

Title: T250, Uzbek Brake Fluid change. Type: Part Type SubType: PWO - Usage and Spec Change

Owner: Semoon Choi

Reason: CKD Request

Initiator: Jungwoo Song

GPS Indicator: No

Dress Part Indicator: No

Engineering Release Division: R

Driver: Program Engineering Manager (PEM)

Change Priority: 4R - Engineering Rework

Approver Company: General Motors

Co-Author Names:

Donghoon Sun

Minsub Park

Application Engineer Names:

Otabek Jurayev

Otabek Jurayev

JV/Supplier Names:

UzAuto Motors

Driver Identification:

PEM(20Dec.2019) approve.

From To Description:

T250, Uzbek Brake Fluid change.
9986356 to 9274858.

Rationale:

T250, Uzbek Brake Fluid change.

Lead Product Impact Chart:	Model Year	Product Line Code	Program Code/RPO	GPS Architecture Code	In Launch
	2020	RT	T250 UZ		No

Product Impact Chart (PIC):

Lead	Model Year	Architecture	Product Line Code	Program Codes/RPO (s)	Lead Program	DRD	GPS Architecture Code	Effective Point Code	WFUO Modifier
Yes	2020	GMDAT-T	RT	T250 UZ	T250 UZ			URGT	
No	2021	GMDAT-T	RT	T250 UZ				SOP	

Build Event	Build Event Comment	Updated Build Event	Updated Build Event Comment	In Launch	In Launch Program(s)	Finish Date	Plant	Mfg. Region
				No			Asaka City-Vehicle Plant	GMI
				No			Asaka City-Vehicle Plant	GMI

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Part Action Tab :

Row Number: 3

Change Action	Model Year	Product	DRD	GPS Arch Code	Current Part	Current DLS	Current PLS	Current Mass	Current Mass Cert
REPL	2020	RT			9986356			1.0570	B
New Part	New DLS	New PLS	New Mass	New Mass Cert	Indent Level	ASM	Next-Up	Seq #	UPC Prefix
9274858			1.0570						-
UPC	FNA	FNA Desc	VPPS	FNM	Family Address	Part Type	Part DRD	Broadcast Code	Pref Ind
5E	0800A	FLUID-HYD BRK (GLYCOL)	20.04.01.98	DOT4		L	R	6356U	
Eng Rel Div	KCDS Code	KCDS Code Desc	SDC	Model Code		Prod Stk Disp	Serv Stk Disp	Interchangeable	
R			Y	C9QS		USE	USEM	Yes, New and Old part are interchangeable	
Hand Code	Status	Qty	NOU	UOM		Dynamic Torque	Static Torque		
	P	1	0.50000	LT					
Less Finish	Color Code	Color Name	Finish Code	Make From	Fastener Ind	Engr Code	BFO	Math Owner	
						R869,RY15			
Torque Notes		Perm Notes							
Chart Number	GRM/MPF	Math #	Math Rev	Math Req	GD&T Req	Dwg Resp	Similar To	Optional Parts	
9274858				N	Not Required	GM Drawing			
Supplier Part	MOP	SRC	MPD ID	MPD Item#					
	???	???	9999999	0800A					
Part Comments					Change Log				
					Part DRD was S Part Type was C FNM was FOR BRAKE FLUID Chart Or Dwg # was				

Title: T250, Uzbek Brake Fluid change.

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Model Option Statements:

PAT Row No.: 3

Marketing Div/Vehicle	Series	Body Style Code	Options
1	TF	69	&MBN/MBR.

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Part Action Tab :

Row Number: 4

Change Action	Model Year	Product	DRD	GPS Arch Code	Current Part	Current DLS	Current PLS	Current Mass	Current Mass Cert
REPL	2021	RT			9986356			1.0570	B
New Part	New DLS	New PLS	New Mass	New Mass Cert	Indent Level	ASM	Next-Up	Seq #	UPC Prefix
9274858			1.0570						-
UPC	FNA	FNA Desc	VPPS	FNM	Family Address	Part Type	Part DRD	Broadcast Code	Pref Ind
5E	0800A	FLUID-HYD BRK (GLYCOL)	20.04.01.98	DOT4		L	R	6356U	
Eng Rel Div	KCDS Code	KCDS Code Desc	SDC	Model Code		Prod Stk Disp	Serv Stk Disp	Interchangeable	
R			Y	C9QS		NOST	NOST	Yes, New and Old part are interchangeable	
Hand Code	Status	Qty	NOU	UOM		Dynamic Torque	Static Torque		
	P	1	0.50000	LT					
Less Finish	Color Code	Color Name	Finish Code	Make From	Fastener Ind	Engr Code	BFO	Math Owner	
						R869,RY15			
Torque Notes		Perm Notes							
Chart Number	GRM/MPF	Math #	Math Rev	Math Req	GD&T Req	Dwg Resp	Similar To	Optional Parts	
9274858				N	Not Required	GM Drawing			
Supplier Part	MOP	SRC	MPD ID	MPD Item#					
	???	???	9999999	0800A					
Part Comments					Change Log				
					Part DRD was S Part Type was C FNM was FOR BRAKE FLUID Chart Or Dwg # was				

Title: T250, Uzbek Brake Fluid change.

