

HOLDEN GEMINI

| Application | RPM Range | Part No. | Adv. Duration | | .050" Duration | | Valve Lift | | LSA | Lash | Oil Additive | Lifters | Valve Spring | Installed Height | Retainer | Locks | Stem Seal | Timing Kit | Pushrods | Rockers |
|--|-------------|----------|---------------|---------|----------------|---------|------------|---------|-----|------|--------------|---------|--------------|---------------------|----------|----------|-----------|------------|----------|---------|
| | | | Intake | Exhaust | Intake | Exhaust | Intake | Exhaust | | | | | | | | | | | | |
| 1600 1800 2000 NOTE: 1800cc and 2000cc engines use timing kit CS41800 | | | | | | | | | | | | | | | | | | | | |
| Mild cam to suit standard engine | 2000 - 6000 | 782507 | 276 | 276 | 212 | 212 | .425" | .425" | 107 | | | | | 5840-8 ^D | 1.550" | Standard | Standard | | CS41600 | |
| Medium performance suit modified engine needs extractors | 2500 - 6500 | 782508 | 284 | 284 | 218 | 218 | .425" | .425" | 105 | | | | | 5840-8 ^D | 1.550" | Standard | Standard | | CS41600 | |
| Hot street engine needs comp, carbies and good exhaust system | 3000 - 7000 | 782509 | 288 | 288 | 225 | 226 | .466" | .466" | 109 | | | | | 5833-8 ^D | 1.550" | Standard | Standard | | CS41600 | |
| Race cam needs cyl.head mods, comp, carbies & good exhaust | 3500 - 7800 | 782510 | 297 | 297 | 235 | 235 | .490" | .490" | 107 | | | | | 5833-8 ^D | 1.550" | Standard | Standard | | CS41600 | |

