

# Part Maturation Expectations (Effective from 09M development)

Stamping and Welding			* Inspection fixtures available by the first event
Level	Objective	Tool Maturation Level Expectation	Process Maturation Level Expectation
T1	Confirmation of tool design, fit to white body and dimensional verification	<ul style="list-style-type: none"> <li>* MP tool (draw, re-strike, bend)</li> <li>* Temporary equipment (stamping and welding)</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* Temporary stamping and welding process</li> <li>* Handwork allowed</li> <li>* Engineer / NM associate build</li> <li>* Location - tool house / supplier</li> </ul>
T2	All process trial and quality verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* Temporary welding equipment</li> <li>* MP welding fixture</li> <li>* Temporary stamping equipment</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* MP stamping process sequence</li> <li>* Temporary welding process (hand weld on MP fixture)</li> <li>* Minor handwork allowed (no folds, cracks, excessive elongation)</li> <li>* Laser blank / trim OK with Honda approval</li> <li>* Engineer / NM associate build</li> <li>* Location - tool house / supplier</li> </ul>
T3	MP tool / equipment and quality verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* MP welding fixture</li> <li>* Welding equipment: MP (domestic), Temporary (overseas)</li> <li>* Temporary stamping equipment</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* MP stamping process sequence</li> <li>* MP welding process sequence</li> <li>* No handwork (except skin deforms)</li> <li>* Engineer / NM / MP associate build</li> <li>* Location - tool house / supplier</li> </ul>
LT1	MP tool / equipment, process and quality verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* MP welding equipment</li> <li>* MP stamping equipment</li> </ul>	<ul style="list-style-type: none"> <li>* On line build</li> <li>* MP stamping process sequence</li> <li>* MP welding process sequence</li> <li>* No handwork</li> <li>* MP associate build</li> <li>* Location - supplier</li> </ul>
MP	MP volume verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* MP welding equipment</li> <li>* MP stamping equipment</li> </ul>	<ul style="list-style-type: none"> <li>* MP quality at MP line speed</li> </ul>

# Part Maturation Expectations (Effective from 09M development)

Plastics			
Level	Objective	Tool Maturation Level Expectation	Process Maturation Level Expectation
T1	Confirmation of tool design, fit to vehicle, dimensional verification and mold matching	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* Temporary equipment</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* Temporary process sequence</li> <li>* Handwork allowed (except shape)</li> <li>* Engineer / NM associate build</li> <li>* Location - tool house / supplier</li> </ul>
T2	All process trial and quality verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* Equipment: MP (domestic); Temporary (overseas)</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* MP process sequence</li> <li>* Minor handwork allowed</li> <li>* Engineer / NM / MP associate build</li> <li>* Location - tool house / supplier</li> </ul>
T3	MP tool / equipment, texture go, molding parameters and quality verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* Equipment: MP (domestic); Temporary (overseas)</li> </ul>	<ul style="list-style-type: none"> <li>* On line build - domestic tool,</li> <li>* Off line build - overseas tool</li> <li>* MP process sequence (molding parameters)</li> <li>* No handwork</li> <li>* Engineer / NM / MP associate build</li> <li>* Location - tool house / supplier</li> </ul>
T4	MP verification (texture approval)	<ul style="list-style-type: none"> <li>* MP tool (texture applied)</li> <li>* Equipment: MP (domestic); Temporary (overseas)</li> </ul>	<ul style="list-style-type: none"> <li>* On line build - domestic tool</li> <li>* Off line build - overseas tool</li> <li>* MP process sequence (molding parameters)</li> <li>* No handwork</li> <li>* Engineer / NM / MP associate build</li> <li>* Location - tool house (overseas) / supplier (domestic)</li> </ul>
MP	MP volume verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* MP equipment</li> </ul>	<ul style="list-style-type: none"> <li>* MP quality at MP line speed</li> </ul>

