

# CATERPILLAR 990K

A9P / SEBP6749

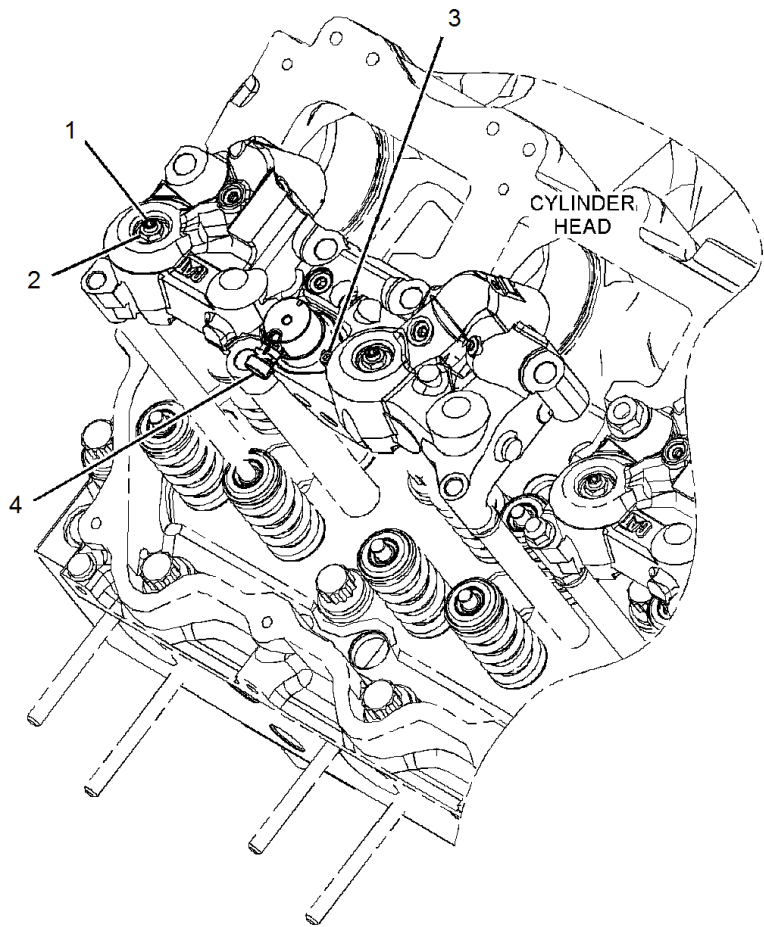
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377-8599 ACTUATOR AS-VALVE

