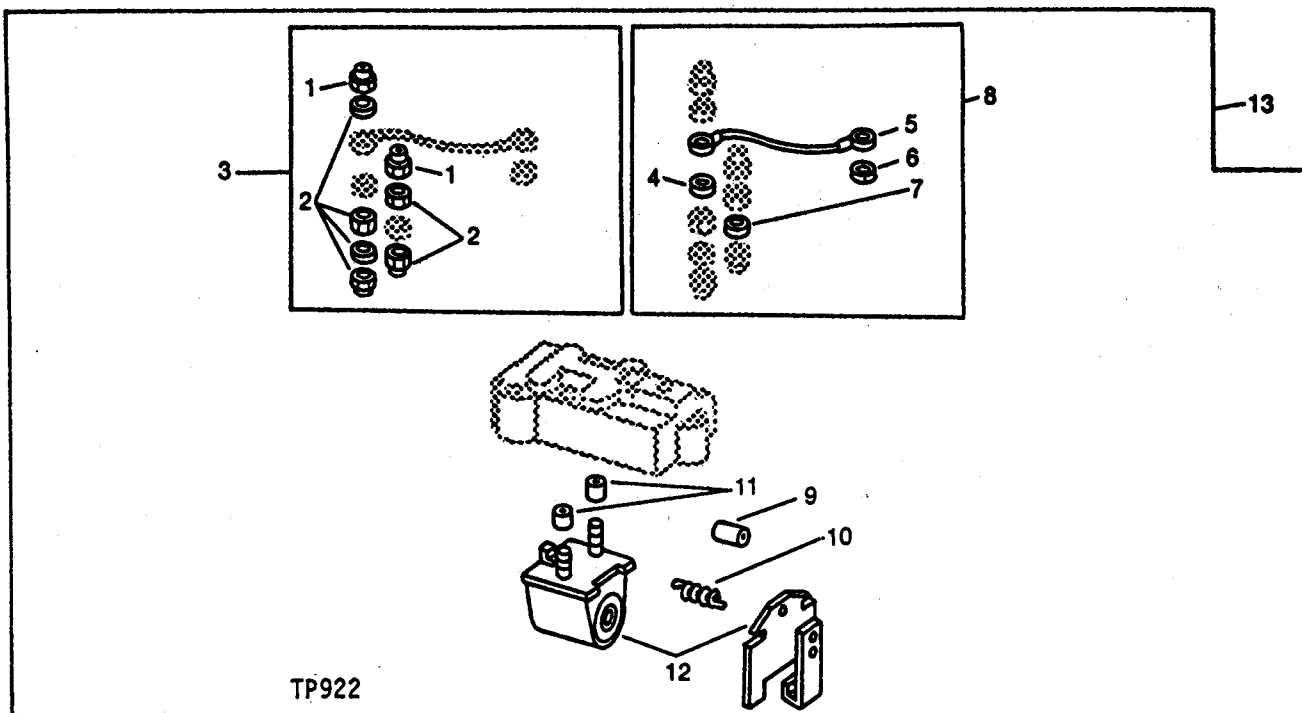
(K) KIT AR34612

## FUEL INJECTION PUMP ELECTRIC SHUT-OFF KIT (4239D)

(ROOSA-MASTER NO. JDB435CM3223)

CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR  
(SERIAL NO. -575617)

TP922

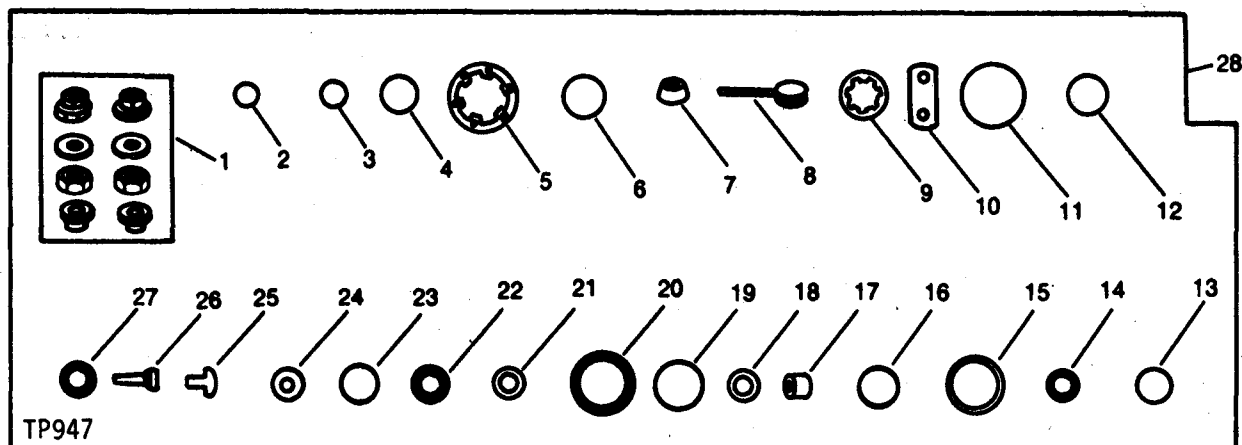


| KEY | PART NO. | PART NAME    | QTY | SERIAL NO. | REMARKS            |
|-----|----------|--------------|-----|------------|--------------------|
| 1   | T19977   | LOCK NUT     | 2   |            |                    |
| 2   | .....    | WASHER       | 1   |            | (SUB AR90601)      |
| 3   | AR90601  | KIT          | 1   |            | (K) NUT AND WASHER |
| 4   | R47077   | LOCK WASHER  | 1   |            |                    |
| 5   | .....    | GROUND CABLE | 1   |            | (SUB AR50874)      |
| 6   | 12H295   | LOCK WASHER  | 1   |            | NO. 10             |
| 7   | .....    | WASHER       | 1   |            | (SUB AR50874)      |
| 8   | AR50874  | KIT          | 1   |            | GROUNDING STRAP    |
| 9   | R48795   | SLEEVE       | 1   |            |                    |
| 10  | T11935   | SPRING       | 1   |            |                    |
| 11  | T11937   | INSULATOR    | 2   |            | (K)                |
| 12  | .....    | HOUSING      | 1   |            | (SUB AR90340)      |
| 13  | AR90340  | KIT          | 1   |            | SHUT-OFF           |

(K) KIT AR34612

**FUEL INJECTION PUMP OVERHAUL GASKET KIT (4239D)**  
**(ROOSA-MASTER NO. JDB435CM3223)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**  
**(SERIAL NO. -575617)**

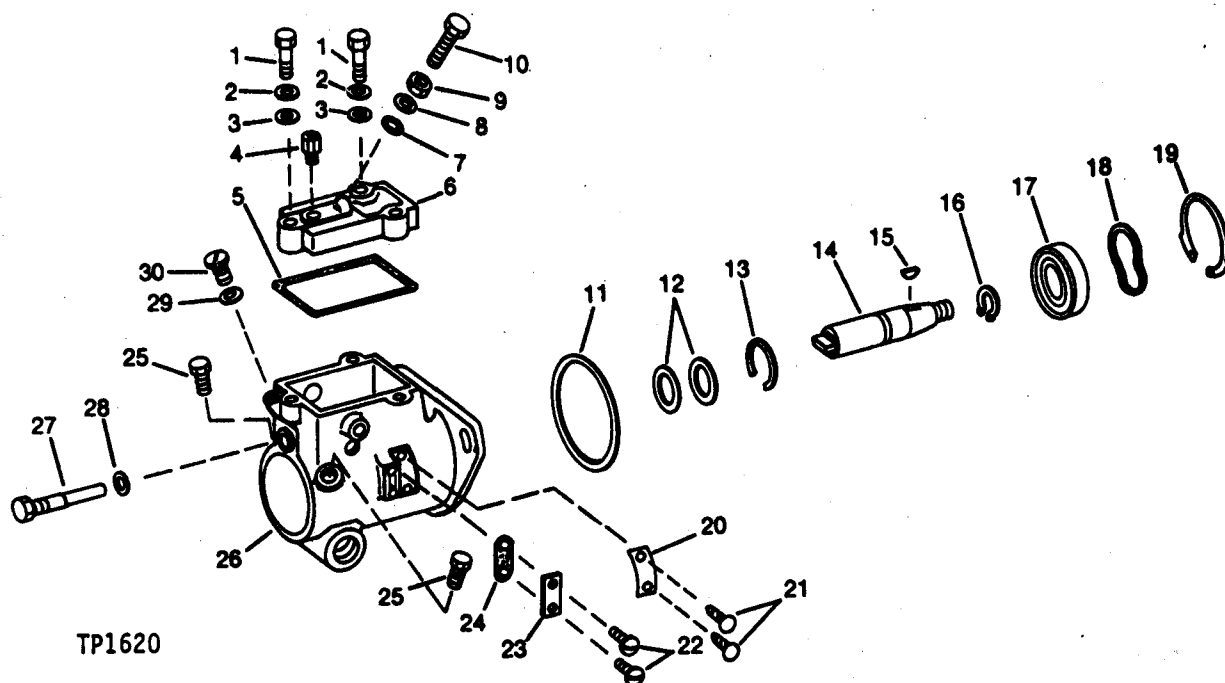
TP947



| KEY | PART NO. | PART NAME  | QTY | SERIAL NO. | REMARKS                            |
|-----|----------|------------|-----|------------|------------------------------------|
| 1   | AR90601  | KIT        | 1   |            | NUT AND WASHER                     |
| 2   | R34632   | WASHER     | 1   |            |                                    |
| 3   | R34635   | WASHER     | 1   |            |                                    |
| 4   | R34812   | O-RING     | 2   |            |                                    |
| 5   | R42483   | RING       | 1   |            |                                    |
| 6   | R56396   | O-RING     | 2   |            |                                    |
| 7   | T11290   | SEAL       | 2   |            |                                    |
| 8   | T11877   | WIRE       | 4   |            |                                    |
| 9   | T11878   | WASHER     | 1   |            |                                    |
| 10  | T11883   | GASKET     | 1   |            |                                    |
| 11  | T11891   | O-RING     | 1   |            |                                    |
| 12  | T11894   | O-RING     | 1   |            |                                    |
| 13  | T11899   | O-RING     | 3   |            |                                    |
| 14  | R76578   | O-RING     | 3   |            | (SUB FOR T11915, THIS APPLICATION) |
| 15  | T11918   | WASHER     | 1   |            |                                    |
| 16  | R33259   | O-RING     | 1   |            |                                    |
| 17  | T11937   | INSULATOR  | 2   |            |                                    |
| 18  | T11943   | WASHER     | 1   |            |                                    |
| 19  | T15710   | O-RING     | 2   |            |                                    |
| 20  | T15712   | O-RING     | 1   |            |                                    |
| 21  | T15720   | WASHER     | 2   |            |                                    |
| 22  | T17951   | O-RING     | 1   |            |                                    |
| 23  | T19854   | O-RING     | 1   |            |                                    |
| 24  | T20055   | WASHER     | 12  |            |                                    |
| 25  | T25142   | SEAL       | 1   |            |                                    |
| 26  | T26223   | STOP       | 1   |            |                                    |
| 27  | T26256   | O-RING     | 1   |            |                                    |
| 28  | AR34612  | GASKET KIT | 1   |            | GASKET                             |

**FUEL INJECTION PUMP HOUSING AND DRIVE GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427MD3051)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP1620



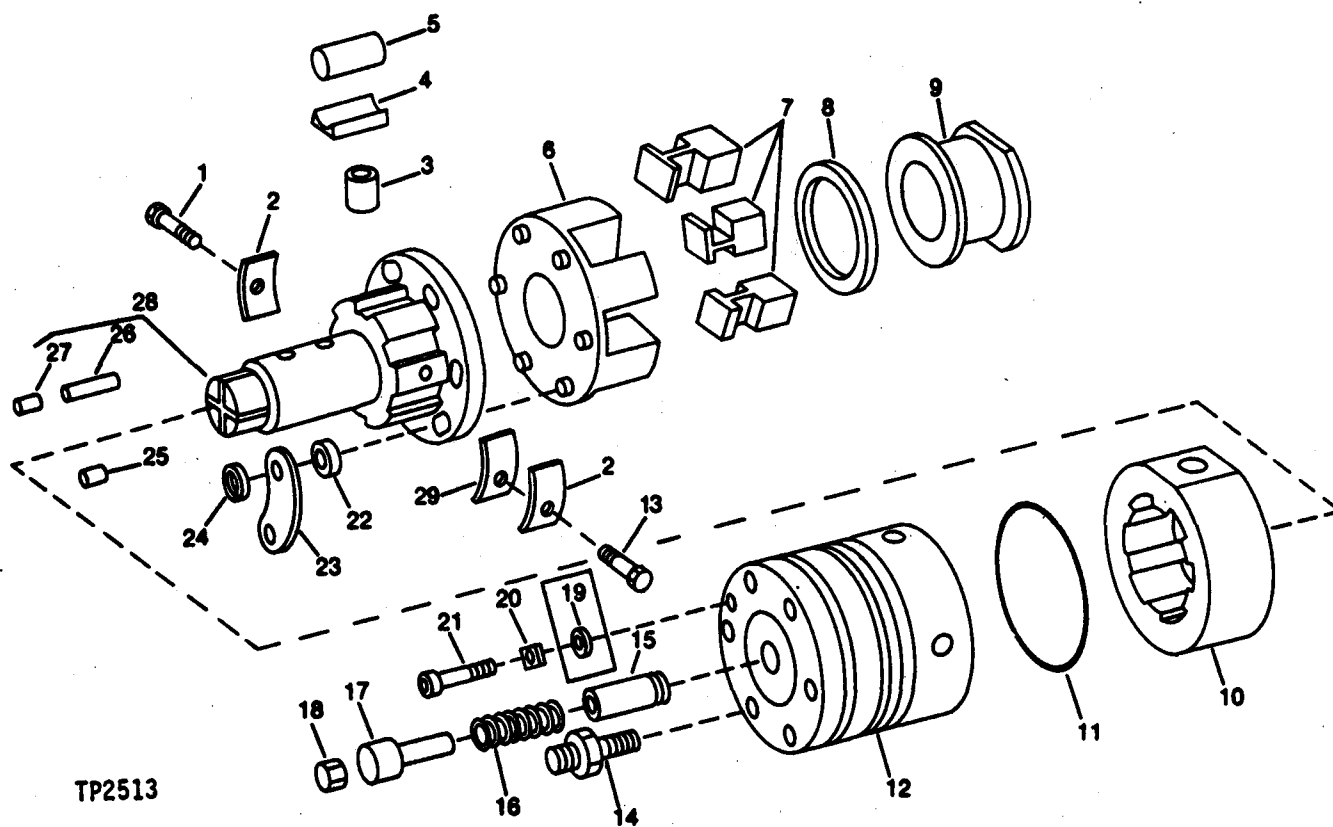
TP1620

| KEY | PART NO. | PART NAME           | QTY | SERIAL NO. | REMARKS                |
|-----|----------|---------------------|-----|------------|------------------------|
| 1   | T15721   | SCREW               | 1   |            |                        |
|     | R71851   | SCREW               | 2   |            |                        |
| 2   | 12H295   | LOCK WASHER         | 3   |            | INTERNAL TOOTH, NO. 10 |
| 3   | T15715   | WASHER              | 3   |            |                        |
| 4   | R36535   | CHECK VALVE         | 1   |            |                        |
| 5   | T11918   | WASHER              | 1   |            | (K)                    |
| 6   | R37139   | COVER               | 1   |            |                        |
| 7   | T17951   | O-RING              | 1   |            | (K)                    |
| 8   | T17947   | WASHER              | 1   |            |                        |
| 9   | T11921   | NUT                 | 1   |            |                        |
| 10  | T17953   | CAP SCREW           | 1   |            |                        |
| 11  | R54229   | WASHER              | 1   |            | (K)                    |
| 12  | AR72052  | SEAL                | 2   |            | (K)                    |
| 13  | R54225   | RING                | 1   |            | (NO LONGER AVAILABLE)  |
| 14  | R57797   | DRIVE SHAFT         | 1   |            |                        |
| 15  | R56424   | SHAFT KEY           | 1   |            |                        |
| 16  | R57796   | SNAP RING           | 1   |            |                        |
| 17  | AR69427  | BALL BEARING        | 1   |            |                        |
| 18  | R54235   | WASHER              | 1   |            |                        |
| 19  | R54230   | RING                | 1   |            |                        |
| 20  | T11875   | SERIAL NUMBER PLATE | 1   |            |                        |
| 21  | T11876   | SCREW               | 2   |            |                        |
| 22  | R54260   | SCREW               | 2   |            |                        |
| 23  | T11882   | STRAP               | 1   |            |                        |
| 24  | T11883   | GASKET              | 1   |            | (K)                    |
| 25  | R30714   | BOLT                | 2   |            |                        |
| 26  | AR69428  | HOUSING             | 1   |            |                        |
| 27  | T11923   | STUD                | 1   |            |                        |
| 28  | T11943   | WASHER              | 1   |            |                        |
| 29  | T11878   | WASHER              | 1   |            |                        |
| 30  | T11930   | SCREW               | 1   |            |                        |

