

**DISA**



**DIESEL INIEZIONE S.P.A. - MILANO - MAGENTA**

**6, Via Ariosto  
20145 MILANO Italy**

**Offices & Works:  
Via Novara, 119  
20013 MAGENTA (Milano) Italy  
Phone: +39 02 97298381  
Telefax: +39 02 9793194  
E-mail: [disa@disa.it](mailto:disa@disa.it)  
Web: [www.disa.it](http://www.disa.it)**



**DIESEL ENGINES FUEL INJECTION MANUFACTURING CO.**





# **PARTS AND COMPONENTS SUITABLE FOR GENERAL MOTORS, CATERPILLAR AND CUMMINS FUEL INJECTION SYSTEMS**

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ALL **DISA** PARTS AND COMPONENTS ARE BRAND NEW MANUFACTURED IN OUR MAGENTA WORKS, UNDER USA TECHNICAL REQUIREMENTS, AND ARE STRICTLY EQUIVALENT TO O.E.M.

ALL MANUFACTURERS NAMES, SYMBOLS, NUMBERS AND DESCRIPTIONS ARE USED FOR GUIDANCE AND REFERENCE PURPOSES ONLY AND IT DOES NOT IMPLY THAT ANY PART LISTED IN THIS CATALOGUE IS THE PRODUCT OF THESE MANUFACTURERS.

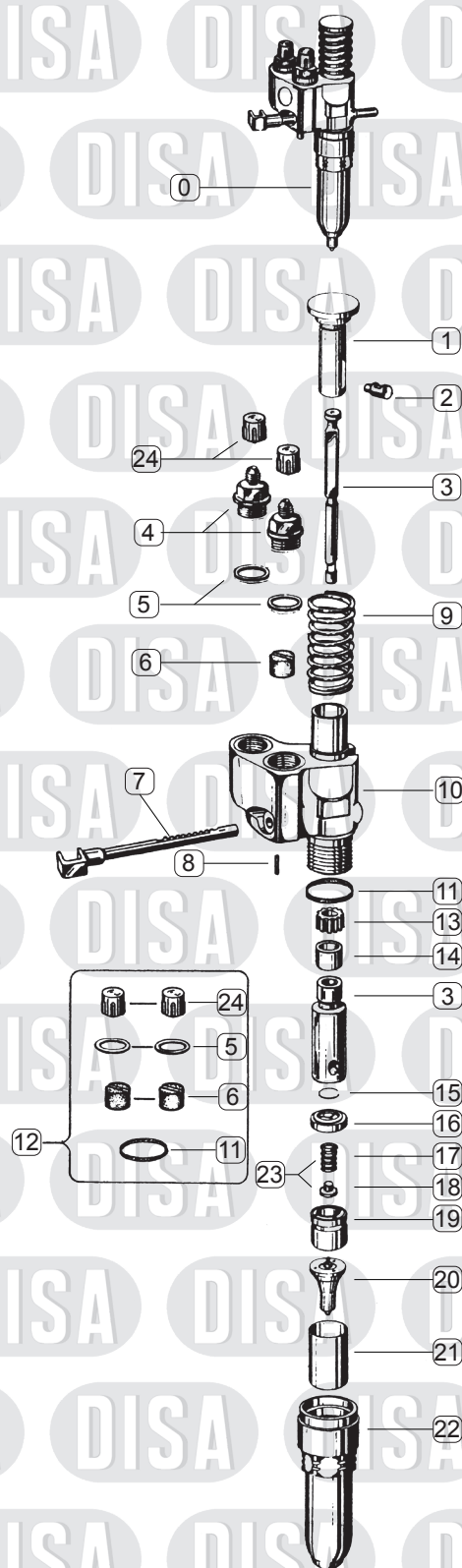
ALL THE EQUIPMENT APPLICATION GUIDES ARE ENCLOSED FOR GUIDANCE AND REFERENCE PURPOSES ONLY, AND DO NOT IMPLY ANY RESPONSIBILITY ON OUR PART.

# DETROIT DIESEL FUEL INJECTOR

## SERIES 53, 71, 92

| ITEM NO. | PART NO. | DESCRIPTION                                      |
|----------|----------|--------------------------------------------------|
| 0        | ◆        | Injector assembly                                |
| 1        | 5228104  | Follower, injector                               |
| 2        | 5228608  | Pin, injector stop                               |
| 3        | ◆        | Plunger & bushing                                |
| 4        | 5228588  | Cap, filter                                      |
|          | 5227007  | Internal thread cap filter                       |
| 5        | 5226186  | Gasket, filter cap                               |
| 6        | 5228587  | Element, filter                                  |
| 7        | 5226719  | Rack assembly                                    |
| 8        | 5226416  | Dowel, injector body (included into 5228583)     |
| 9        | 5228739  | Spring, follower <b>superseded by 5229518</b>    |
|          | 5229518  | Orange stripe follower spring                    |
| 10       | 5228583  | Body assembly                                    |
| 11       | 5229167  | Ring, injector seal <b>superseded by 5234281</b> |
|          | 5234281  | Ring, injector seal                              |
| 12       | 5229649  | Filter service kit                               |
| 13       | 5226400  | Gear, injector (for P. & B. Ø.25)                |
|          | 5228802  | Gear, injector (for P. & B. Ø.281-.30)           |
| 14       | 5228586  | Retainer gear                                    |
| 15       | 5228694  | Valve, injector check                            |
| 16       | 5228696  | Cage, injector valve                             |
| 17       | 5228596  | Spring, injector valve                           |
|          | 5226359  | High V.O.P. spring, injector valve               |
| 18       | 5228766  | Seat, valve spring                               |
|          | 5226246  | Seat, high V.O.P. valve spring                   |
| 19       | 5228594  | Cage, injector valve spring                      |
| 20       | ◆        | Tip assembly                                     |
| 21       | 5228109  | Deflector, injector spill                        |
| 22       | 5228601  | Nut, injector                                    |
| 23       | 5228769  | Valve kit, injector                              |
| 24       | 5226414  | Cap, shipping                                    |

◆ SEE SUMMARY OF INJECTORS - SERIES 53, 71, 92



# SUMMARY OF DETROIT DIESEL INJECTORS

## SERIES 53, 71, 92

| Injector | Assy. No. | P & B Part No. | Tip Part No. | Series |  | Injector | Assy. No. | P & B Part No. | Tip Part No. | Series |
|----------|-----------|----------------|--------------|--------|--|----------|-----------|----------------|--------------|--------|
| 130      | 5226390   | 5226395        | 5229516      | 92     |  | 7A65     | 5229665   | 5229664        | 5229636      | 71     |
| 140      | 5229495   | 5229513        | 5229516      | 71     |  | 7A70     | 5229670   | 5229672        | 5229636      | 71     |
| 145      | 5226555   | 5226248        | 5229516      | 92     |  | 7A75     | 5229675   | 5229638        | 5229636      | 71     |
| 6815     | 5226815   | 5226422        | 5229026      | 53     |  | 7A77     | 5226595   | 5229808        | 5229642      | 71     |
| 6825     | 5226825   | 5229268        | 5226587      | 71     |  | 7B5E     | 5229580   | 5229562        | 5229553      | 71     |
| 6850     | 5226850   | 5229657        | 5226587      | 71     |  | 7C70     | 5229700   | 5228682        | 5229636      | 71     |
| 7005     | 5227005   | 5226474        | 5229184      | 53     |  | 7C75     | 5229695   | 5228658        | 5229636      | 71     |
| 7015     | 5227015   | 5228804        | 5229256      | 71     |  | 7E50     | 5229785   | 5229791        | 5229026      | 71     |
| 7020     | 5227020   | 5228658        | 5229192      | 71     |  | 7E55     | 5229790   | 5229823        | 5229026      | 71     |
| 7025     | 5227025   | 5229657        | 5229516      | 92     |  | 7E60     | 5229795   | 5229814        | 5229026      | 71     |
| 7030     | 5227030   | 5226589        | 5226272      | 92     |  | 7E65     | 5229800   | 5229782        | 5229030      | 71     |
| 7035     | 5227035   | 5228804        | 5229516      | 92     |  | 7E75     | 5229820   | 5229808        | 5229642      | 71     |
| 7040     | 5227040   | 5226395        | 5229516      | 92     |  | 7G60     | 5226665   | 5229823        | 5229532      | 71     |
| 7105     | 5227105   | 5226248        | 5227104      | 92     |  | 7G65     | 5229895   | 5229916        | 5229636      | 71     |
| 7125     | 5227125   | 5226788        | 5229516      | 92     |  | 7G70     | 5229900   | 5229912        | 5229636      | 71     |
| 7245     | 5227245   | 5226589        | 5227168      | 71     |  | 7G75     | 5229905   | 5229884        | 5229636      | 71     |
| 7255     | 5227255   | 5228804        | 5229516      | 71     |  | 7N65     | 5226440   | 5226298        | 5229192      | 71     |
| 9200     | 5229410   | 5229298        | 5229184      | 92     |  | 7N95     | 5229995   | 5229298        | 5229256      | 71     |
| 9210     | 5229985   | 5229298        | 5229516      | 92     |  | 7S65     | 5226170   | 5226183        | 5229636      | 71     |
| 9215     | 5229715   | 5229657        | 5229184      | 92     |  | 7S70     | 5226155   | 5226182        | 5229636      | 71     |
| 9225     | 5229845   | 5229657        | 5229516      | 92     |  | 7S75     | 5226145   | 5226169        | 5229636      | 71     |
| 9270     | 5229170   | 5229188        | 5229184      | 92     |  | 9A31     | 5226575   | 5226395        | 5229516      | 92     |
| 9275     | 5229380   | 5229282        | 5229184      | 92     |  | 9A80     | 5229620   | 5229181        | 5229622      | 92     |
| 9280     | 5229180   | 5229181        | 5229184      | 92     |  | 9A85     | 5229625   | 5229278        | 5229622      | 92     |
| 9285     | 5229400   | 5229278        | 5229184      | 92     |  | 9A90     | 5229630   | 5229292        | 5229622      | 92     |
| 9290     | 5229405   | 5229292        | 5229184      | 92     |  | 9A98     | 5226675   | 5229298        | 5229622      | 92     |
| 9295     | 5229395   | 5229268        | 5229184      | 92     |  | 9B70     | 5229855   | 5229188        | 5229806      | 92     |
| 5A50     | 5229920   | 5229921        | 5229030      | 53     |  | 9B75     | 5229860   | 5229282        | 5229806      | 92     |
| 5A55     | 5229676   | 5229776        | 5229030      | 53     |  | 9B80     | 5229805   | 5229181        | 5229806      | 92     |
| 5A60     | 5229666   | 5228656        | 5229030      | 53     |  | 9B85     | 5229815   | 5229278        | 5229806      | 92     |
| 5A68     | 5226790   | 5226654        | 5226404      | 53     |  | 9B90     | 5229810   | 5229292        | 5229806      | 92     |
| 5A72     | 5226780   | 5228682        | 5229192      | 53     |  | 9C70     | 5229870   | 5229857        | 5229806      | 92     |
| 5C50     | 5226250   | 5226428        | 5226404      | 53     |  | 9C75     | 5229875   | 5229861        | 5229806      | 92     |
| 5C55     | 5226240   | 5226422        | 5226404      | 53     |  | 9C80     | 5229880   | 5229864        | 5229806      | 92     |
| 5C60     | 5226230   | 5226392        | 5226404      | 53     |  | 9C85     | 5229885   | 5229868        | 5229806      | 92     |
| 5D45     | 5226685   | 5226562        | 5229026      | 53     |  | 9C90     | 5229890   | 5229872        | 5229806      | 92     |
| 5D50     | 5226690   | 5226566        | 5229026      | 53     |  | 9D95     | 5229955   | 5229952        | 5229622      | 92     |
| 5E50     | 5226280   | 5226428        | 5229030      | 53     |  | 9E60     | 5226800   | 5228656        | 5226442      | 92     |
| 5E55     | 5226245   | 5226422        | 5229030      | 53     |  | 9E65     | 5229970   | 5229912        | 5229642      | 92     |
| 5E60     | 5226235   | 5226392        | 5229030      | 53     |  | 9E70     | 5229975   | 5229884        | 5229642      | 92     |
| 5F55     | 5226590   | 5226422        | 5226404      | 53     |  | 9E80     | 5226225   | 5229268        | 5229642      | 92     |
| 5N45     | 5226075   | 5228684        | 5229026      | 53     |  | 9E85     | 5226215   | 5229298        | 5229030      | 92     |
| 5N65     | 5229825   | 5228668        | 5229192      | 53     |  | 9E95     | 5226525   | 5226338        | 5229622      | 92     |
| 71B5     | 5229550   | 5229342        | 5229532      | 71     |  | 9F70     | 5226475   | 5226468        | 5226442      | 92     |
| 71C5     | 5229352   | 5229354        | 5229026      | 71     |  | 9F80     | 5226495   | 5226434        | 5229636      | 92     |
| 71N5     | 5228850   | 5228749        | 5229026      | 71     |  | 9F85     | 5226085   | 5229868        | 5229622      | 92     |
| 7A15     | 5226585   | 5226589        | 5226587      | 71     |  | 9F90     | 5226090   | 5229872        | 5229622      | 92     |
| 7A50     | 5229690   | 5229692        | 5229642      | 71     |  | 9G75     | 5226425   | 5226434        | 5226442      | 92     |
| 7A55     | 5229685   | 5229686        | 5229642      | 71     |  | 9G85     | 5226420   | 5226474        | 5226438      | 92     |
| 7A60     | 5229680   | 5229644        | 5229642      | 71     |  | 9G90     | 5226410   | 5226338        | 5226438      | 92     |