377-8599 ACTUATOR AS-VALVE S/N NHT1-UP 24-VOLT. CAT BRAKE PART OF 379-3929 ACTUATOR GP-VALVE

Drawing 1 of 1

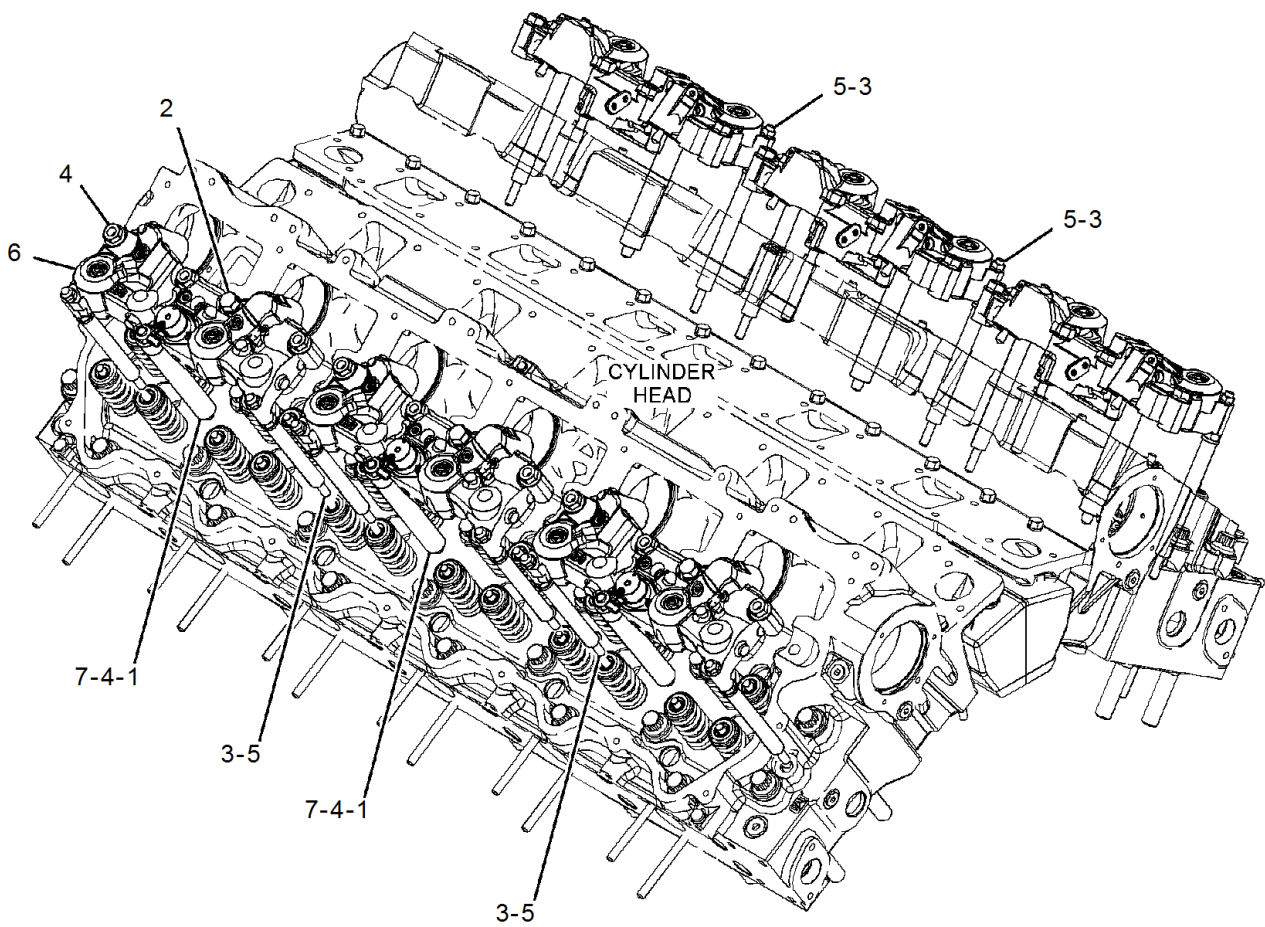


| Ref. | Part number | Description           | Qty | Code | Group page |
|------|-------------|-----------------------|-----|------|------------|
| 1    | 230-9446    | SCREW-ADJUSTMENT      | 2   |      |            |
| 2    | 230-9447    | NUT-JAM (5/16-24-THD) | 2   |      |            |
| 3    | 236-5958    | BOLT (M5X0.8X10-MM)   | 2   |      |            |
| 4    | 250-9378    | VALVE AS-BRAKE        | 1   |      |            |