(K) KIT AR63029

**FUEL INJECTION PUMP HEAD AND ROTOR GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427MD3051)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP2513



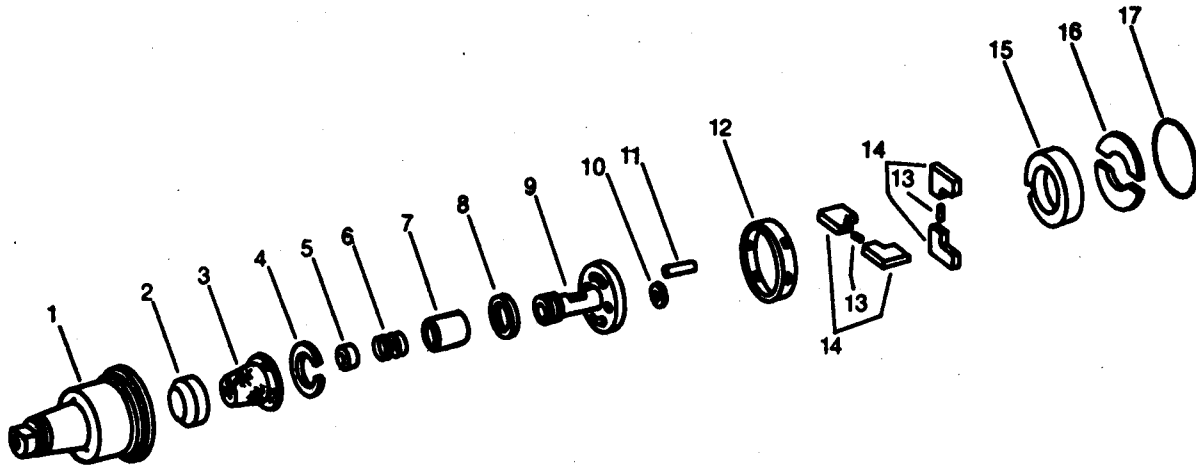
TP2513

**FUEL INJECTION PUMP HEAD AND ROTOR GROUP (4239T)-CONTINUED**  
**(ROOSA-MASTER NO. DM4427MD3051)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

| KEY | PART NO. | PART NAME               | QTY | SERIAL NO. | REMARKS             |
|-----|----------|-------------------------|-----|------------|---------------------|
| 1   | R48509   | SCREW                   | 1   |            |                     |
|     | R48506   | SCREW                   | 1   |            | (POLISHED HEAD)     |
| 2   | R61713   | LEAF SPRING             | 2   |            |                     |
| 3   | R57800   | PLUNGER                 | 2   |            | (PLUNGER A) (LONG)  |
|     | R57801   | PLUNGER                 | 2   |            | (PLUNGER B) (LONG)  |
|     | R57802   | PLUNGER                 | 2   |            | (PLUNGER C) (LONG)  |
|     | R57803   | PLUNGER                 | 2   |            | (PLUNGER D) (LONG)  |
|     | R62133   | PLUNGER                 | 2   |            | (PLUNGER A) (SHORT) |
|     | R62134   | PLUNGER                 | 2   |            | (PLUNGER B) (SHORT) |
|     | R62135   | PLUNGER                 | 2   |            | (PLUNGER C) (SHORT) |
|     | R62136   | PLUNGER                 | 2   |            | (PLUNGER D) (SHORT) |
| 4   | R48504   | SHOE                    | 4   |            | (-15) (PREFERRED)   |
|     | R57863   | SHOE                    | AR  |            | (-10)               |
|     | R57808   | SHOE                    | AR  |            | (-20)               |
| 5   | T11886   | NEEDLE ROLLER           | 4   |            |                     |
| 6   | AR61993  | RETAINER                | 1   |            |                     |
| 7   | R54239   | WEIGHT                  | 6   |            |                     |
| 8   | R54240   | THRUST WASHER           | 1   |            |                     |
| 9   | R65681   | SLEEVE                  | 1   |            | (SUB FOR R54241)    |
| 10  | R58629   | RING                    | 1   |            |                     |
| 11  | T11891   | O-RING                  | 1   |            |                     |
| 12  | .....    | CYLINDER HEAD           | 1   |            | (SUB AR86999)       |
| 13  | R48506   | SCREW                   | 1   |            | (POLISHED HEAD)     |
|     | R48509   | SCREW                   | 1   |            |                     |
| 14  | R57137   | FITTING                 | 1   |            |                     |
| 15  | R57798   | VALVE                   | 1   |            |                     |
|     | R58077   | VALVE                   | 1   |            |                     |
| 16  | R57799   | SPRING                  | 1   |            |                     |
| 17  | R57810   | STOP                    | 1   |            |                     |
| 18  | R57809   | SCREW                   | 1   |            |                     |
| 19  | R54628   | WASHER                  | 1   |            |                     |
| 20  | R67446   | WASHER                  | 1   |            |                     |
| 21  | R54261   | SCREW                   | 1   |            |                     |
| 22  | R54249   | CUSHION                 | 6   |            |                     |
| 23  | R54252   | RETAINER                | 3   |            |                     |
| 24  | R54242   | SNAP RING               | 6   |            |                     |
| 25  | T11926   | SET SCREW               | 1   |            |                     |
| 26  | R54626   | DOWEL PIN               | 1   |            |                     |
|     | R63975   | DOWEL PIN               | 1   |            | (BLACK)             |
| 27  | R30725   | SET SCREW               | 1   |            |                     |
| 28  | AR86999  | HYDRAULIC CYLINDER HEAD | 1   |            |                     |
| 29  | R58628   | SUPPORT                 | 1   |            |                     |

**FUEL INJECTION PUMP TRANSFER GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427MD3051)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP1622



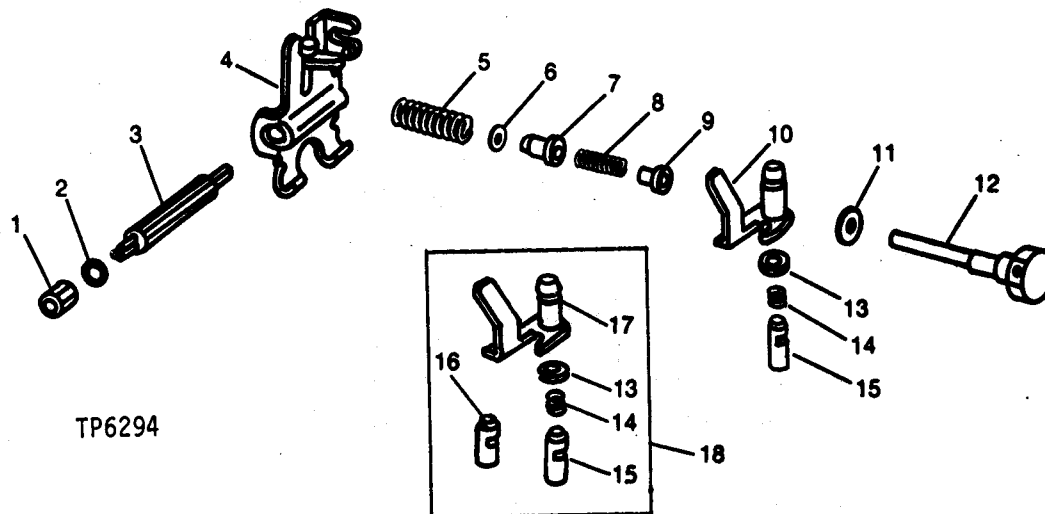
TP1622

| KEY | PART NO. | PART NAME    | QTY | SERIAL NO. | REMARKS                                     |
|-----|----------|--------------|-----|------------|---------------------------------------------|
| 1   | R61123   | CAP          | 1   |            |                                             |
| 2   | R61120   | WASHER       | 1   |            |                                             |
| 3   | R61118   | FUEL FILTER  | 1   |            | INLET                                       |
| 4   | R61119   | SNAP RING    | 1   |            |                                             |
| 5   | R34623   | PLUG         | 1   |            |                                             |
| 6   | R54237   | SPRING       | 1   |            |                                             |
| 7   | R54253   | PISTON       | 1   |            |                                             |
| 8   | R54222   | WASHER       | 1   |            | (K)                                         |
| 9   | AR61995  | REGULATOR    | 1   |            |                                             |
| 10  | R54231   | WASHER       | 1   |            | (K)                                         |
| 11  | R54226   | SPRING PIN   | 1   |            |                                             |
| 12  | R61122   | BACK-UP RING | 1   |            |                                             |
| 13  | R34630   | SPRING       | 2   |            |                                             |
| 14  | AR73828  | KIT          | 1   |            | BLADE TRANSFER PUMP WITH SPRINGS (STANDARD) |
|     | AR73829  | KIT          | 1   |            | BLADE TRANSFER PUMP WITH SPRINGS (OVERSIZE) |
| 15  | R54244   | LINING       | 1   |            |                                             |
| 16  | R61121   | RETAINER     | 2   |            |                                             |
| 17  | R61124   | O-RING       | 1   |            | (K)                                         |

(K) KIT AR63029

**FUEL INJECTION PUMP GOVERNOR GROUP (4239T)  
(ROOSA-MASTER NO. DM4427MD3051)  
CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP6294



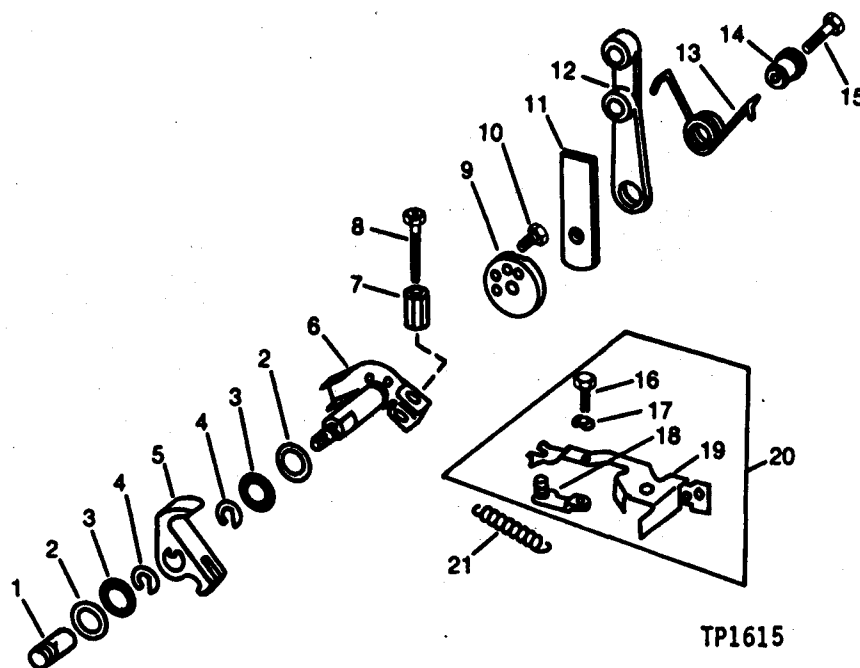
TP6294

| KEY | PART NO. | PART NAME | QTY | SERIAL NO. | REMARKS                 |
|-----|----------|-----------|-----|------------|-------------------------|
| 1   | T11932   | NUT       | 2   |            |                         |
| 2   | R34812   | O-RING    | 2   |            | (K)                     |
| 3   | T11925   | SHAFT     | 1   |            |                         |
| 4   | R54245   | ARM       | 1   |            |                         |
| 5   | T11951   | SPRING    | 1   |            | (COLORED BROWN)         |
| 6   | T17952   | WASHER    | 1   |            |                         |
| 7   | T11924   | RETAINER  | 1   |            |                         |
| 8   | T11913   | SPRING    | 1   |            |                         |
| 9   | T11914   | GUIDE     | 1   |            |                         |
| 10  | AR30736  | ARM       | 1   |            |                         |
| 11  | T11943   | WASHER    | 1   |            | (K)                     |
| 12  | T11923   | STUD      | 1   |            |                         |
| 13  | R30732   | SHIM      | 1   |            |                         |
| 14  | R58422   | SPRING    | 1   |            |                         |
| 15  | .....    | VALVE     | 1   |            | STANDARD, (SUB AR91546) |
| 16  | .....    | VALVE     | 1   |            | OVERSIZE, (SUB AR91546) |
| 17  | .....    | ARM       | 1   |            | (SUB AR91546)           |
| 18  | AR91546  | KIT       | 1   |            | METERING VALVE          |

(K) KIT AR63029

**FUEL INJECTION PUMP LINKAGE GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427MD3051)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP1615



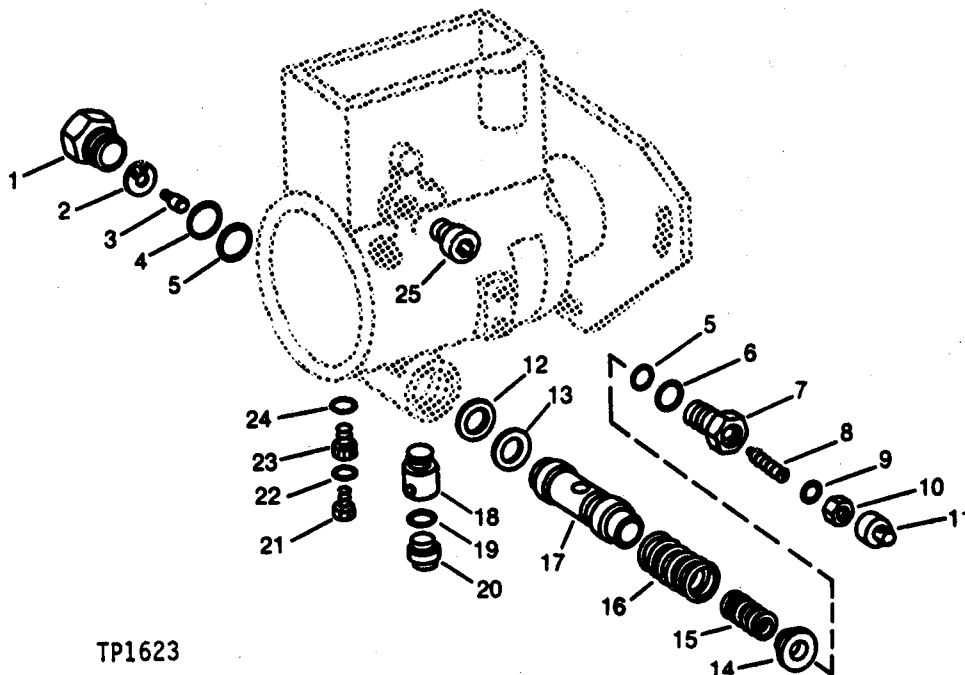
TP1615

| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS                                |
|-----|----------|-------------|-----|------------|----------------------------------------|
| 1   | R59079   | SHAFT       | 1   |            |                                        |
| 2   | T15720   | WASHER      | 2   |            | (K)                                    |
| 3   | R76578   | O-RING      | 2   |            | (K) (SUB FOR T11915, THIS APPLICATION) |
| 4   | T11929   | CLIP        | 2   |            |                                        |
| 5   | T11927   | LEVER       | 1   |            |                                        |
| 6   | R36542   | SHAFT       | 1   |            | (SUB FOR AR51717, THIS APPLICATION)    |
| 7   | T19862   | NUT         | 1   |            |                                        |
| 8   | T11920   | SCREW       | 1   |            | HIGH IDLE                              |
| 9   | T19861   | SPACER      | 1   |            |                                        |
| 10  | T11917   | SCREW       | 1   |            |                                        |
| 11  | T19860   | STRAP       | 1   |            |                                        |
| 12  | T19858   | LEVER       | 1   |            |                                        |
| 13  | T17949   | SPRING      | 1   |            |                                        |
| 14  | T17950   | RETAINER    | 1   |            |                                        |
| 15  | T19859   | SCREW       | 1   |            |                                        |
| 16  | R30718   | SCREW       | 1   |            |                                        |
| 17  | R30719   | LOCK WASHER | 1   |            |                                        |
| 18  | AR28602  | LINK        | 1   |            |                                        |
| 19  | R48516   | HOOK        | 1   |            |                                        |
| 20  | AR51719  | HOOK        | 1   |            |                                        |
| 21  | T11911   | SPRING      | 1   |            |                                        |

