DaimlerChrysler Ford General Motors

Part Submission Warrant



Part Name		Glovebo	x Channel C1		Cust.	Part Number		H1BT-14A	390-AGA
Shown on D	Drawing No.	Н	1BT-14A390-AG	A	— Org. F	art Number		7176-19	975-30
Engineering	g Change Level		EE00-E-130949	25-000	_	Date	ed e	15.12.	2015
Additional E	Engineering Changes		N/A	1		 Date	ed	N/A	
Safety and/	or Government Regulation		☐ Yes No	Puro	hase Order	No.	N/A	Weight (kg)	0,0551
Checking A	id No.	N/A	Checking Aid Engine	ering Change Level			N/A	Dated	N/A
ORGANIZA	ATION MANUFACTURING I	NFORMATION			CUSTON	MER SUBMIT	TAL INFORMAT	ION _	
	EUROPE LTD		3230	47696	NURSA				
•	n Name & Supplier/Vendor (Code							
Street Addr	Bosch Strasse., 43				Buyer/Bu	yer Code			
Cologne	NRW	D-5076	9	Germany	FORD				
City	Region	Postal Cod	le	Country					_
MATERIAL	S REPORTING								
Has custom	ner-required Substances of C	Concern information be	en reported?			✓ Yes	☐ No	☐ n/a	
	5	Submitted by IMDS or	other customer forma	t:		IMDS			
						IMDS ID:	1196119407	7/1	
Are polyme	ric parts identified with appro	priate ISO marking co	des?			☐ Yes	☐ No	☑ n/a	
REASON F	OR SUBMISSION (Check a	at least one)							
=	itial submission					J	•	ction or Material	
	ngineering Change(s) poling: Transfer, Replacemer	nt Refurhishment or a	dditional				Material Source Part Processing	Change	
	orrection of Discrepancy	it, resulting into it, or o	dational			•	ced at Additiona	I Location	
□ То	poling Inactive > than 1 year				✓		se specify below	1	
						Customer	Request		
_	ED SUBMISSION LEVEL (C	•							
	evel 1 - Warrant only (and for				t) submitted	to customer.			
_	evel 2 - Warrant with product evel 3 - Warrant with product		•						
_	evel 4 - Warrant and other re			ou to ouctomer.					
☐ Le	evel 5 - Warrant with product	samples and complet	e supporting data revi	ewed at organization	n's manufact	uring location.			
SUBMISSIO	ON RESULTS								
The results	-			d functional tests		appeara			statistical process package
	Its meet all drawing and specity / Production Process	cification requirements	: injection moule	Y 🔽 Aina I sarial ma		☐ NO	(If "NO" - Ex	(planation Required)	
Wold / Cavil	ty / Floduction Flocess		Injection moun	anig i seriai inc	, iu				
DECLARAT	TION								
I affirm that	the samples represented by								
	Edition Requirements. I furt								•
i also certify	y that documented evidence	or such compliance is	on file and available i	or review. I have no	ted any devi	ations from thi	s declaration be	iow.	
EXPLANAT	TION/COMMENTS:								
Is each Cus	stomer Tool properly tagged	and numbered?		□ Y	'es	☐ No	☑ n/a		
Organization	n Authorized Signature		Graça Ferreira					Date	10 March 2023
Print Name	Graça Ferre	eira		Phone No.				FAX No.	
Title Q	E		<u> </u>	E-mail tdc	@yazaki-e	urope.com			_
			FOR CUSTOME	R USE ONLY (IF A	PPLICABLE)			
DDAD War	rant Disposition:	☐ Approved	_	Other		,			
	•	☐ Approved	Rejected	□ Other				Data	
Customer S	_						· »	Date	
Print Name					ustomer Tra	cking No. (opt	ional)		