# SUMMARY OF DETROIT DIESEL INJECTORS

## SERIES 53, 71, 92

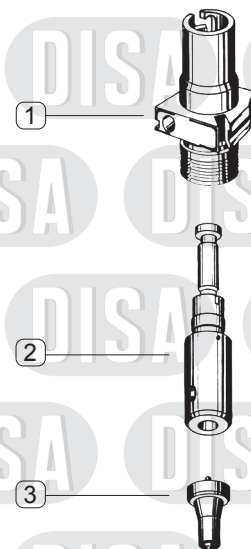
| Injector | Assy. No. | P & B Part No. | Tip Part No. | Series |
|----------|-----------|----------------|--------------|--------|
| 9G95     | 5226345   | 5226312        | 5226332      | 92     |
| 9H85     | 5226405   | 5226474        | 5226304      | 92     |
| 9J85     | 5226635   | 5226474        | 5226304      | 92     |
| 9K85     | 5226670   | 5229298        | 5229030      | 92     |
| 9S65     | 5226165   | 5226182        | 5229642      | 92     |
| 9S70     | 5226135   | 5226169        | 5229642      | 92     |
| 9S75     | 5226505   | 5226346        | 5226442      | 92     |
| 9S80     | 5226515   | 5226346        | 5229636      | 92     |
| 9T70     | 5226510   | 5226402        | 5226442      | 92     |
| B55      | 5229555   | 5229346        | 5229532      | 71     |
| B55E     | 5229575   | 5229559        | 5229553      | 71     |
| B60      | 5229560   | 5229354        | 5229532      | 71     |
| B65      | 5229565   | 5229542        | 5229030      | 71     |
| C40      | 5229340   | 5229342        | 5229034      | 53     |
| C45      | 5229345   | 5229346        | 5229034      | 53     |
| C50      | 5229350   | 5229354        | 5229034      | 53     |
| C55      | 5229355   | 5229356        | 5229026      | 71     |
| C60      | 5229360   | 5229362        | 5229026      | 71     |
| C65      | 5229365   | 5229366        | 5229192      | 71     |
| C70      | 5229370   | 5229372        | 5229192      | 71     |
| DF65     | 5226715   | 5229593        | 5229026      | 71     |
| DN7      | 5229605   | 5229593        | 5229636      | 71     |
| DN115    | 5226010   | 5226018        | 5229184      | 92     |
| HN65     | 5228771   | 5228682        | 5228653      | 71     |
| L40      | 5228793   | 5228679        | 5229026      | 53     |
| M15      | 5226795   | 5228804        | 5229516      | 92     |
| M40      | 5229610   | 5229608        | 5229034      | 53     |
| M50      | 5228774   | 5228749        | 5229034      | 71     |
| M55      | 5228834   | 5228841        | 5229034      | 53     |
| M60      | 5228824   | 5228749        | 5229192      | 53     |
| M65      | 5228814   | 5228661        | 5229034      | 71     |
| M70      | 5229185   | 5229632        | 5229192      | 71     |
| M95      | 5228795   | 5228804        | 5229256      | 71     |
| N35      | 5229595   | 5229598        | 5229034      | 53     |
| N40      | 5228763   | 5228691        | 5229034      | 53     |
| N45      | 5228773   | 5228684        | 5229034      | 53     |
| N50      | 5228783   | 5228749        | 5229034      | 53     |
| N55      | 5228785   | 5228668        | 5229026      | 71     |
| N60      | 5228760   | 5228656        | 5229026      | 71     |
| N65      | 5228900   | 5228928        | 5229030      | 71     |
| N70      | 5228770   | 5228682        | 5229192      | 71     |
| N75      | 5228777   | 5228658        | 5229192      | 71     |
| N80      | 5228780   | 5228661        | 5229256      | 71     |
| N90      | 5228790   | 5228878        | 5229256      | 71     |
| N140     | 5229495   | 5229513        | 5229516      | 71     |

| <i>Injector assembly supercession list</i> |           |          |           |
|--------------------------------------------|-----------|----------|-----------|
| NEW                                        |           | OLD      |           |
| Injector                                   | Assy. No. | Injector | Assy. No. |
| 9A31                                       | 5226575   | 130      | 5226390   |
| N40                                        | 5228763   | L40      | 5228793   |
| N50                                        | 5228783   | M50      | 5228774   |
| 7N65                                       | 5226440   | N65      | 5228900   |
| N70                                        | 5228770   | HN65     | 5228771   |

# DETROIT DIESEL FUEL INJECTOR

## SERIES 8.2 LITER

| ITEM NO. | PART NO. | DESCRIPTION                               |
|----------|----------|-------------------------------------------|
| 1        | 5229738  | Body assembly                             |
| 2        | 5229961  | Plunger & bushing 4A40                    |
|          | 5229953  | Plunger & bushing 4A70, 4C65, 4E67, 4H60  |
|          | 5226881  | Plunger & bushing 4C45                    |
|          | 5226886  | Plunger & bushing 4C59                    |
|          | 5229988  | Plunger & bushing 4B45                    |
|          | 5229840  | Plunger & bushing 4A53, 4B55              |
|          | 5226358  | Plunger & bushing 4T80, 4B75              |
|          | 5226478  | Plunger & bushing 4J60                    |
| 3        | 5226494  | Plunger & bushing 4K60                    |
|          | 5229964  | Tip assembly 4A40                         |
|          | 5229727  | Tip assembly 4A53, 4C59                   |
|          | 5229846  | Tip assembly 4C65                         |
|          | 5226084  | Tip assembly 4A70, 4T80                   |
|          | 5226168  | Tip assembly 4B45, 4B55, 4C45, 4J60, 4K60 |
|          | 5226364  | Tip assembly 4B75, 4H60                   |
|          | 5226174  | Tip assembly 4E67                         |



# DETROIT DIESEL FUEL INJECTOR

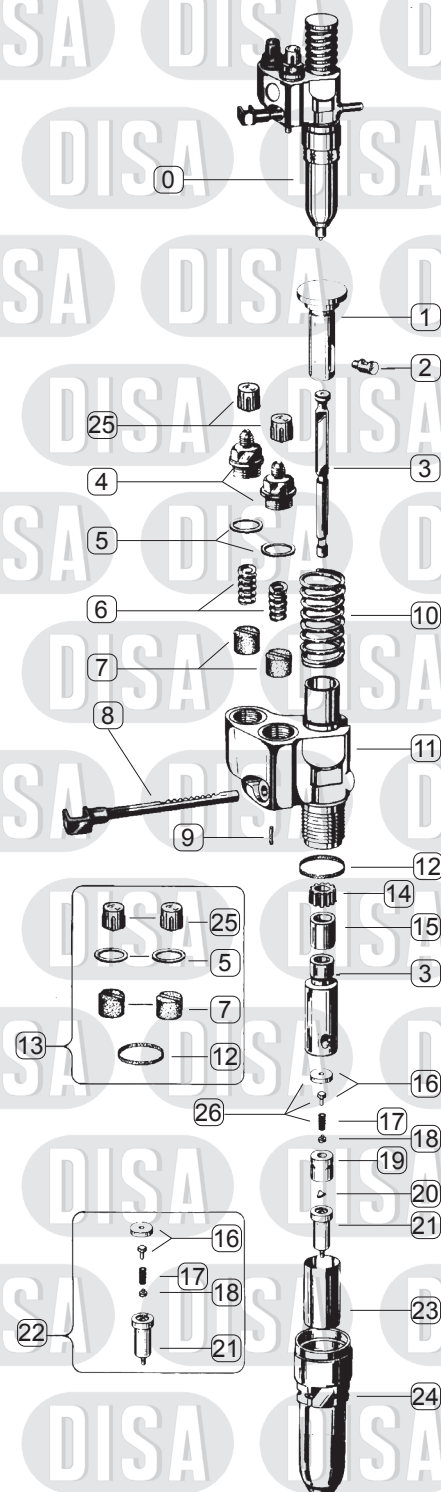
## SERIES 149

| ITEM NO. | PART NO. | DESCRIPTION                                                                               |
|----------|----------|-------------------------------------------------------------------------------------------|
| 1        | 5228980  | Body assembly                                                                             |
| 2        | 5228984  | Body assembly <i>superseded by 5228980</i>                                                |
|          | 5228870  | Plunger & bushing 120, 130, 140, 145, 150, 155, 160, 165, 170, 180, 185, 190, 7110        |
| 3        | 5229828  | Plunger & bushing 195, 230, 240, 270, 6810, 7220, 7225                                    |
|          | 5229968  | Plunger & bushing DF13                                                                    |
|          | 5226162  | Tip assembly <i>superseded by 5227152</i>                                                 |
|          | 5229831  | Tip assembly <i>superseded by 5227147</i>                                                 |
|          | 5229582  | Tip assembly <i>superseded by 5227142</i>                                                 |
|          | 5227152  | Tip assembly <i>superseded by 5235815</i>                                                 |
|          | 5227147  | Tip assembly 195, 270, 6810, 7220                                                         |
|          | 5227142  | Tip assembly <i>superseded by 5235791</i>                                                 |
|          | 5235791  | Tip assembly 120, 130, 140, 150, 155, 165, 170, 180, 185, 190, 230, 240, 7110, 7225, DF13 |
|          | 5235815  | Tip assembly 145, 160                                                                     |



# DETROIT DIESEL FUEL INJECTOR - SERIES 53/71, S

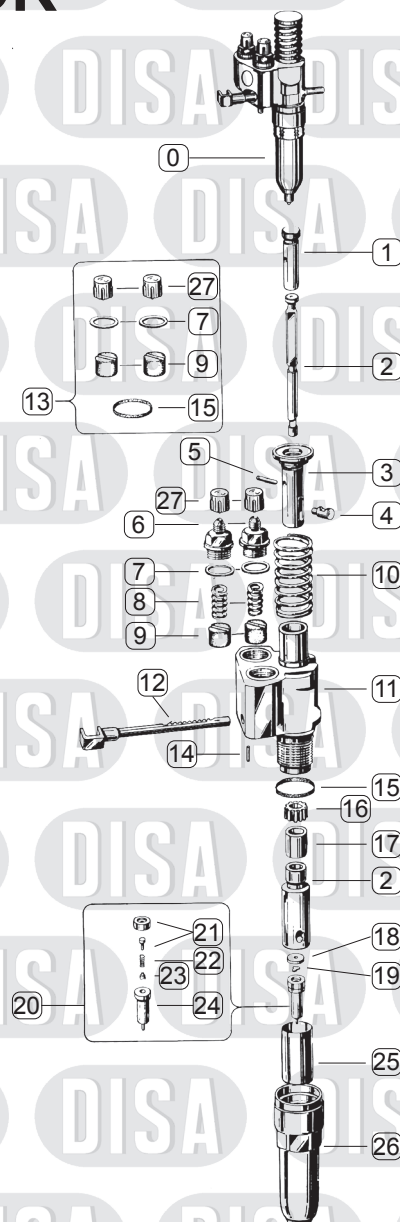
| ITEM NO. | PART NO. | DESCRIPTION                                           |
|----------|----------|-------------------------------------------------------|
| 0        | 5228535  | Injector assembly 35 offset l.c.                      |
|          | 5228560  | Injector assembly 40 offset l.c.                      |
|          | 5228510  | Injector assembly 45 offset l.c.                      |
|          | 5228590  | Injector assembly S40 offset l.c.                     |
|          | 5228580  | Injector assembly S45 offset l.c.                     |
|          | 5228550  | Injector assembly S50 offset l.c.                     |
|          | 5228478  | Injector assembly 55E offset h.c.                     |
|          | 5228521  | Injector assembly S55 offset l.c.                     |
|          | 5228480  | Injector assembly 60E offset h.c.                     |
|          | 5228505  | Injector assembly HE6 offset h.c.                     |
|          | 5228715  | Injector assembly 6S8 offset l.c.                     |
|          | 5228566  | Injector assembly S65 offset l.c.                     |
|          | 5228470  | Injector assembly HV7 offset h.c.                     |
|          | 5228435  | Injector assembly HV8 offset h.c.                     |
|          | 5228522  | Injector assembly S60 offset l.c.                     |
|          | 5228523  | Injector assembly S70 offset l.c.                     |
|          | 5228524  | Injector assembly S80 offset l.c.                     |
|          | 5228525  | Injector assembly S90 offset l.c.                     |
| 1        | 5228104  | Follower, injector                                    |
| 2        | 5228608  | Pin, injector stop                                    |
| 3        | 5228530  | Plunger & bushing 35                                  |
|          | 5228552  | Plunger & bushing 40, S40                             |
|          | 5228495  | Plunger & bushing 45, S45                             |
|          | 5228126  | Plunger & bushing S50                                 |
|          | 5228477  | Plunger & bushing 55E                                 |
|          | 5228528  | Plunger & bushing S55                                 |
|          | 5228474  | Plunger & bushing 60E                                 |
|          | 5228306  | Plunger & bushing HE6, 6S8, S60                       |
|          | 5228569  | Plunger & bushing S65                                 |
|          | 5228304  | Plunger & bushing HV7, S70                            |
|          | 5228101  | Plunger & bushing HV8, S80                            |
|          | 5228549  | Plunger & bushing S90                                 |
| 4        | 5228588  | Cap, injector filter                                  |
| 5        | 5226186  | Gasket, filter cap                                    |
| 6        | 5226415  | Spring ( <b>not required. Use 5228587 w/5228588</b> ) |
| 7        | 5228587  | Element, filter                                       |
| 8        | 5226719  | Rack assembly                                         |
| 9        | 5226416  | Dowel, injector body (included into 5228509)          |
| 10       | 5228739  | Spring, injector plunger                              |
| 11       | 5228509  | Body assembly (offset l.c.)                           |
| 12       | 5229167  | Ring, injector seal <b>superseded by 5234281</b>      |
|          | 5234281  | Ring, injector seal                                   |
| 13       | 5229649  | Filter service kit                                    |
| 14       | 5226400  | Gear, injector                                        |
| 15       | 5226567  | Retainer, gear                                        |
| 16       | 5228316  | Valve (5228308) & seat (5228106) assembly             |
| 17       | 5227210  | Spring, injector valve                                |
| 18       | 5227318  | Stop, injector valve                                  |
| 19       | 5228294  | Cage, injector valve                                  |
| 20       | 5226411  | Valve, injector check                                 |
| 21       | 5228436  | Tip 35, 40, 45, 6S8                                   |
|          | 5228473  | Tip S40, S45, S50, 55E, S55, 60E, HE6, S60, S65       |
|          | 5228554  | Tip S70, S80, S90, HV7, HV8                           |
| 22       | 5228443  | Tip kit 35, 40, 45, 6S8                               |
|          | 5228491  | Tip kit S40, S45, S50, 55E, S55, 60E, HE6, S60, S65   |
|          | 5228312  | Tip kit S70, S80, S90, HV7, HV8                       |
| 23       | 5228109  | Deflector, injector spill                             |
| 24       | 5228102  | Nut, injector                                         |
| 25       | 5226414  | Cap, shipping                                         |
| 26       | 5228313  | Valve, kit                                            |



