



# APQP CHECKLIST

<b><u>NEW PARTS / JOBS</u></b>	
<b>ATTENDEES:</b> Mark Fleming; Kyle Lussier; Phil Fairley; John Orosz; Jon McDonald; Mark Little; Greg Peltier; Todd Vanhal Alex Vucinic; Travis; Sal; Mike Giroux; Beth; Ken Branstetter; Matt Kelley; James Sowell	<b>PART NUMBER:</b> CJ54-96611E24-A (C520 4-way >>NO TOPPER PAD; NO TRIM) CJ54-S611A08-X-B3-XXX (C344 4-way >>Complete Ass'y w/Trim)
<b>DATE:</b> January 6th, 2012	<b>PPAP DATE / LEVEL :</b> WM to Magna >Phase 0/1: 01/16/12; Phase 2/3: 02/01/12 WMPI to Princeton:
<b>CUSTOMER:</b> Magna-Louisville	<b>PRODUCTION START DATE:</b> C520: February 1st 2012 >Ramp-up; June 2012 >Full Prod C344: April 1st 2012 >Ramp-up; July 2012 >Full Prod
<b>PLANT (S) RESP:</b> WMPI >> POSTS INDIANA >>ASS'Y & UPPER TUBE	<b>VOLUME:</b> C520 Only = 750,720/yr = 15,640/wk = 3128/day = 224/hr C520 + C344 = 881,280/yr = 18,360/wk = 3672/day = 264/hr
<b>SALES REP:</b> Scott Barko	<b><u>EXISTING PARTS / JOBS</u></b> <b>CURRENT LOCATION(S):</b>
	<b>NEW LOCATION(S):</b>

#	PART PRINT / MATH DATA	YES	NO	N/A	COMMENTS	DATE	RESP.
1	Has Ellis Tool received math data from customer?						
2	Have prints been generated?	X			Additional prints req'd (rivet pin to lock side stamping); bushing to slave stamping. Need final ass'y print updated with solid pin	13-Jan	ML
3	Have prints been controlled and distributed?	X			All prints controlled. See Ana Chau for drawings		
4	Are the manufacturing tolerances feasible?						
5	Are SC/CC requirements applicable?						
6	If no customer SC/CC's have been identified have internal SC/CC's been identified as per TS requirements.						
7	Are engineering specifications defined? i.e. material, weld, coating, torque etc.						
8	Is there a potential for hydrogen embrittlement? Has it been considered in the design?						
9	Are the part/component designs final?	X					
10	Are supplementary drawings required?	X			See item 2		
11	Are the supplementary drawings controlled and distributed?	X			See item 2		



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#	FIXTURES / GAUGING	YES	NO	N/A	COMMENTS	DATE	RESP.
12	Are the fixture(s) design is complete?	X					
13	Are multiple fixtures required?	X			need ring gages for posts	20-Jan	KL
14	Are customer fixture(s) required?		X				
15	Have all fixture(s) designs been reviewed/approved?		X				
16	Has customer reviewed/approved fixture designs?			X			
17	Are fixture builds complete?				Lock Post / Slave Post complete & certified. Need template fixtures. Cannot certify upcoming fixtures or gage. CMM is down	13-Jan	JO
18	Are fixture(s) certified / R&R complete?				see item 16		



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#	PPAP REQUIREMENTS	YES	NO	N/A	COMMENTS	DATE	RESP.
19	What level PPAP is required?	X			Phase 0/1: January 16th--not home line. Posts; upper tube & assembly	16-Jan	BM/MK
20	Does the customer have specific PPAP requirements?	X			Will follow 2nd row submission. Matt to contact Krishna to confirm	06-Jan	MK
21	Has the customer provided their supplier manual?				see item 19		
22	Has the supplier manual been reviewed to ensure that all customer specific requirements are captured?				see item 19		
23	Are part dimensionals required? How many?				see item 19		
24	Has PPAP responsibilities been assigned?	X			Beth Muse (Posts); Matt Kelly (Upper Tube & Final Assy)		
25	Are there any other PPAP open issues?	X			DFMEA; Process Flow; Control Plan is in-process (ML); PFMEA (MK)	13-Jan	ML
26	Is there Packaging / Labeling Requirements?	X			Magna requires corrugated plastic cell packs >>labor intensive (~12 labor hrs / day). Ken submitted quotes to Scott. Quoted is bulk returnables. Greg & Scott to discuss offline.	1/09/12	SB