Production Part Approval, Dimensional Results

HellermannTyton

Internal PB-No.: **101623**

Production Part Approval Dimensional Test Results

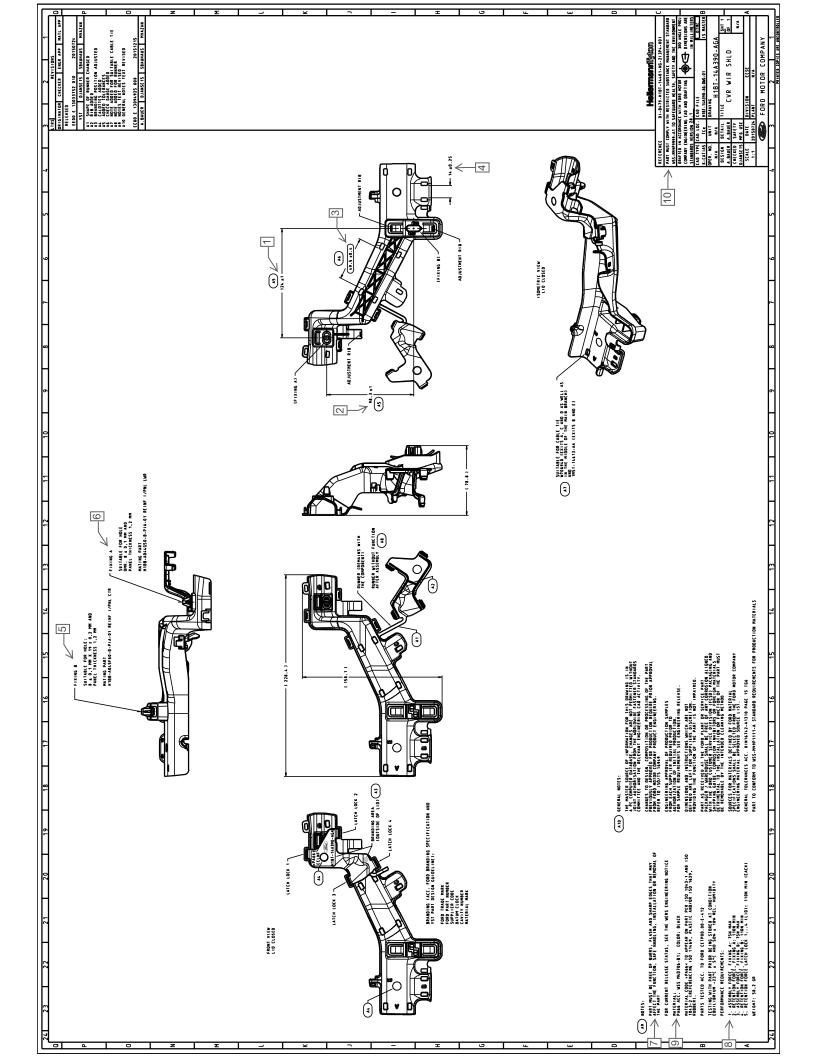
	NIZATION: LIER/VENDOR CODE:		llerman NS: 3154	nTyton G 30892	SmbH	PART NUMBER: PART NAME:	7176197530 Glove	/ H1BT-14A box Channel		-AG	iΑ
INSPE	CTION FACILITY:	QS	-Labora	itory		DESIGN RECORD CH	IANGE LEVEL:	EE00-E-13094925-000	15-	Dec-	15
						ENGINEERING CHA	NGE DOCUMENTS:				
						NAME of LABORA	TORY:				
		SPECIFI	CATION	TEST	QTY.					N	ОТ
ITEM	DIMENSION / SPECIFCATION	/ LIM	ITS	DATE	TESTED	SUPPLIEF	R TEST RESULTS	(DATA)	OK	C	K
						mean	min	max		<u> </u>	
	124mm	± 1				125	124	125,0	✓		
	98,3mm	± 1				98,4	98,2	98,6	~	L	
3	49,5mm	± 0,4				49,6	49,6	49,7	✓	L	
4	14mm	± 0,2	25			14,12	14,10	14,21	<u> </u>	L	
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Blanket statements of conformance are unacceptable for any test results.