# DETROIT DIESEL FUEL INJECTOR

## SERIES 71, LV

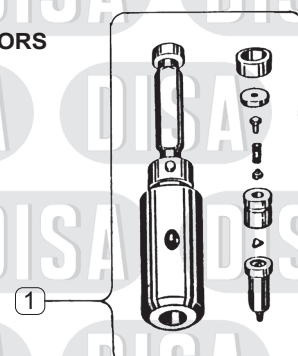
| ITEM NO. | PART NO. | DESCRIPTION                                      |
|----------|----------|--------------------------------------------------|
| 0        | 5226710  | Injector assembly 60LV                           |
|          | 5227935  | Injector assembly 70LV                           |
|          | 5227231  | Injector assembly 80LV                           |
|          | 5227141  | Injector assembly 90LV                           |
| 1        | 5226394  | Follower, injector (use 5228104)                 |
| 2        | 5226560  | Plunger & bushing 60LV                           |
|          | 5227933  | Plunger & bushing 70LV                           |
|          | 5227229  | Plunger & bushing 80LV                           |
|          | 5227135  | Plunger & bushing 90LV                           |
| 3        | 5226723  | Guide, follower (use 5228104)                    |
| 4        | 5228608  | Pin, injector stop                               |
| 5        | 5226397  | Pin, follower                                    |
| 6        | 5226413  | Cap, injector filter                             |
| 7        | 5226186  | Gasket, filter cap                               |
| 8        | 5226415  | Spring, filter element                           |
| 9        | 5228587  | Element, filter                                  |
| 10       | 5228292  | Spring, injector plunger                         |
| 11       | 5227931  | Body assembly                                    |
| 12       | 5226719  | Rack assembly                                    |
| 13       | 5229649  | Filter service kit                               |
| 14       | 5226416  | Dowel, injector body (included into 5227931)     |
| 15       | 5229167  | Ring, injector seal <b>superseded by 5234281</b> |
|          | 5234281  | Ring, injector seal                              |
| 16       | 5226400  | Gear, injector                                   |
| 17       | 5226567  | Retainer, gear                                   |
| 18       | 5226570  | Spacer, injector check valve                     |
| 19       | 5226411  | Valve, injector check                            |
| 20       | 5227324  | Tip kit, 60LV                                    |
|          | 5227325  | Tip kit, 70LV, 80LV, 90LV                        |
| 21       | 5227323  |                                                  |
| 22       | 5227210  | Spring, injector valve                           |
| 23       | 5227318  | Stop, injector valve                             |
| 24       | 5227321  | Tip, 60LV                                        |
|          | 5227317  | Tip, 70LV, 80LV, 90LV                            |
| 25       | 5226565  | Deflector, injector spill                        |
| 26       | 5226563  | Nut, injector valve                              |
| 27       | 5226414  | Cap, shipping                                    |



## CONVERSION KITS

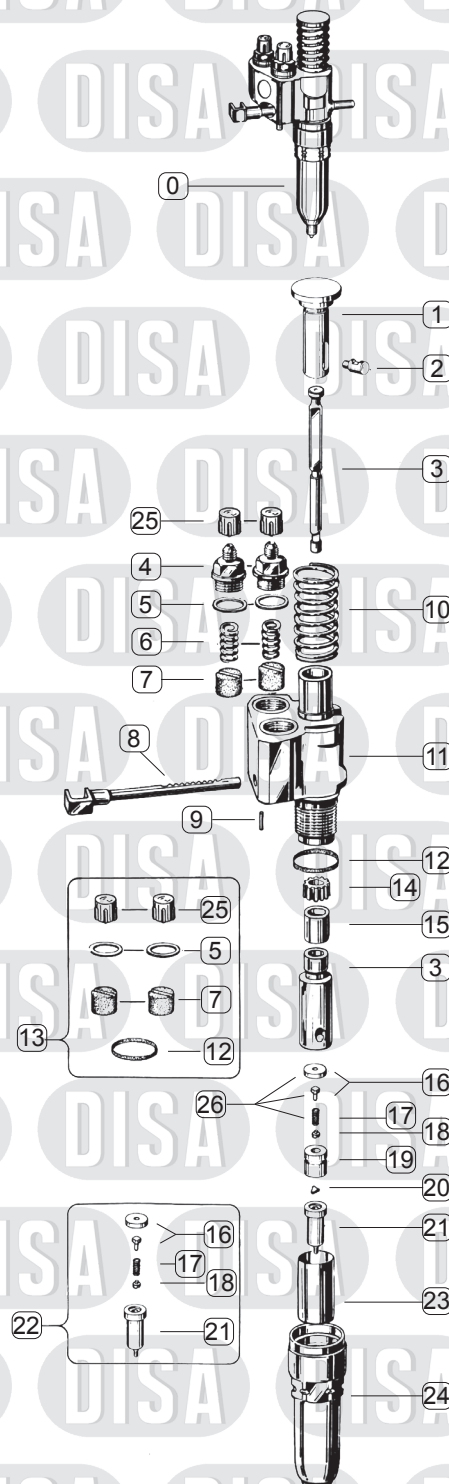
TO CONVERT OLD MODEL LV INJECTORS  
INTO LATER STYLE HV INJECTORS

| ITEM NO. | PART NO. | DESCRIPTION               |
|----------|----------|---------------------------|
| 1        | 5228322  | To convert LV70 into HV55 |
|          | 5228332  | To convert LV60 into HV6  |
|          | 5228333  | To convert LV70 into HV7  |
|          | 5228334  | To convert LV80 into HV8  |



# DETROIT DIESEL FUEL INJECTOR - SERIES 53/71, HV

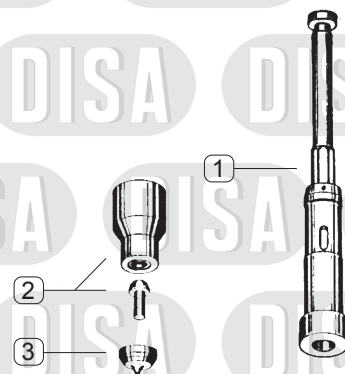
| ITEM NO. | PART NO. | DESCRIPTION                                         |
|----------|----------|-----------------------------------------------------|
| 0        | 5228505  | Injector assembly HE6                               |
|          | 5228300  | Injector assembly HV55                              |
|          | 5228490  | Injector assembly 55E                               |
|          | 5228310  | Injector assembly HV6                               |
|          | 5228375  | Injector assembly 6E8                               |
|          | 5228305  | Injector assembly HV7                               |
|          | 5228110  | Injector assembly HV8                               |
|          | 5228380  | Injector assembly HV9                               |
| 1        | 5228104  | Follower injector                                   |
| 2        | 5228608  | Pin, injector stop                                  |
| 3        | 5228126  | Plunger & bushing HV55                              |
|          | 5228477  | Plunger & bushing 55E                               |
|          | 5228306  | Plunger & bushing HV6, 6E8, HE6                     |
|          | 5228304  | Plunger & bushing HV7                               |
|          | 5228101  | Plunger & bushing HV8                               |
|          | 5228378  | Plunger & bushing HV9                               |
| 4        | 5228588  | Cap, injector filter                                |
| 5        | 5226186  | Gasket, filter cap                                  |
| 6        | 5226415  | Spring <b>(not required. Use 5228587 w/5228588)</b> |
| 7        | 5228587  | Element, filter                                     |
| 8        | 5226719  | Rack assembly                                       |
| 9        | 5226416  | Dowel, injector body (included into 5227931)        |
| 10       | 5228292  | Spring, injector plunger                            |
| 11       | 5227931  | Body assembly                                       |
| 12       | 5229167  | Ring, injector seal <b>superseded by 5234281</b>    |
|          | 5234281  | Ring, injector seal                                 |
| 13       | 5229649  | Filter service kit                                  |
| 14       | 5226400  | Gear, injector                                      |
| 15       | 5226567  | Retainer, gear                                      |
| 16       | 5228316  | Valve (5228308) & seat (5228106) assembly           |
| 17       | 5227210  | Spring, injector valve                              |
| 18       | 5227318  | Stop, injector valve                                |
| 19       | 5228294  | Cage, injector valve                                |
| 20       | 5226411  | Valve, injector check                               |
| 21       | 5228473  | Tip 55E                                             |
|          | 5228293  | Tip HV7, HV8, HV9 <b>superseded by 5228554</b>      |
|          | 5228296  | Tip HV55, HV6, HE6                                  |
|          | 5228376  | Tip 6E8                                             |
|          | 5228554  | Tip HV7, HV8, HV9                                   |
| 22       | 5228491  | Tip kit 55E                                         |
|          | 5228301  | Tip kit HV55, HV6, HE6                              |
|          | 5228377  | Tip kit 6E8                                         |
|          | 5228312  | Tip kit HV7, HV8, HV9                               |
| 23       | 5228109  | Deflector, injector spill                           |
| 24       | 5228102  | Nut, injector HV                                    |
| 25       | 5226414  | Cap, shipping                                       |
| 26       | 5228313  | Valve, kit                                          |



# CLEVELAND DIESEL ENGINES

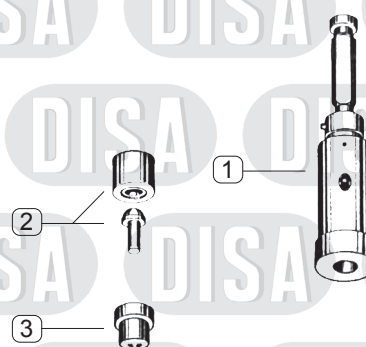
## SERIES 248

| ITEM NO. | PART NO. | DESCRIPTION                                 |
|----------|----------|---------------------------------------------|
| 1        | 5227009  | Plunger & bushing                           |
| 2        | 5227843  | Valve (5227269) & seat (5227843-S) assembly |
| 3        | 5226236  | Spray tip                                   |



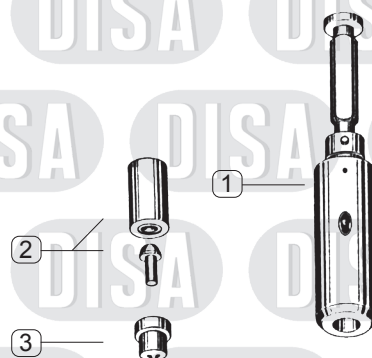
## SERIES 268 A

| ITEM NO. | PART NO. | DESCRIPTION                               |
|----------|----------|-------------------------------------------|
| 1        | 5226987  | Plunger & bushing                         |
| 2        | 5227296  | Valve (5227269) & seat (5227294) assembly |
| 3        | 5227234  | Spray tip (med. flow)                     |



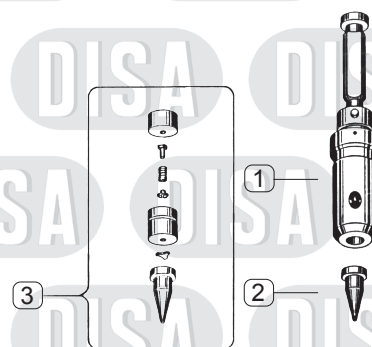
## SERIES 278 A

| ITEM NO. | PART NO. | DESCRIPTION                                                             |
|----------|----------|-------------------------------------------------------------------------|
| 1        | 5227129  | Plunger & bushing                                                       |
| 2        | 5227298  | Valve (5227269) & seat (5227295) assembly                               |
| 3        | 5228703  | Spray tip (med. flow)<br>Spray tip (low. flow)<br>Spray tip (high flow) |



## DETROIT DIESEL SERIES 110

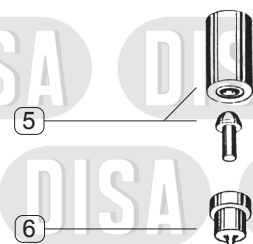
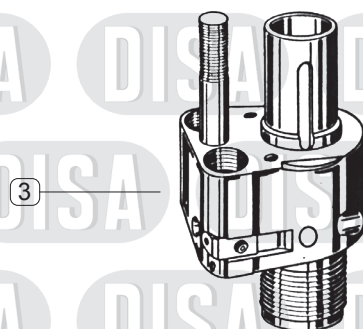
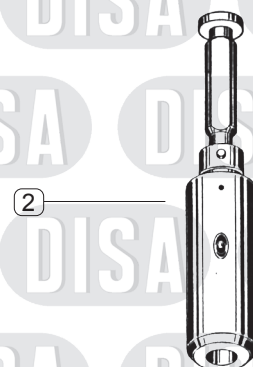
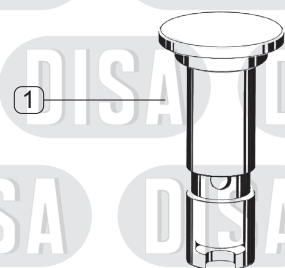
| ITEM NO. | PART NO. | DESCRIPTION                   |
|----------|----------|-------------------------------|
| 1        | 5228119  | Plunger & bushing 80 std.     |
|          | 5228342  | Plunger & bushing 90 std.     |
|          | 5228336  | Plunger & bushing 110 std.    |
|          | 5228007  | Plunger & bushing 130 std.    |
|          | 5228488  | Plunger & bushing 90T offset  |
|          | 5228444  | Plunger & bushing 100T offset |
|          | 5228486  | Plunger & bushing 110T offset |
|          | 5228468  | Plunger & bushing 120T offset |
| 2        | 5228353  | Spray tip                     |
| 3        | 5228353K | Tip kit                       |