(K) KIT AR63029

**FUEL INJECTION PUMP ADVANCE GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427MD3051)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP1623



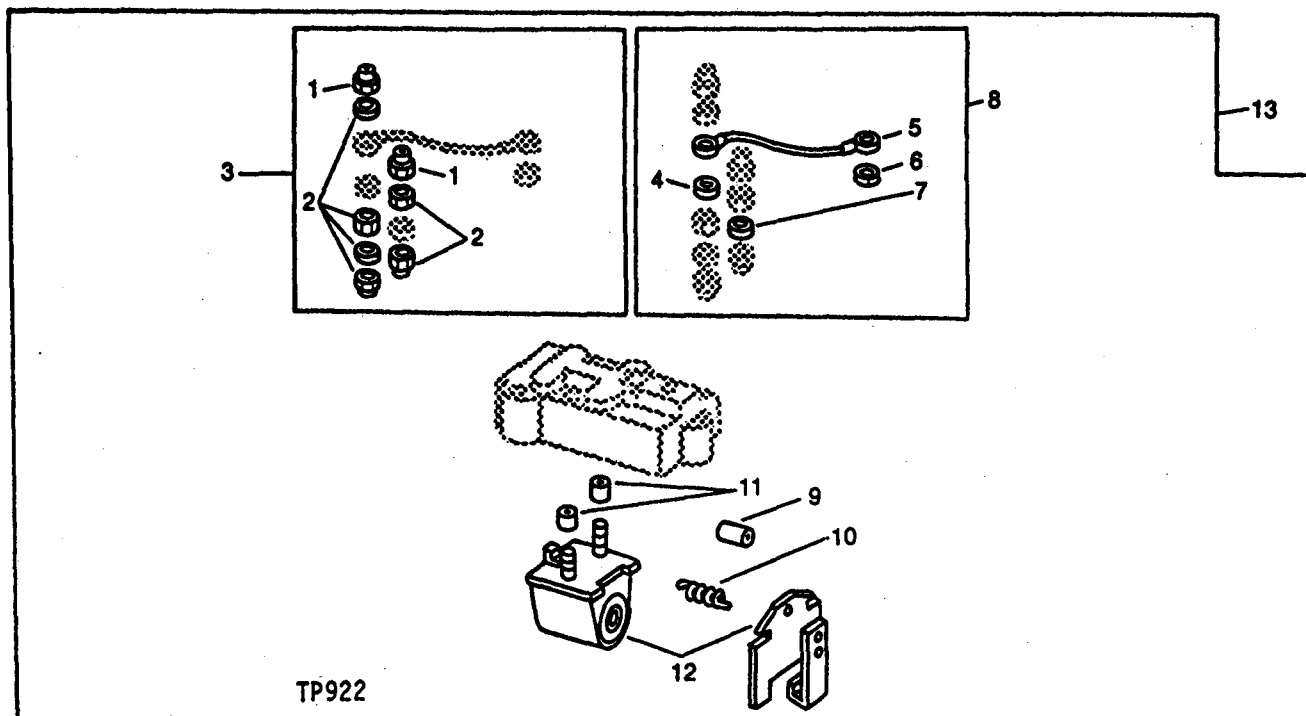
TP1623

| KEY | PART NO. | PART NAME | QTY | SERIAL NO. | REMARKS                                |
|-----|----------|-----------|-----|------------|----------------------------------------|
| 1   | R69088   | PLUG      | 1   |            |                                        |
| 2   | R56484   | VALVE     | 1   |            |                                        |
| 3   | R54224   | SCREW     | 2   |            |                                        |
| 4   | T17135   | O-RING    | 1   | (K)        |                                        |
| 5   | T15710   | O-RING    | 2   | (K)        |                                        |
| 6   | R56396   | O-RING    | 1   | (K)        |                                        |
| 7   | R40709   | PLUG      | 1   |            |                                        |
| 8   | T17123   | SET SCREW | 1   |            |                                        |
| 9   | T11915   | O-RING    | 1   | (K)        |                                        |
| 10  | T17122   | NUT       | 1   |            |                                        |
| 11  | T17117   | CAP       | 1   |            |                                        |
| 12  | R49211   | WASHER    | 1   |            |                                        |
| 13  | R34635   | WASHER    | 1   | (K)        |                                        |
| 14  | T17125   | GUIDE     | 1   |            |                                        |
| 15  | R57814   | SPRING    | 1   |            | INNER ADVANCE (COLORED GREEN)          |
| 16  | R57813   | SPRING    | 1   |            | OUTER ADVANCE (COLORED BLUE AND WHITE) |
| 17  | R57811   | PISTON    | 1   |            |                                        |
| 18  | R40703   | PIN       | 1   |            |                                        |
| 19  | T15712   | O-RING    | 1   | (K)        |                                        |
| 20  | R40707   | PLUG      | 1   |            |                                        |
| 21  | R54254   | SCREW     | 1   |            |                                        |
| 22  | T17951   | O-RING    | 1   | (K)        |                                        |
| 23  | R54251   | SCREW     | 1   |            |                                        |
| 24  | T11899   | O-RING    | 1   | (K)        |                                        |
| 25  | R54627   | SCREW     | 1   |            |                                        |

(K) KIT AR63029

**FUEL INJECTION PUMP ELECTRIC SHUT-OFF KIT (4239T)**  
**(ROOSA-MASTER NO. DM4427MD3051)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP922



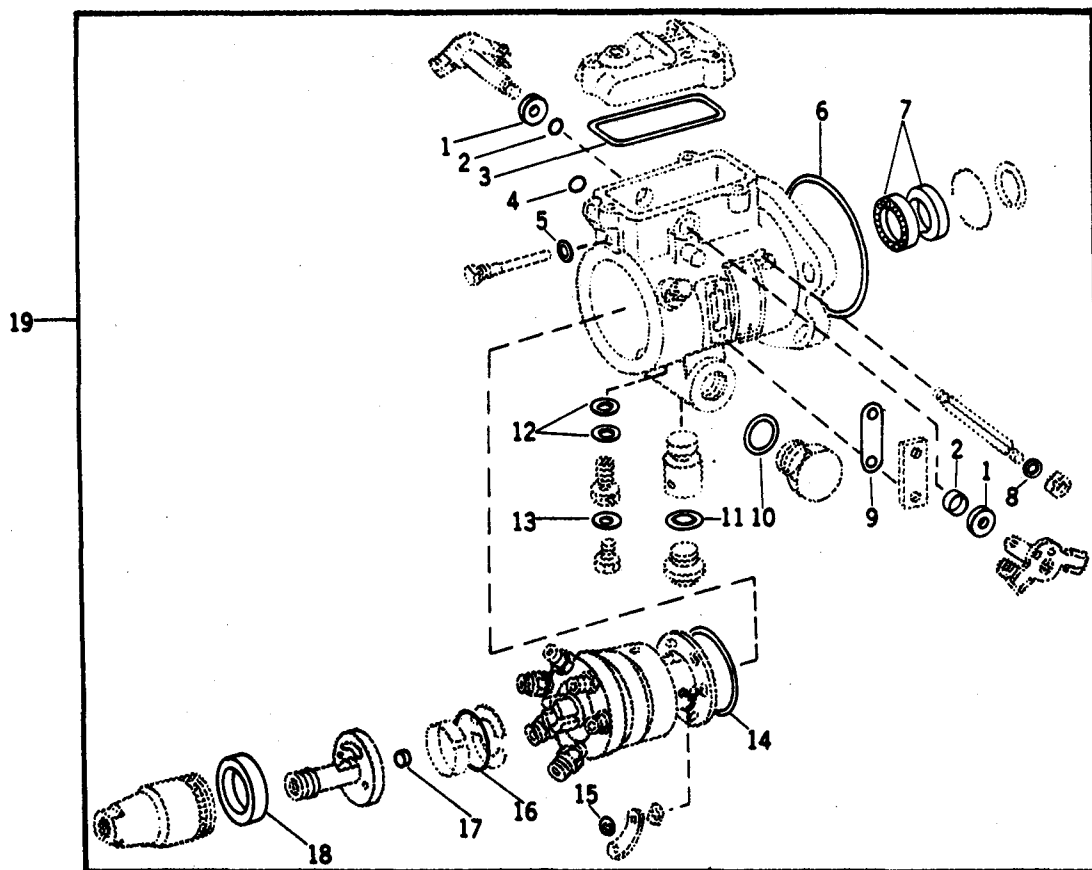
| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS         |
|-----|----------|-------------|-----|------------|-----------------|
| 1   | T19977   | LOCK NUT    | 2   |            |                 |
| 2   | .....    | WASHER      | 1   |            | (SUB AR90601)   |
| 3   | AR90601  | KIT         | 1   |            | NUT AND WASHER  |
| 4   | R47077   | LOCK WASHER | 1   |            |                 |
| 5   | .....    | STRAP       | 1   |            | (SUB AR50874)   |
| 6   | 12H295   | LOCK WASHER | 1   |            | NO. 10          |
| 7   | .....    | WASHER      | 1   |            | (SUB AR50874)   |
| 8   | AR50874  | KIT         | 1   |            | GROUNDING STRAP |
| 9   | R48795   | SLEEVE      | 1   |            |                 |
| 10  | T11935   | SPRING      | 1   |            |                 |
| 11  | T11937   | INSULATOR   | 2   |            |                 |
| 12  | .....    | HOUSING     | 1   |            | (SUB AR90340)   |
| 13  | AR90340  | KIT         | 1   |            | SHUT-OFF        |

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MEMORANDA

**FUEL INJECTION PUMP GASKET OVERHAUL KIT (4239T)**  
**(ROOSA-MASTER NO. DM4427MD3051)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

RG1828



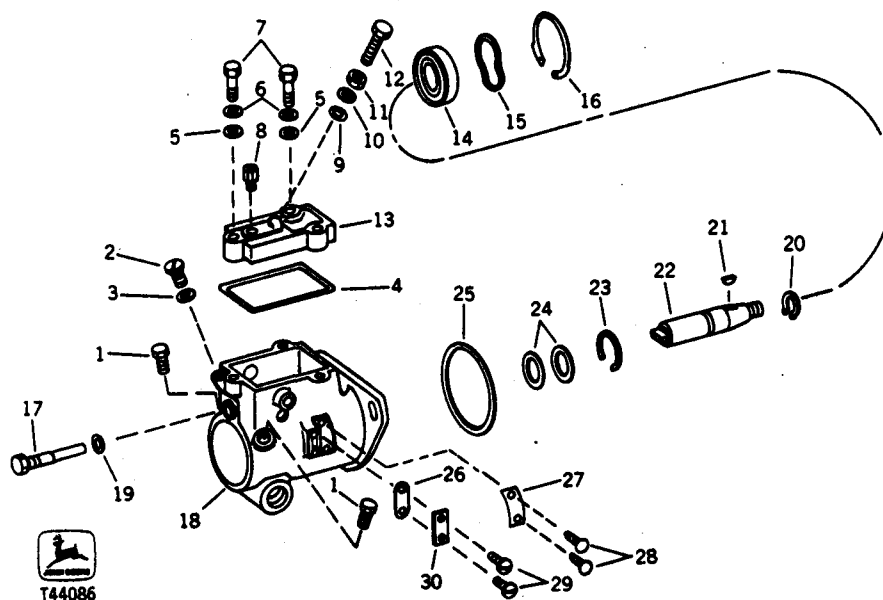
RG1828

**FUEL INJECTION PUMP GASKET OVERHAUL KIT (4239T)-CONTINUED**  
**(ROOSA-MASTER NO. DM4427MD3051)**  
**CODE 1602 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

| KEY | PART NO. | PART NAME  | QTY | SERIAL NO. | REMARKS                                           |
|-----|----------|------------|-----|------------|---------------------------------------------------|
| 1   | T15720   | WASHER     | 2   |            | THROTTLE SHAFT                                    |
| 2   | T11915   | O-RING     | 2   |            |                                                   |
|     | R76578   | O-RING     | 2   |            | THROTTLE SHAFT (SUB FOR T11915, THIS APPLICATION) |
| 3   | T11918   | WASHER     | 1   |            |                                                   |
| 4   | T11878   | WASHER     | 1   |            |                                                   |
| 5   | T11943   | WASHER     | 1   |            | GUIDE STUD                                        |
| 6   | R54229   | WASHER     | 1   |            | PUMP FLANGE                                       |
| 7   | AR72052  | SEAL       | 2   |            | DRIVE SHAFT                                       |
| 8   | R34812   | O-RING     | 2   |            | PIVOT SHAFT                                       |
| 9   | T11883   | GASKET     | 1   |            | TIMING LINE COVER                                 |
| 10  | T17135   | O-RING     | 1   |            | HOLE PLUG                                         |
| 11  | T15712   | O-RING     | 1   |            | ADVANCE PLUG                                      |
| 12  | T11899   | O-RING     | 1   |            | HEAD LOCATING PLUG                                |
| 13  | T17951   | O-RING     | 1   |            |                                                   |
| 14  | T11891   | O-RING     | 1   |            |                                                   |
| 15  | R54242   | SNAP RING  | 6   |            |                                                   |
| 16  | R61124   | O-RING     | 1   |            | TRANSFER PUMP                                     |
| 17  | R54231   | WASHER     | 1   |            | TRANSFER PUMP REGULATING SLEEVE                   |
| 18  | R54222   | WASHER     | 1   |            | INLET FILTER SCREEN                               |
| 19  | AR63029  | GASKET KIT | 1   |            | GASKET OVERHAUL                                   |

**FUEL INJECTION PUMP HOUSING AND DRIVE GROUP (4239T)  
(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)  
CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

