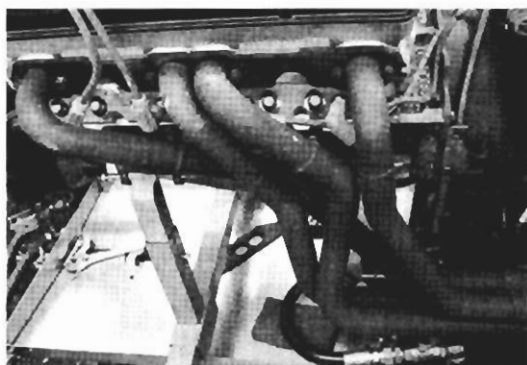


# EXHAUSTIVE RESEARCH



After testing the popular designs, we added a twist with Hedman's new street car step headers. Step headers use multiple-sized primary tubes in an effort to enhance scavenging of the cylinders. Several inches from the exhaust port, the primary tube diameter grows to the next "step"—the next largest tube size available—and often steps up again, several inches later. Rapidly expanding exhaust gases seek a lower pressure environment, and every time

## Dyno Test Results

| RPM   | 1½-inch |       | 1-inch |       | 1½-inch |       | 1½ to 1-inch step |       |
|-------|---------|-------|--------|-------|---------|-------|-------------------|-------|
|       | HP      | TQ    | HP     | TQ    | HP      | TQ    | HP                | TQ    |
| 3,000 | 219.8   | 384.7 | 221.9  | 388.4 | 224.6   | 393.3 | 219.2             | 383.8 |
| 3,100 | 224.5   | 380.4 | 226.3  | 383.4 | 230.3   | 390.2 | 224.2             | 379.9 |
| 3,200 | 229.7   | 377.0 | 231.3  | 379.7 | 238.1   | 390.8 | 230.0             | 377.5 |
| 3,300 | 234.6   | 373.4 | 236.1  | 375.7 | 246.6   | 392.4 | 236.7             | 376.8 |
| 3,400 | 240.1   | 370.9 | 241.1  | 372.4 | 255.8   | 395.2 | 244.0             | 376.9 |
| 3,500 | 246.5   | 370.0 | 248.3  | 372.6 | 264.3   | 396.6 | 252.4             | 378.7 |
| 3,600 | 255.5   | 372.8 | 258.5  | 377.1 | 273.3   | 398.7 | 261.8             | 382.0 |
| 3,700 | 269.1   | 381.9 | 272.0  | 386.1 | 282.9   | 401.6 | 274.5             | 389.6 |
| 3,800 | 283.8   | 392.3 | 286.8  | 396.4 | 292.3   | 404.0 | 285.4             | 394.4 |
| 3,900 | 295.5   | 397.9 | 298.3  | 401.7 | 302.1   | 406.8 | 296.7             | 399.6 |
| 4,000 | 307.6   | 403.9 | 311.0  | 408.3 | 312.9   | 410.9 | 308.8             | 405.5 |
| 4,100 | 320.7   | 410.8 | 324.3  | 415.5 | 324.2   | 415.4 | 320.7             | 410.8 |
| 4,200 | 332.6   | 415.9 | 336.1  | 420.3 | 336.6   | 420.9 | 333.7             | 417.3 |
| 4,300 | 343.5   | 419.5 | 346.1  | 422.8 | 347.0   | 423.8 | 345.5             | 422.0 |
| 4,400 | 351.8   | 419.9 | 354.0  | 422.6 | 353.5   | 422.0 | 352.7             | 421.0 |
| 4,500 | 358.7   | 418.7 | 357.9  | 417.8 | 357.9   | 417.7 | 358.1             | 417.9 |
| 4,600 | 362.5   | 413.9 | 361.6  | 412.9 | 361.5   | 412.7 | 362.5             | 413.9 |
| 4,700 | 367.1   | 410.3 | 366.8  | 409.9 | 367.3   | 410.5 | 367.0             | 410.3 |
| 4,800 | 371.2   | 406.2 | 373.2  | 408.3 | 374.2   | 409.4 | 371.7             | 406.8 |
| 4,900 | 374.8   | 401.7 | 380.2  | 407.5 | 381.7   | 409.1 | 374.5             | 401.4 |
| 5,000 | 376.7   | 397.5 | 383.9  | 403.2 | 385.3   | 404.7 | 375.5             | 394.4 |
| 5,000 | 378.2   | 389.5 | 384.7  | 396.2 | 388.3   | 399.9 | 376.7             | 387.9 |
| 5,200 | 380.8   | 384.6 | 385.7  | 389.6 | 388.5   | 392.3 | 379.5             | 383.3 |
| 5,300 | 383.8   | 380.4 | 387.8  | 384.2 | 389.3   | 385.7 | 379.4             | 376.0 |
| 5,400 | 387.0   | 376.4 | 390.8  | 380.1 | 391.7   | 380.9 | 382.0             | 371.6 |
| 5,500 | 390.0   | 372.4 | 394.8  | 377.0 | 393.3   | 377.5 | 386.3             | 368.7 |
| 5,600 | 394.8   | 370.3 | 398.3  | 373.6 | 400.1   | 375.3 | 389.8             | 365.6 |
| 5,700 | 397.2   | 366.0 | 402.3  | 370.7 | 405.8   | 373.5 | 393.7             | 362.7 |
| 5,800 | 397.1   | 358.6 | 405.6  | 367.2 | 410.5   | 371.7 | 395.8             | 358.4 |
| 5,900 | 393.3   | 350.1 | 402.7  | 358.5 | 411.1   | 366.6 | 391.4             | 348.4 |
| 6,000 | 388.0   | 339.6 | 396.9  | 347.4 | 404.5   | 354.1 | 383.4             | 335.6 |