# ELECTROMOTIVE DIESEL ENGINES

## SERIES 567-645-710

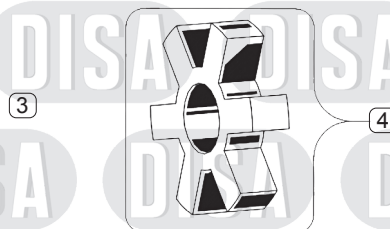
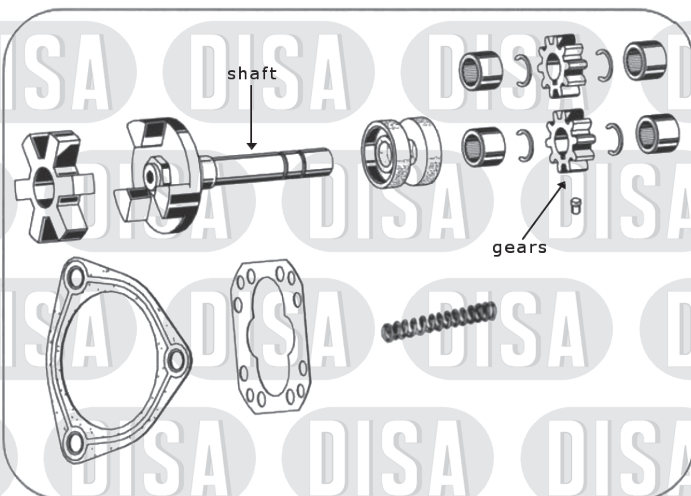
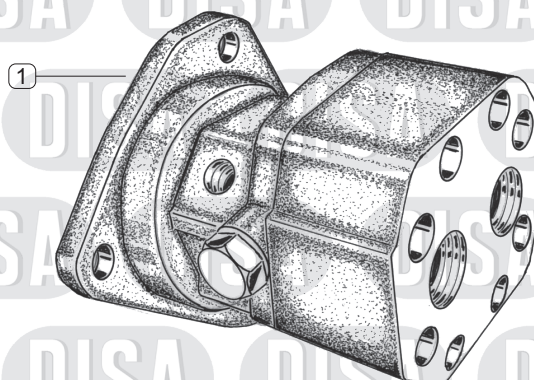
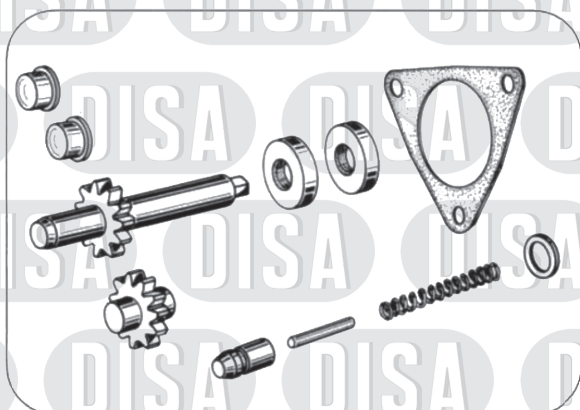
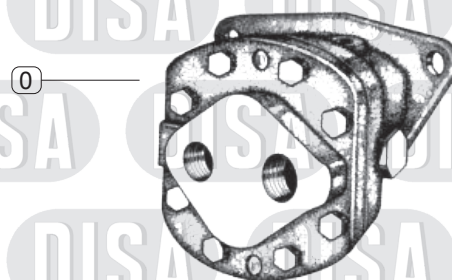
| ITEM NO. | PART NO. | (OTHER P/N.) | DESCRIPTION                               |
|----------|----------|--------------|-------------------------------------------|
| 1        | 5228139  |              | Follower, injector                        |
| 2        | 5227003  |              | Plunger & bushing                         |
|          | 5229011  | (9582664)    | Plunger & bushing                         |
|          | 5227853  | (9582665)    | Plunger & bushing                         |
|          | 5228236  | (9582666)    | Plunger & bushing                         |
|          | 5228894  | (9582668)    | Plunger & bushing                         |
|          | 5226464  | (40006026)   | Plunger & bushing                         |
|          | 5228574  |              | Plunger & bushing                         |
|          | 5226128  |              | Plunger & bushing                         |
|          | 5229705  |              | Plunger & bushing                         |
| 3        | 5226480  |              | Body assembly                             |
|          | 5228244  |              | Body assembly                             |
|          | 5228503  |              | Body assembly                             |
|          | 5228754  |              | Body assembly                             |
|          | 5228797  |              | Body assembly                             |
|          | 5228798  |              | Body assembly                             |
|          | 5228888  |              | Body assembly                             |
|          | 5229039  |              | Body assembly                             |
|          | 5229709  |              | Body assembly                             |
|          | 5226126  |              | Body assembly                             |
| 4        | 5229235  | (9582645)    | NV tip assembly                           |
|          | 5229195  | (9582646)    | NV tip assembly                           |
|          | 5229230  | (9582647)    | NV tip assembly                           |
|          | 5229265  | (9582648)    | NV tip assembly                           |
|          | 5229270  | (9582649)    | NV tip assembly                           |
|          | 5229275  | (9582650)    | NV tip assembly                           |
|          | 5229260  | (9582651)    | NV tip assembly                           |
|          | 5226131  |              | NV tip assembly                           |
| 5        | 5227274  |              | Valve (5227269) & seat (5227268) assembly |
| 6        | 5228703  |              | Spray tip (med. flow)                     |



| BODY     |          | CHART      |               |         |             |
|----------|----------|------------|---------------|---------|-------------|
| NEW P.N. | OLD P.N. | WITH SLIDE | WITHOUT SLIDE | GROOVES | ENG. SERIES |
| 5226480  | 5226726  |            | ■             | NO      | 567- 645    |
| 5228244  | 5228245  |            | ■             | 1x.06"  | 567- 645    |
| 5228503  | 5228504  |            | ■             | 2x.06"  | 567         |
| 5228754  | 5228755  | ■          |               | 2x.06"  | 567         |
| 5228798  | 5228761  | ■          |               | 1x.06"  | 567- 645    |
| 5228797  | 5228759  | ■          |               | NO      | 567- 645    |
| 5228888  | 5228887  | ■          |               | 3x.06"  | 645         |
| 5229039  | 5229037  | ■          |               | 1x.19"  | 645         |
| 5229709  |          | ■          |               | 2x.19"  | 645         |
| 5226126  |          | ■          |               | NO      | 710         |

# DETROIT DIESEL FUEL SUPPLY PUMPS & OVERHAUL KIT

| ITEM NO. | PART NO.    | DESCRIPTION                                                      |
|----------|-------------|------------------------------------------------------------------|
| 0        | 5199560     | Pump assy., fuel LH                                              |
|          | 5199561     | Pump assy., fuel RH                                              |
|          | 5199734     | Pump assy., fuel High Output RH                                  |
|          | 5199735     | Pump assy., fuel High Output LH                                  |
| 1        | R23532981   | Pump assy., 60 series                                            |
|          | E23517845   | Pump assy., 60 series ( <i>use R23532981</i> )                   |
|          | R23505245   | Pump assy., 60 series ( <i>use R23532981</i> )                   |
|          | R23537686   | Pump assy., 60 series ( <i>use R23532981</i> )                   |
| 2        | 5195078     | Overhaul kit, for 5199560 and 5199561 fuel pumps                 |
|          | 5149599     | Overhaul kit, for 5199734 and 5199735 High Output fuel pumps     |
| 3        | 23517845K-A | Overhaul kit, for fuel pump - 60 serie - complete                |
|          | 23517845K-B | Overhaul kit, for fuel pump - 60 serie - without shaft           |
|          | 23517845K-C | Overhaul kit, for fuel pump - 60 serie - without shaft and gears |
| 4        | 23505249    | Spider                                                           |



# DETROIT DIESEL FUEL INJECTOR - 60 SERIES

| ITEM NO. | PART NO.  | DESCRIPTION                               |
|----------|-----------|-------------------------------------------|
| 1        | 13009/33  | Follower, injector                        |
| 2        | 54207/33  | Seat, valve spring - thickness = .122     |
|          | 54208/33  | Seat, valve spring - thickness = .124     |
|          | 54209/33  | Seat, valve spring - thickness = .126     |
|          | 54217/33  | Seat, valve spring - thickness = .128     |
| 3        | 54361/33  | Cage, injector valve spring               |
| 4        | 41548/33  | Tip assembly for injector 5237099         |
|          | 41578/33  | Tip assembly for injector 5236977-5235575 |
|          | 41578/34  | Tip assembly for injector 5237045         |
|          | 41598/33  | Tip assembly for injector 5235550         |
|          | 41608/33  | Tip assembly for injector 5236978-5235580 |
|          | 41588/33  | Tip assembly for injector 5235915         |
|          | 41568/33  | Tip assembly for injector 5237466         |
|          | 41559/33  | Tip assembly for injector 5237650         |
|          | 41559/34  | Tip assembly for injector 5234945         |
|          | 41569/33  | Tip assembly for injector 5236995-5234940 |
|          | 41579/33  | Tip assembly for injector 5237320         |
|          | 41609/34  | Tip assembly for injector 5234865         |
|          | 41719/33  | Tip assembly for injector 5237820         |
|          | 41619/33  | Tip assembly for injector 5235605-5234935 |
|          | 41619/34  | Tip assembly for injector 5234795         |
|          | 41639/33  | Tip assembly for injector 5234870         |
|          | 41629/34  | Tip assembly for injector 5234785         |
|          | 41639/34  | Tip assembly for injector 5237821         |
|          | 41509/33  | Tip assembly for injector 5237473         |
|          | 41669/34  | Tip assembly for injector 5237787         |
|          | 41589/33  | Tip assembly for injector 5237635         |
| 5        | R23532981 | Fuel supply pump                          |
|          | E23517845 | Fuel supply pump (use R23532981)          |
|          | R23505245 | Fuel supply pump (use R23532981)          |
|          | R23537686 | Fuel supply pump (use R23532981)          |



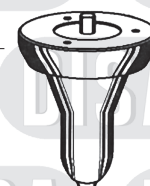
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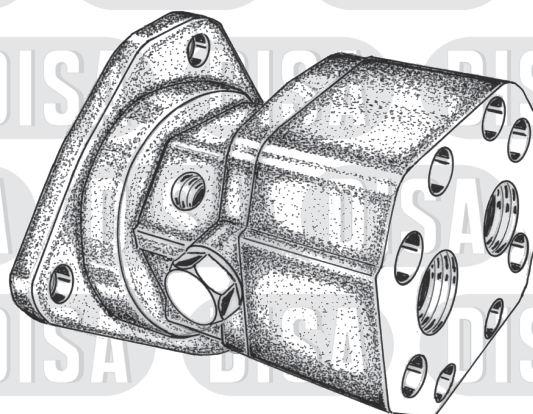
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3



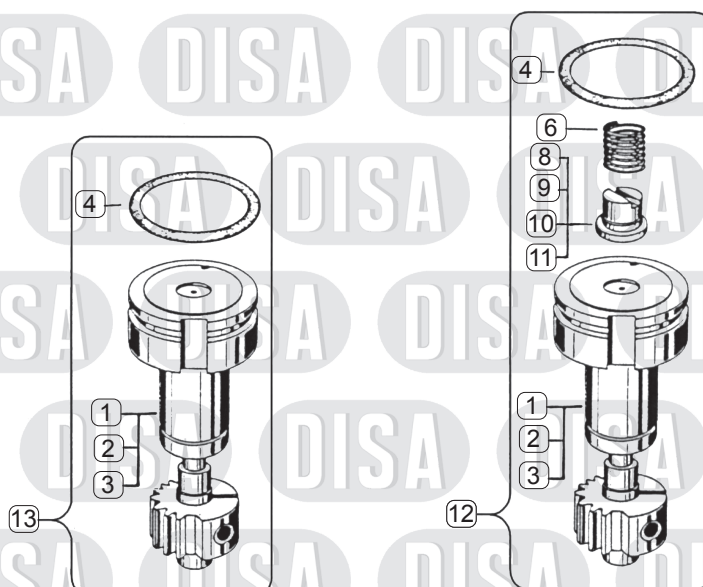
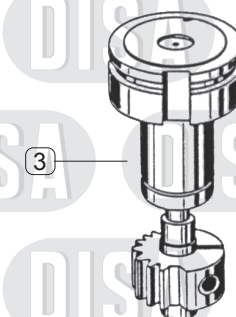
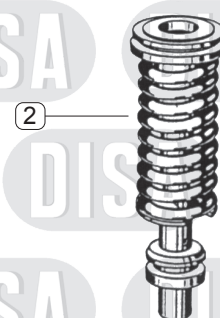
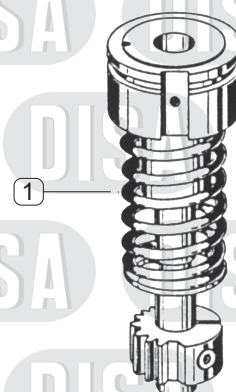
4



5

# CATERPILLAR PLUNGERS & BARRELS

| ITEM NO. | PART NO. | DESCRIPTION                              |
|----------|----------|------------------------------------------|
| 1        | 1W6541   | Pump group                               |
|          | 2W3414   | Pump group <i>superseded by 108-6631</i> |
|          | 4P9830   | Pump group                               |
|          | 7E6007   | Pump group <i>superseded by 108-2104</i> |
|          | 7W0182   | Pump group                               |
|          | 7W5929   | Pump group                               |
|          | 108-2104 | Pump group                               |
| 2        | 108-6631 | Pump group                               |
|          | 1W3010   | Pump assembly                            |
|          | 6N7527   | Pump assembly                            |
|          | 142-2812 | Pump assembly                            |
|          | 142-2818 | Pump assembly                            |
| 3        | 1P6400   | Plunger & barrel with seal               |
|          | 3S8336   | Plunger & barrel with seal               |
|          | 4S5758   | Plunger & barrel with seal               |
|          | 4S7913   | Plunger & barrel with seal               |
|          | 4N4997   | Plunger & barrel with seal               |
|          | 7N1183   | Plunger & barrel with seal               |
|          | 7N1220   | Plunger & barrel with seal               |
|          | 7S6681   | Plunger & barrel with seal               |
|          | 8N3539   | Plunger & barrel with seal               |
|          | 8S3656   | Plunger & barrel with seal               |
|          | 9H5796   | Plunger & barrel with seal               |
|          | 9H5797   | Plunger & barrel with seal               |
|          | 9L4102   | Plunger & barrel with seal               |
| 12       | -----    | P. & B. Kit                              |
|          | -----    | Pump group Kit                           |
|          | -----    | Pump assembly Kit                        |
| 13       | -----    | P. & B. with seal only                   |
|          | -----    | Pump group with seal only                |
|          | -----    | Pump assembly with seal only             |