T44086

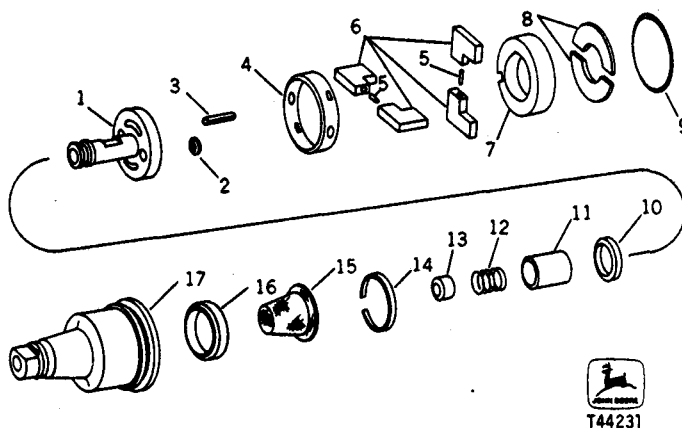


| KEY | PART NO. | PART NAME           | QTY | SERIAL NO. | REMARKS                             |
|-----|----------|---------------------|-----|------------|-------------------------------------|
| 1   | R30714   | BOLT                | 2   |            |                                     |
| 2   | T11930   | SCREW               | 1   |            |                                     |
| 3   | T11878   | WASHER              | 1   |            | (K)                                 |
| 4   | T11918   | WASHER              | 1   |            |                                     |
| 5   | T15715   | WASHER              | 3   |            |                                     |
| 6   | 12H295   | LOCK WASHER         | 3   |            | NO. 10                              |
| 7   | T15721   | SCREW               | 3   |            |                                     |
| 8   | R36535   | CHECK VALVE         | 1   |            |                                     |
| 9   | T17951   | O-RING              | 1   |            | (K)                                 |
| 10  | T17947   | WASHER              | 1   |            |                                     |
| 11  | T11921   | NUT                 | 1   |            |                                     |
| 12  | R30722   | BOLT                | 1   |            | LOW IDLE ADJUSTMENT                 |
| 13  | T11919   | COVER               | 1   |            |                                     |
| 14  | AR69427  | BALL BEARING        | 1   |            |                                     |
| 15  | R54235   | WASHER              | 1   |            |                                     |
| 16  | R54230   | RING                | 1   |            |                                     |
| 17  | T11923   | STUD                | 1   |            |                                     |
| 18  | AR94044  | HOUSING             | 1   |            | (SUB FOR AR69428, THIS APPLICATION) |
| 19  | T11943   | WASHER              | 1   |            |                                     |
| 20  | R57796   | SNAP RING           | 1   |            |                                     |
| 21  | R56424   | SHAFT KEY           | 1   |            |                                     |
| 22  | R57797   | DRIVE SHAFT         | 1   |            |                                     |
| 23  | R54225   | RING                | 1   |            |                                     |
| 24  | AR72052  | SEAL                | 2   |            | (K)                                 |
| 25  | R54229   | WASHER              | 1   |            | (K)                                 |
| 26  | T11883   | GASKET              | 1   |            | (K)                                 |
| 27  | T11875   | SERIAL NUMBER PLATE | 1   |            |                                     |
| 28  | T11876   | SCREW               | 2   |            |                                     |
| 29  | R54260   | SCREW               | 2   |            |                                     |
| 30  | T11882   | STRAP               | 1   |            |                                     |

(K) KIT AR63029

**FUEL INJECTION PUMP TRANSFER GROUP (4239T)**  
**(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

T44231

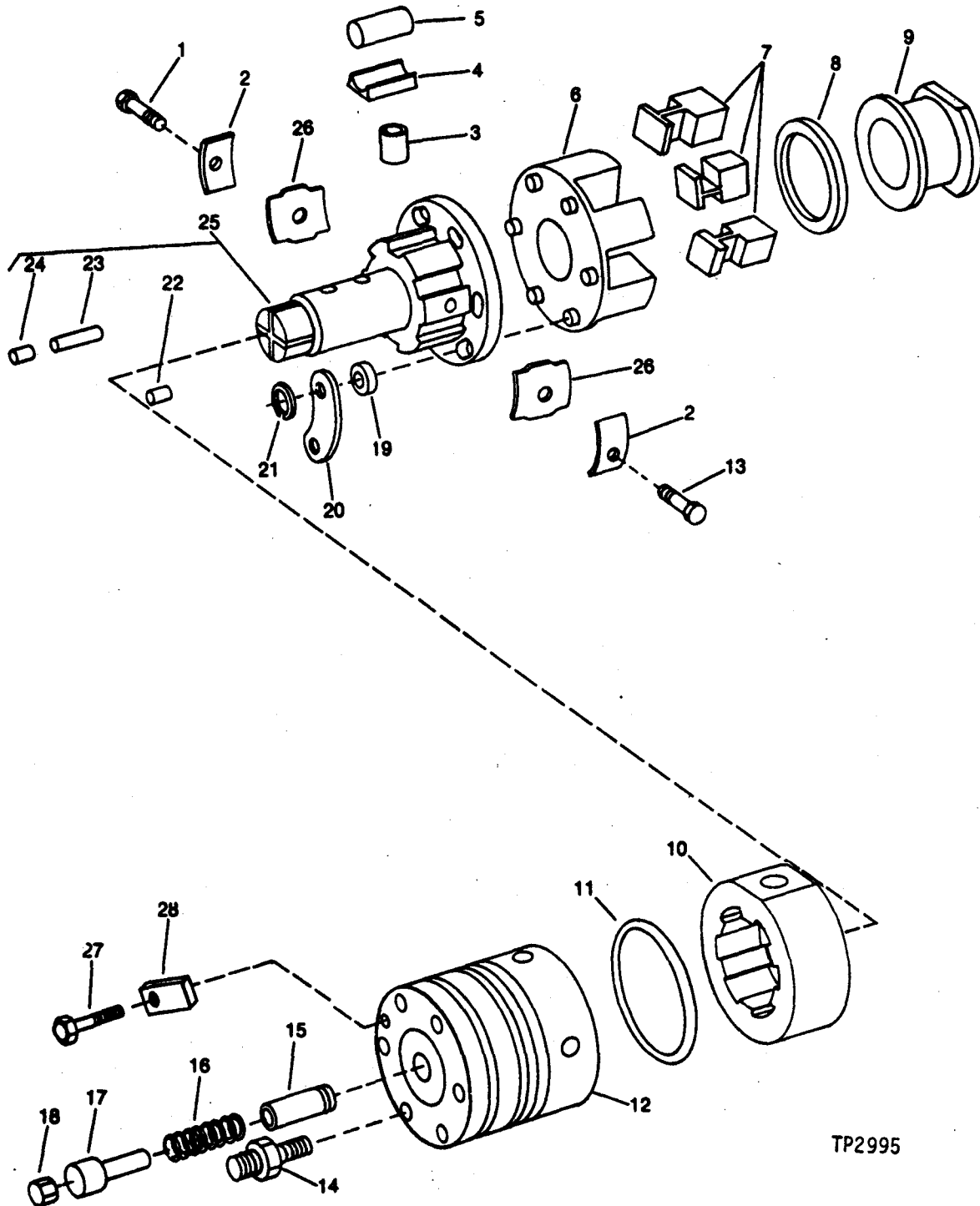


| KEY | PART NO. | PART NAME    | QTY | SERIAL NO. | REMARKS                             |
|-----|----------|--------------|-----|------------|-------------------------------------|
| 1   | AR61995  | REGULATOR    | 1   |            |                                     |
| 2   | R54231   | WASHER       | 1   |            | (K)                                 |
| 3   | R54226   | SPRING PIN   | 1   |            |                                     |
| 4   | R61122   | BACK-UP RING | 1   |            |                                     |
| 5   | R34630   | SPRING       | 2   |            |                                     |
| 6   | AR73828  | KIT          | 4   |            | TRANSFER PUMP, WITH SPRING STANDARD |
|     | AR73829  | KIT          | 4   |            | TRANSFER PUMP, WITH SPRING OVERSIZE |
| 7   | R54244   | LINING       | 1   |            |                                     |
| 8   | R61121   | RETAINER     | 2   |            |                                     |
| 9   | R61124   | O-RING       | 1   |            | (K)                                 |
| 10  | R54222   | WASHER       | 1   |            | (K) INLET FILTER SCREEN             |
| 11  | R54253   | PISTON       | 1   |            |                                     |
| 12  | R54237   | SPRING       | 1   |            |                                     |
| 13  | R34623   | PLUG         | 1   |            |                                     |
| 14  | R61119   | SNAP RING    | 1   |            |                                     |
| 15  | R61118   | FUEL FILTER  | 1   |            |                                     |
| 16  | R61120   | WASHER       | 1   |            |                                     |
| 17  | R61123   | CAP          | 1   |            |                                     |

(K) KIT AR63029

**FUEL INJECTION PUMP HEAD AND ROTOR GROUP (4239T)**  
**(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

TP2995



TP2995

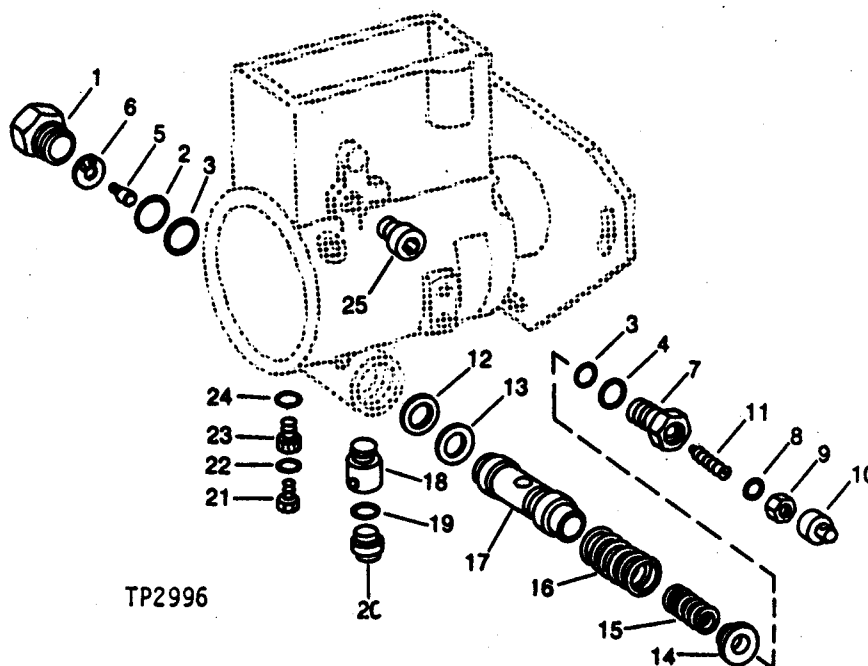
**FUEL INJECTION PUMP HEAD AND ROTOR GROUP (4239T)-CONTINUED**  
**(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

| KEY | PART NO. | PART NAME               | QTY | SERIAL NO. | REMARKS                       |
|-----|----------|-------------------------|-----|------------|-------------------------------|
| 1   | R48509   | SCREW                   | 1   |            |                               |
|     | R48506   | SCREW                   | 1   |            | (POLISHED HEAD)               |
| 2   | R58628   | SUPPORT                 | 2   |            | LEAF SPRING                   |
| 3   | R57800   | PLUNGER                 | 2   |            | (ROTOR A) 12 MM (15/32") LONG |
|     | R62133   | PLUNGER                 | 2   |            | (ROTOR A) 8 MM (5/16") LONG   |
|     | R57801   | PLUNGER                 | 2   |            | (ROTOR B) 15/32" (12 MM) LONG |
|     | R62134   | PLUNGER                 | 2   |            | (ROTOR B) 8 MM (5/16") LONG   |
|     | R57802   | PLUNGER                 | 2   |            | (ROTOR C) 15/32" (12 MM) LONG |
|     | R62135   | PLUNGER                 | 2   |            | (ROTOR C) 8 MM (5/16") LONG   |
|     | R57803   | PLUNGER                 | 2   |            | (ROTOR D) 12 MM (15/32") LONG |
|     | R62136   | PLUNGER                 | 2   |            | (ROTOR D) 8 MM (5/16") LONG   |
| 4   | R58630   | SHOE                    | 4   |            | (PREFERRED)                   |
|     | R48504   | SHOE                    | AR  |            | (-5)                          |
|     | R66832   | SHOE                    | AR  |            | (®5)                          |
| 5   | T11886   | NEEDLE ROLLER           | 4   |            |                               |
| 6   | AR61993  | RETAINER                | 1   |            |                               |
| 7   | R54239   | WEIGHT                  | 6   |            |                               |
| 8   | R54240   | THRUST WASHER           | 1   |            |                               |
| 9   | R65681   | SLEEVE                  | 1   |            |                               |
| 10  | R58629   | RING                    | 1   |            |                               |
| 11  | T11891   | O-RING                  | 1   |            | (K)                           |
| 12  | .....    | CYLINDER HEAD           | 1   |            | (SUB AR86999)                 |
| 13  | R48506   | SCREW                   | 1   |            | (POLISHED HEAD)               |
|     | R48509   | SCREW                   | 1   |            |                               |
| 14  | R57137   | FITTING                 | 4   |            | FUEL LINE                     |
| 15  | R57798   | VALVE                   | 1   |            | DELIVERY, STANDARD SIZE       |
|     | R58077   | VALVE                   | 1   |            | DELIVERY, OVERSIZE            |
| 16  | R57799   | SPRING                  | 1   |            |                               |
| 17  | R57810   | STOP                    | 1   |            |                               |
| 18  | R57809   | SCREW                   | 1   |            |                               |
| 19  | R54249   | CUSHION                 | 6   |            |                               |
| 20  | R54252   | RETAINER                | 3   |            |                               |
| 21  | R54242   | SNAP RING               | 6   |            | (K)                           |
| 22  | T11926   | SET SCREW               | 1   |            |                               |
| 23  | R54626   | DOWEL PIN               | 1   |            |                               |
|     | R63975   | DOWEL PIN               | 1   |            |                               |
| 24  | R30725   | SET SCREW               | 1   |            |                               |
| 25  | AR86999  | HYDRAULIC CYLINDER HEAD | 1   |            |                               |
| 26  | R61713   | LEAF SPRING             | 2   |            |                               |
| 27  | R54261   | SCREW                   | 1   |            |                               |
| 28  | R67446   | WASHER                  | 1   |            |                               |

(K) KIT AR63029

**FUEL INJECTION PUMP AUTOMATIC ADVANCE GROUP (4239T)  
(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)  
CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

TP2996



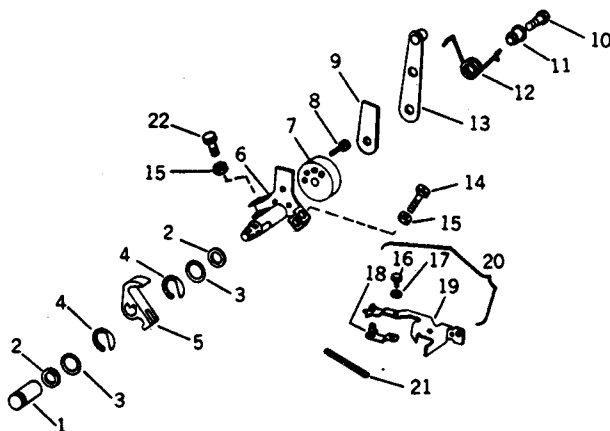
TP2996

| KEY | PART NO. | PART NAME | QTY | SERIAL NO. | REMARKS                       |
|-----|----------|-----------|-----|------------|-------------------------------|
| 1   | R69088   | PLUG      | 1   |            |                               |
| 2   | R56396   | O-RING    | 1   | (K)        |                               |
| 3   | T15710   | O-RING    | 2   | (K)        |                               |
| 4   | T17135   | O-RING    | 1   | (K)        |                               |
| 5   | R54224   | SCREW     | 2   |            |                               |
| 6   | R56484   | VALVE     | 1   |            |                               |
| 7   | R40709   | PLUG      | 1   |            |                               |
| 8   | T11915   | O-RING    | 1   | (K)        |                               |
| 9   | T17122   | NUT       | 1   |            |                               |
| 10  | T17117   | CAP       | 1   |            |                               |
| 11  | T17123   | SET SCREW | 1   |            |                               |
| 12  | R49211   | WASHER    | 1   |            |                               |
| 13  | R34635   | WASHER    | 1   | (K)        |                               |
| 14  | T17125   | GUIDE     | 1   |            |                               |
| 15  | R67058   | SPRING    | 1   |            | INNER ADVANCE (COLORED RED)   |
| 16  | T24413   | SPRING    | 1   |            | OUTER ADVANCE (COLORED BLACK) |
| 17  | R60715   | PISTON    | 1   |            | ADVANCE                       |
| 18  | R40703   | PIN       | 1   |            | ADVANCE                       |
| 19  | T15712   | O-RING    | 1   | (K)        |                               |
| 20  | R40707   | PLUG      | 1   |            |                               |
| 21  | R54254   | SCREW     | 1   |            |                               |
| 22  | T17951   | O-RING    | 1   | (K)        |                               |
| 23  | R54251   | SCREW     | 1   |            |                               |
| 24  | T11899   | O-RING    | 1   | (K)        |                               |
| 25  | R54627   | SCREW     | 2   |            |                               |