379-3929 ACTUATOR GP-VALVE

379-3929 ACTUATOR GP-VALVE S/N NHT1-UP PART OF 388-3923 ENGINE AR-CORE

Drawing 1 of 1



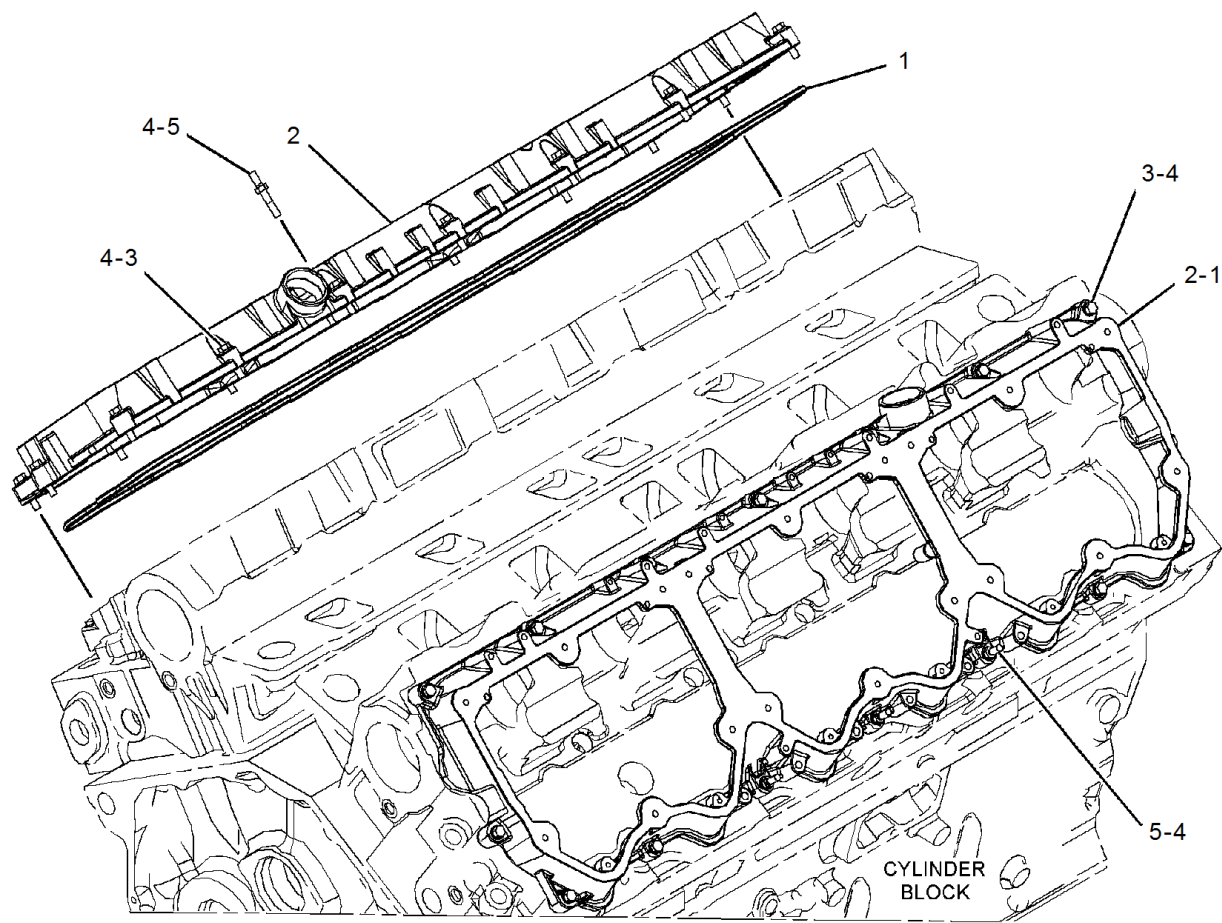
| Ref. | Part number | Description                              | Qty | Code | Group page |
|------|-------------|------------------------------------------|-----|------|------------|
| 1    | 234-9505    | SUPPORT                                  | 6   |      |            |
| 2    | 234-9508    | BOLT (1/2-13X5.65-IN)                    | 6   |      |            |
| 3    | 235-1088    | NUT (3/8-16-THD)                         | 12  |      |            |
| 4    | 235-1089    | NUT-FLANGE (1/2-13-THD)                  | 24  |      |            |
| 5    | 282-3731    | SPACER AS                                | 12  |      |            |
| 6    | 377-8599    | ACTUATOR AS-VALVE                        | 6   | Y    |            |
| 7    | 8T-7062     | STUD-TAPERLOCK (1/2-13X55, 1/2-13X21-MM) | 6   |      |            |

CAT codes: R, Y.