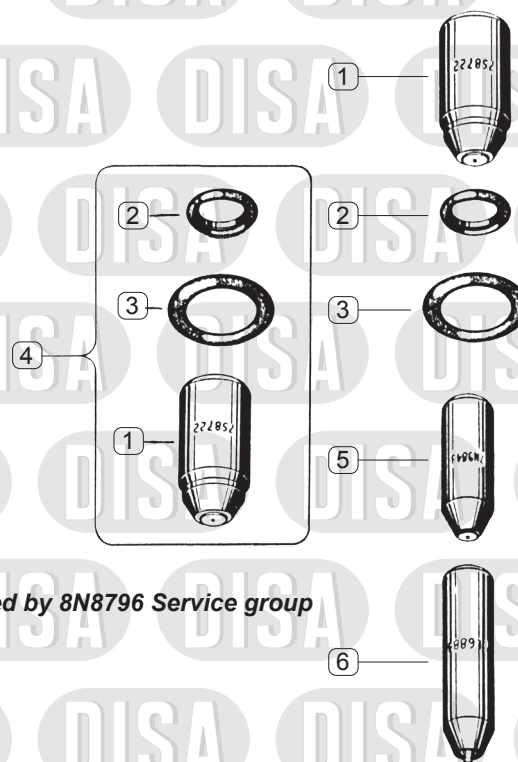
# CATERPILLAR PLUNGERS & BARRELS

| ITEM NO. | PART NO.                       | DESCRIPTION                                          |                         |
|----------|--------------------------------|------------------------------------------------------|-------------------------|
| 4        | 1M1077                         | Seal O-Ring <i>superseded by 3D2992</i>              |                         |
|          | 3D2992                         | Seal O-Ring                                          |                         |
|          | 4D3107                         | Seal O-Ring                                          |                         |
|          | 4N0223                         | Seal O-Ring <i>superseded by 6F6672</i>              |                         |
|          | 6F6672                         | Seal O-Ring                                          |                         |
| 5        | 7C9966                         | Spherical insert                                     |                         |
| 6        | 1S8634                         | Check valve spring                                   |                         |
|          | 3F0303                         | Check valve spring                                   |                         |
|          | 6N0024                         | Check valve spring                                   |                         |
|          | 8N1415                         | Check valve spring                                   |                         |
|          | 8N5993                         | Check valve spring                                   |                         |
|          | 9B1363                         | Check valve spring                                   |                         |
|          | 9L9424                         | Check valve spring                                   |                         |
|          | 9S0097                         | Check valve spring                                   |                         |
|          | 9L6892                         | Collar                                               |                         |
|          | 8                              | 2S1631                                               | Check valve with spring |
|          | 3F0305                         | Check valve with spring                              |                         |
| 4N2655   | Check valve with spring        |                                                      |                         |
| 8S4175   | Check valve with spring        |                                                      |                         |
| 9H5746   | Check valve with spring        |                                                      |                         |
| 9B1320   | Check valve with spring        |                                                      |                         |
| 7N1410   | Check valve <b>(scratched)</b> |                                                      |                         |
| 7N5148   | Check valve <b>(scratched)</b> |                                                      |                         |
| 9        | 8N1414                         | Check valve <b>(RF)</b>                              |                         |
| 10       | 9L6889                         | Check valve <b>(RF)</b>                              |                         |
|          | 9N0593                         | Check valve <b>(RF)</b>                              |                         |
| 11       | 4W5869                         | Check valve <b>(ODV)</b> <i>superseded by 1W6987</i> |                         |
|          | 4P7688                         | Check valve <b>(ORF)</b>                             |                         |
|          | 4P9258                         | Check valve <b>(ORF)</b>                             |                         |
|          | 1W6982                         | Check valve <b>(ORF)</b> <i>superseded by 4P7688</i> |                         |
|          | 1W6987                         | Check valve <b>(ORF)</b>                             |                         |



# CATERPILLAR NOZZLES

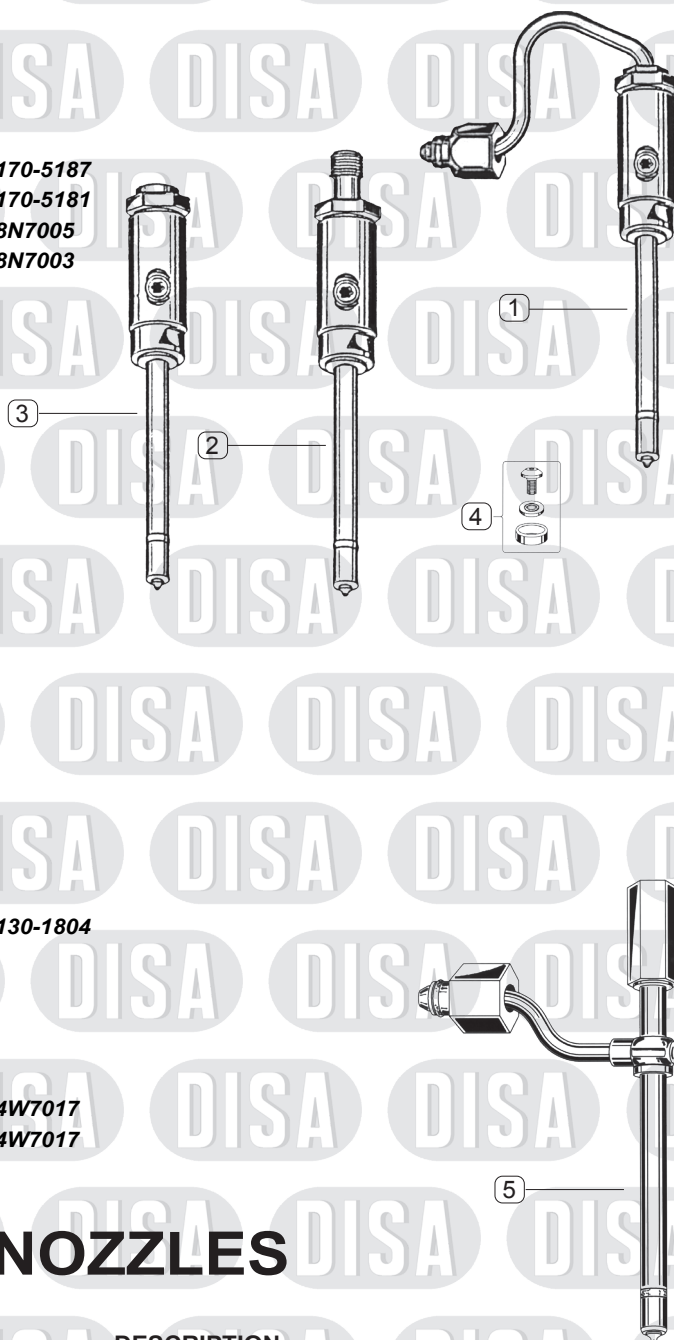
| ITEM NO. | PART NO. | DESCRIPTION                                                             |
|----------|----------|-------------------------------------------------------------------------|
| 1        | 7M4601   | Capsule nozzle                                                          |
|          | 8N1831   | Capsule nozzle                                                          |
|          | 8N3173   | Capsule nozzle                                                          |
|          | 8N3176   | Capsule nozzle                                                          |
|          | 8N4694   | Capsule nozzle                                                          |
|          | 8N4697   | Capsule nozzle                                                          |
|          | 8N5986   | Capsule nozzle                                                          |
|          | 9F4113   | Capsule nozzle                                                          |
|          | 6F1069   | Seal                                                                    |
| 2        | 5B3718   | Seal                                                                    |
| 3        | 3S6638   | Service group (nozzle 8N5986)                                           |
|          | 5H7936   | Service group (nozzle 8N3173)                                           |
|          | 6H3364   | Service group (nozzle 9F4113)                                           |
|          | 7M7431   | Service group (nozzle 7M4601)                                           |
|          | 7S9891   | Service group (nozzle 7S8722) <i>superseded by 8N8796 Service group</i> |
|          | 8M1584   | Service group (nozzle 8N4697)                                           |
|          | 8N8796   | Service group (nozzle 8N4694)                                           |
|          | 9F2393   | Service group (nozzle 5F2805)                                           |
|          | 2S9828   | Capsule nozzle <i>superseded by 8N3177</i>                              |
|          | 4N1251   | Capsule nozzle <i>superseded by 7N9843</i>                              |
| 5        | 7S5105   | Capsule nozzle <i>superseded by 9N6173</i>                              |
|          | 7N9843   | Capsule nozzle                                                          |
|          | 8N3175   | Capsule nozzle                                                          |
|          | 8N3177   | Capsule nozzle                                                          |
|          | 9N6173   | Capsule nozzle                                                          |
|          | 9L6884   | Capsule nozzle                                                          |
|          | 9N3246   | Capsule nozzle                                                          |



| CAPSULE NOZZLES SUPERCESSION LIST |                           |
|-----------------------------------|---------------------------|
| NEW                               | OLD                       |
| 7N9843                            | 4N1251                    |
| 8N1831                            | 7N5005 - 7S1059 - 1P1098♦ |
| 8N3173                            | 5H5836                    |
| 8N3176                            | 7M4190                    |
| 8N3177                            | 2S9828                    |
| 8N4694                            | 7S8722                    |
| 8N4697                            | 5M4086                    |
| 8N5986                            | 2S4442                    |
| 9N6173                            | 7S5105                    |
| ♦ SERVICE GROUP                   |                           |

# CATERPILLAR 7000 SERIES NOZZLES

| ITEM NO. | PART NO. | DESCRIPTION                               |
|----------|----------|-------------------------------------------|
| 1        | 4W7011   | Nozzle assy <i>superseded by 4W7016</i>   |
|          | 4W7015   | Nozzle assy                               |
|          | 4W7016   | Nozzle assy                               |
|          | 8N7004   | Nozzle assy <i>superseded by 4W7015</i>   |
| 2        | 100-7559 | Nozzle assy                               |
|          | 131-3190 | Nozzle assy                               |
|          | 167-7489 | Nozzle assy                               |
|          | 170-5181 | Nozzle assy                               |
|          | 170-5183 | Nozzle assy                               |
|          | 170-5187 | Nozzle assy                               |
|          | 7W7038   | Nozzle assy <i>superseded by 170-5187</i> |
|          | 7W7045   | Nozzle assy <i>superseded by 170-5181</i> |
|          | 8N7001   | Nozzle assy <i>superseded by 8N7005</i>   |
|          | 8N7002   | Nozzle assy <i>superseded by 8N7003</i>   |
|          | 8N7003   | Nozzle assy                               |
|          | 8N7005   | Nozzle assy                               |
|          | 100-7556 | Nozzle assy                               |
|          | 100-7558 | Nozzle assy                               |
|          | 100-7562 | Nozzle assy                               |
|          | 104-3377 | Nozzle assy                               |
|          | 129-1351 | Nozzle assy                               |
|          | 130-1804 | Nozzle assy                               |
|          | 130-1806 | Nozzle assy                               |
|          | 130-5187 | Nozzle assy                               |
|          | 130-5190 | Nozzle assy                               |
| 3        | 4W7017   | Nozzle assy                               |
|          | 4W7018   | Nozzle assy                               |
|          | 4W7019   | Nozzle assy                               |
|          | 4W7020   | Nozzle assy                               |
|          | 4W7021   | Nozzle assy                               |
|          | 4W7022   | Nozzle assy                               |
|          | 7W7030   | Nozzle assy                               |
|          | 7W7031   | Nozzle assy                               |
|          | 7W7026   | Nozzle assy                               |
|          | 7W7032   | Nozzle assy                               |
|          | 7W7033   | Nozzle assy <i>superseded by 130-1804</i> |
|          | 7W7037   | Nozzle assy                               |
|          | 7W7040   | Nozzle assy                               |
|          | 7W7041   | Nozzle assy                               |
|          | 7W7042   | Nozzle assy                               |
|          | 7W7043   | Nozzle assy                               |
|          | 8N7006   | Nozzle assy <i>superseded by 4W7017</i>   |
|          | 8N7007   | Nozzle assy <i>superseded by 4W7017</i>   |
| 4        | 59990/32 | Kit for 7000 series                       |



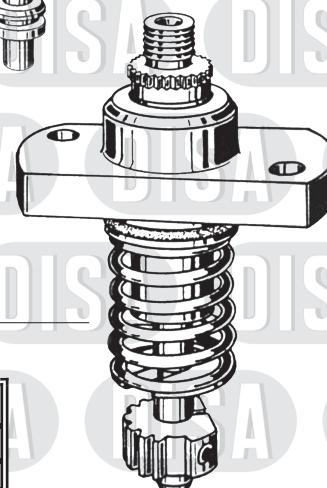
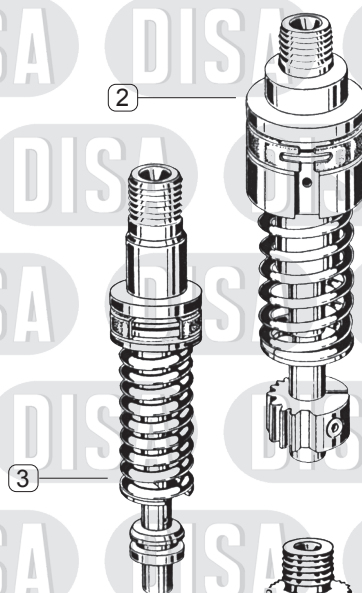
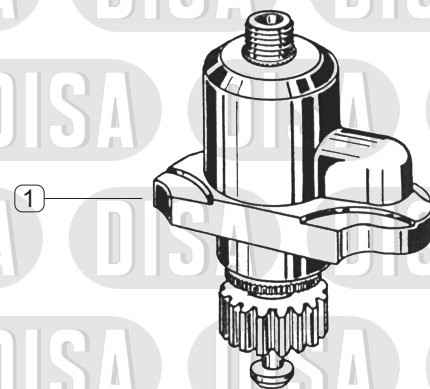
# CATERPILLAR PENCIL NOZZLES

| ITEM NO. | PART NO. | OTHER PART NO.              | DESCRIPTION |
|----------|----------|-----------------------------|-------------|
| 5        | 9L6969   | ( 22746 - 22762 - OR2501 )  | Nozzle assy |
|          | 7N0449   | ( 22808 )                   | Nozzle assy |
|          | 1W5829   | ( 23546 - OR2503 )          | Nozzle assy |
|          | 9N2366   | ( 23143 - OR2500 - 9L7883 ) | Nozzle assy |
|          |          |                             |             |