(K) KIT AR63029

**FUEL INJECTION PUMP LINKAGE GROUP (4239T)**  
**(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

T48922



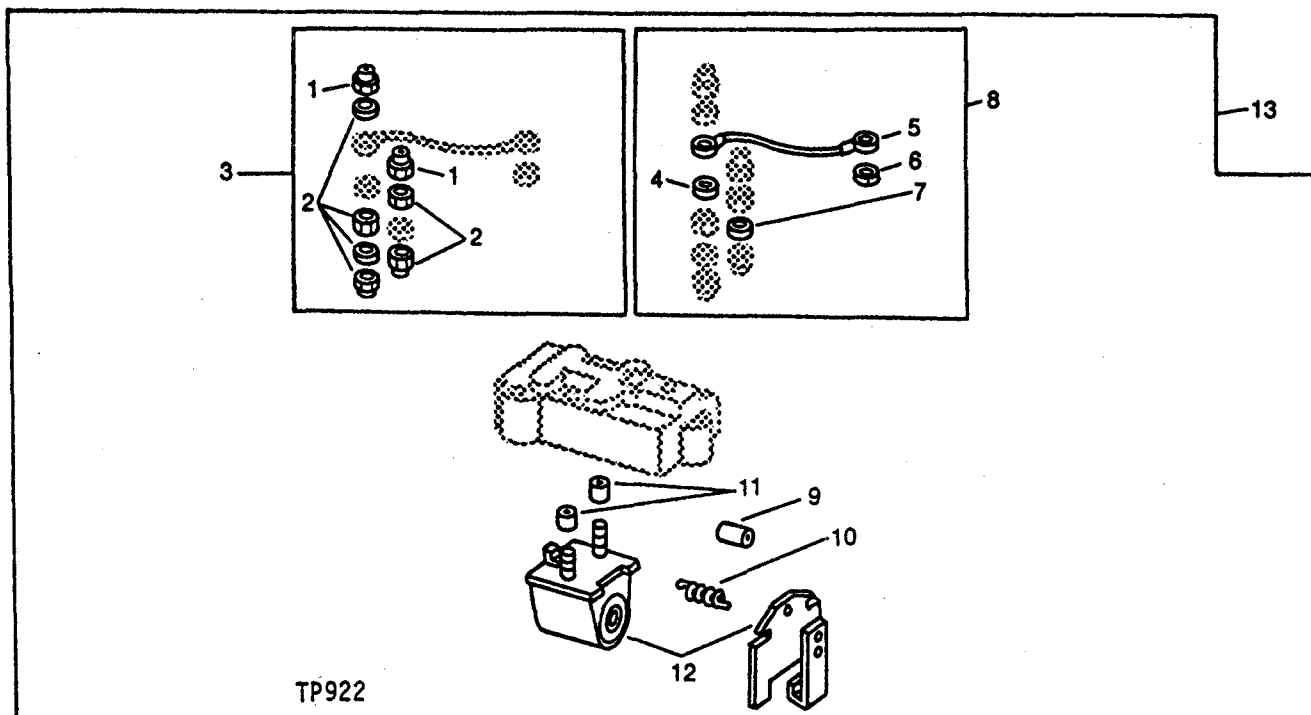
T48922F

| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS                                |
|-----|----------|-------------|-----|------------|----------------------------------------|
| 1   | R59079   | SHAFT       | 1   |            |                                        |
| 2   | T15720   | WASHER      | 2   |            | (K)                                    |
| 3   | R76578   | O-RING      | 2   |            | (K) (SUB FOR T11915, THIS APPLICATION) |
| 4   | T11929   | CLIP        | 2   |            |                                        |
| 5   | T11927   | LEVER       | 1   |            |                                        |
| 6   | AR71186  | SHAFT       | 1   |            |                                        |
| 7   | T19861   | SPACER      | 1   |            |                                        |
| 8   | T11917   | SCREW       | 2   |            |                                        |
| 9   | T19860   | STRAP       | 1   |            |                                        |
| 10  | T19859   | SCREW       | 1   |            |                                        |
| 11  | T17950   | RETAINER    | 1   |            |                                        |
| 12  | T17949   | SPRING      | 1   |            |                                        |
| 13  | T19858   | LEVER       | 1   |            |                                        |
| 14  | T11941   | SCREW       | 1   |            | HIGH IDLE ADJUSTING                    |
| 15  | T11921   | NUT         | 2   |            |                                        |
| 16  | R30718   | SCREW       | 1   |            |                                        |
| 17  | R30719   | LOCK WASHER | 1   |            |                                        |
| 18  | AR73612  | LINK        | 1   |            |                                        |
| 19  | R48516   | HOOK        | 1   |            |                                        |
| 20  | AR73614  | HOOK        | 1   |            |                                        |
| 21  | T11911   | SPRING      | 1   |            |                                        |
| 22  | T11941   | SCREW       | 1   |            | LOW IDLE ADJUSTING                     |

(K) KIT AR63029

**FUEL INJECTION PUMP ELECTRIC SHUT-OFF GROUP (4239T)**  
**(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

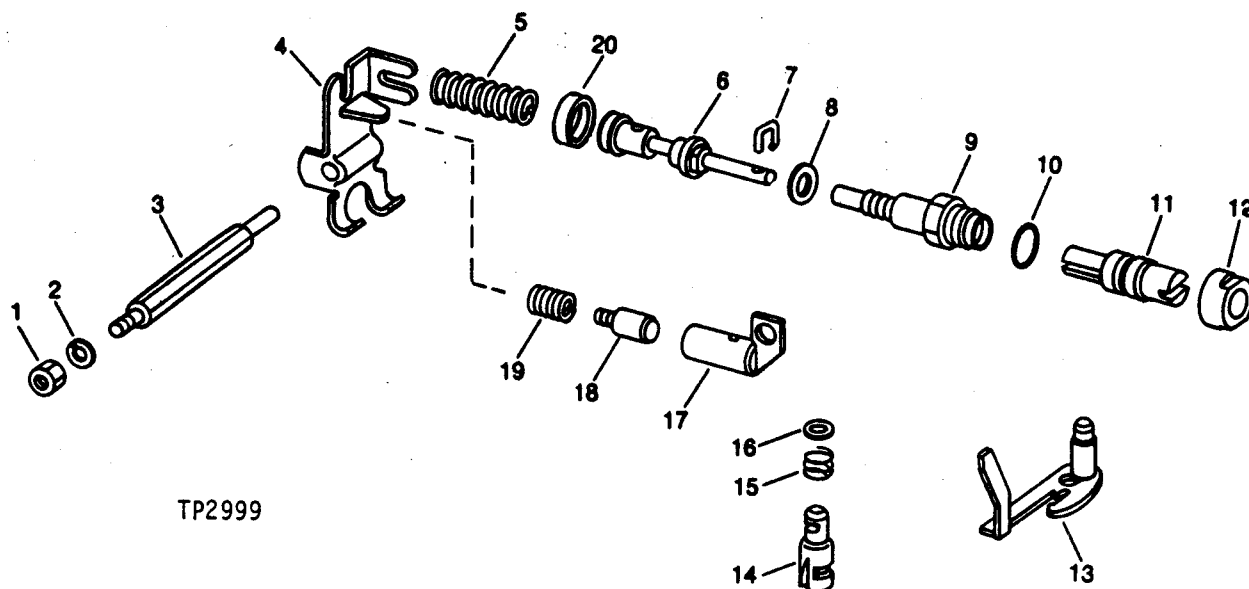
TP922



| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS         |
|-----|----------|-------------|-----|------------|-----------------|
| 1   | T19977   | LOCK NUT    | 2   |            |                 |
| 2   | .....    | WASHER      | 1   |            | (SUB AR90601)   |
| 3   | AR90601  | KIT         | 1   |            | NUT AND WASHER  |
| 4   | R47077   | LOCK WASHER | 1   |            |                 |
| 5   | .....    | STRAP       | 1   |            | (SUB AR50874)   |
| 6   | 12H295   | LOCK WASHER | 1   |            | NO. 10          |
| 7   | .....    | STRAP       | 1   |            | (SUB AR50874)   |
| 8   | AR50874  | KIT         | 1   |            | GROUNDING STRAP |
| 9   | R48795   | SLEEVE      | 1   |            |                 |
| 10  | T11935   | SPRING      | 1   |            |                 |
| 11  | T11937   | INSULATOR   | 2   |            |                 |
| 12  | .....    | HOUSING     | 1   |            | (SUB AR90340)   |
| 13  | AR90342  | KIT         | 1   |            | SHUT-OFF        |

**FUEL INJECTION PUMP GOVERNOR (4239T)**  
**(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

TP2999



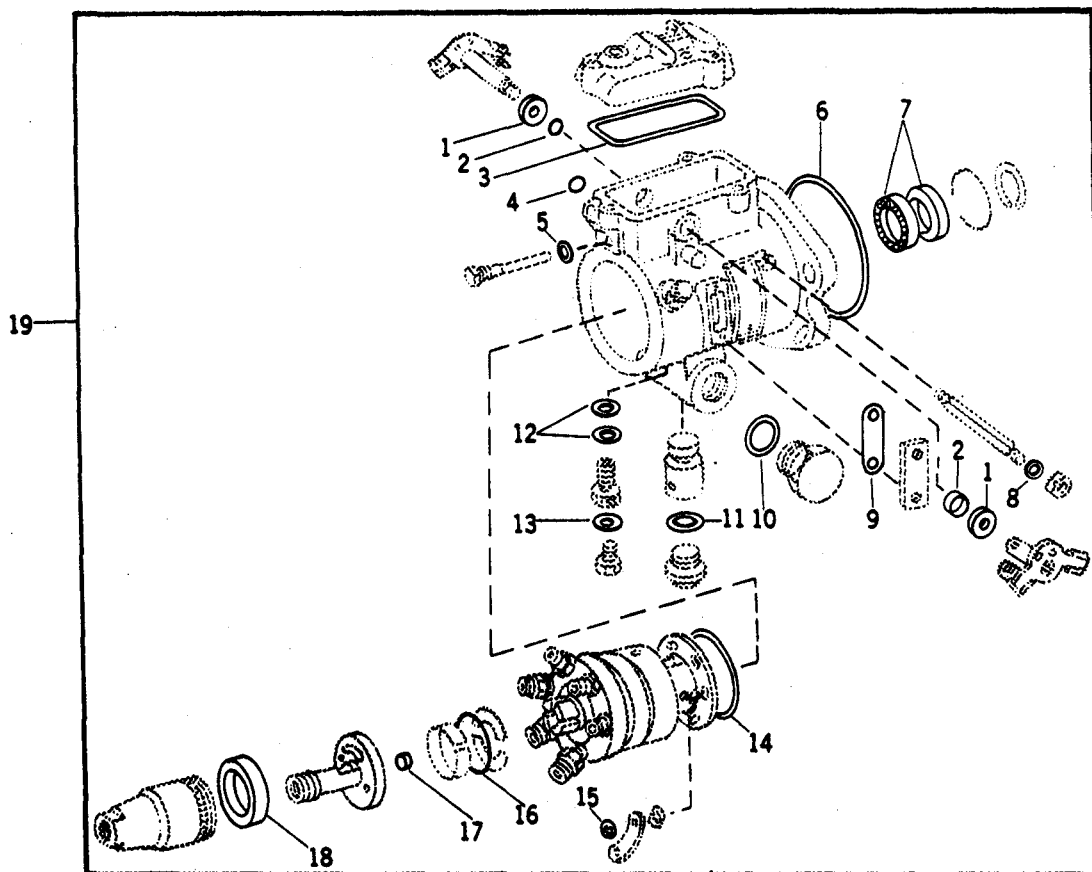
TP2999

| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS                            |
|-----|----------|-------------|-----|------------|------------------------------------|
| 1   | T11932   | NUT         | 2   |            |                                    |
| 2   | R34812   | O-RING      | 2   |            | (K)                                |
| 3   | T11925   | SHAFT       | 1   |            |                                    |
| 4   | AR80910  | ARM         | 1   |            |                                    |
| 5   | R67057   | SPRING      | 1   |            |                                    |
| 6   | AR73607  | ROD         | 1   |            |                                    |
| 7   | R57871   | PIN         | 1   |            |                                    |
| 8   | T11943   | WASHER      | 1   |            | (K)                                |
| 9   | R74933   | GUIDE       | 1   |            | (SUB FOR R60711, THIS APPLICATION) |
| 10  | T26256   | O-RING      | 1   |            |                                    |
| 11  | AR73608  | CAP         | 1   |            |                                    |
| 12  | R60713   | CAP         | 1   |            |                                    |
| 13  | AR30736  | ARM         | 1   |            |                                    |
| 14  | R67229   | CHECK VALVE | 1   |            |                                    |
| 15  | R58422   | SPRING      | 1   |            |                                    |
| 16  | R30732   | SHIM        | 1   |            |                                    |
| 17  | AR73611  | BARREL      | 1   |            |                                    |
| 18  | AR73610  | PISTON      | 1   |            |                                    |
| 19  | R64567   | SPRING      | 1   |            |                                    |
| 20  | T17952   | WASHER      | 1   |            |                                    |

(K) KIT AR63029

**FUEL INJECTION PUMP GASKET OVERHAUL KIT (4239T)**  
**(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

RG1828



RG1828

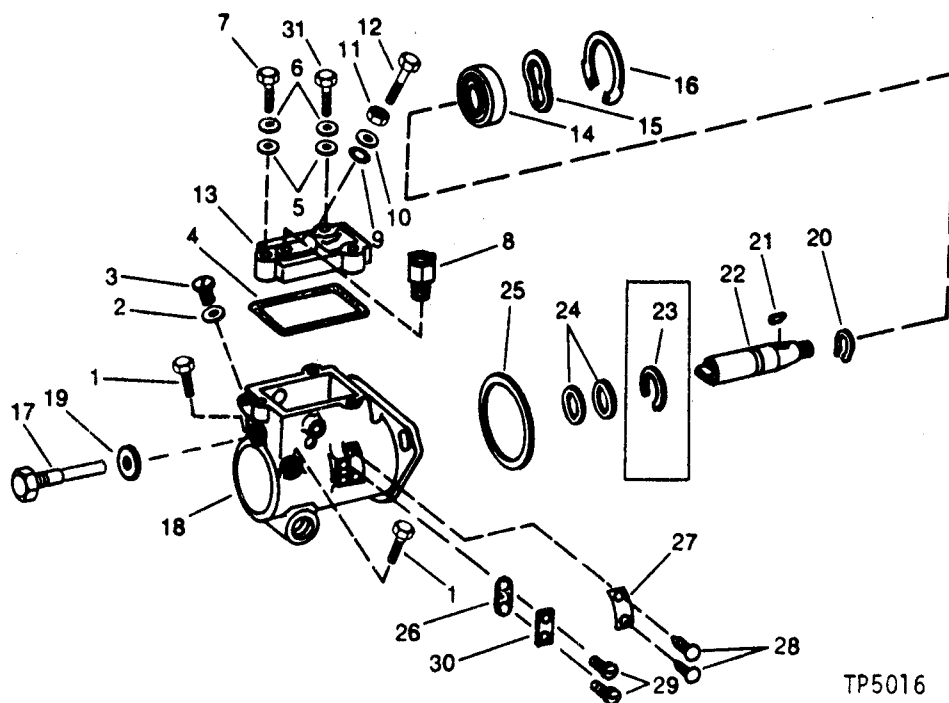
THIS PARTS LISTING IS CONTINUED

**FUEL INJECTION PUMP GASKET OVERHAUL KIT (4239T)-CONTINUED**  
**(ROOSA-MASTER NOS. DM4427HB3224 AND DM4427HB3986)**  
**CODE 1603 FUEL INJECTION SYSTEM, 3 PERCENT - 5 PERCENT GOVERNOR**

| KEY | PART NO. | PART NAME  | QTY | ENGINE<br>SERIAL NO. | REMARKS                                                       |
|-----|----------|------------|-----|----------------------|---------------------------------------------------------------|
| 1   | T15720   | WASHER     | 2   |                      | THROTTLE SHAFT                                                |
| 2   | T11915   | O-RING     | 2   |                      |                                                               |
|     | R76578   | O-RING     | 2   |                      | THROTTLE SHAFT (SUB FOR T11915, THIS<br>APPLICATION)<br>COVER |
| 3   | T11918   | WASHER     | 1   |                      |                                                               |
| 4   | T11878   | WASHER     | 1   |                      |                                                               |
| 5   | T11943   | WASHER     | 1   |                      | GUIDE STUD                                                    |
| 6   | R54229   | WASHER     | 1   |                      | PUMP FLANGE                                                   |
| 7   | AR72052  | SEAL       | 2   |                      | DRIVE SHAFT                                                   |
| 8   | R34812   | O-RING     | 2   |                      | PIVOT SHAFT                                                   |
| 9   | T11883   | GASKET     | 1   |                      | TIMING LINE COVER                                             |
| 10  | T17135   | O-RING     | 1   |                      | HOLE PLUG                                                     |
| 11  | T15712   | O-RING     | 1   |                      | ADVANCE PLUG                                                  |
| 12  | T11899   | O-RING     | 1   |                      | HEAD LOCATING SCREW                                           |
| 13  | T17951   | O-RING     | 1   |                      |                                                               |
| 14  | T11891   | O-RING     | 1   |                      | HEAD                                                          |
| 15  | R54242   | SNAP RING  | 6   |                      |                                                               |
| 16  | R61124   | O-RING     | 1   |                      | TRANSFER PUMP                                                 |
| 17  | R54231   | WASHER     | 1   |                      | TRANSFER PUMP REGULATING SLEEVE                               |
| 18  | R54222   | WASHER     | 1   |                      | INLET FILTER SCREEN                                           |
| 19  | AR63029  | GASKET KIT | 1   |                      | GASKET OVERHAUL                                               |

