

AJPE 481-X

The AJPE 481-X is a purebred racing engine, designed by Alan Johnson to be the ultimate in Supercharged Alcohol. Bullet proof valve train and ease of serviceability make it the choice of winners in all forms of Drag Racing: Pro Modified, Top Alcohol Funny Car, Nitro Coupe, Nostalgia A/Fuel & AA/Gas, Drag Boats, & Outlaw classes. AJPE also offers customer support including: all engine parts & supplies, fuel systems, etc.



SERVICEABILITY FEATURES

- **BILLET 6061 T-651:** Cylinder heads Outperform & Outlast weak cast aluminum cylinder heads!
- **CYLINDER HEAD AND INTAKE MANIFOLD:** design allows removal of Cylinder Heads, without disturbing manifold or supercharger!
- **INTAKE MANIFOLD:** AJPE Magnesium, supplied Fully Ported, Top Opening machined & O-ringed, Ready to install
- **INTAKE PORTS & MANIFOLD:** are O-ringed
- **HEAD STUDS:** are accessible from top of cylinder heads
- **FORGED BILLET BLOCK:** for superior performance, strength, and repair ability
- **DRY SUMP OILING:** External 2-Stage Pump for Performance, Safety & Ease of maintenance
- **FLAT OIL PAN RAIL/GASKET:** eases Bottom End Inspection & Service
- **IGNITION/MAGNETO:** mounts in front of engine block, similar to 426 Hemi
- All engine parts are in stock at AJPE, ready for immediate delivery



VALVE TRAIN FEATURES

- **ONE PIECE BILLET ROCKER GIRDLE:** Entire Rocker Assembly removes with just 9 fasteners
- **CAM, LIFTERS, PUSH RODS & ROCKERS:** are all in-line, integral push rod guides control PR flex
- **HYBRID 481-X BLOCK:** design with raised cam location eliminates push rod angularity, unlike other engine designs
- **AJPE BILLET 7075 ROCKERS:** with .625" Diameter shafts and Needle roller bearings
- **BILLET TITANIUM ROCKER ARMS:** Now available, rocker arms are all straight, no offsets!
- **.904" diameter Roller Lifters are Standard, not an upgrade**
- **VALVE:** Titanium 2.400" Intake & 1.900" Exhaust hard valve tips are standard, no lash caps to lose or fall off!

| VALVE LIFT/CFM | .800" | .700" | .600" | .500" | .400" | .300" | .200" | Min Area | Max Area | Avg Area |
|--|-------|-------|-------|-------|-------|-------|-------|----------|----------|----------|
| STAGE I 2.400" INTAKE 55° SEAT ANGLE | 488 | 466 | 430 | 367 | 292 | 215 | 144 | 4.007" | 5.165" | 4.693" |
| STAGE II 2.400" INTAKE 45° SEAT ANGLE | 472 | 447 | 423 | 378 | 315 | 242 | 158 | 3.759" | 4.769" | 4.383" |
| STAGE I 1.900" EXHAUST 55° SEAT ANGLE (with ex pipe) | 378 | 366 | 346 | 287 | 236 | 184 | 131 | 2.304" | 3.595" | 2.869" |
| FLOW % STAGE I EXHAUST VS. INTAKE | 77.5 | 78.5 | 80.5 | 78.2 | 80.8 | 85.6 | 91 | | | |
| STAGE II 1.900" EXHAUST 45° SEAT ANGLE (with ex pipe) | 366 | 352 | 334 | 278 | 229 | 177 | 131 | 2.286" | 3.649" | 2.763" |
| FLOW % STAGE II EXHAUST VS. INTAKE | 77.5 | 78.7 | 79 | 73.5 | 72.7 | 73.1 | 82.9 | | | |

ALL TESTS DONE ON 4.500" BORE, AT 28" ON SF 1020 FLOW BENCH

PHONE (805) 922-1202

FAX (805) 349-7129

1097 FOXEN CANYON RD.
SANTA MARIA, CA 93454

www.alanjohnsonperformance.com

AJPE

alan johnson performance engineering