# CATERPILLAR INJECTION PUMPS AND FUEL INJECTION PUMP GROUPS

| ITEM NO. | PART NO.    | DESCRIPTION                                        |
|----------|-------------|----------------------------------------------------|
| 1        | 1P3409      | Pump assembly                                      |
|          | 2S7264      | Pump assembly                                      |
|          | 8M2667      | Pump assembly                                      |
|          | 8M3138      | Pump assembly                                      |
|          | 8M3280      | Pump assembly                                      |
|          | 8M9753      | Pump assembly                                      |
|          | 8M9755      | Pump assembly                                      |
|          | 8M9758      | Pump assembly                                      |
|          | 8M9758      | Pump assembly                                      |
| 2        | 1W6539TYPE1 | Fuel inj. pump group                               |
|          | 1W6539TYPE2 | Fuel inj. pump group                               |
|          | 2W3413      | Fuel inj. pump group <i>superseded by 108-6630</i> |
|          | 4P9827      | Fuel inj. pump group                               |
|          | 4W0101      | Fuel inj. pump group <i>superseded by 7W0561</i>   |
|          | 6N1042      | Fuel inj. pump group                               |
|          | 6N1043      | Fuel inj. pump group                               |
|          | 6N7829      | Fuel inj. pump group                               |
|          | 7N1185      | Fuel inj. pump group                               |
|          | 7N1219      | Fuel inj. pump group                               |
|          | 7W0561      | Fuel inj. pump group                               |
|          | 7W5928      | Fuel inj. pump group                               |
|          | 108-6630    | Fuel inj. pump group                               |
|          | 108-6633    | Fuel inj. pump group                               |
|          | 108-6634    | Fuel inj. pump group                               |
|          | 4N8898      | Fuel inj. pump assy                                |
| 3        | 4W5867      | Fuel inj. pump assy <i>superseded by 9Y0510</i> ♦  |
|          | 4W5868      | Fuel inj. pump assy <i>superseded by 7C8927</i> ♦  |
|          | 7C8927      | Fuel inj. pump assy                                |
|          | 7N5301      | Fuel inj. pump assy                                |
|          | 7W8040      | Fuel inj. pump assy <i>superseded by 7C8927</i> ♦  |
|          | 8N4997      | Fuel inj. pump assy                                |
|          | 9N5857      | Fuel inj. pump assy                                |
|          | 9Y0510      | Fuel inj. pump assy                                |
|          | 9Y9246      | Fuel inj. pump assy                                |
|          | 133-8984    | Fuel inj. pump assy                                |
| 4        | 3S1467      | Pump assembly                                      |

♦ WHILE USING A SUBSTITUTE FUEL INJECTION PUMP ASSY INSTEAD OF A SUPERSEDED ONE, SAME TYPE MUST BE USED THROUGHOUT A PUMP.



| PUMP ASSEMBLY SUPERCESSION LIST |                                   |
|---------------------------------|-----------------------------------|
| NEW                             | OLD                               |
| 1P3409                          | 5M7577 - 7M9870 - 8M2899          |
| 2S7264                          | 5L2972 - 8M2701                   |
| 8M2667                          | 7M9868                            |
| 8M3138                          | 6H5579                            |
| 8M3280                          | 4H5238 - 7F6042 - 8M3137 - 8M3277 |
| 8M9753                          | 4F5015                            |
| 8M9755                          | 4H3417                            |
| 8M9758                          | 4F6921                            |

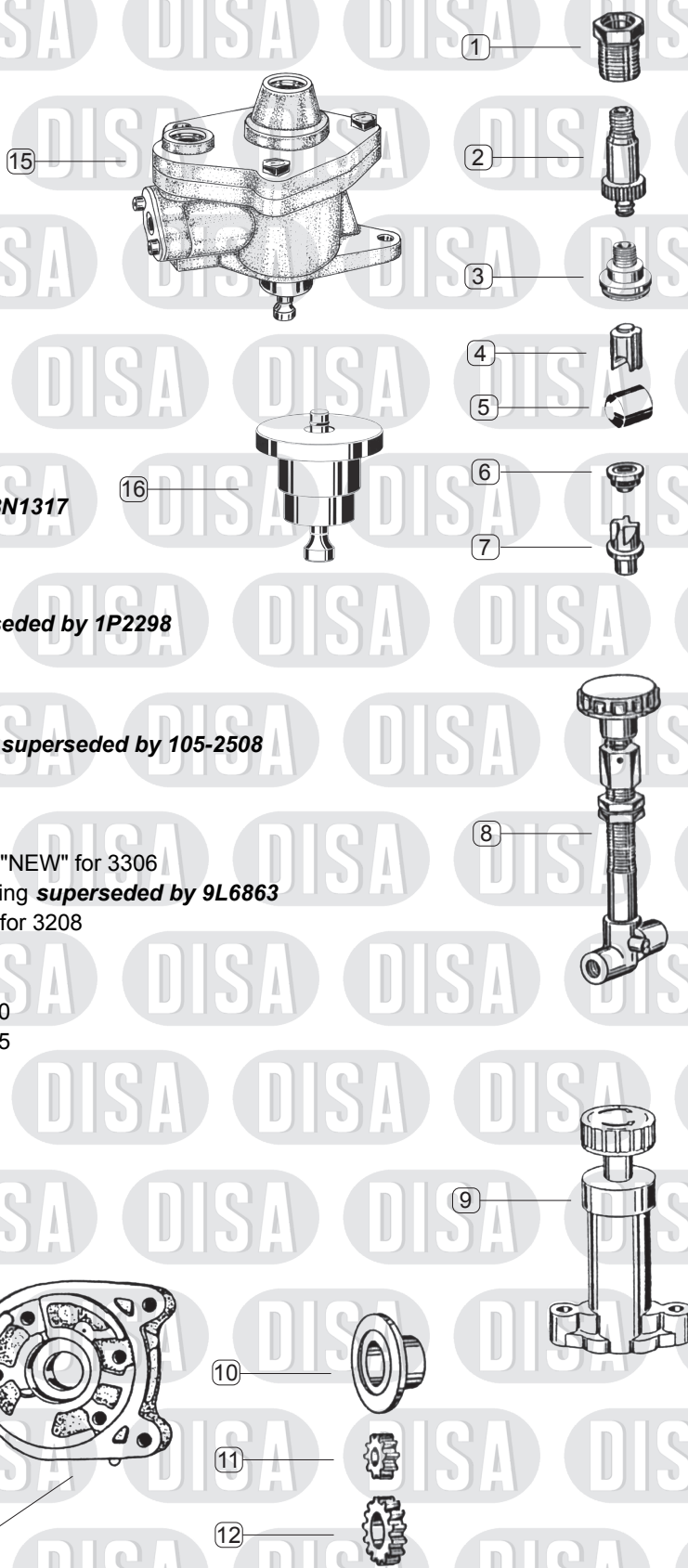
# CATERPILLAR - 3500 SERIE INJECTORS

| ITEM NO. | PART NO. | DESCRIPTION                                                                              |
|----------|----------|------------------------------------------------------------------------------------------|
| 1        | 7E3399   | P&B assy for injector 7E3384 - 7E3382 - 7E3383 - 7E3381 - 4P9075 - 4P9076 - 4P9077       |
| 2        | 7C0340   | Capsule nozzle for injector 7C0341 - 7C4173 - 7E3381 - 4P9075 - 7C9578                   |
|          | 7C0344   | Capsule nozzle for injector 9Y4544 - 7C0345 - 7C4175 - 7E3383 - 7C9576 - 4P9077          |
|          | 7C2238   | Capsule nozzle for injector 9Y1785 - 7C2239 - 4P9076 - 7C4174 - 7E3382 - 7C9577 - 7E3382 |
|          | 9Y0051   | Capsule nozzle for injector 9Y0052 - 7E3384 - 7E6408                                     |



# CATERPILLAR MISCELLANEOUS

| ITEM NO. | PART NO. | DESCRIPTION                                           |
|----------|----------|-------------------------------------------------------|
| 1        | 5H7225   | Nut                                                   |
| 2        | 7M4603   | Body                                                  |
|          | 8S2389   | Body                                                  |
| 3        | 108-2102 | Bonnet                                                |
|          | 1W9171   | Bonnet                                                |
|          | 4N0209   | Bonnet                                                |
|          | 4N2484   | Bonnet                                                |
|          | 6I1327   | Bonnet                                                |
|          | 7W8039   | Bonnet                                                |
|          | 8N1417   | Bonnet                                                |
|          | 8N2516   | Bonnet                                                |
|          | 8S3653   | Bonnet                                                |
|          | 9L6893   | Bonnet                                                |
| 4        | 6N6794   | Lifter                                                |
|          | 4N1750   | Lifter <b>superseded by 8N1317</b>                    |
|          | 8N1317   | Lifter                                                |
| 5        | 4N2685   | Roller                                                |
| 6        | 1P2298   | Valve assembly                                        |
|          | 7E5346   | Valve assembly <b>superseded by 1P2298</b>            |
| 7        | 4N1767   | Valve                                                 |
| 8        | 9H2256   | Primer pump assembly                                  |
| 9        | 105-2508 | Primer pump assembly                                  |
|          | 4W0788   | Primer pump assembly <b>superseded by 105-2508</b>    |
| 10       | 4N2954   | Sleeve                                                |
| 11       | 4N0406   | Idler gear                                            |
| 12       | 4N0429   | Drive gear                                            |
| 13       | 9L6863   | Transfer pump housing "NEW" for 3306                  |
|          | 4N1131   | Old transfer pump housing <b>superseded by 9L6863</b> |
| 14       | 4N1132   | Transfer pump housing for 3208                        |
| 15       | 1W1695   | Fuel transfer pump                                    |
|          | 1W1700   | Fuel transfer pump                                    |
| 16       | 1W5910   | Tappet assy. for 1W1700                               |
|          | 1W5912   | Tappet assy. for 1W1695                               |



# CATERPILLAR GLOW PLUGS

| ITEM NO. | PART NO. | DESCRIPTION                       |
|----------|----------|-----------------------------------|
| 1        | 1P7324   | Glow plug                         |
|          | 1P7912   | Glow plug (use 3T9561)            |
|          | 3H2033   | Glow plug                         |
|          | 3S9624   | Glow plug                         |
|          | 3T8705   | Glow plug                         |
|          | 3T8706   | Glow plug                         |
|          | 3T9561   | Glow plug                         |
|          | 3T9562   | Glow plug                         |
|          | 4N0184   | Glow plug                         |
|          | 4N0360   | Glow plug                         |
|          | 4S7824   | Glow plug                         |
|          | 6N1058   | Glow plug                         |
|          | 9N0194   | Glow plug                         |
|          | ZD - 1A  | Glow plug (FORD - NAVISTAR 6,9 L) |
|          | ZD - 9   | Glow plug (FORD - NAVISTAR 7,3 L) |
|          | ZD - 11  | Glow plug (POWER STROKE 7,3 L)    |
|          | ZD - 13  | Glow plug (POWER STROKE 6,0 L)    |



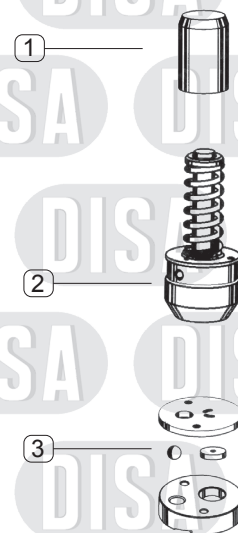
# CATERPILLAR GASKET KITS - FUEL SYSTEM

| ITEM NO. | PART NO. | DESCRIPTION                          |
|----------|----------|--------------------------------------|
|          | 3E3339   | Gasket kit for 3116 engine           |
|          | 5P8329   | Gasket kit for 3406 engine           |
|          | 5P9419   | Gasket kit for 3304 engine           |
|          | 5P9461   | Gasket kit for 3300 engine           |
|          | 6N1133   | Gasket kit for 3304,3306 engine      |
|          | 6V1167   | Gasket kit for 3412,3412C engine     |
|          | 6V2414   | Gasket kit for 3306 engine           |
|          | 6V2901   | Gasket kit for 3304,3306 engine      |
|          | 6V2909   | Gasket kit for 3208 engine           |
|          | 6V2914   | Gasket kit for 3306 engine           |
|          | 6V4707   | Gasket kit for 3306 engine           |
|          | 6V4780   | Gasket kit for 950B engine           |
|          | 6V4788   | Gasket kit for 3306 engine           |
|          | 6V5920   | Gasket kit for 3408 engine           |
|          | 6V8042   | Gasket kit for 3306,3306B engine     |
|          | 6V9725   | Gasket kit for 3406B engine          |
|          | 6V9894   | Gasket kit for 3406B engine          |
|          | 6V9897   | Gasket kit for 3508,3512,3516 engine |
|          | 6V9908   | Gasket kit for 3306 engine           |
|          | 8C5790   | Gasket kit for 3306,3306B engine     |
|          | 8T1653   | Gasket kit for 3306B engine          |
|          | 8T2500   | Gasket kit for 3408 engine           |
|          | 8T7539   | Gasket kit for 3306 engine           |
|          | 8T7562   | Gasket kit for 3306 engine           |
|          | 8T9081   | Gasket kit for 3406 engine           |
|          | 8T9484   | Gasket kit for 3304 engine           |

# CATERPILLAR - HEUI INJECTORS

## POWER STROKE - FORD 7,3 L AND NAVISTAR T444E APPLICATION

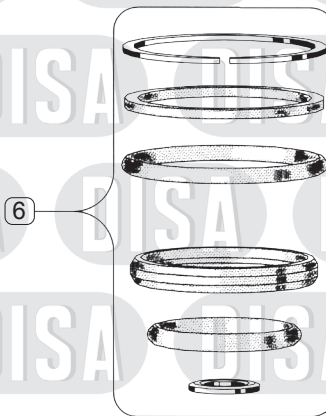
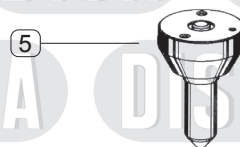
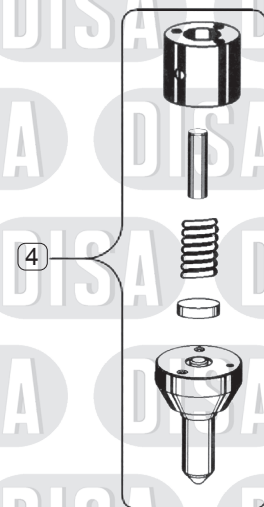
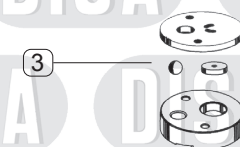
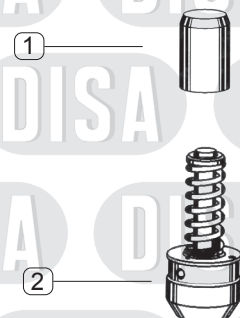
| ITEM NO. | PART NO. | DESCRIPTION                                             |
|----------|----------|---------------------------------------------------------|
| 1        | 13051/31 | Intensifier piston for injector Body Code AA            |
|          | 13050/31 | Intensifier piston for injector Body Code AB            |
|          | 13052/31 | Intensifier piston for injector Body Code AC            |
|          | 13056/31 | Intensifier piston for injector Body Code AD            |
|          | 13053/31 | Intensifier piston for injector Body Code AE            |
|          | 13058/31 | Intensifier piston for injector Body Code AF            |
| 2        | 06000/31 | P&B assy for injector Body Code AA                      |
|          | 06060/31 | P&B assy for injector Body Code AB - AF                 |
|          | 06001/31 | P&B assy for injector Body Code AC                      |
|          | 06061/31 | P&B assy for injector Body Code AD - AE                 |
| 3        | 11956/31 | Check valve assembly                                    |
| 4        | 41007/31 | Nozzle assembly for injector AA- AB - AC - AD - AE - AF |
| 5        | 41507/31 | Nozzle for injector AA - AB - AC - AD - AE - AF         |
| 6        | 80941/31 | External seal kit                                       |
| 7        | 80943/31 | Internal seal kit                                       |