**FUEL INJECTION PUMP HOUSING AND DRIVE GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427NW3262)**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP5016



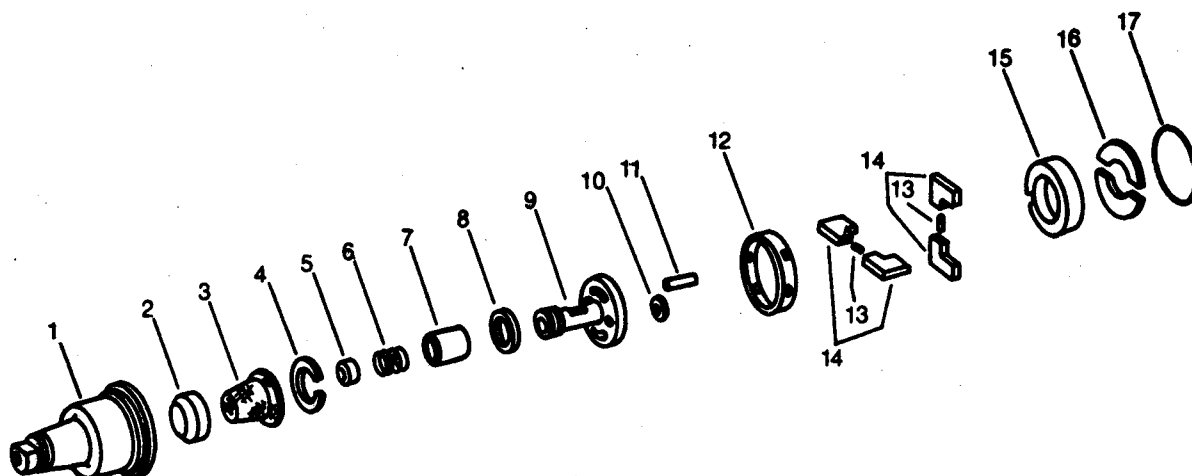
TP5016

| KEY | PART NO. | PART NAME           | QTY | SERIAL NO. | REMARKS                |
|-----|----------|---------------------|-----|------------|------------------------|
| 1   | R30714   | BOLT                | 2   |            |                        |
| 2   | T11930   | SCREW               | 1   |            |                        |
| 3   | T11878   | WASHER              | 1   |            |                        |
| 4   | T11918   | WASHER              | 1   |            | (K)                    |
| 5   | T15715   | WASHER              | 3   |            |                        |
| 6   | 12H295   | LOCK WASHER         | 3   |            | INTERNAL-TOOTH, NO. 10 |
| 7   | T15721   | SCREW               | 1   |            |                        |
| 8   | R36535   | CHECK VALVE         | 1   |            |                        |
| 9   | T17951   | O-RING              | 1   |            | (K)                    |
| 10  | T17947   | WASHER              | 1   |            |                        |
| 11  | T11921   | NUT                 | 1   |            |                        |
| 12  | T17953   | CAP SCREW           | 1   |            | LOW IDLE ADJUSTMENT    |
| 13  | R37139   | COVER               | 1   |            |                        |
| 14  | AR69427  | BALL BEARING        | 1   |            |                        |
| 15  | R54235   | WASHER              | 1   |            |                        |
| 16  | R54230   | RING                | 1   |            |                        |
| 17  | T11923   | STUD                | 1   |            |                        |
| 18  | AR93426  | HOUSING             | 1   |            |                        |
| 19  | T11943   | WASHER              | 1   |            |                        |
| 20  | R57796   | SNAP RING           | 1   |            |                        |
| 21  | R56424   | SHAFT KEY           | 1   |            |                        |
| 22  | R57797   | DRIVE SHAFT         | 1   |            |                        |
| 23  | R54225   | RING                | 1   |            | (NO LONGER AVAILABLE)  |
| 24  | AR72052  | SEAL                | 2   |            | (K)                    |
| 25  | R54229   | WASHER              | 1   |            | (K)                    |
| 26  | T11883   | GASKET              | 1   |            | (K)                    |
| 27  | T11875   | SERIAL NUMBER PLATE | 1   |            |                        |
| 28  | T11876   | SCREW               | 2   |            |                        |
| 29  | R54260   | SCREW               | 2   |            |                        |
| 30  | T11882   | STRAP               | 1   |            |                        |
| 31  | R71851   | SCREW               | 2   |            |                        |

(K) KIT AR63029

**FUEL INJECTION PUMP TRANSFER GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427NW3262)**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP1622



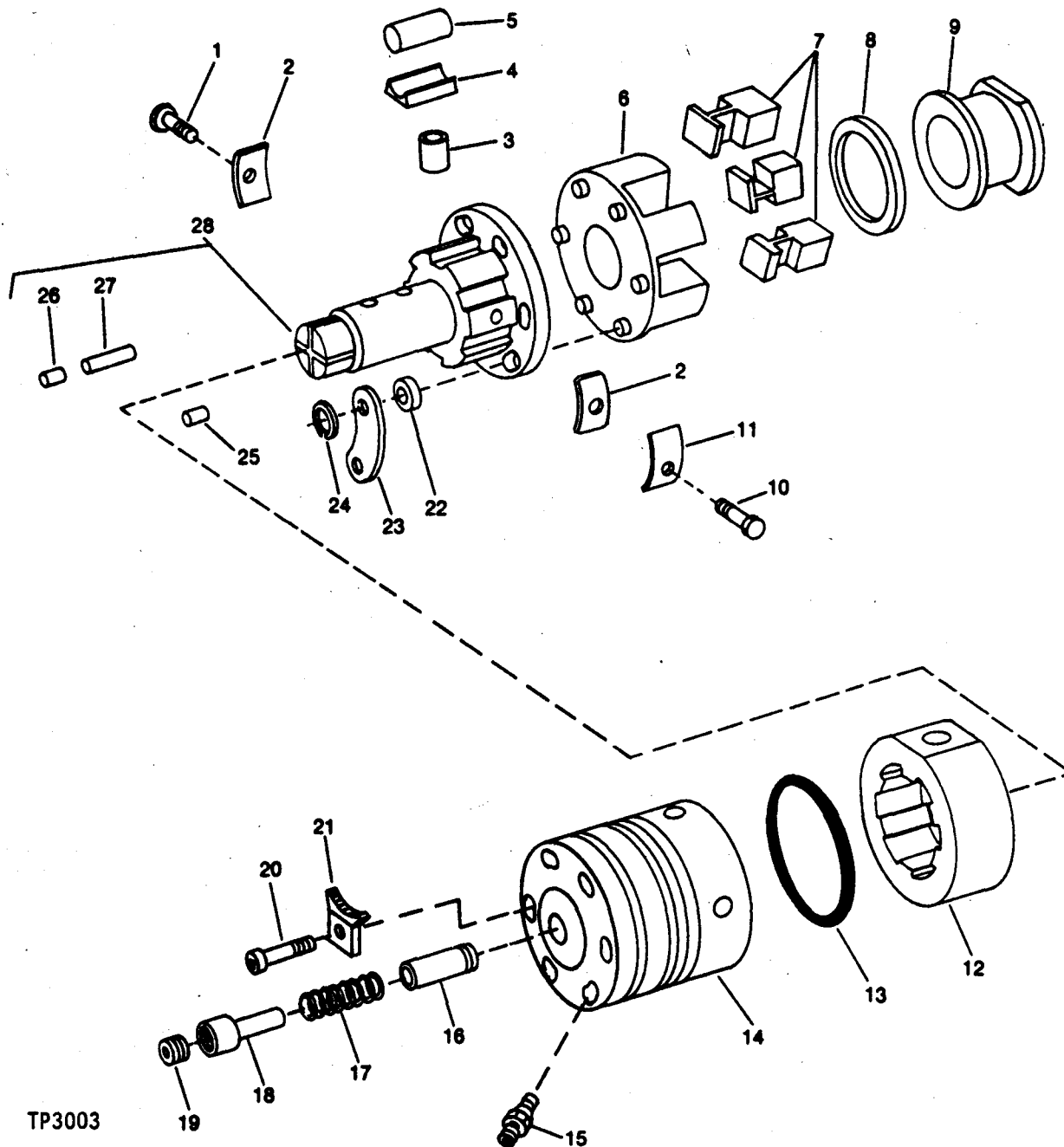
TP1622

| KEY | PART NO. | PART NAME    | QTY | SERIAL NO. | REMARKS                                     |
|-----|----------|--------------|-----|------------|---------------------------------------------|
| 1   | R61123   | CAP          | 1   |            |                                             |
| 2   | R61120   | WASHER       | 1   |            |                                             |
| 3   | R61118   | FUEL FILTER  | 1   |            |                                             |
| 4   | R61119   | SNAP RING    | 1   |            |                                             |
| 5   | R34623   | PLUG         | 1   |            |                                             |
| 6   | R54237   | SPRING       | 1   |            |                                             |
| 7   | R54253   | PISTON       | 1   |            |                                             |
| 8   | R54222   | WASHER       | 1   | (K)        |                                             |
| 9   | AR61995  | REGULATOR    | 1   |            |                                             |
| 10  | R54231   | WASHER       | 1   | (K)        |                                             |
| 11  | R54226   | SPRING PIN   | 1   |            |                                             |
| 12  | R61122   | BACK-UP RING | 1   |            |                                             |
| 13  | R34630   | SPRING       | 2   |            |                                             |
| 14  | AR73828  | KIT          | 1   |            | BLADE TRANSFER PUMP WITH SPRINGS (STANDARD) |
|     | AR73829  | KIT          | 1   |            | BLADE TRANSFER PUMP WITH SPRINGS (OVERSIZE) |
| 15  | R54244   | LINING       | 1   |            |                                             |
| 16  | R61121   | RETAINER     | 2   |            |                                             |
| 17  | R61124   | O-RING       | 1   | (K)        |                                             |

(K) KIT AR63029

FUEL INJECTION PUMP HEAD AND ROTOR GROUP (4239T)  
 (ROOSA-MASTER NO. DM4427NW3262)  
 CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR

TP3003



TP3003

THIS PARTS LISTING IS CONTINUED

**FUEL INJECTION PUMP HEAD AND ROTOR GROUP (4239T)-CONTINUED**  
**(ROOSA-MASTER NO. DM4427NW3262)**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

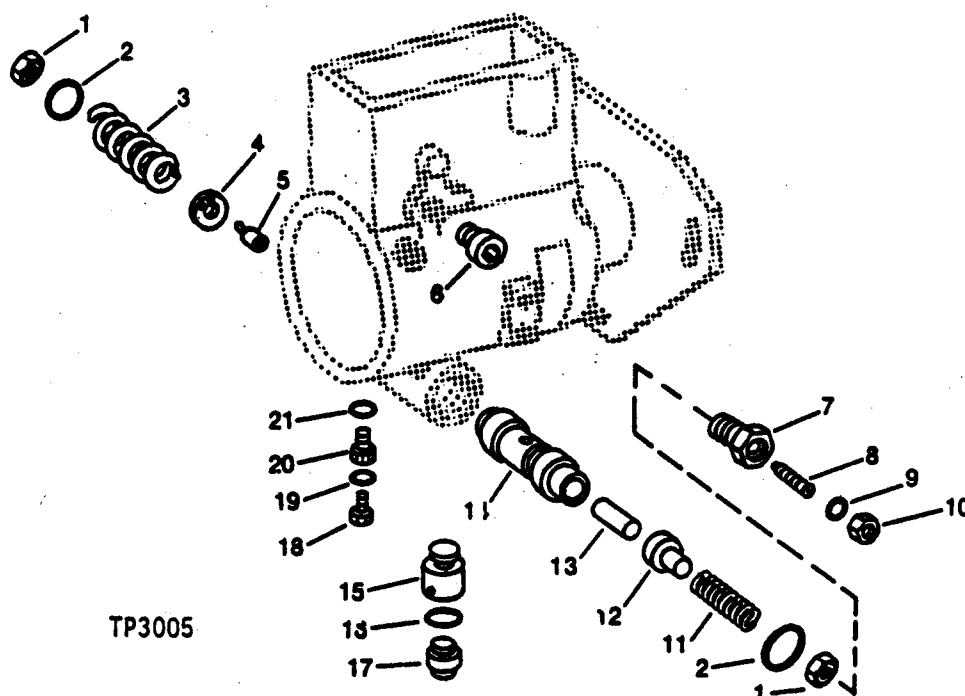
| KEY | PART NO. | PART NAME               | QTY | SERIAL NO. | REMARKS             |
|-----|----------|-------------------------|-----|------------|---------------------|
| 1   | R48506   | SCREW                   | 1   |            |                     |
| 2   | R61713   | LEAF SPRING             | 2   |            |                     |
| 3   | R57800   | PLUNGER                 | 2   |            | (PLUNGER A) (LONG)  |
|     | R57801   | PLUNGER                 | 2   |            | (PLUNGER B) (LONG)  |
|     | R57802   | PLUNGER                 | 2   |            | (PLUNGER C) (LONG)  |
|     | R57803   | PLUNGER                 | 2   |            | (PLUNGER D) (LONG)  |
|     | R62133   | PLUNGER                 | 2   |            | (PLUNGER A) (SHORT) |
|     | R62134   | PLUNGER                 | 2   |            | (PLUNGER B) (SHORT) |
|     | R62135   | PLUNGER                 | 2   |            | (PLUNGER C) (SHORT) |
|     | R62136   | PLUNGER                 | 2   |            | (PLUNGER D) (SHORT) |
| 4   | R58630   | SHOE                    | 4   |            | (PREFERRED)         |
|     | R48504   | SHOE                    | AR  |            |                     |
| 5   | T11886   | NEEDLE ROLLER           | 4   |            |                     |
| 6   | AR61993  | RETAINER                | 1   |            |                     |
| 7   | R54239   | WEIGHT                  | 6   |            |                     |
| 8   | R54240   | THRUST WASHER           | 1   |            |                     |
| 9   | R65681   | SLEEVE                  | 1   |            | (A)                 |
|     | R74314   | SLEEVE                  | 1   |            | (A)                 |
| 10  | R48509   | SCREW                   | 1   |            |                     |
| 11  | R58628   | SUPPORT                 | 1   |            |                     |
| 12  | R58629   | RING                    | 1   |            |                     |
| 13  | T11891   | O-RING                  | 1   |            | (K)                 |
| 14  | .....    | CYLINDER HEAD           | 1   |            | (SUB AR93425)       |
| 15  | R57137   | FITTING                 | 6   |            |                     |
| 16  | R57798   | VALVE                   | 1   |            |                     |
|     | R58077   | VALVE                   | 1   |            |                     |
| 17  | R57799   | SPRING                  | 1   |            |                     |
| 18  | R57809   | SCREW                   | 1   |            |                     |
| 19  | R57810   | STOP                    | 1   |            |                     |
| 20  | R54261   | SCREW                   | 1   |            |                     |
| 21  | R67446   | WASHER                  | 1   |            |                     |
| 22  | R54249   | CUSHION                 | 6   |            |                     |
| 23  | R54252   | RETAINER                | 3   |            |                     |
| 24  | R54242   | SNAP RING               | 6   |            | (K)                 |
| 25  | T11926   | SET SCREW               | 2   |            |                     |
| 26  | R30725   | SET SCREW               | 1   |            |                     |
| 27  | R54626   | DOWEL PIN               | 1   |            |                     |
|     | R63975   | DOWEL PIN               | 1   |            | (BLACK)             |
| 28  | AR93425  | HYDRAULIC CYLINDER HEAD | 1   |            |                     |