347-4257 BASE GP-VALVE COVER

347-4257 BASE GP-VALVE COVER S/N NHT1-UP PART OF 388-3923, 388-3924 ENGINE AR-CORE

Drawing 1 of 1

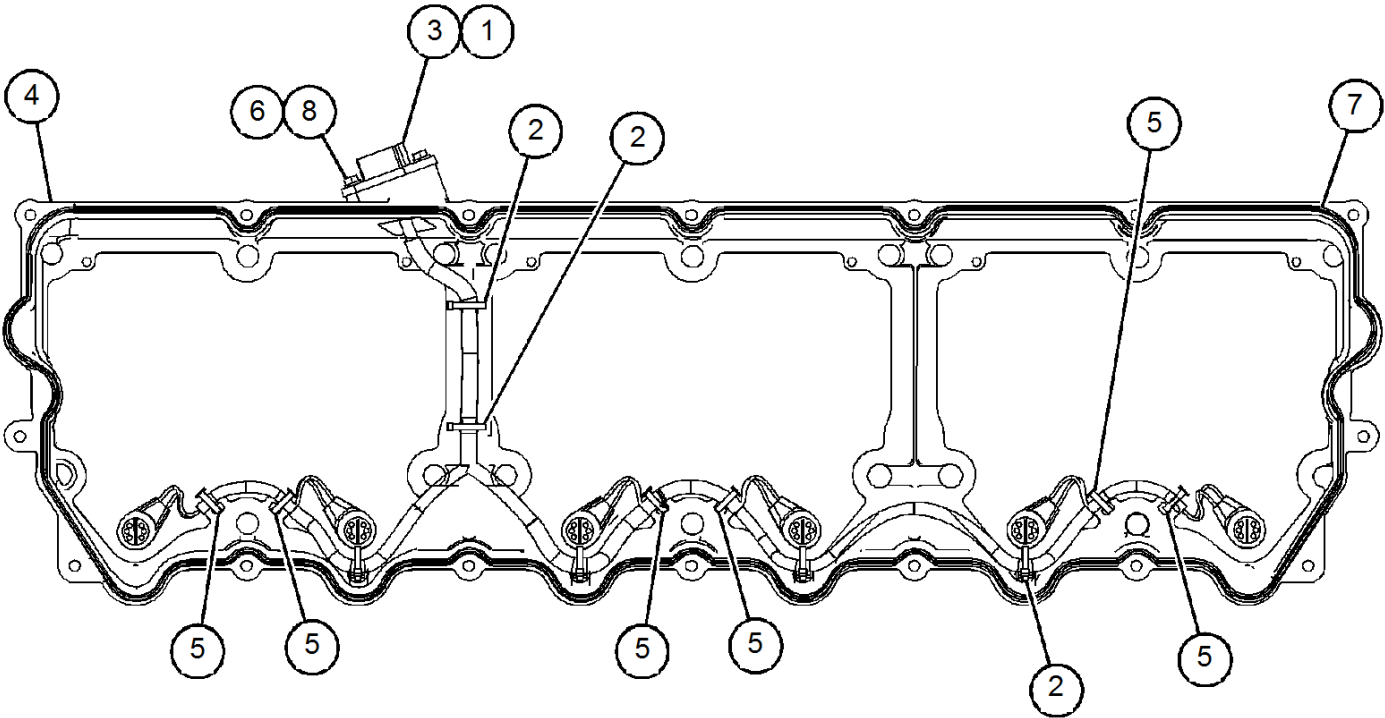


| Ref. | Part number | Description                   | Qty | Code | Group page |
|------|-------------|-------------------------------|-----|------|------------|
| 1    | 222-6456    | SEAL (VALVE COVER BASE)       | 2   |      |            |
| 2    | 352-3827    | BASE-VALVE COVER              | 2   |      |            |
| 3    | 1A-9579     | BOLT (5/16-18X1.5-IN)         | 25  |      |            |
| 4    | 9M-1974     | WASHER-HARD (8.8X16X2-MM THK) | 32  |      |            |
| 5    | 237-3759    | STUD (5/16-18X2.36-IN)        | 7   |      |            |

226-4927 BASE GP-VALVE COVER & INJ HARN

226-4927 BASE GP-VALVE COVER & INJ HARN S/N NZT1-UP PART OF 395-3227 BASE GP-VALVE COVER & INJ HARN

Drawing 1 of 1



BOTTOM VIEW OF ENGINE

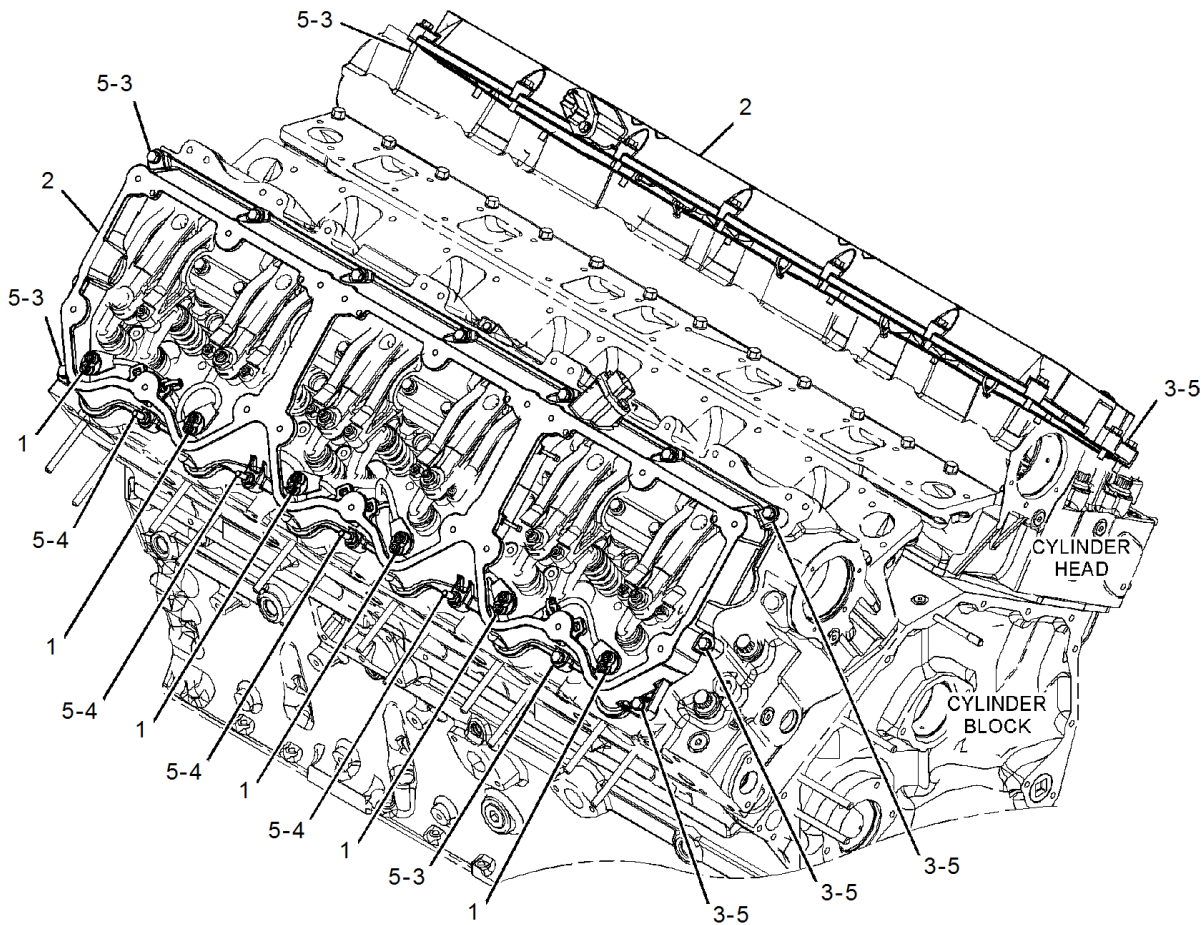
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|------|-------------|-----------------------------------|------|------|------------|
| 1    | 6V-0128     | SEAL-CONNECTOR                    | 1    |      |            |
| 2    | 326-4512    | MOUNTING-CABLE TIE                | 6    |      |            |
| 3    | 435-8538    | HARNESS AS-ENGINE (UNIT INJECTOR) | 1    | CY   |            |
| 4    | 442-5727    | BASE-VALVE COVER                  | 1    |      |            |
| 5    | 123-3202    | STRAP-CABLE                       | 6    |      |            |
| 6    | 1H-3337     | BOLT (1/4-20X0.875-IN)            | 2    |      |            |
| 7    | 222-6456    | SEAL (VALVE COVER BASE)           | 1    |      |            |
| 8    | 8T-4205     | WASHER-HARD (7.2X14.5X2-MM THK)   | 2    |      |            |