# CATERPILLAR - HEUI INJECTORS

**POWER STROKE - NAVISTAR DT466E/I530E - PERKINS N1300  
DETROIT DIESEL 7,6L40E/8,7L40E APPLICATION**

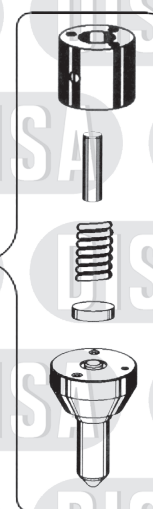
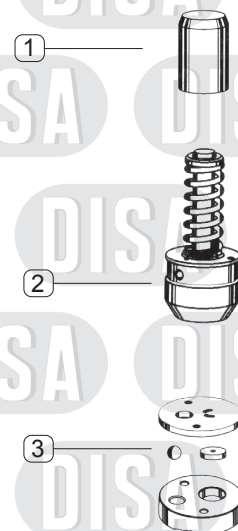
| ITEM NO. | PART NO. | DESCRIPTION                                                                       |
|----------|----------|-----------------------------------------------------------------------------------|
| 1        | 13052/31 | Intensifier piston for injector Body Code BA - BB - BC                            |
|          | 13055/31 | Intensifier piston for injector Body Code BD                                      |
|          | 13057/31 | Intensifier piston for injector Body Code BE                                      |
|          | 13054/31 | Intensifier piston for injector Body Code BF - BG - BI - BJ - BN - BP             |
|          | 06001/31 | P&B assy for injector Body Code BA - BB - BC                                      |
| 2        | 07100/31 | P&B assy for injector Body Code BD                                                |
|          | 06060/31 | P&B assy for injector Body Code BE                                                |
|          | 07160/31 | P&B assy for injector Body Code BF - BG - BI - BJ - BN - BP                       |
| 3        | 11956/31 | Check valve assembly for all injectors                                            |
| 4        | 41025/31 | Nozzle assembly for injector BA                                                   |
|          | 41015/31 | Nozzle assembly for injector BB                                                   |
|          | 41005/31 | Nozzle assembly for injector BC - BE                                              |
|          | 41035/31 | Nozzle assembly for injector BD                                                   |
|          | 41045/31 | Nozzle assembly for injector BF                                                   |
|          | 41006/31 | Nozzle assembly for injector BG - BJ                                              |
|          | 41016/31 | Nozzle assembly for injector BI                                                   |
|          | 41026/31 | Nozzle assembly for injector BN                                                   |
|          | 41036/31 | Nozzle assembly for injector BP                                                   |
| 5        | 41425/31 | Nozzle for injector BA                                                            |
|          | 41415/31 | Nozzle for injector BB                                                            |
|          | 41405/31 | Nozzle for injector BC - BE                                                       |
|          | 41435/31 | Nozzle for injector BD                                                            |
|          | 41445/31 | Nozzle for injector BF                                                            |
|          | 41506/31 | Nozzle for injector BG - BJ                                                       |
|          | 41516/31 | Nozzle for injector BI                                                            |
|          | 41526/31 | Nozzle for injector BN                                                            |
| 6        | 80941/31 | External seal kit                                                                 |
|          | 80944/31 | Internal seal kit - ( 4 O-Rings ) - for injector BD - BF - BG - BI - BJ - BN - BP |
| 8        | 80943/31 | Internal seal kit - ( 3 O-Rings ) - for injector BA - BB - BC - BE                |



# CATERPILLAR - HEUI INJECTORS

## POWER STROKE 3126B - 3126E - HI300

| ITEM NO. | PART NO. | DESCRIPTION                                                                                                               |
|----------|----------|---------------------------------------------------------------------------------------------------------------------------|
| 1        | 13054/31 | Intensifier piston for injector REMAN OR9349 - OR9350 - 10R0781<br>10R0782 10R1257 - 10R1306<br>10R8999                   |
|          | 13056/31 | Intensifier piston for injector REMAN OR9348 - 10R1262 - OR1050<br>10R1050                                                |
| 2        | 06063/31 | P&B assy for injector REMAN OR 9348 - 10R1262 - OR1050<br>10R1050                                                         |
|          | 07161/31 | P&B assy for injector REMAN OR9349 - OR9350 - 10R0781<br>10R0782 - 10R1257 - 10R8999                                      |
|          | 07162/31 | P&B assy for injector REMAN 10R1306                                                                                       |
| 3        | 11956/31 | Check valve assembly for all injectors                                                                                    |
| 4        | 41006/32 | Nozzle assembly for injector REMAN OR9348 - 10R1257                                                                       |
|          | 41016/32 | Nozzle assembly for injector REMAN OR9349                                                                                 |
|          | 41026/32 | Nozzle assembly for injector REMAN OR9350                                                                                 |
|          | 41036/32 | Nozzle assembly for injector REMAN 10R0781                                                                                |
|          | 41046/32 | Nozzle assembly for injector REMAN 10R0782 - 10R1262                                                                      |
|          | 41007/32 | Nozzle assembly for injector REMAN OR1050 - 10R1050                                                                       |
|          | 41056/32 | Nozzle assembly for injector REMAN 10R1306                                                                                |
|          | 41066/32 | Nozzle assembly for injector REMAN 10R8999                                                                                |
| 5        | 41406/32 | Nozzle for injector REMAN OR9348 - OR9350 - 10R1257                                                                       |
|          | 41416/32 | Nozzle for injector REMAN OR9349 - 10R0782 - 10R1262                                                                      |
|          | 41446/32 | Nozzle for injector REMAN 10R0781                                                                                         |
|          | 41407/32 | Nozzle for injector REMAN OR1050 - 10R1050                                                                                |
|          | 41456/32 | Nozzle for injector REMAN 10R1306                                                                                         |
|          | 41466/32 | Nozzle for injector REMAN 10R8999                                                                                         |
| 6        | 242-1539 | External seal kit                                                                                                         |
| 7        | 80944/31 | Internal seal kit - ( 4 O-Rings ) - for injector REMAN OR9349<br>OR9350 - 10R0781 - 10R0782 - 10R1257 - 10R1306 - 10R8999 |
| 8        | 80943/31 | Internal seal kit - ( 3 O-Rings ) - for injector REMAN OR9348<br>10R1262 - OR1050 - 10R1050                               |

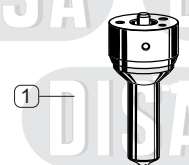
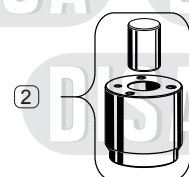
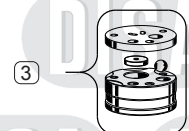
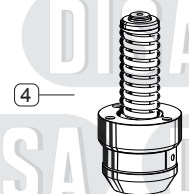
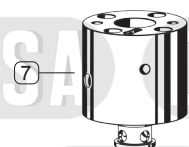


# CATERPILLAR - HEUI INJECTORS

## C7

| ITEM NO. | PART NO. | DESCRIPTION                                                                 |
|----------|----------|-----------------------------------------------------------------------------|
| 1        | 41926/32 | Nozzle assembly for injector REMAN 10R4761 - (*)                            |
|          | 41956/32 | Nozzle assembly for injector REMAN 10R4762 - ( * )                          |
|          | 41976/32 | Nozzle assembly for injector REMAN 10R4763 - 10R7225 ( * )                  |
| 2        | 23250/32 | Oil control assy. for injector REMAN 10R4761<br>10R4762 - 10R4763 - 10R7225 |
| 3        | 11957/32 | Check valve assy. for injector REMAN 10R4761<br>10R4762 - 10R4763 - 10R7225 |
| 4        | 06800/32 | P&B assy. for injector REMAN 10R4761 - 10R4762 - 10R4763 - 10R7225          |
| 5        | 13701/32 | Hydraulic plate for injector REMAN 10R4761 - 10R4762                        |
|          | 13711/32 | Hydraulic plate for injector REMAN 10R4763                                  |
| 6        | 13702/32 | Hydraulic connector plate II for injector REMAN 10R4761<br>10R4762          |
|          | 13712/32 | Hydraulic connector plate II for injector REMAN 10R4763                     |
| 7        | 23940/32 | Spool valve assy. for injector REMAN 10R4761 - 10R4762<br>10R4763 - 10R7225 |
| 8        | 13703/32 | Spool vent plate for injector REMAN 10R4761 - 10R4762<br>10R4763            |

Note - (\*) For CATERPILLAR original injector p/n ask

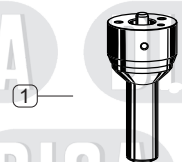
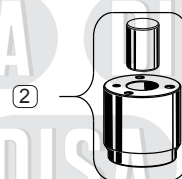
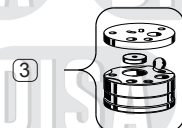
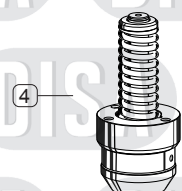
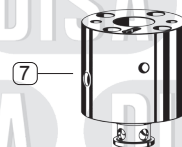


# CATERPILLAR - HEUI INJECTORS

## C9

| ITEM NO. | PART NO. | DESCRIPTION                                                                                      |
|----------|----------|--------------------------------------------------------------------------------------------------|
| 1        | 41905/32 | Nozzle assembly for injector REMAN 10R4764 - 10R7222 - ( * )                                     |
|          | 41906/32 | Nozzle assembly for injector REMAN 10R4843 - ( * )                                               |
|          | 41915/32 | Nozzle assembly for injector REMAN 10R4844 - ( * )                                               |
|          | 41925/32 | Nozzle assembly for injector REMAN 10R9001 - ( * )                                               |
| 2        | 23250/32 | Oil control assy. for injector REMAN 10R4764 - 10R4843<br>10R4844 - 10R7222 - 10R9001            |
| 3        | 11957/32 | Check valve assy. for injector REMAN 10R4764 - 10R4843<br>10R4844 - 10R7222 - 10R9001            |
| 4        | 06800/32 | P&B assy. for injector REMAN 10R4764 - 10R4843 - 10R4844<br>10R7222 - 10R9001                    |
| 5        | 13711/32 | Hydraulic plate for injector REMAN 10R4764 - 10R4843<br>10R4844 - 10R7222 - 10R9001              |
| 6        | 13712/32 | Hydraulic connector plate II for injector REMAN 10R4764<br>10R4843 - 10R4844 - 10R7222 - 10R9001 |
| 7        | 23940/32 | Spool valve assy. for injector REMAN 10R4764 - 10R4843<br>10R4844 - 10R7222 - 10R9001            |
| 8        | 13703/32 | Spool vent plate for injector REMAN 10R4764 - 10R4843                                            |

Note - ( \* ) For CATERPILLAR original injector p/n ask.

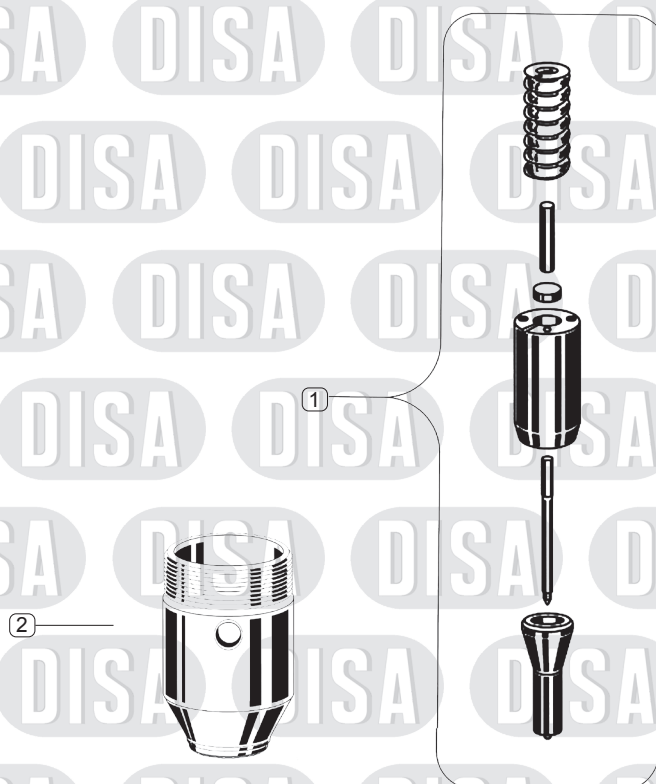


# CATERPILLAR MUI INJECTORS

## 3114 - 3116 - 3126

| ITEM NO. | PART NO. | DESCRIPTION                                        |
|----------|----------|----------------------------------------------------|
| 1        | 41955/31 | Nozzle Assy for injector - Reman Code OR8473 - (*) |
|          | 41956/31 | Nozzle Assy for injector - Reman Code OR8469 - (*) |
|          | 41966/31 | Nozzle Assy for injector - Reman Code OR8682 - (*) |
|          | 41986/31 | Nozzle Assy for injector - Reman Code OR8684 - (*) |
|          | 41996/31 | Nozzle Assy for injector - Reman Code OR8461 - (*) |
| 2        | 15016/31 | Nut, nozzle                                        |

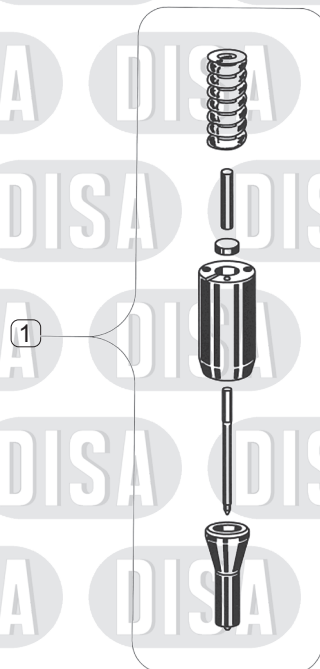
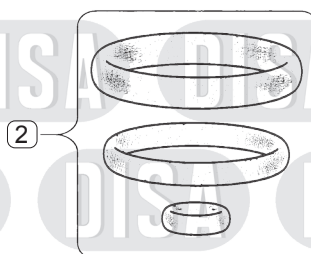
Note - (\*) For CATERPILLAR original injector p/n ask