This letter is done automatically and is valid without signature.

CREATOR	<u>TITLE</u>	<u>DATE</u>
i.A. L. Gutke	Quality Technician	3-Mar-23

Rev #: 01 Rev. Date: 25.07.2012



CONTROL PLAN

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Prototype	ype	7	Production											
Control Plan Number	In Number 13304017	ISSUE:		2.00	Key Contact/Phone	+48 63 2237 322				Date (Orig.) 2017-11-09		Date (Rev.) 2018-05-14	Drawing No H1BT-14A390-AGA	3A
Part Number	Part Number/Latest Change Level				Core Team	A. Kaczmarzyk, M. Madai	1. Krysztofov	Core Team A. Kaczmarzyk, M. Krysztofowicz, M. Kwiatkowski, M. Matuszewska M. Madai		Customer Engin	Customer Engineering Approval/Date (If Req'd.)			
Project Nam GLOVE	Project Name/Part Name/Description GLOVEBOX CHANNEL	on PGroup: C-00	C-00		Supplier/Plant Approval/Da	ate				Customer Qualit	Customer Quality Approval/Date (If Req'd.)	f Req'd.)		
Supplier/Plant HT	lant HT Słupca	Supplier Code			Other Approval/Date (If Req'd.)	ed'd.)				Other Approval/Date (If Req'd.)	Date (If Req'd.)			
PART/	PROCESS NAME/	MACHINE, DEVICE.			CHARACTERISTICS		SPECIAL			METHODS	SO			
PROCESS NUMBER	OPERATION DESCRIPTION	JIG,TOOLS, FOR MFG.	ARTICLE NO.	ON	PRODUCT	PROCESS	CHAR.	PRODUCT/PROCESS SPECIFICATION/	EVALUATION/ MEASUREMENT	SAN	SAMPLE FREQ.	CONTROL	DEPARTMENT	REACTION PLAN
-	Goods receipt -			-	Part Type			Box description / CMR	visual	100%	Each batch	SD-33-1 / SAP	Warehouse	
	incomming inspection			2		Quantity	Ŭ	CMR	visual	100%	Each batch	SD-33-1 / SAP	Warehouse	VA-03-1 / VA-03-1-1
			•	e	Appearance (Damage)			No damage/ Work instr.	visual	100%	Each batch	SD-33-1	Warehouse	handling with
		Scanner, SAP	011-20132 PA66-LHS	4	Residual moisture (302-0)			0-0,15%	visual, COA	-	1 lot	SAP - inspection plan	SÖ	Contact supplier. Raise complaint. Advise
				2	Notch impact strength (304-0)			61 - 73 MPa	visual, COA	-	1 lot	SAP - inspection plan	QS	production and logistic accordingly if the defect disrupts delivery
				9	Tensile yield stress (305-0)			5 - 15 Kj/m²	visual, COA	-	1 lot	SAP - inspection plan	QS	performance.
2	Raw material storage			-	Part Number			Ensure all items identify and segregate - labels / Work instr.	visual	100%	Each supply	SAP - system control	Warehouse	VA-03-1 / VA-03-1-1
		Scanner, Racks, SAP inspection and location	, 011-20132 PA66-I-HS	2		Storage time	, 0	According to MSDS storage criteria	SAP - system storage time counter / visual	100%	Every day	SAP - system control	Logistic	According to instruction
		system		က		Storage		According to MSDS storage criteria	moisture and temperature meter	100%	Continuous	Automatic monitoring system	Logistic	AA-55-1
က	Raw material supply for Injection moulding			-	Part Type			Box description	visual / scanner	100%	Each supply	SAP - system control	Production	VA-03-1 / VA-03-1-1 - handling with
		Off-line mixer	PA66-I-HS	2		Adequate storage		Work instruction / FIFO	visual / scanner	100%	Each supply	SAP - system control	Production	nonconforming product. Inform production leader and quality controller.
4	Injection moulding			-		Process / Machine set-up		Set-up card / Work instr.	Reviev of set-up card and machine settings		Each start and restart	1st shot controll / SD-03-1 check list	Production / QS	
				2			\	1-0 sink marks	MS 50-9630, visual	1 shot				
							**	2-0 shortage	MS 50-9630, visual	1 shot				
								3-0 flashes 4-0 mould misalianment	MS 50-9630, visual MS 50-9630, visual	1 shot				
					Appearance - visual		14)	5-0 moulding lines	MS 50-9630, visual	1 shot		AA-02-1-4,		
		Injection						6-0 burnings	MS 50-9630, visual	1 shot				VA-03-1 / VA-03-1-2 -
		moulding	133-04017 GLOVEBOX				10	7-0 dirt	MS 50-9630, visual	1 shot			Firet final rectart	nonconforming product.
		Separate					1 0:	8-0 deformation	MS 50-9630, visual	1 shot	First, final, restart and			Inform production leader and quality controller.
		Inspection area		m	Shot weight			RK - shot weight diagram	SG02 balance	1 shot	1 per shift	RK - shot weight diagram	1 per shift - QS	
				4	Date stamp			CP - work instruction	manual / visual	1 shot		PA - check sheet		
			•	\neg	Brittleness arrow head			CP - work instruction	gauge 08-0161	1 shot		PA - check sheet		
			•	9 /	Brittleness arrow head			CP - work instruction	gauge 08-0245	1 shot	•	PA - check sheet		
					Expanding test			CP - work instruction	gauge 08-0355	1 shot		PA - check sheet		
				6	Bending test			CP - work instruction	manual / visual	1 shot		PA - check sheet		
			•	10	Closure test			CP - work instruction	manual / visual	1 shot		PA - check sheet		
				=	Production place marker control			CP - work instruction	MS 50-9630, visual	1 shot		PA - check sheet		