CAT codes: C, Y.

395-3227 BASE GP-VALVE COVER & INJ HARN

395-3227 BASE GP-VALVE COVER & INJ HARN S/N NZT1-UP PART OF 393-2609 ENGINE AR-CORE FOR USE WITH COMPRESSION BRAKES

Drawing 1 of 1



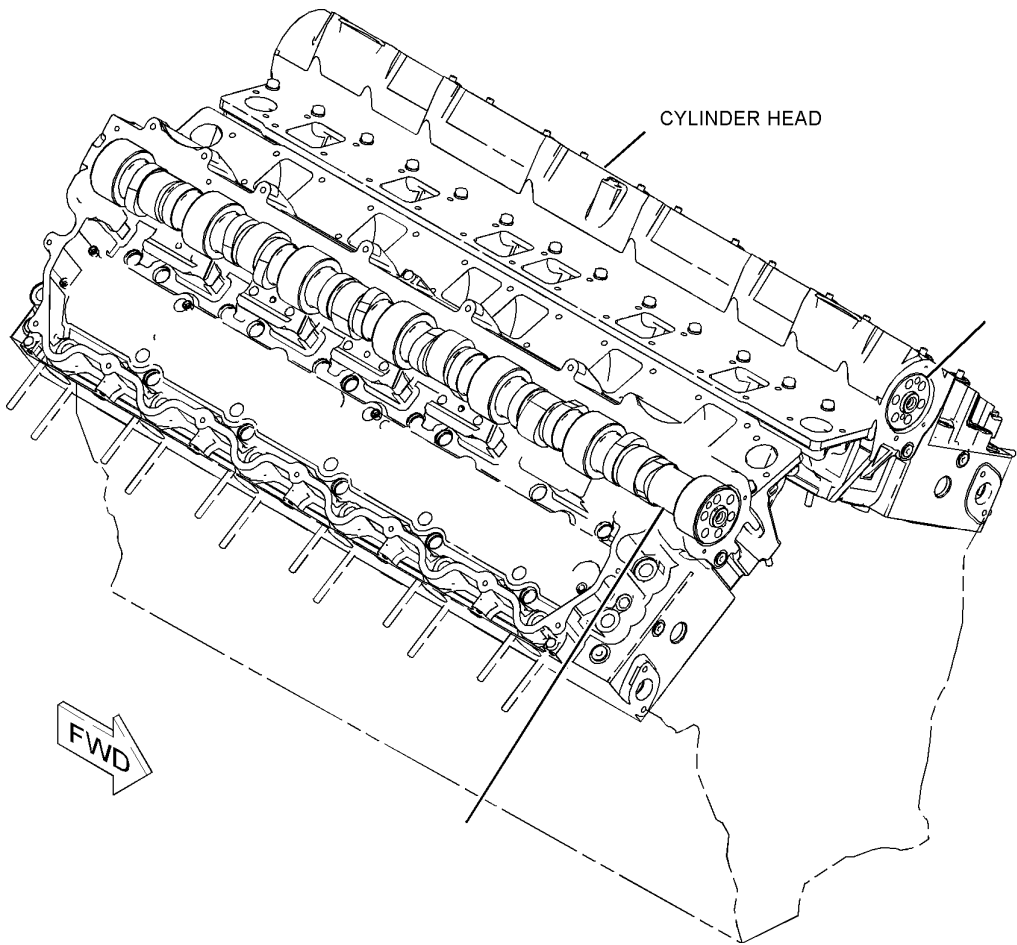
| Ref. | Part number | Description                    | Qty | Code | Group page |
|------|-------------|--------------------------------|-----|------|------------|
| 1    | 7E-6508     | CAP AS                         | 12  |      |            |
| 2    | 226-4927    | BASE GP-VALVE COVER & INJ HARN | 2   | Y    |            |
| 3    | 1A-9579     | BOLT (5/16-18X1.5-IN)          | 24  |      |            |
| 4    | 237-3759    | STUD (5/16-18X2.36-IN)         | 8   |      |            |
| 5    | 9M-1974     | WASHER-HARD (8.8X16X2-MM THK)  | 32  |      |            |