# CATERPILLAR EUI INJECTORS C10 - C12

| ITEM NO. | PART NO. | DESCRIPTION                                         |
|----------|----------|-----------------------------------------------------|
| 1        | 41936/32 | Nozzle Assy for injector - Reman Code 10R1259 - (*) |
|          | 41946/31 | Nozzle Assy for injector - Reman Code 10R0963 - (*) |
| 2        | 224-5797 | External seal kit                                   |

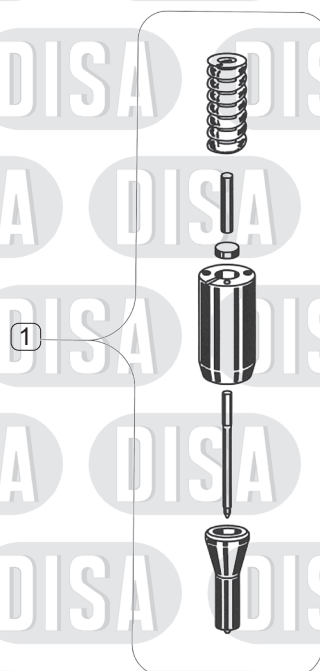
Note - (\*) For CATERPILLAR original injector p/n ask



# CATERPILLAR EUI INJECTORS C13

| ITEM NO. | PART NO. | DESCRIPTION                                         |
|----------|----------|-----------------------------------------------------|
| 1        | 41996/32 | Nozzle Assy for injector - Reman Code 10R2977 - (*) |

Note - (\*) For CATERPILLAR original injector p/n ask

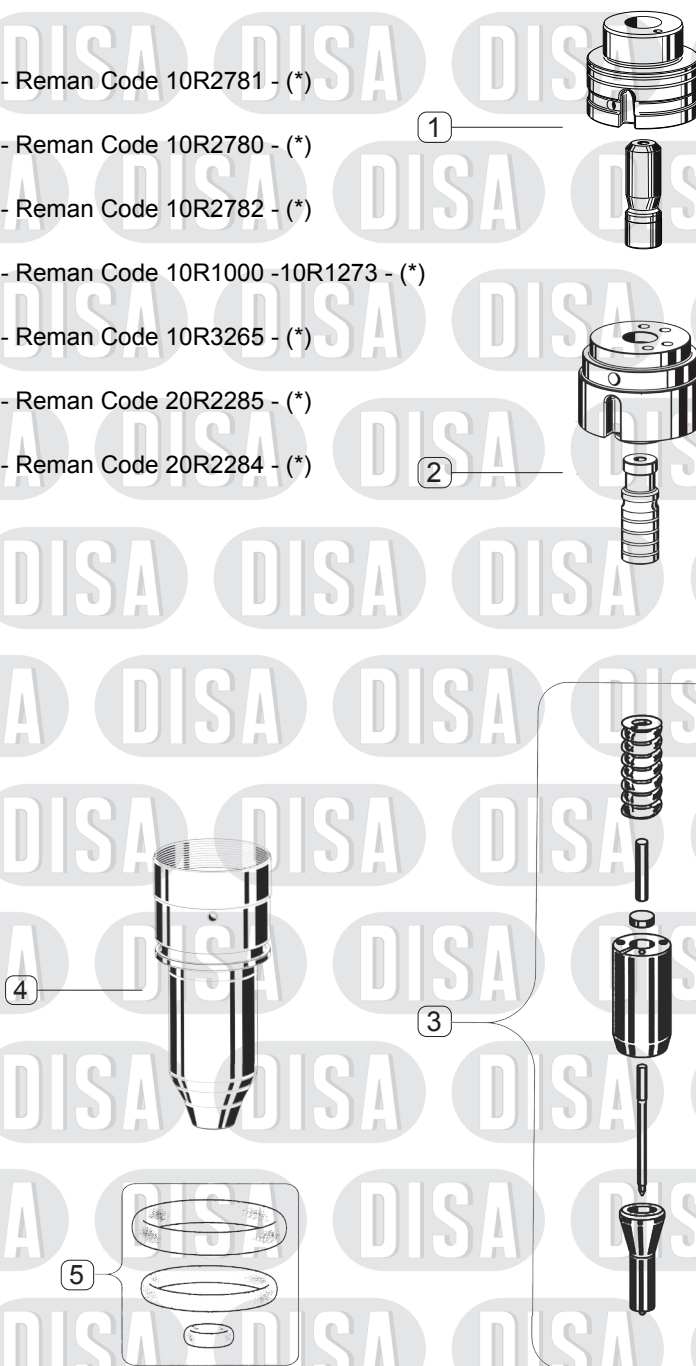
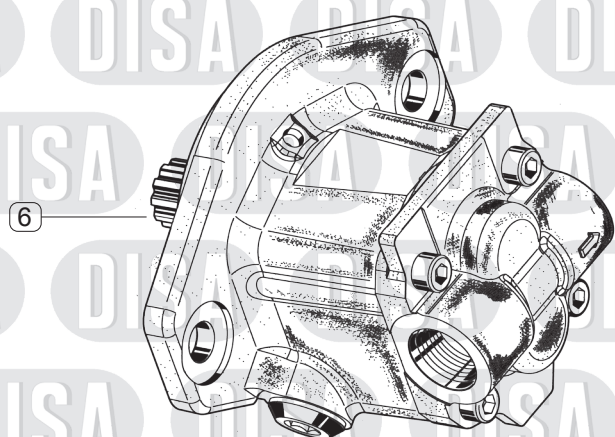


# CATERPILLAR EUI INJECTORS

## 3406E/C15 - C16 - C18 - C27 - C32

| ITEM NO. | PART NO. | DESCRIPTION                                                  |
|----------|----------|--------------------------------------------------------------|
| 1        | 23952/31 | Control Valve                                                |
| 2        | 23953/31 | Control Valve                                                |
| 3        | 41916/31 | Nozzle Assy for injector - Reman Code 10R2781 - (*)          |
|          | 41926/31 | Nozzle Assy for injector - Reman Code 10R2780 - (*)          |
|          | 41936/31 | Nozzle Assy for injector - Reman Code 10R2782 - (*)          |
|          | 41976/31 | Nozzle Assy for injector - Reman Code 10R1000 -10R1273 - (*) |
|          | 41946/32 | Nozzle Assy for injector - Reman Code 10R3265 - (*)          |
|          | 41986/32 | Nozzle Assy for injector - Reman Code 20R2285 - (*)          |
|          | 41966/32 | Nozzle Assy for injector - Reman Code 20R2284 - (*)          |
| 4        | 15017/31 | Nut, nozzle                                                  |
| 5        | 248-1394 | External seal kit                                            |
| 6        | 384-8612 | Fuel Supply Pump                                             |
|          | 384-8611 | Fuel Supply Pump                                             |
|          | 388-7285 | Fuel Supply Pump                                             |

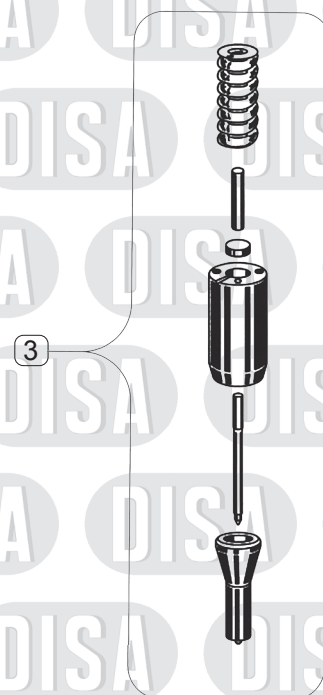
Note - (\*) For CATERPILLAR original injector p/n ask



# CATERPILLAR EUI INJECTORS 3500B

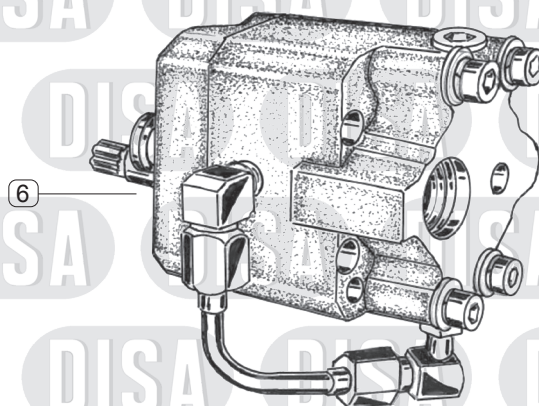
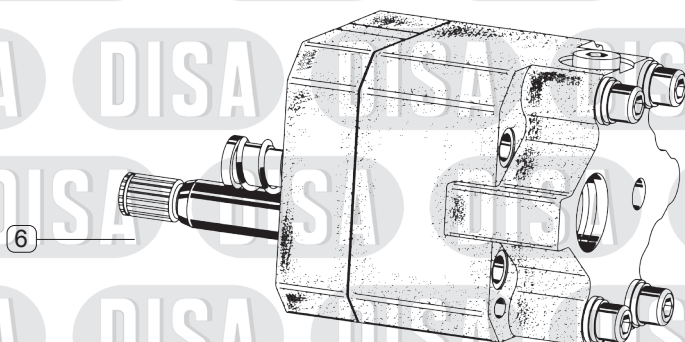
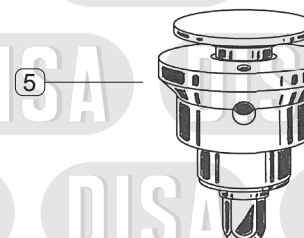
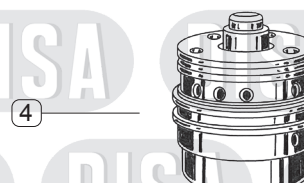
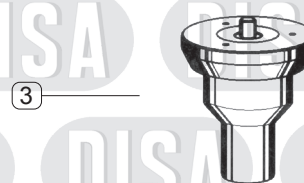
| ITEM NO. | PART NO. | DESCRIPTION                                                     |
|----------|----------|-----------------------------------------------------------------|
| 1        | 23952/31 | Control Valve                                                   |
| 2        | 23953/31 | Control Valve                                                   |
| 3        | 41908/31 | Nozzle Assy for injector - Reman Code 20R0849 - 20R1275 - ( * ) |
|          | 41910/31 | Nozzle Assy for injector - Reman Code 20R1264 - ( * )           |
|          | 41918/31 | Nozzle Assy for injector - Reman Code 20R0850 - ( * )           |
|          | 41928/31 | Nozzle Assy for injector - Reman Code 20R1270 - ( * )           |
|          | 41957/31 | Nozzle Assy for injector - Reman Code 20R1280 - ( * )           |
|          | 41958/31 | Nozzle Assy for injector - Reman Code 20R1278 - ( * )           |
|          | 41997/31 | Nozzle Assy for injector - Reman Code 20R1279 - ( * )           |

Note - ( \* ) For CATERPILLAR original injector p/n ask



# CUMMINS INJECTORS - CELECT SERIES

| ITEM NO. | PART NO. | DESCRIPTION                                       |
|----------|----------|---------------------------------------------------|
| 1        | 54204/30 | Seat, valve spring - thickness = .1145            |
|          | 3067426  | Seat, valve spring - thickness = .1185            |
|          | 54206/30 | Seat, valve spring - thickness = .1235            |
| 2        | 3066736  | Cage, injector valve spring                       |
| 3        | 3066733  | Tip assembly, marked 3076071 for injector 3652542 |
|          | 3079964  | Tip assembly, marked 3079963 for injector 3652540 |
|          | 3087790  | Tip assembly, marked 3087791 for injector 3411763 |
|          | 3084591  | Tip assembly, marked 3084592 for injector 3411752 |
|          | 3088176  | Tip assembly, marked 3088175 for injector 3411764 |
|          | 3095042  | Tip assembly, marked 3095043 for injector 3411753 |
|          | 3095728  | Tip assembly, marked 3095729 for injector 3411754 |
|          | 3095733  | Tip assembly, marked 3095734 for injector 3411755 |
|          | 3409977  | Tip assembly, marked 3409978 for injector 3411762 |
|          | 3411387  | Tip assembly, marked 3411388 for injector 3411767 |
|          | 3411403  | Tip assembly, marked 3411404 for injector 3411758 |
|          | 3411689  | Tip assembly, marked 3411690 for injector 3411765 |
|          | 3411693  | Tip assembly, marked 3411694 for injector 3411766 |
|          | 3609851  | Tip assembly, marked 3609852 for injector 3411761 |
|          | 3609854  | Tip assembly, marked 3609855 for injector 3411760 |
|          | 3609860  | Tip assembly, marked 3609861 for injector 3411759 |
|          | 3609924  | Tip assembly, marked 3609925 for injector 3411756 |
|          | 4026224  | Tip assembly, marked 4026225 for injector 4026222 |
|          | 4061853  | Tip assembly, marked 4061854 for injector 4061851 |
|          | 4902922  | Tip assembly, marked 4902924 for injector 4902921 |
|          | 4902928  | Tip assembly, marked 4902928 for injector 4902925 |
|          | 4903322  | Tip assembly, marked 4903322 for injector 4903319 |
|          | 4903475  | Tip assembly, marked 4903475 for injector 4903472 |
|          | 4928174  | Tip assembly, marked 4928174 for injector 4928171 |
| 4        | 3411711  | Metering p&b assy (male configuration)            |
|          | 3072450  | Metering p&b assy (female configuration)          |
| 5        | 3034407  | Fuel control valve                                |
| 6        | 4954880  | Fuel supply pump                                  |
|          | 4010324  | Fuel supply pump - <b>superseded by 4954880</b>   |
|          | 4010253  | Fuel supply pump - <b>superseded by 4954880</b>   |



# JOHN DEERE PENCIL NOZZLES

| ITEM NO. | PART NO.       | OTHER PART NO.                           | DESCRIPTION                |
|----------|----------------|------------------------------------------|----------------------------|
| 1        | 27333<br>27336 | (see annexed p/n.)<br>(see annexed p/n.) | Nozzle assy<br>Nozzle assy |

| 27333 - Nozzle assy. - other p/n. |          |          |          |       |
|-----------------------------------|----------|----------|----------|-------|
| 17574                             | 20501    | 22042    | 22043    | 22202 |
| AR-88239                          | AR-89564 | AR-89563 |          |       |
| 27336 - Nozzle assy. - other p/n. |          |          |          |       |
| 22044                             | 22264    | 27337    | AR-90024 | B7336 |