HOLDEN 6 CYLINDER ROCKER RATIO 1.50

| RED/BLUE & BLACK HYDRAULIC | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-----|-----|-----|-----|-------|-------|-----|--|--|----------|----------------|------------------------|--|------------------|----------------------|----------------------|------------------------|--------------|------------------------|----------------------|
| STD replacement cam, suit carbie | 800 - 3200 | 35002 | 258 | 269 | 187 | 199 | .350" | .385" | 108 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4719-12 4028-12 | 1.625" 1.470" | 11707-12 11707-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6153 CRHL6153 |
| STD replacement cam, suit EFI | 850 - 3500 | 35678 | 260 | 260 | 197 | 197 | .381" | .381" | 109 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4719-12 4028-12 | 1.625" 1.470" | 11707-12 11707-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6153 CRHL6153 |
| Hi torque cam, suit towing good economy | 1200 - 3900 | 35613 | 260 | 267 | 194 | 202 | .390" | .408" | 112 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4719-12 4028-12 | 1.625" 1.470" | 11707-12 11707-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6153 CRHL6153 |
| Mild cam for LPG, good power suit STD motor minimum mods. | 1400 - 4200 | 35631 | 269 | 269 | 202 | 207 | .395" | .395" | 112 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4719-12 4028-12 | 1.625" 1.470" | 11707-12 11707-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6153 CRHL6153 |
| Mild cam, improves throttle response good hyway cam suit STD to mild engine | 1700 - 4500 | 35602 | 270 | 270 | 208 | 208 | .420" | .420" | 110 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4719-12 4028-12 | 1.625" 1.470" | 11707-12 11707-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6153 CRHL6153 |
| Mild cam, increased mid range, good economy suits LPG. smooth idle (See Fitting notes 1) | 1900 - 4800 | 35666 | 270 | 280 | 204 | 214 | .420" | .442" | 112 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4719-12 4028-12 | 1.625" 1.470" | 11707-12 11707-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6153 CRHL6153 |
| Mild cam, good performance & driveability needs headers, carbies, ignition mods (See Fitting notes 1) | 2000 - 5000 | 35603 | 280 | 280 | 214 | 214 | .442" | .442" | 110 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4823-12 4028-12 | 1.625" 1.470" | 11707-12 11707-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6153 CRHL6153 |
| Performance street cam good driveability needs headers carbies, ignition & hi stall (See Fitting notes 1 & 2) | 2200 - 5200 | 35665 | 280 | 290 | 214 | 224 | .440" | .465" | 112 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4823-12 4823-12 | 1.625" 1.605" | 11707-12 11717-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6153 CRHL6153 |
| Performance street cam good driveability needs headers carbies, ignition & hi stall (See Fitting notes 1 & 2) | 2500 - 5800 | 35667 | 286 | 286 | 224 | 224 | .467" | .467" | 111 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4823-12 4823-12 | 1.625" 1.605" | 11707-12 11717-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6157 CRHL6157 |
| Performance street cam good mid range & upper RPM needs carbies headers etc similar. Factory XU1 Grind. (See Fitting notes 1 & 2) | 2500 - 5800 | 35604 | 304 | 304 | 228 | 228 | .423" | .423" | 110 | | | ZDDP-100 | Red Black/Blue | HT969C-12 HT969C-12 | 4823-12 4823-12 | 1.625" 1.605" | 11707-12 11717-12 | 11703-12 11703-12 | KG819-12 KG819-12 | 44HP 44HP | PR-105-12 PR-422-12 | CRHL6157 CRHL6157 |
| Hot street cam, wide power range, choppy idle, needs headers carbies, ignition & hi stall (See Fitting notes 5) | 2800 - 6200 | 35619 | 286 | 290 | 226 | 232 | .459" | .475" | 109 | | | ZDDP-100 | Red Black/Blue | HT969R-12 HT969R-12 | 4327-12 ^D 4327-12 ^D | 1.660" 1.660" | 11707-12 11717-12 | 11703-12 11703-12 | VSV530-12 VSV530-12 | 44HP 44HP | PR-926-12 PR-990-12 | CRHL6157 CRHL6157 |
| Performance street/strip cam needs head headers carbies, ignition & hi stall (See Fitting notes 5) | 3200 - 6500 | 35672 | 280 | 280 | 231 | 231 | .480" | .480" | 108 | | | ZDDP-100 | Red Black/Blue | HT969R-12 HT969R-12 | 4327-12 ^D 4327-12 ^D | 1.660" 1.660" | 11707-12 11717-12 | 11703-12 11703-12 | VSV530-12 VSV530-12 | 44HP 44HP | PR-926-12 PR-990-12 | CRHL6157 CRHL6157 |
| Performance street/strip cam, great mid range Bathurst XU-1 grind (See Fitting notes 5) | 3500 - 6800 | 35616 | 300 | 300 | 240 | 240 | .450" | .450" | 110 | | | ZDDP-100 | Red Black/Blue | HT969R-12 HT969R-12 | 4823-12 4327-12 ^D | 1.625" 1.660" | 11707-12 11717-12 | 11703-12 11703-12 | VSV530-12 VSV530-12 | 44HP 44HP | PR-926-12 PR-990-12 | CRHL6157 CRHL6157 |
| Aggressive hyd cam great upper RPM need good breathing & engine combo (See Fitting notes 5) | 3700 - 6800 | 35802 | 295 | 295 | 246 | 246 | .507" | .507" | 108 | | | ZDDP-100 | Red Black/Blue | HT969R-12 HT969R-12 | 4327-12 ^D 4327-12 ^D | 1.660" 1.660" | 11707-12 11717-12 | 11703-12 11703-12 | VSV530-12 VSV530-12 | 44HP 44HP | PR-926-12 PR-990-12 | CRHL6157 CRHL6157 |

Note: Springs marked with xxxx-xx^D denotes that it is a double spring.

FITTING NOTES: 1. Must use performance springs. 2. Must use performance retainers. 3. Machining required to fit these components. 4. Must use performance seal. 5. Notes 1 to 4 all apply to this part number. 6. Check valve train geometry before ordering pushrod. 7. Pushrod length varied in this model. Check length before ordering. 8. Spring height varies in models, check spring pressure before installation.

FITTING NOTES:

- Converter stall speed should be equal to or greater than the minimum rpm of the cam power range.
- All lash settings quoted are measured hot. • The use of high volume oil pumps may cause premature wear of the distributor gear.