\* Inspection fixtures available by the first event

# Part Maturation Expectations (Effective from 09M development)

Piping / Tubing		* Inspection fixtures available by the first event	
Level	Objective	Tool Maturation Level Expectation	Process Maturation Level Expectation
T1	Confirmation of fit to vehicle and dimensional verification	<ul style="list-style-type: none"> <li>* Temporary bending equipment (CNC)</li> <li>* Temporary welding equipment</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* Temporary bending and welding process sequence</li> <li>* Temporary inspection equipment</li> <li>* Handwork allowed</li> <li>* Off line assembly</li> <li>* Engineer / NM associate build</li> <li>* Location - tool house / supplier</li> </ul>
T2	Confirmation of fit to vehicle and quality verification	<ul style="list-style-type: none"> <li>* Temporary bending equipment (CNC)</li> <li>* Temp welding equipment</li> <li>* MP welding fixture</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* Temporary bending and welding process sequence</li> <li>* Temporary inspection equipment</li> <li>* Handwork allowed</li> <li>* Off line assembly</li> <li>* Engineer / NM associate build</li> <li>* Location - tool house / supplier</li> </ul>
T3	MP tool / equipment and quality verification	<ul style="list-style-type: none"> <li>* MP bending equipment</li> <li>* MP welding equipment</li> </ul>	<ul style="list-style-type: none"> <li>* On line build with manual handling</li> <li>* Temporary bending and welding process sequence</li> <li>* MP inspection equipment / check gauge</li> <li>* No handwork</li> <li>* On line assembly</li> <li>* MP associate build</li> <li>* Location - supplier</li> </ul>
MP	MP process and volume confirmation	<ul style="list-style-type: none"> <li>* MP bending equipment</li> <li>* MP welding equipment</li> </ul>	<ul style="list-style-type: none"> <li>* MP quality at MP line speed</li> </ul>

# Part Maturation Expectations (Effective from 09M development)

Components, Electrical and Assemblies

\* Inspection fixtures available by the first event

Level	Objective	Tool Maturation Level Expectation	Process Maturation Level Expectation
T1	Confirmation of tool design, function, fit to vehicle, dimensional verification and mold matching	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* Temporary equipment</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* Temporary process sequence</li> <li>* Temporary functional inspection equipment</li> <li>* Flash ROM acceptable</li> <li>* Handwork allowed (except shape)</li> <li>* Engineer / NM associate build</li> <li>* Location - tool house / supplier</li> </ul>
T2	All process trial and quality verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* Equipment: MP (domestic tool), Temporary (overseas tool)</li> <li>* MP electrical components</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* MP process sequence</li> <li>* Temporary functional inspection equipment</li> <li>* Flash ROM acceptable</li> <li>* Minor handwork allowed (plastics and welding components only)</li> <li>* Engineer / NM / MP associate build</li> <li>* Location - tool house / supplier</li> </ul>
T3	MP tool / equipment, texture go, molding parameters and quality verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* Equipment: MP (domestic tool), Temporary (overseas tool)</li> </ul>	<ul style="list-style-type: none"> <li>* On line build - domestic tool</li> <li>* Off line build - overseas tool</li> <li>* MP process sequence (molding parameters)</li> <li>* MP functional in-line inspection equipment</li> <li>* Flash ROM acceptable</li> <li>* No handwork</li> <li>* Engineer / NM / MP associate build</li> <li>* Location - tool house / supplier</li> </ul>
T4	MP verification (texture approval)	<ul style="list-style-type: none"> <li>* MP tool (texture applied)</li> <li>* Equipment: MP (domestic tool), Temporary (overseas tool)</li> </ul>	<ul style="list-style-type: none"> <li>* On line build - domestic tool,</li> <li>* Off line build - overseas tool</li> <li>* MP process sequence (molding parameters)</li> <li>* No handwork</li> <li>* Engineer / NM / MP associate build</li> <li>* Location - tool house (overseas) / supplier (domestic)</li> </ul>
MP	MP volume verification	<ul style="list-style-type: none"> <li>* MP tool (all dies)</li> <li>* MP equipment</li> </ul>	<ul style="list-style-type: none"> <li>* MP quality at MP line speed</li> </ul>