CAT codes: Y.

260-9306 CAMSHAFT GP

260-9306 CAMSHAFT GP S/N NZT1-UP PART OF 393-2609 ENGINE AR-CORE

Drawing 1 of 1



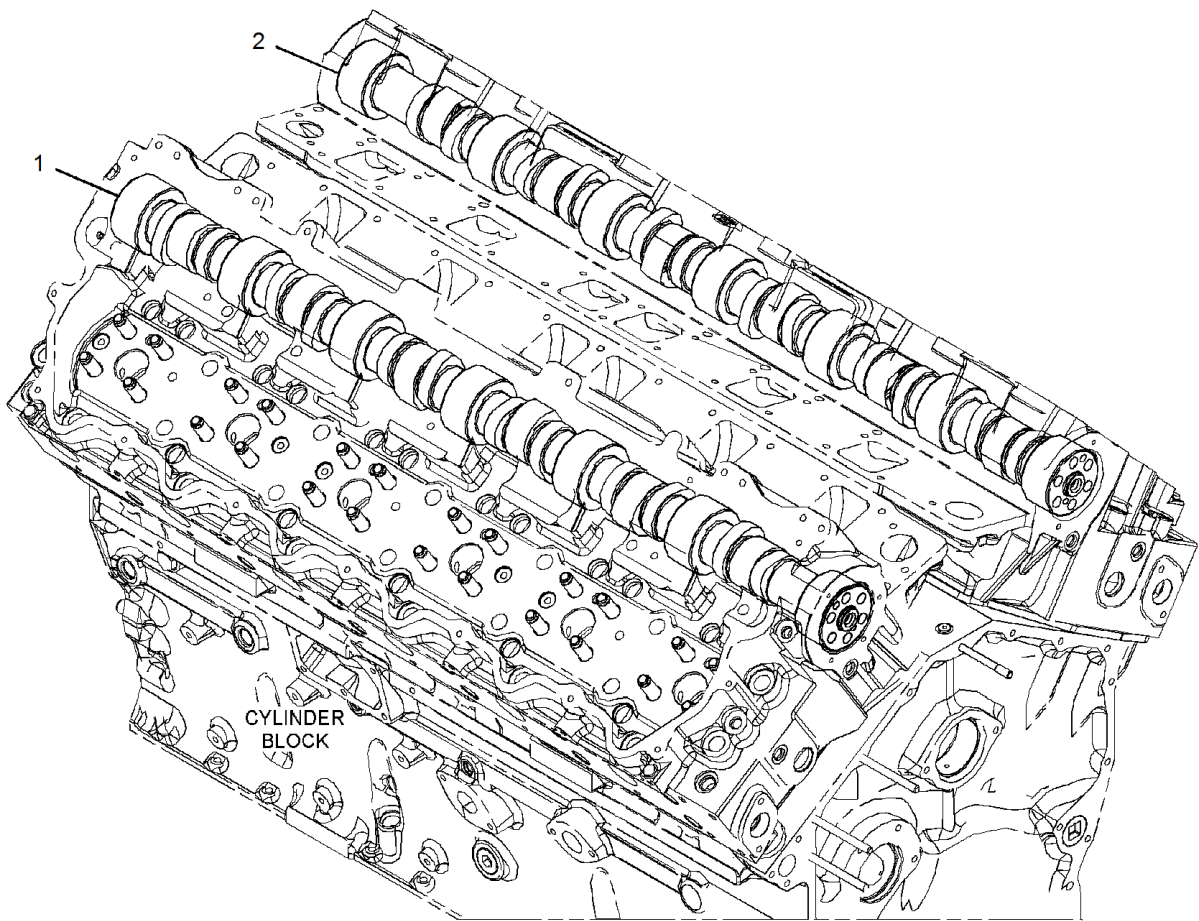
| Ref. | Part number | Description           | Qty | Code | Group page |
|------|-------------|-----------------------|-----|------|------------|
| 1    | 421-0087    | CAMSHAFT (RIGHT BANK) | 1   | C    |            |
| 2    | 421-0097    | CAMSHAFT (LEFT BANK)  | 1   | CJ   |            |