HOLDEN 6 CYLINDER ROCKER RATIO 1.50

| Application | RPM Range | Part No. | Adv. Duration | | .050" Duration | | Valve Lift | | LSA | Lash | Oil Additive | Lifters | Valve Spring | Installed Height | Retainer | Locks | Stem Seal | Timing Kit | Pushrods | Rockers | | | |
|--|-------------|----------|---------------|---------|----------------|---------|------------|---------|-----|------|--------------|----------------------|--------------|-------------------|----------------------|--|------------------|----------------------|----------------------|------------------------|------------------|------------------------|----------------------|
| | | | Intake | Exhaust | Intake | Exhaust | Intake | Exhaust | | | | | | | | | | | | | | | |
| RED/ BLUE & BLACK SOLID | | | | | | | | | | | | | | | | | | | | | | | |
| Small solid cam for street application (See Fitting notes 5) | 2500 - 5000 | 35609 | 265 | 265 | 229 | 229 | .442" | .442" | 109 | | | IN .016" EX .016" | ZDDP-100 | Red Black/Blue | AT992-12 AT992-12 | 4823-12 4327-12 ^D | 1.625" 1.660" | 11707-12 11717-12 | 11703-12 11703-12 | VSV530-12 VSV530-12 | 44HP 44HP | PR-926-12 PR-990-12 | CRHL6157 CRHL6157 |
| Solid cam, great mid to upper RPM range suit speedway or hot street (See Fitting notes 5) | 2500 - 6000 | 35872 | 272 | 272 | 231 | 231 | .480" | .480" | 108 | | | IN .012" EX .014" | ZDDP-100 | Red Black/Blue | AT992-12 AT992-12 | 4823-12 4327-12 ^D | 1.625" 1.660" | 11707-12 11717-12 | 11703-12 11703-12 | VSV530-12 VSV530-12 | CS6202 CS6202 | PR-926-12 PR-990-12 | CRHL6157 CRHL6157 |
| Solid cam, great mid range power, lumpy idle, needs head mods, headers, ignition & carbies (See Fitting notes 5) | 2800 - 6200 | 35626 | 278 | 282 | 238 | 244 | .486" | .495" | 109 | | | IN .024" EX .026" | ZDDP-100 | Red Black/Blue | AT992-12 AT992-12 | 4327-12 ^D 4327-12 ^D | 1.660" 1.660" | 11707-12 11717-12 | 11703-12 11703-12 | VSV530-12 VSV530-12 | CS6202 CS6202 | PR-926-12 PR-990-12 | CRHL6157 CRHL6157 |
| Solid cam, high lift, max upper RPM needs head mods, headers, ignition & carbies etc (See Fitting notes 5) | 3000 - 6400 | 35803 | 295 | 295 | 248 | 248 | .495" | .495" | 108 | | | IN .022" EX .024" | ZDDP-100 | Red Black/Blue | AT992-12 AT992-12 | 4327-12 ^D 4327-12 ^D | 1.660" 1.660" | 11707-12 11717-12 | 11703-12 11703-12 | VSV530-12 VSV530-12 | CS6202 CS6202 | PR-926-12 PR-990-12 | CRHL6157 CRHL6157 |
| Race/competition, serious engine combo (See Fitting notes 5) | 3600 - 6600 | 35647 | 308 | 308 | 254 | 254 | .517" | .517" | 107 | | | IN .024" EX .024" | ZDDP-100 | Red Black/Blue | AT992-12 AT992-12 | 4327-12 ^D 4327-12 ^D | 1.660" 1.660" | 11707-12 11717-12 | 11703-12 11703-12 | VSV530-12 VSV530-12 | CS6202 CS6202 | PR-926-12 PR-990-12 | CRHL6157 CRHL6157 |

VN SERIES 1 V6 1989-91 3 BOLT FLANGED CAM ROCKER RATIO 1.60

(VN series 1 Cylinder heads may have single or double valve springs)

| | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---------|-----|-----|-----|-----|-------|-------|-----|--|--|--|--|----------|----------------------|--------|----------|----------|--|-------|-----------|--|
| Hi torque for STD engine. (See Fitting notes 1) | 1500 - 5500 | 6071561 | 262 | 264 | 193 | 202 | .440" | .440" | 112 | | | | | 3800R-12 | 7328-12 ^D | 1.700" | Standard | 11703-12 | | CS6VN | PR-987-12 | |
| Mild performance cam for STD engine needs headers & exhaust & ECU (See Fitting notes 1) | 1800 - 5800 | 6071562 | 275 | 285 | 202 | 207 | .440" | .440" | 113 | | | | | 3800R-12 | 7328-12 ^D | 1.700" | Standard | 11703-12 | | CS6VN | PR-987-12 | |
| Street cam for mod engines, needs ECU mods, headers & exhaust (See Fitting notes 1) | 2000 - 6000 | 6071563 | 276 | 281 | 207 | 210 | .472" | .472" | 112 | | | | | 3800R-12 | 7328-12 ^D | 1.700" | Standard | 11703-12 | | CS6VN | PR-987-12 | |