CONTROL PLAN

HellermannTyton

Prototype Pre-Launch	nch 🗸 Production						
Control Plan Number 13304017	ISSUE:	2.00 Key Ca	Key Contact/Phone	+48 63 2237 322 Da 220 Da 20 D	Date (Orig.) 2017-11-09	Date (Rev.) 2018-05-14	Drawing No H1BT-14A390-AGA
Part Number/Latest Change Level 133-04017		Core Team	Team	A. Kaczmarzyk, M. Krysztofowicz, M. Kwiatkowski, M. Matuszewska, M. Madaj	Customer Engineering Approval/Date (If Req'd.)	Jate (If Req'd.)	
Project Name/Part Name/Description GLOVEBOX CHANNEL	nn PGroup: C-00	Suppli	Supplier/Plant Approval/Date		Customer Quality Approval/Date (If Req'd.)	(If Req'd.)	
Supplier/Plant HT Slupca	Supplier Code	Other	Other Approval/Date (If Req'd.)		Other Approval/Date (If Req'd.)		

	REACTION	PLAN				VA-03-1 / VA-03-1-1- handling with	nonconforming product. Inform packing leader and	quality controller.			According to instruction AA-49-1		According to instruction AA-49-1		SD-18-1 nonconformity type and reaction plan
		DEPARTMENT		Packing	Packing	Packing	QS	Packing	QS	Packing / QS	Warehouse	Warehouse	Warehouse	Warehouse	Lab
		CONTROL	МЕТНОВ	visual - self check not recorded	visual - self check not recorded	visual - self check not recorded	VP - check sheet	visual - self check not recorded	VP - check sheet	VP - check sheet	shipping list	SD-16-1 check list	SD-16-1 check list	SD-16-1 check list	SD-18-1 / Work instruction
sac	SAMPLE	FREQ.		Each product change	Each product change	100%	1 start off	100%	1 start off	1 start off	Each complete storing field	Each shippment	Each shippment	Each shippment	12 months
METHODS	SA	SIZE				1 bag	1 bag	Each bag, box	1 bag	1 bag	100%	100%		1	3 shots
	EVALUATION/	MEASUREMENT	TECHNIQUE	visual	visual	scale counter / manual	SG05 scale counter / manual	visual	visual	visual	visual / scanner	visual	visual	visual	visual / manual
	PRODUCT/PROCESS	SPECIFICATION/	TOLERANCE	Packing specification	Production label / Packing specification	Packing specification		Packing specification / Work instr.			Ensure all pallets are identified and segregated - shipping labels and storage location	Shipping list	Shipping list	No damage/ Work instr.	Acc. part drawing and specification
SPECIAL	CHAR.	CLASS													_ ` ·
		PROCESS		Method of pack		Quantity				Mixed parts in pack unit		No of pallets	Correct shipping direction		