CAT codes: C, J, R.

346-9558 CAMSHAFT GP

346-9558 CAMSHAFT GP S/N NHT1-UP PART OF 388-3923, 388-3924 ENGINE AR-CORE

Drawing 1 of 1



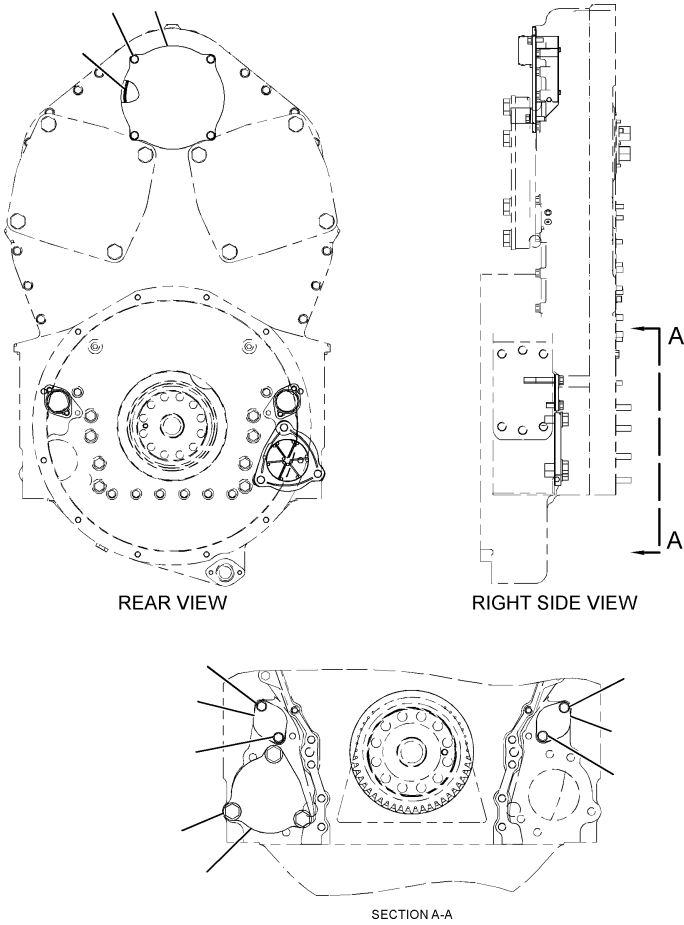
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|------|-------------|-----------------------|-----|------|------------|
| 1    | 420-0455    | CAMSHAFT (RIGHT BANK) | 1   | J    |            |
| 2    | 420-0456    | CAMSHAFT (LEFT BANK)  | 1   | J    |            |

CAT codes: J, R.

226-7622 COVER GP-CYLINDER BLOCK -REAR STRUCTURE

226-7622 COVER GP-CYLINDER BLOCK -REAR STRUCTURE S/N NHT1-UP; NZT1-UP PART OF 380-2453 ENGINE AR, 388-0684, 388-0685, 388-0686, 388-0687 ENGINE AR-COMPLETE