# Part Maturation Expectations (Effective from 09M development)

Casting and Machining		* Inspection fixtures available by the first event	
Level	Objective	Tool Maturation Level Expectation	Process Maturation Level Expectation
T1	Confirmation of tool design, function, fit to vehicle and dimensional verification	<ul style="list-style-type: none"> <li>* Temporary machining equipment</li> <li>* MP die (hand trim gate)</li> <li>* Temporary casting equipment</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* Temporary casting process sequence</li> <li>* Temporary machining process sequence</li> <li>* Temporary inspection fixture</li> <li>* Handwork allowed</li> <li>* Engineer / NM associate build</li> <li>* Location - tool house / supplier</li> </ul>
T2	All process trial and quality verification	<ul style="list-style-type: none"> <li>* MP machining equipment (temporary fixture)</li> <li>* MP die (hand trim gate)</li> <li>* Casting equipment: MP (domestic); Temporary (overseas)</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build</li> <li>* MP casting process sequence</li> <li>* MP machining process sequence</li> <li>* Temporary inspection fixture</li> <li>* Minor handwork allowed</li> <li>* Engineer / NM associate build</li> <li>* Location - tool house / supplier</li> </ul>
T3	MP tool / equipment and quality verification	<ul style="list-style-type: none"> <li>* MP machining equipment</li> <li>* MP die (including trim die)</li> <li>* Casting equipment: MP (domestic); Temporary (overseas)</li> </ul>	<ul style="list-style-type: none"> <li>* On line build</li> <li>* MP casting process sequence</li> <li>* MP machining process sequence</li> <li>* MP inspection fixture</li> <li>* No handwork</li> <li>* Engineer / NM / MP associate build</li> <li>* Location - tool house / supplier</li> </ul>
MP	MP volume verification	<ul style="list-style-type: none"> <li>* MP machining equipment</li> <li>* MP die</li> <li>* MP casting equipment</li> </ul>	<ul style="list-style-type: none"> <li>* MP quality at MP line speed</li> </ul>

# Part Maturation Expectations (Effective from 09M development)

Wire Harnesses		* Inspection fixtures available by the first event	
Level	Objective	Tool Maturation Level Expectation	Process Maturation Level Expectation
T1	Confirmation of equipment design, function, fit to vehicle and dimensional verification	<ul style="list-style-type: none"> <li>* MP equipment (cut, crimp and splice)</li> <li>* Temporary equipment (assembly board only)</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build / master board</li> <li>* Temporary process sequence (cut, crimp and splice)</li> <li>* Temporary functional inspection equipment</li> <li>* Circuit master</li> <li>* Handwork allowed</li> <li>* Engineer / NM associate build</li> <li>* Location - supplier</li> </ul>
T2	All process trial and quality verification	<ul style="list-style-type: none"> <li>* MP equipment (cut, crimp and splice)</li> <li>* Temporary equipment (assembly board only)</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build / master board</li> <li>* MP process sequence (cut and crimp)</li> <li>* Temporary process sequence (splice)</li> <li>* MP functional in line inspection equipment (electrical)</li> <li>* Circuit master</li> <li>* Minor handwork allowed</li> <li>* Engineer / NM associate build</li> <li>* Location - supplier</li> </ul>
T3	MP tool / equipment and quality verification	<ul style="list-style-type: none"> <li>* MP equipment (all processes)</li> </ul>	<ul style="list-style-type: none"> <li>* Off line build / MP boards</li> <li>* MP process sequence (all))</li> <li>* MP functional in line inspection equipment (electrical)</li> <li>* Circuit master</li> <li>* No handwork except minor clip and tape changes</li> <li>* MP associate build</li> <li>* Location - supplier</li> </ul>
MP	MP volume verification	<ul style="list-style-type: none"> <li>* MP equipment (all processes)</li> </ul>	<ul style="list-style-type: none"> <li>* MP quality at MP line speed</li> </ul>