VN SERIES 2 V6 TO VR 1991-93 ROCKER RATIO 1.60

| | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---------|-----|-----|-----|-----|-------|-------|-----|--|--|--|--|----------|---------|--------|----------|----------|--|-------|-----------|--|
| Hi torque for STD engine. (See Fitting notes 1) | 1500 - 5500 | 7741561 | 262 | 264 | 193 | 202 | .440" | .440" | 112 | | | | | 3800R-12 | 4836-12 | 1.700" | Standard | 11703-12 | | CS6VP | PR-987-12 | |
| Mild performance cam for STD engine needs headers & exhaust & ECU etc (See Fitting notes 1) | 1800 - 5800 | 7741562 | 275 | 285 | 202 | 207 | .440" | .440" | 113 | | | | | 3800R-12 | 4836-12 | 1.700" | Standard | 11703-12 | | CS6VP | PR-987-12 | |
| Street cam for mod engines, needs ECU mods, headers & exhaust (See Fitting notes 1) | 2000 - 6000 | 7741563 | 276 | 281 | 207 | 210 | .472" | .472" | 112 | | | | | 3800R-12 | 4835-12 | 1.700" | 11707-12 | 11703-12 | | CS6VP | PR-987-12 | |
| Hot street cam for modified engines needs headers & exhaust & ECU etc (See Fitting notes 1 & 2) | 2200 - 6300 | 774757 | 280 | 280 | 214 | 218 | .499" | .501" | 110 | | | | | 3800R-12 | 4835-12 | 1.700" | 11707-12 | 11703-12 | | CS6VP | PR-987-12 | |

ECOTEC V6 VS-VY ROCKER RATIO 1.60

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|----------|-----|-----|-----|-----|-------|-------|-----|--|--|--|--|----------|---------|--------|----------|----------|--|-------|-----------|--|
| Mild performance cam for STD engine needs headers & exhaust & ECU etc (See Fitting notes 1) | 1800 - 5800 | 8531562 | 275 | 285 | 202 | 207 | .440" | .440" | 113 | | | | | 3800R-12 | 4231-12 | 1.780" | Standard | 10701-12 | | CS6VS | PR-905-12 | |
| Street cam for mod engines, needs ECU mods, headers & exhaust (See Fitting notes 1) | 2000 - 6000 | 8531563 | 276 | 281 | 207 | 210 | .472" | .472" | 112 | | | | | 3800R-12 | 4231-12 | 1.780" | 10707-12 | 10701-12 | | CS6VS | PR-905-12 | |
| Hot street cam for S/C & Turbo mod engines needs headers & exhaust & ECU etc (See Fitting notes 1 & 2) | 2000 - 6200 | 8531563T | 276 | 281 | 207 | 210 | .472" | .472" | 114 | | | | | 3800R-12 | 4231-12 | 1.780" | 10707-12 | 10701-12 | | CS6VS | PR-905-12 | |
| Hot street cam for S/C mod engines needs headers & exhaust & ECU etc (See Fitting notes 1 & 2) | 2000 - 6200 | 8531430 | 262 | 274 | 207 | 218 | .505" | .505" | 114 | | | | | 3800R-12 | 4231-12 | 1.780" | 10707-12 | 10701-12 | | CS6VS | PR-905-12 | |
| Hot street cam for modified engines needs headers & exhaust & ECU etc (See Fitting notes 1 & 2) | 2200 - 6300 | 853757 | 280 | 280 | 214 | 218 | .499" | .501" | 110 | | | | | 3800R-12 | 4231-12 | 1.780" | 10707-12 | 10701-12 | | CS6VS | PR-905-12 | |

Note: Springs marked with xxxx-xx^D denotes that it is a double spring.

FITTING NOTES: 1. Must use performance springs. 2. Must use performance retainers. 3. Machining required to fit these components. 4. Must use performance seal. 5. Notes 1 to 4 all apply to this part number. 6. Check valve train geometry before ordering pushrod. 7. Pushrod length varied in this model. Check length before ordering. 8. Spring height varies in models, check spring pressure before installation.

FITTING NOTES:

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- All lash settings quoted are measured hot. • The use of high volume oil pumps may cause premature wear of the distributor gear.