CHARACTERISTICS		PRODUCT			Part Number			Label			Part Number			Appearance (Damage)	Complete dimensional and functional test
		8		-	2	က		4		2	-	-	2	3	-
		ARTICLE NO.				133-04017	GLOVEBOX				133-04017 GLOVEBOX CHANNEL		133-04017 GLOVEBOX CHANNEL		133-04017 GLOVEBOX CHANNEL
MACHINE, DEVICE,	JIG,TOOLS,	FOR MFG.				:	Packing station / Separate area				Store are		Dispatch		Lab
PROCESS NAME/	OPERATION	DESCRIPTION		Packaging inspection							Storing goods	Shipping goods			Product annual audit and requalification
PART/	PROCESS	NUMBER		2							9	7			ω

Production Part Approval, Performance Test Results

HellermannTyton
Internal PB-No.: 101623

Production Part Approval Performance Test Results

	NIZATION: LIER/VENDOR CODE:	Hellerman DUNS: 3154	-	GmbH	PART NUMBER: PART NAME:	7176197530 Glovel	/ H1BT-14A box Channel		AGA
*CUST	RIAL SUPPLIER: FOMER SPECIFIED SUPPLIER/VENDOR (e approval is req'd, include the Supplier (Source) Custom				DESIGN RECORD CHAN		EE00-E-13094925-000	15-[ec-15
	MATERIAL SPEC. NO. / REV / DATE	SPECIFICATION / LIMITS	TEST DATE	QTY. TESTED		R TEST RESULTS EST CONDITIONS		ОК	NOT OK
5	Suitable for hole	8mm ±0,1 x			Suitable for h	ole 8mm ±0,1 x	19mm	片	╠┤
		19mm ±0,2				I thickness 1,2r		Ħ	H
	and panel thickness	1,2mm			zo,z ana pano	1 11101111000 1,21		卌	┢
	and panel anomies	, <u>-</u>						卌	H
6	Suitable for hole	8mm ±0,1			Suitable for h	ole 8mm ±0,1 ar	nd panel	卌	H
	and panel thickness	1,2mm			thickness 1,2		ia parior	7	┢╤┪
	and panel anothess	1,2			timotiness 1,21			╁┼	┢╤╌
7	Part must be free of burrs, flash				Part is free of	burrs, flash and	d sharp	卌	╁┼
	and sharp edges that may				edges that ma	y affect the fun	ction,	Ĭ⊟	
	affect the function, safe					, installation or		⇈▔	╗
	handling, installation or removal				of the part	•		7	Ħ
	of the part							⇈	╗
	·							⇈	\Box
					mean	min	max	愩	
8	Assembly force fixing A	max. 75N			23N	23N	25N	愩	Ħ
	Retention force fixing A	min, 110N			264N	246N	298N	愩	Ħ
	Assembly force fixing B	max. 75N			34N	33N	34N	愩	Ħ
	Retention force fixing B	min. 110N			444N	427N	464N	t⊟	\sqcap
							<u>!</u>	一	┢
	Retention force latch lock 14	min. 110N						ऻऻ	
	(lid)				mean	min	max		
	Latch 1				143N	138N	145N	4	
	Latch 2				138N	131N	143N	4	
	Latch 3				137N	133N	145N	4	
	Latch 4				135N	131N	141N	4	
							-		

