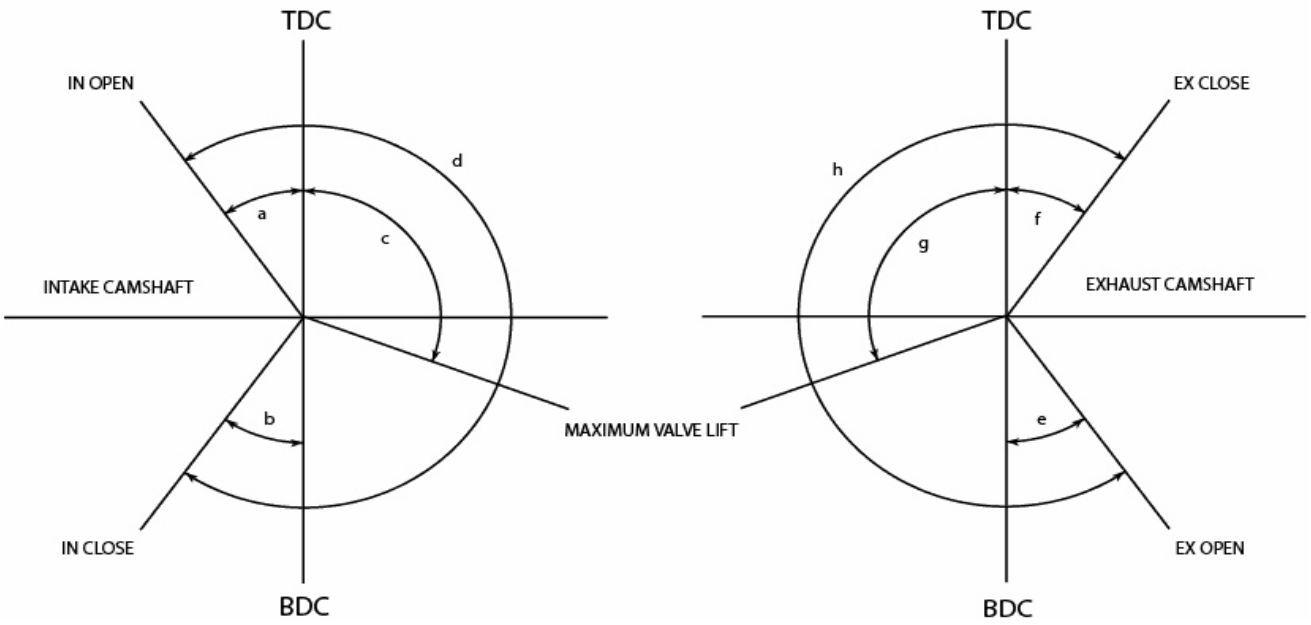
COSWORTH

COMPUTER MODEL DESIGNED CAMSHAFTS
MITSUBISHI EVOLUTION 9 "M3"- 20002517



INTAKE CAMSHAFT

PART #	20002698
Rocker Ratio	1.73:1
Max Valve Lift	11.6mm
Valve Lash	Hydraulic
Advertised Duration	280°
1mm Valve Lift	
a=Valve Opens	17° ATDC
b=Valve Closes	63° ABDC
c=Lobe Center	131°
d=Total Duration	226°
.050" Valve Lift	
a=Valve Opens	14° ATDC
b=Valve Closes	60° ABDC
c=Lobe Center	131°
d=Total Duration	226°

EXHAUST CAMSHAFT

PART #	PR8103
Rocker Ratio	1.73:1
Max Valve Lift	11.0mm
Valve Lash	Hydraulic
Advertised Duration	272°
1mm Valve Lift	
e=Valve Opens	39° BBDC
f=Valve Closes	2° ATDC
g=Lobe Center	114°
h=Total Duration	221°
.050" Valve Lift	
e=Valve Opens	36° BBDC
f=Valve Closes	5° ATDC
g=Lobe Center	114°
h=Total Duration	221°

- Do not use an impact wrench to tighten the cam sprocket on the nose of the camshaft.
- New camshafts MUST always be cleaned thoroughly, deburred, and blown with compressed air before use.
- To properly install this part, you MUST have a genuine factory shop manual for references and torque specs.
- These camshafts should only be installed by experienced mechanics and technicians.
- Camshaft cap bolts should be tightened in 3 steps to 14.5 foot/pounds of torque.
- ECU calibration will be necessary after installation of these camshafts to optimize fuel and ignition parameters.
- Due to differences in critical factors (e.g. valve tip heights, rocker wear, hydraulic lifter machining tolerances, condition of head, etc.) your results may vary because of slightly different rocker geometry.
- During the measuring of these valve events, a solid lifter with a lash of .003" was used in place of hydraulic unit.
- Factory valve tip height range for Intake valve is 1.937-1.956" and Exhaust valve is 1.905-1.925". Above measurements were taken with valve tip heights at 1.947" and 1.916" for intake and exhaust respectively.
- It is absolutely critical that valve tip heights are within the above ranges.
- These camshafts MUST be used with Cosworth valve springs for proper operation.
- Intake valve events were measured with VVT pulley at default position. Full swing of the VVT pulley is 30°.
- Break in procedure: hold engine at 2000rpm for 10-15 minutes and 50 miles of varying load under 4000rpm.