Type: Part Type

SubType: PWO - Usage and Spec Change

Model Option Statements:

PAT Row No.: 4

Marketing Div/Vehicle	Series	Body Style Code	Options
1	TF	69	&MBN/MBR.

Title: T250, Uzbek Brake Fluid change.

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Change Criteria - Distribution List Criteria

Yes

☒No

Does this change affect Sealing?

Distribution Result: If "Yes" is selected, then the roles "DRE (Design Release Engineer) - Sealant and Adhesives" (Vehicle only) and "DRE (Design Release Engineer) - Sealing" (GPS only) will be added as information only tasks [Elaborate].

Yes

☒No

Does this change impact Labels?

Distribution Result: If "Yes" is selected, then the role "DRE (Design Release Engineer) - Labels" will be added as an information only task [Elaborate and Execute].

Yes

☒No

Does your change impact the way the customer interfaces with the vehicle (for example, operator switches, displays, controls, vehicle service, other features) OR is this a safety or regulatory change that is documented in the owner manual?

Distribution Result: If "Yes" is selected, then the role "DRE (Design Release Engineer) - Literature" will be added as an information only task [Elaborate and Execute].

Yes

☒No

Does this ECR affect the material of any part? (i.e. material specification, material grade, material source, etc.)

Distribution Result: If "Yes" is selected, then the role "Materials Engineer" will be added as an information only task [Elaborate].

Yes

☒No

Does this change affect Accessory Components/Kits or Performance Parts?

Distribution Result: If "Yes" is selected, then the role "DRE (Design Release Engineer) - Accessory" will be added as an information only task [Elaborate].

Yes

☒No

Does this change violate any best practices or affect Corporate Common Component (CCC) parts or interfaces?

Distribution Result: If "Yes" is selected, then the role "BFO (BOM Family Owner)" will be added as a due task [Elaborate].

Yes

☒No

Does this ECR release Corporate Common Components (CCC) or Corporate Managed Solutions (CMS) to Book I only?

Distribution Result: If "No" is selected, then the role "MFG - Manufacturing Engineer" will be added as a due task [Elaborate].

Yes

☒No

Does this change affect studio 'A' surface?

Distribution Result: If "Yes" is selected, then the role "VSE (Vehicle System Engineer)" will be added as an information only task [Elaborate].

Yes

☒No

Does this change affect any part masses?

Distribution Result: If "Yes" is selected, then the role "Vehicle Performance Engineer - Mass" will be added as an information only task [Elaborate].

Yes

☒No

Does this change affect fastener torques and/or torque notes?

Distribution Result: If "Yes", then the role "DRE (Design Release Engineer) - Fastener" will be added as an information only task [Elaborate and Execute]

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-If assemblies on this ECR contain threaded component fastener part number(s) that do not currently have service torques specifications documented, then include them on the Part Action Tab and document the service torque specifications accordingly.

-If unknown, then contact the assembly part supplier for the service torque specifications.

Yes

☒ No

Does this change affect fastener usages (i.e. new part number, quantity change, restriction statement change, etc.)?

Distribution Result: If is "Yes", then the role "GPSC - Buyer - Fastener" will be added as a due task [Elaborate and Execute].

☒ Yes

No

Does this change affect components of a Service Kit?

Distribution Result: If "Yes" is selected, then the role "Generic - Co-Author" will be added as a due task [Draft] and as an information only task [Investigate].

Note: add the appropriate Service - Aftersales Engineer as a "Generic - Co-Author".

☒ Yes

No

Does this change involve another Region(s) where an Application Engineer (AE) supports you?

Distribution Result: If "Yes" is selected, then the role "Application Engineer" will be added as a due task [Draft].

☒ Yes

No

Is the estimated completed change after the -55 week milestone (Launch CAB Start Date) on the GVDP?

Distribution Result: If "Yes" is selected, then the role "GPSC - CIC (Change Implementation Coordinator)" will be added as a due task [Execute].

Yes

☒ No

Are ALL parts on this ECR manufactured In-House by GM (MFD, GMCH...etc.)?

Distribution Result: If "Yes" is selected, then the role "GPSC - Buyer" will be changed from a due task to an information only task [Elaborate].

Distribution Result: If "Yes" is selected, then the roles "MFG - Plant Coordinator" (Vehicle only), "MFG - Material Program Analyst", and "MFG - Contract Coordinator" will be added as information only tasks [Elaborate and Execute].

Yes

☒ No

Are ANY parts on this ECR manufactured In-House by GM (MFD, GMCH...etc.)?

Distribution Result: If "Yes" is selected, then the roles "MFG - Plant Coordinator" (Vehicle only), "MFG - Material Program Analyst" and "MFG - Contract Coordinator" will be added as information only tasks [Elaborate and Execute].

Yes

☒ No

Does this change impact Export, Regulatory, Emission Certification, or Type Approval requirements in any Region where the vehicle is built or sold?