Drawing 1 of 1



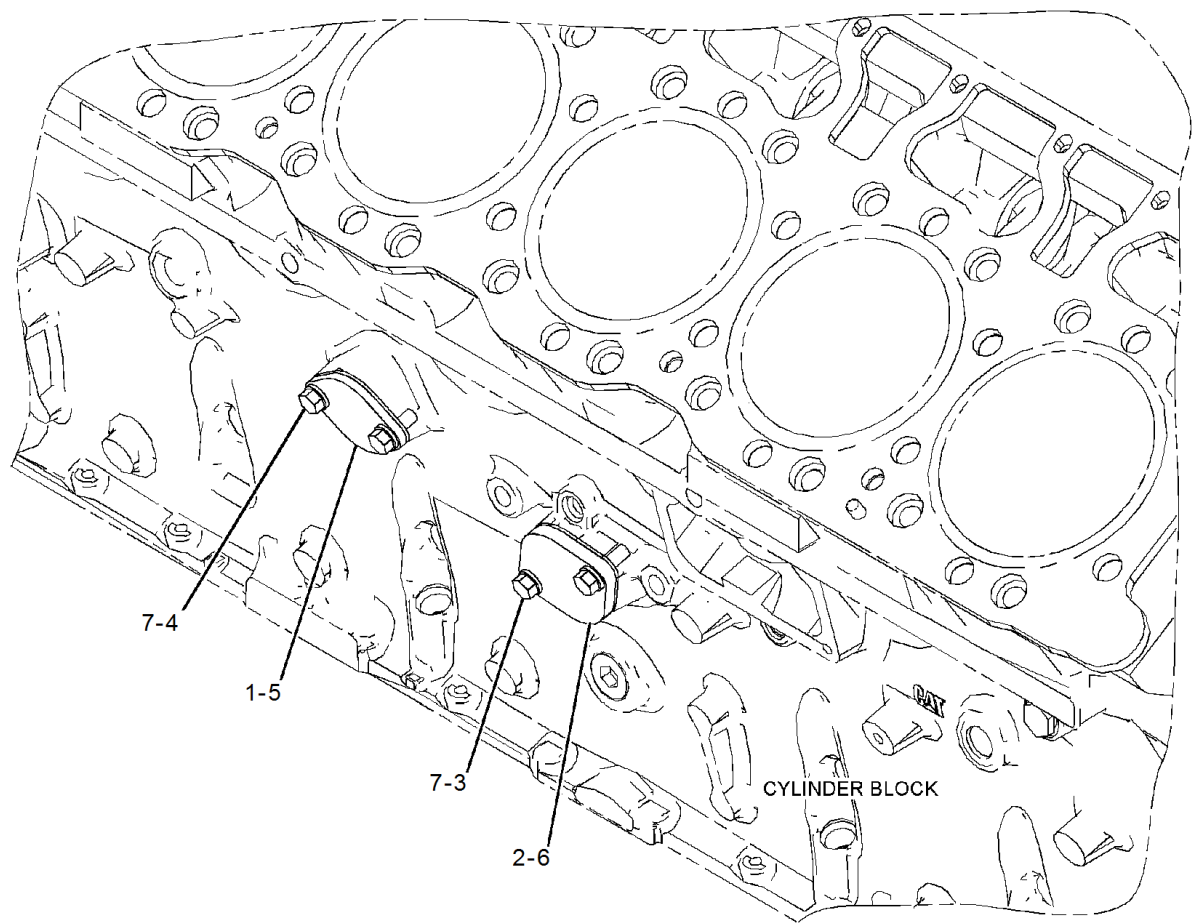
| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 4N-1114     | COVER                              | 1   |      |            |
| 2    | 9Y-6089     | GASKET                             | 1   |      |            |
| 3    | 227-5538    | SEAL-O-RING                        | 1   | C    |            |
| 4    | 234-8937    | SEAL-INTEGRAL                      | 2   |      |            |
| 5    | 273-8703    | COVER                              | 1   | C    |            |
| 6    | 9X-6380     | BOLT (5/8-11X1.5-IN)               | 3   |      |            |
| 7    | 0S-1619     | BOLT (3/8-16X3-IN)                 | 2   |      |            |
| 8    | 1A-2029     | BOLT (3/8-16X1.125-IN)             | 6   | C    |            |
| 9    | 2P-2772     | COVER                              | 2   |      |            |
| 10   | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 8   |      |            |
| 11   | 5P-8247     | WASHER-HARD (17X32X3.5-MM THK)     | 3   |      |            |

CAT codes: C.

347-4107 COVER GP-CYLINDER BLOCK

347-4107 COVER GP-CYLINDER BLOCK S/N NHT1-UP CENTRAL STRUCTURE PART OF 380-2453 ENGINE AR, 388-0684, 388-0685, 388-0686 ENGINE AR-COMPLETE

Drawing 1 of 1



| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 234-8937    | SEAL-INTEGRAL                      | 1   |      |            |
| 2    | 239-5572    | SEAL-INTEGRAL                      | 1   |      |            |
| 3    | 0S-1588     | BOLT (3/8-16X1.25-IN)              | 2   |      |            |
| 4    | 0S-1594     | BOLT (3/8-16X1-IN)                 | 2   |      |            |
| 5    | 2P-2772     | COVER                              | 1   |      |            |
| 6    | 4N-0794     | COVER                              | 1   |      |            |
| 7    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 4   |      |            |

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