| RPM   | H-Pipe |       | X-Pipe |       |
|-------|--------|-------|--------|-------|
|       | HP     | TQ    | HP     | TQ    |
| 3,000 | 219.3  | 384.0 | 231.2  | 404.7 |
| 3,100 | 226.9  | 384.5 | 235.3  | 398.7 |
| 3,200 | 239.4  | 392.9 | 242.6  | 398.2 |
| 3,300 | 249.5  | 397.1 | 252.0  | 401.0 |
| 3,400 | 260.5  | 402.4 | 262.1  | 404.9 |
| 3,500 | 269.7  | 404.6 | 271.2  | 406.9 |
| 3,600 | 280.1  | 408.6 | 280.5  | 409.3 |
| 3,700 | 291.3  | 413.4 | 290.3  | 412.1 |
| 3,800 | 302.3  | 418.6 | 300.3  | 415.0 |
| 3,900 | 311.9  | 420.1 | 308.6  | 415.6 |
| 4,000 | 321.1  | 421.6 | 317.4  | 416.7 |
| 4,100 | 331.6  | 424.8 | 326.9  | 418.8 |
| 4,200 | 342.4  | 428.2 | 337.0  | 421.4 |
| 4,300 | 352.0  | 429.9 | 345.7  | 422.2 |
| 4,400 | 358.4  | 427.8 | 352.9  | 421.2 |
| 4,500 | 361.5  | 421.5 | 358.7  | 418.7 |
| 4,600 | 365.1  | 416.5 | 363.7  | 415.2 |
| 4,700 | 370.3  | 413.8 | 369.5  | 412.9 |
| 4,800 | 377.1  | 412.7 | 375.8  | 411.1 |
| 4,900 | 382.3  | 409.8 | 380.1  | 407.4 |
| 5,000 | 385.1  | 404.5 | 381.8  | 401.1 |
| 5,100 | 386.7  | 398.3 | 381.1  | 392.5 |
| 5,200 | 387.8  | 391.7 | 381.5  | 385.3 |
| 5,300 | 389.1  | 385.6 | 384.0  | 380.5 |
| 5,400 | 389.3  | 378.6 | 387.7  | 377.0 |
| 5,500 | 390.7  | 373.1 | 391.9  | 374.3 |
| 5,600 | 393.7  | 369.2 | 395.6  | 371.0 |
| 5,700 | 396.6  | 365.4 | 400.0  | 368.6 |
| 5,800 | 398.9  | 361.2 | 402.9  | 364.9 |
| 5,900 | 397.3  | 353.7 | 401.2  | 357.2 |
| 6,000 | 391.2  | 342.5 | 394.8  | 345.6 |