(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

(K) KIT AR63029

**FUEL INJECTION PUMP ADVANCE GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427NW3262)**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP3005



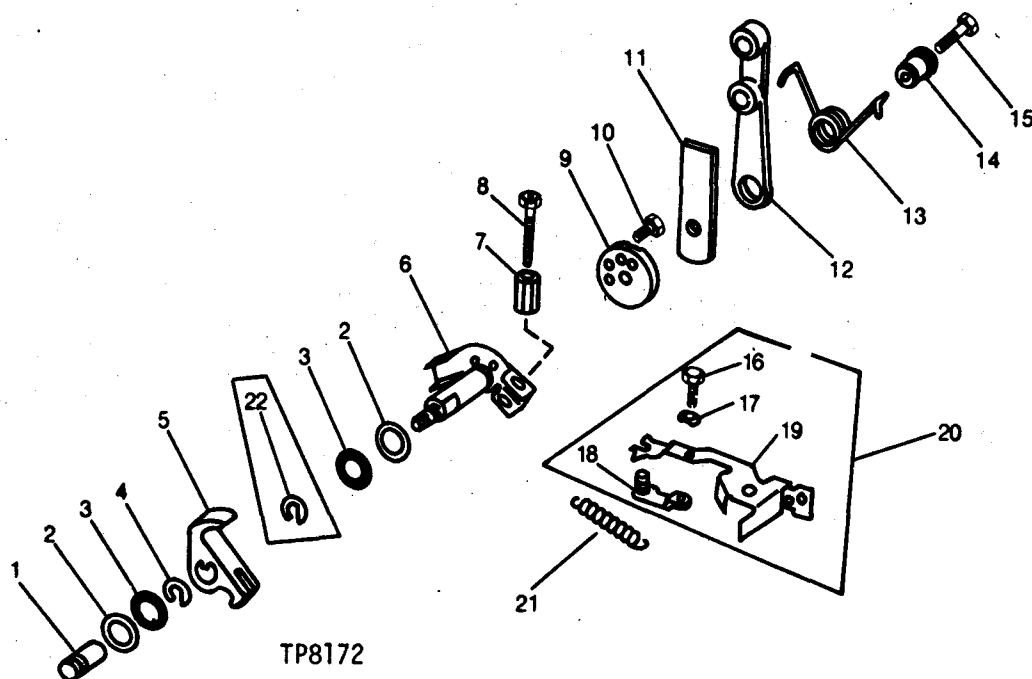
TP3005

| KEY | PART NO. | PART NAME | QTY | SERIAL NO. | REMARKS       |
|-----|----------|-----------|-----|------------|---------------|
| 1   | R68555   | LOCK NUT  | 1   |            |               |
| 2   | R71144   | O-RING    | 2   |            |               |
| 3   | R65681   | SLEEVE    | 1   |            |               |
| 4   | R66599   | VALVE     | 1   |            |               |
| 5   | R54224   | SCREW     | 1   |            |               |
| 6   | R54627   | SCREW     | 1   |            |               |
| 7   | R71146   | PLUG      | 1   |            |               |
| 8   | R71145   | SCREW     | 1   |            |               |
| 9   | R68556   | O-RING    | 1   |            |               |
| 10  | R68557   | LOCK NUT  | 1   |            |               |
| 11  | R71143   | SPRING    | 1   |            | INNER ADVANCE |
| 12  | R66601   | GUIDE     | 1   |            |               |
| 13  | R66600   | GUIDE     | 1   |            |               |
| 14  | R66609   | PISTON    | 1   |            | ADVANCE       |
| 15  | R66610   | PIN       | 1   |            |               |
| 16  | T15712   | O-RING    | 1   |            | (K)           |
| 17  | R40707   | PLUG      | 1   |            |               |
| 18  | R54254   | SCREW     | 1   |            |               |
| 19  | T17951   | O-RING    | 1   |            | (K)           |
| 20  | R54251   | SCREW     | 1   |            |               |
| 21  | T11899   | O-RING    | 1   |            |               |

(K) KIT AR63029

**FUEL INJECTION PUMP LINKAGE GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427NW3262)**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP8172

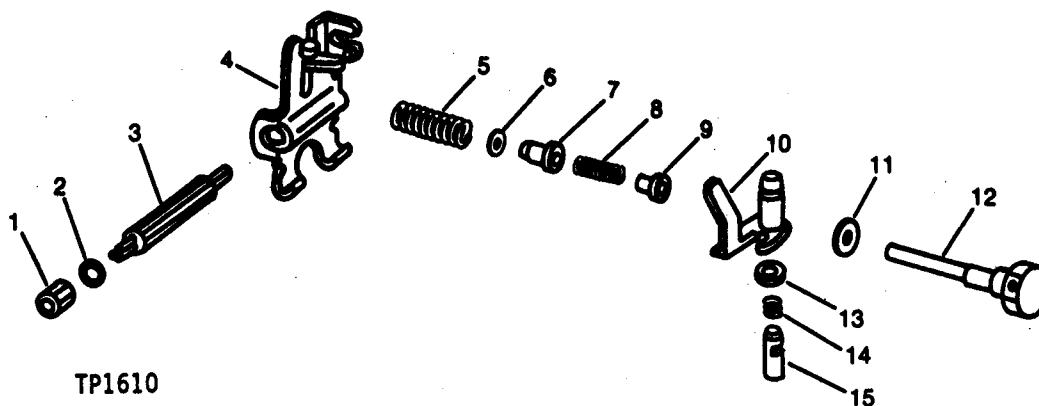


| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS                                |
|-----|----------|-------------|-----|------------|----------------------------------------|
| 1   | R59079   | SHAFT       | 1   |            |                                        |
| 2   | T15720   | WASHER      | 2   |            | (K)                                    |
| 3   | R76578   | O-RING      | 2   |            | (K) (SUB FOR T11915, THIS APPLICATION) |
| 4   | T11929   | CLIP        | 1   |            |                                        |
| 5   | T11927   | LEVER       | 1   |            |                                        |
| 6   | R36542   | SHAFT       | 1   |            |                                        |
| 7   | T19862   | NUT         | 1   |            |                                        |
| 8   | T11920   | SCREW       | 1   |            | HIGH IDLE                              |
| 9   | T19861   | SPACER      | 1   |            |                                        |
| 10  | T11917   | SCREW       | 1   |            |                                        |
| 11  | T19860   | STRAP       | 1   |            |                                        |
| 12  | T19858   | LEVER       | 1   |            |                                        |
| 13  | T17949   | SPRING      | 1   |            |                                        |
| 14  | T17950   | RETAINER    | 1   |            |                                        |
| 15  | R70513   | SCREW       | 1   |            |                                        |
| 16  | R30718   | SCREW       | 1   |            |                                        |
| 17  | R30719   | LOCK WASHER | 1   |            |                                        |
| 18  | AR28602  | LINK        | 1   |            |                                        |
| 19  | R48516   | HOOK        | 1   |            |                                        |
| 20  | AR51719  | HOOK        | 1   |            |                                        |
| 21  | T11911   | SPRING      | 1   |            |                                        |
| 22  | T11929   | CLIP        | 1   |            |                                        |

(K) KIT AR63029

**FUEL INJECTION PUMP GOVERNOR GROUP (4239T)**  
**(ROOSA-MASTER NO. DM4427NW3262)**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

TP1610



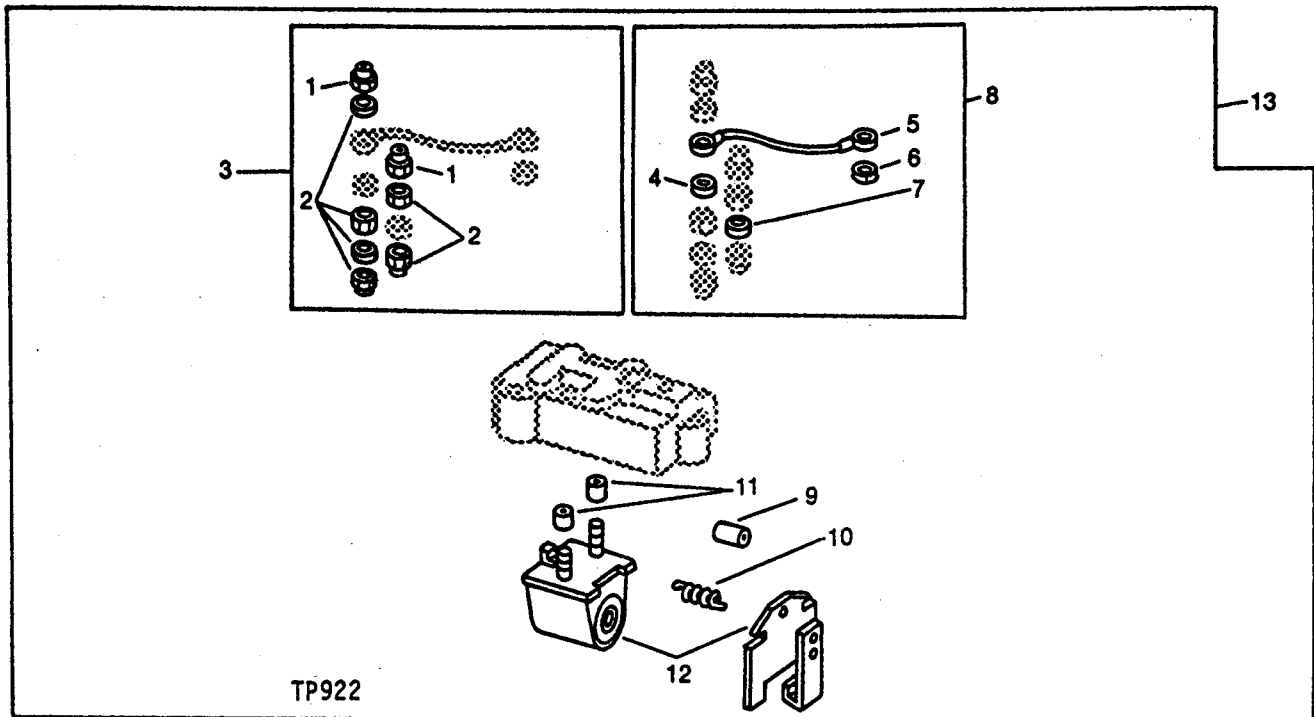
TP1610

| KEY | PART NO. | PART NAME | QTY | SERIAL NO. | REMARKS                             |
|-----|----------|-----------|-----|------------|-------------------------------------|
| 1   | T11932   | NUT       | 2   |            |                                     |
| 2   | R34812   | O-RING    | 2   | (K)        |                                     |
| 3   | T11925   | SHAFT     | 1   |            |                                     |
| 4   | R54245   | ARM       | 1   |            |                                     |
| 5   | T11951   | SPRING    | 1   |            |                                     |
| 6   | T17952   | WASHER    | 1   |            |                                     |
| 7   | T11924   | RETAINER  | 1   |            |                                     |
| 8   | T11913   | SPRING    | 1   |            |                                     |
| 9   | T11914   | GUIDE     | 1   |            |                                     |
| 10  | R74312   | ARM       | 1   |            | (SUB FOR AR30736, THIS APPLICATION) |
| 11  | T11943   | WASHER    | 1   | (K)        |                                     |
| 12  | T11923   | STUD      | 1   |            |                                     |
| 13  | R30732   | SHIM      | 1   |            |                                     |
| 14  | R58422   | SPRING    | 1   |            |                                     |
| 15  | AR91546  | KIT       | 1   |            | (K) METERING VALVE                  |

(K) KIT AR63029

**FUEL INJECTION PUMP ELECTRIC SHUT-OFF KIT (4239T)**  
**(ROOSA-MASTER NO. DM4427NW3262)**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

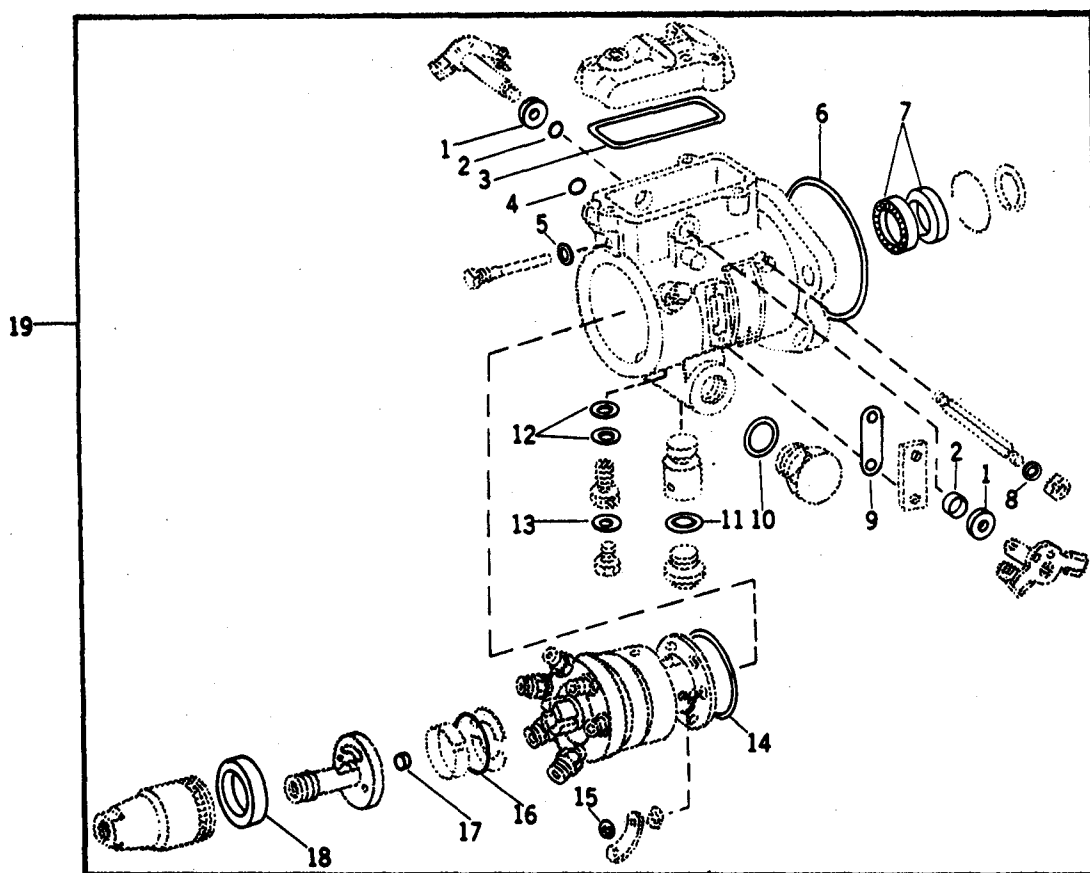
TP922



| KEY | PART NO. | PART NAME   | QTY | SERIAL NO. | REMARKS         |
|-----|----------|-------------|-----|------------|-----------------|
| 1   | T19977   | LOCK NUT    | 2   |            |                 |
| 2   | .....    | WASHER      | 1   |            | (SUB AR90601)   |
| 3   | AR90601  | KIT         | 1   |            | NUT AND WASHER  |
| 4   | R47077   | LOCK WASHER | 1   |            |                 |
| 5   | .....    | STRAP       | 1   |            | (SUB AR50874)   |
| 6   | 12H295   | LOCK WASHER | 1   |            | NO. 10          |
| 7   | .....    | WASHER      | 1   |            | (SUB AR50874)   |
| 8   | AR50874  | KIT         | 1   |            | GROUNDING STRAP |
| 9   | R48795   | SLEEVE      | 1   |            |                 |
| 10  | T11935   | SPRING      | 1   |            |                 |
| 11  | T11937   | INSULATOR   | 2   |            |                 |
| 12  | .....    | HOUSING     | 1   |            | (SUB AR90340)   |
| 13  | AR90340  | KIT         | 1   |            | SHUT-OFF        |