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#	TOOLING	YES	NO	N/A	COMMENTS	DATE	RESP.
27	Are the tool designs complete?	X			Proposal to implement a vision system to verify component presence		PF/TD
28	Has the manufacturing plant reviewed the designs?	X			See cell layout. Sal reviewed GR4 post cell-similar design.		
29	Is additional equipment required?	X			1) Glue Machine: not scheduled to leave w/ass'y tools. Glue pattern (proto/pre-production) is not the same as production intent. Need curing troughs >>design is complete and needs to be added to tool list. Mark Fleming to do a time study. 2) Need welders for lock post & upper tube 3) Upper tube bender needs to be plumbed 4) Cycle tester needs cylinder 5) Vision System proposal needs to be finalized, approved and kicked off 6) Dbl Riveter is required >>tooling will be ready by 01/09.		JO/KL
30	Is outsourced tooling / equipment required?				see item 28		
31	Is the tooling complete?		X		Cycle tester & glue machine outstanding. Most tools on-track 01/14. Automation: 01/20		JO/JM
32	Has the tooling been developed?		X		see item 30		
33	Has the manufacturing plant reviewed and approved tooling?			X			
34	What infrastructure is required at the plant to run the required tooling?						



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#	SUB-COMPONENT REQUIREMENTS	YES	NO	N/A	COMMENTS	DATE	RESP.
35	Are outsourced components required?						
36	Have supplier(s) been reviewed?						
37	Have purchase orders been issued?		X			1/06/12	AV
38	Is the supplier evaluation/development is complete?						
39	Have supplier(s) submitted PPAP and samples?		X				
40	What component/supplier has longest lead time?						



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#	EXISTING JOBS/PARTS MOVING	YES	NO	N/A	COMMENTS	DATE	RESP.
41	Has criteria as referenced in FOQA081 been reviewed?						
42	Has customer specific issues and requirements been reviewed?						
43	Has the customer purchasing / receiving plants been notified?						
44	Has the PPAP/PSO/SREA for the job transfer been completed and approved by the customer?						

OTHER OPEN ISSUES OR CONCERNS	
1)	<p><b>CUSTOMER RELEASES</b>      Rec'd on 12/15 **UPDATE: new release sent on 01/06/12. MP1 requirements are still due by the end of January. MP2/Production ramp-up has been pushed out to March.</p>
2)	<p><b>SUPPLIER RELEASES</b>      Releases to be sent by 01/09/12</p> <p>Blanket po's to be issued by 01/06/12 *UPDATE: all blankets have been issued</p>
3)	<p><b>PLANT READINESS</b></p> <p>WMPI New addition not complete; needs lighting; need sprinkler system; half of floor is complete &gt;&gt;need permit. Permit should be available 01/06/2012. Sal needs to hire personnel</p> <p>PRINCETON 1) '4' 30amp bus plugs (480 volt) need to be shipped to Princeton. Sal will coordinate &gt;&gt;target is 01/13/12</p> <p>2) Work tables / transfer racks &gt;&gt;Kyle and James Sowell to discuss what will be required.</p>
4)	<p><b>LAUNCH SUPPORT</b>      Kyle (confirmed); Mark Fleming (confirmed); Mark Little (TBD); Greg (TBD); Phil F (TBD). 3rd party containment to be implemented prior to first part shipment. Matt Kelley to coordinate.</p>
5)	<p><b>ON-SITE CUSTOMER SUPPORT</b>      Phil to assign liaison (Chuck) to support Magna.</p>