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CREATOR	TITLE	<u>DATE</u>
i.A. L. Gutke	Quality Technician	3-Mar-23

Rev #': 01 Rev. Date: 25.07.2012

Production Part Approval, Material Test Results

HellermannTyton

Internal PB-No.: **101623**

Production Part Approval Material Test Results

	NIZATION: LIER/VENDOR CODE:	Hellerman DUNS: 3154	-	SmbH	PART NUMBER: 7176197530 / H1BT-14A PART NAME: Glovebox Channel		-A(ЗА
*CUST	RIAL SUPPLIER: 'OMER SPECIFIED SUPPLIER/VENDOR				DESIGN RECORD CHANGE LEVEL: EE00-E-13094925-000 ENGINEERING CHANGE DOCUMENTS:	15-	Dec	-15
*If source	approval is req`d, include the Supplier (Source) Custo	omer assigned code.			NAME of LABORATORY:			
	MATERIAL SPEC. NO. / REV / DATE	SPECIFICATION / LIMITS	TEST DATE	QTY. TESTED	SUPPLIER TEST RESULTS (DATA)	ОК	ı	IOT OK
	Material:							
9	PA66 acc. WSS-M4D706-B1,				Material is PA66 acc.			
	color: black				WSS-M4D706-B1, color is black	✓		
10	Part must comply with				Part complies with restricted			
	restricted substance				substance management standard			
	management standard				WSS-M99P9999-A1 to safeguard			
	WSS-M99P9999-A1 to safe-				health, safety and the environment	✓		
	guard health, safety and the							
	environment							
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CREATOR	<u>TITLE</u>	<u>DATE</u>
i.A. L. Gutke	Quality Technician	3-Mar-23

Rev #: 01 Rev. Date: 25.07,2012



Abnahmeprüfzeugnis/CoA nar b Eta 19704-3 Lower ading to EN 10204-3 J

AKRO-PLASTIC GmbH Member of the Feddersen Group

PROBENIDENTIFIKATION / DESCRIPTION OF PRODUCT:

Nummer / Item number:

06262-O

Bezeichnung / Material:

AKROMID A3 1 S3 schwarz (2768)

PRODUKTIONSDATEN / PRODUCTION DATA:

Charge / LOT: POC03 139536

PRÜFERGEBNISSE / TESTRESULTS:

Prüfung Testing	Norm Norm	Prüfbedingung Testing condition	Spezifikation Target Value	istwert Actual Value	Einheit Unit
Restfeuchte Water content	DIN EN ISO 15512 Verf. B2		<= 0,150	0.08	%
MVR MVR	DIN EN ISO 1133-1	275/5	>= 70,0	102.0	cm³/10 min
Zug-E-Modul Tensile modulus	DIN EN ISO 527- 2/1A	1 mm/min / RT	2600 +/- 400	2666	MPa
Bruchdehnung Tensile strain at break	DIN EN ISO 527- 2/1A	50 mm/min / RT	>= 20,0	29.8	%
Streckspannung Stress at yield	DIN EN ISO 527- 2/1A	50 mm/min / RT	67,0 +/- 7,0	65.8	MPa
Charpy Kerbschlagzähigkeit Charpy notched impact strength	DIN EN ISO 179- 1/1eA	23°C	10,0 +/- 5,0	9.0	kJ/m²

Freigabedatum / date of release:

19.10.2022

Zusatzvermerke / remarks:

Niederzissen, 19.10.2022

Gez. Abnahmebeauftragte / Inspection representative: i.V. Ute Bürger

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