**FUEL INJECTION PUMP GASKET OVERHAUL KIT (4239T)**  
**(ROOSA-MASTER NO. DM4427NW3262)**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

RG1828



RG1828

**FUEL INJECTION PUMP GASKET OVERHAUL KIT (4239T)-CONTINUED**  
**(ROOSA-MASTER NO. DM4427NW3262)**  
**CODE 1609 FUEL INJECTION SYSTEM, REGULAR GOVERNOR**

| KEY | PART NO. | PART NAME  | QTY | ENGINE<br>SERIAL NO. | REMARKS                                           |
|-----|----------|------------|-----|----------------------|---------------------------------------------------|
| 1   | T15720   | WASHER     | 2   |                      | THROTTLE SHAFT                                    |
| 2   | T11915   | O-RING     | 2   |                      |                                                   |
|     | R76578   | O-RING     | 2   |                      | THROTTLE SHAFT (SUB FOR T11915, THIS APPLICATION) |
| 3   | T11918   | WASHER     | 1   |                      |                                                   |
| 4   | T11878   | WASHER     | 1   |                      |                                                   |
| 5   | T11943   | WASHER     | 1   |                      | GUIDE STUD                                        |
| 6   | R54229   | WASHER     | 1   |                      | PUMP FLANGE                                       |
| 7   | AR72052  | SEAL       | 2   |                      | DRIVE SHAFT                                       |
| 8   | R34812   | O-RING     | 2   |                      | PIVOT SHAFT                                       |
| 9   | T11883   | GASKET     | 1   |                      | TIMING LINE COVER                                 |
| 10  | T17135   | O-RING     | 1   |                      | HOLE PLUG                                         |
| 11  | T15712   | O-RING     | 1   |                      | ADVANCE PLUG                                      |
| 12  | T11899   | O-RING     | 1   |                      |                                                   |
| 13  | T17951   | O-RING     | 1   |                      |                                                   |
| 14  | T11891   | O-RING     | 1   |                      |                                                   |
| 15  | R54242   | SNAP RING  | 6   |                      |                                                   |
| 16  | R61124   | O-RING     | 1   |                      | TRANSFER PUMP                                     |
| 17  | R54231   | WASHER     | 1   |                      | TRANSFER PUMP REGULATING SLEEVE                   |
| 18  | R54222   | WASHER     | 1   |                      | INLET FILTER SCREEN                               |
| 19  | AR63029  | GASKET KIT | 1   |                      | GASKET OVERHAUL                                   |

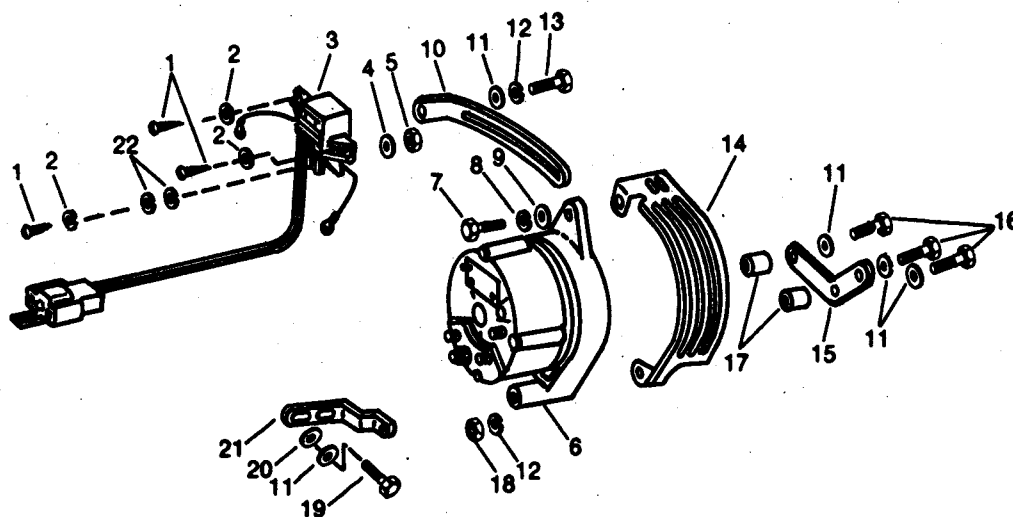
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**MEMORANDA**

**ALTERNATOR, VOLTAGE REGULATOR AND ATTACHING PARTS  
(4239D)**

**CODE 3101 ALTERNATOR, 35 AMPERE (35A)  
CODE 3102 ALTERNATOR, 55 AMPERE (55A)**

TP7272



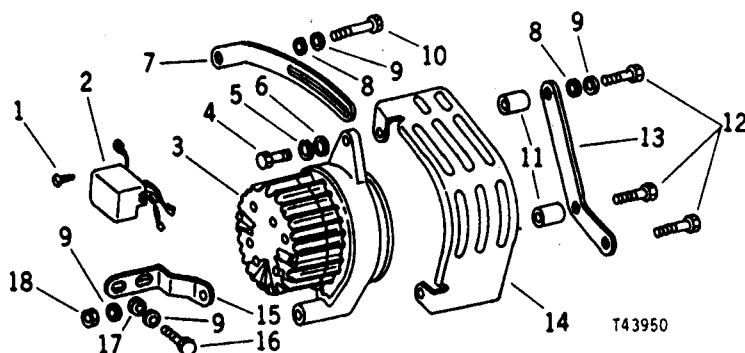
TP7272

| KEY | PART NO. | PART NAME         | QTY | ENGINE<br>SERIAL NO. | REMARKS                             |
|-----|----------|-------------------|-----|----------------------|-------------------------------------|
| 1   | R44008   | SCREW             | 3   |                      |                                     |
| 2   | 12H295   | LOCK WASHER       | 5   |                      | INTERNAL-TOOTH, NO. 10              |
| 3   | AR78298  | VOLTAGE REGULATOR | 1   |                      | (MOTOROLA NO. 70C44700E)            |
| 4   | R39804   | WASHER            | 3   |                      |                                     |
| 5   | 14H778   | NUT               | 2   |                      | NO. 10                              |
| 6   | AR38458  | ALTERNATOR        | 1   |                      | 35 AMPHERE                          |
|     | AR40420  | ALTERNATOR        | 1   |                      | 55 AMPHERE                          |
| 7   | 19H1900  | CAP SCREW         | 1   |                      | 5/16" X 3/4"                        |
| 8   | 12H303   | LOCK WASHER       | 1   |                      | 5/16"                               |
| 9   | 24H1136  | WASHER            | 1   |                      | 11/32" X 11/16" X 0.060"            |
| 10  | T20204   | STRAP             | 1   |                      | (WITH HIGH POSITION WATER PUMP)     |
|     | T32853   | STRAP             | 1   |                      | (WITH STANDARD POSITION WATER PUMP) |
| 11  | 24H1304  | WASHER            | 1   |                      | 13/32" X 23/32" X 0.120"            |
| 12  | 12H304   | LOCK WASHER       | 1   |                      | 3/8"                                |
| 13  | 19H1801  | CAP SCREW         | 1   |                      | 3/8" X 2"                           |
| 14  | R56012   | SHIELD            | 1   |                      |                                     |
| 15  | T20202   | SUPPORT           | 1   |                      | ALTERNATOR, FRONT                   |
| 16  | 19H2128  | CAP SCREW         | 3   |                      | 3/8" X 3"                           |
| 17  | 28H2547  | SPACER            | 2   |                      | 3/8" X 1"                           |
| 18  | 14H812   | NUT               | 1   |                      | 3/8"                                |
| 19  | 19H2284  | CAP SCREW         | 2   |                      | 3/8" X 7/8"                         |
| 20  | 24H1305  | WASHER            | 1   |                      | 13/32" X 13/16" X 0.060"            |
| 21  | R38372   | BRACKET           | 1   |                      | (A) ALTERNATOR, REAR                |
|     | R50557   | SUPPORT           | 1   |                      | (A) ALTERNATOR, REAR                |

(A) EITHER PART ACCEPTABLE. CHECK LOCAL AVAILABILITY.

**ALTERNATOR AND REGULATOR WITH ATTACHING PARTS**  
**CODE 3104 ALTERNATOR, 30 AMPERE (30A) (SEALED)**

T43950



T43950

| KEY | PART NO. | PART NAME         | QTY | ENGINE<br>SERIAL NO. | REMARKS                   |
|-----|----------|-------------------|-----|----------------------|---------------------------|
| 1   | 37H47    | SCREW             | 3   |                      | NO. 8 X 1/2"              |
| 2   | AN114059 | VOLTAGE REGULATOR | 1   |                      |                           |
| 3   | AN114058 | ALTERNATOR        | 1   |                      | LESS PULLEY AND REGULATOR |
| 4   | 19H1905  | CAP SCREW         | 1   |                      | 5/16" X 1"                |
| 5   | 12H303   | LOCK WASHER       | 1   |                      | 5/16"                     |
| 6   | 24H1136  | WASHER            | 1   |                      | 11/32" X 11/16" X 0.060"  |
| 7   | T20204   | STRAP             | 1   |                      |                           |
| 8   | 24H1304  | WASHER            | 3   |                      | 13/32" X 23/32" X 0.120"  |
| 9   | 12H304   | LOCK WASHER       | 4   |                      | 3/8"                      |
| 10  | 19H1819  | CAP SCREW         | 1   |                      | 3/8" X 2-1/8"             |
| 11  | 28H2547  | SPACER            | 2   |                      | 3/8" X 1"                 |
| 12  | 19H2128  | CAP SCREW         | 3   |                      | 3/8" X 3"                 |
| 13  | T20202   | SUPPORT           | 1   |                      | ALTERNATOR, FRONT         |
| 14  | R56012   | SHIELD            | 1   |                      |                           |
| 15  | R38372   | BRACKET           | 1   |                      | ALTERNATOR, REAR          |
| 16  | 19H2284  | CAP SCREW         | 2   |                      | 3/8" X 7/8"               |
| 17  | 24H1305  | WASHER            | 2   |                      | 13/32" X 13/16" X 0.060"  |
| 18  | 14H812   | NUT               | 1   |                      | 3/8"                      |

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**MEMORANDA**

## ALTERNATOR AND ATTACHING PARTS

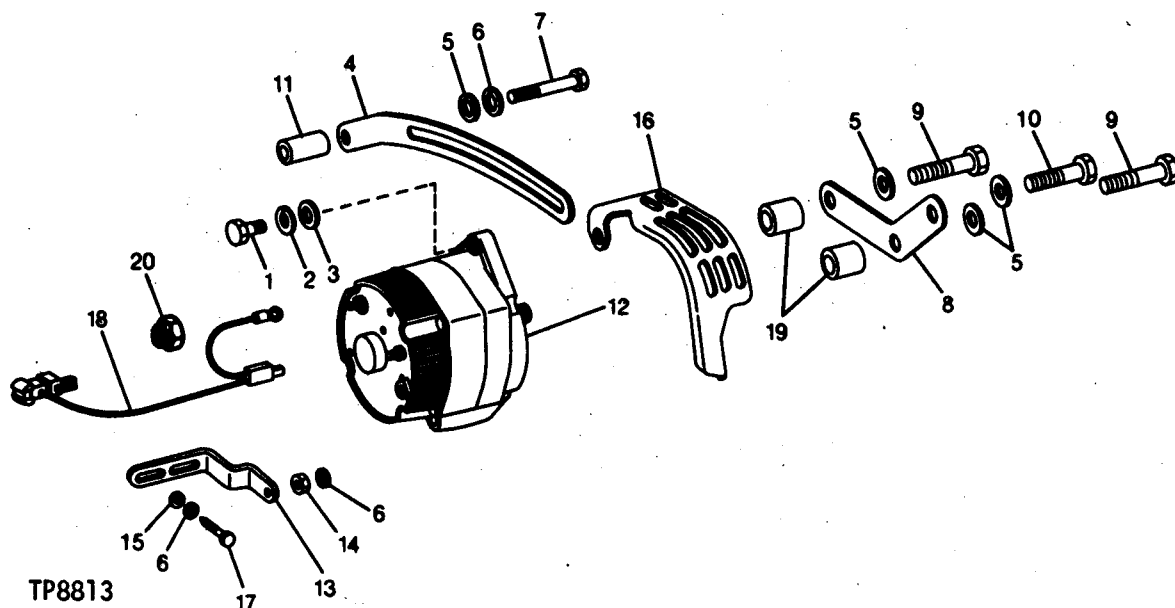
(4239T)

CODE 3102 ALTERNATOR, 55 AMPERE (55A)

CODE 3103 ALTERNATOR, 72 AMPERE (72A)

CODE 3105 ALTERNATOR, 61 AMPERE (61A)

TP8813



| KEY | PART NO. | PART NAME   | QTY | ENGINE<br>SERIAL NO. | REMARKS                                 |
|-----|----------|-------------|-----|----------------------|-----------------------------------------|
| 1   | 19H1905  | CAP SCREW   | 1   | -541865              | 5/16" X 1"                              |
|     | 19M7163  | CAP SCREW   | 1   | 541866-              | M8 X 25, (USE WITH AR93445 AND AR93446) |
| 2   | 12H303   | LOCK WASHER | 1   | -541865              | 5/16"                                   |
|     | 12M7032  | LOCK WASHER | 1   | 541866-              | 8.400MM, (USE WITH AR93445 AND AR93446) |
| 3   | 24H1136  | WASHER      | 1   |                      | 11/32" X 11/16" X 0.060"                |
| 4   | T32853   | STRAP       | 1   |                      |                                         |
| 5   | 24H1304  | WASHER      | 4   |                      | 13/32" X 23/32" X 0.120"                |
| 6   | 12H304   | LOCK WASHER | 4   |                      | 3/8"                                    |
| 7   | 19H1801  | CAP SCREW   | 1   |                      | 3/8" X 2"                               |
| 8   | R59676   | BRACKET     | 1   |                      | FRONT                                   |
| 9   | 19H2128  | CAP SCREW   | 2   |                      | 3/8" X 3"                               |
| 10  | 19H2128  | CAP SCREW   | 1   |                      | 3/8" X 3"                               |
| 11  | 28H2547  | SPACER      | 2   |                      | 3/8" X 1"                               |

THIS PARTS LISTING IS CONTINUED