Distribution Result: If "Yes" is selected, then the role "Certification Engineer" will be added as an information only task [Elaborate and Execute].

Yes

☒ No

Does this change impact tooling cost?

Distribution Result: If "Yes" is selected, then the role "Finance - Capital Management Analyst" will be added as a due task [Execute].

Yes

☒ No

Is this a Global/Joint Development Program where PATAC/SGM is the homeroom region or a China only Program?

Distribution Result: If "Yes" is selected, then the roles "Cost Engineer" and "VTE (Vendor Tooling Engineer)" will be added as due tasks [Investigate].

Yes

☒ No

Do changes on the ECR only impact China region piece cost or tooling cost?

Distribution Result: If "No" is selected, then the role "Finance - Analyst - PET" will be added as an information only task (GPS only) [Elaborate and Execute].

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Distribution Result: If "No" is selected, then the role "Finance - Capital Management Analyst" will be added as a due task [Execute].

Yes

☒No

Is this a PATAC/SGM Application Program ECR (manufactured in SGM and PATAC is not engineering design center)?

Distribution Result: If "Yes" is selected, the AVLE - Assistant Vehicle Line Executive will be added as an information only task [Investigate].

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Change Criteria - General Change Criteria

Yes

☒ No

Does the change affect fit, form, function or interchangeability of the component, subsystem or system as defined by GMW17205 Engineering Standard?

<https://documents.gm.com/gdm3/drl/objectId/090163bc840096fd/chronicleId/090163bc8240a4ec>

If no, explain why not: Carry-over Part repelce.

Select that the DRBFM is "Not Required" on this ECR.

Yes

☒ No

Does this change affect Energy Efficiency? (Government Requirement)

Yes

☒ No

Are any parts on Part Action Tab assembled on vehicles exported to or sold in China?

Yes

☒ No

Are there containment activities ongoing or planned?

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Change Criteria - Instructions

* Instructions

* A Visual Change Document (VCD) is required and must be attached to this ECR for the following subtypes: Part Chg with New Part Number / Part Chg without New Part Number / Usage and Spec Change (except for changes to RPOs, Model Restrictions, Marketing Division) / P Release (with math changes) / Deviation to Tech Specs (Vehicle Only) (Note: A VCD is NOT required for Literature only changes regardless of subtype).

* Note: Production Cost information is added on the Cost & Timing Tab only.

* For DRE Job Aid with instructions & reference material, go to (Link): [https://gmweb.gm.com/sites/edgeusercommunity/SitePages/ECM%20Documents-Job%20Aids%20\(Controlled\).aspx](https://gmweb.gm.com/sites/edgeusercommunity/SitePages/ECM%20Documents-Job%20Aids%20(Controlled).aspx)

* For the Corporate Common Component (CCC) training go to (Link): https://gmweb.gm.com/sites/GBOM_Reuse/gcsr/Pages/CCC%20CMS%20CGS%20Home.aspx

* If this ECR has to be processed in Design or Specs before or after other ECR(s) (i.e. stacked change), then add the corresponding ECR(s) and note the sequence in the Stacking area of this ECR.

Attachments:

File Name	Attached On	Attached By	Attachment Type	Attachment Description	Secured Attachment	Attachment Revision
4034693 VCD T250 brake fluid change.xlsx	Thursday, January 9, 2020 12:09:08 AM	Semoon Choi	VCD - Visual Change Document		Yes	1

Validation Plan:

Validation Type	Validation Activity	Validation Plan Details	Statement	Reviewed On
DRBFM Statements	DRBFM Not Required			
Validation Activity Plan	VALIDATION PLAN NOT REQUIRED	VALIDATION PLAN NOT REQUIRED		

Distribution:

Sort Order	Plan Type	Activity	Activity Title	Activity Type	Assigned	Role	Company	Group Name	Email Id	Contact Number	Manually Modified By	Originally Assigned
1	ECR	Draft 10.1	Create ECR, provide cost & timing estimates (if required) and attach VCD. DOCUMENT VALIDATION PLAN	DueTask	Semoon Choi	Generic - Change Owner						
2	ECR	Draft 20.2	Approve Change	DueTask	Minsub Park	Generic - Co-Author					Semoon Choi	
3	ECR	Draft 30.1	Support Math Owner by providing plant impacts..approve change.	DueTask	Otabek Jurayev	Application Engineer						
4	ECR	Investigate 10.1	Ensure quality of ECR VCD, DRBFM, cost estimates of Impacted parts and approve proposed change.	DueTask	Donghoon Sun	EGM (Engineering Group Manager)					Semoon Choi	

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Distribution:

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5	ECR	Investigate 10.2	Ensure ECR is complete, GPDS Part Release EDIT & PULLS NPNs	DueTask	Jungwoo Song	Specifications Analyst - Production						
12	ECR	Investigate 20.1 - Information	Courtesy Notify	InfoTask	Songhyun Ryu	DGM (Design Group Manager)					Jungwoo Song	
13	ECR	Investigate 20.2	Review ECR completeness (i.e. design...manuf...etc.) prior to initiating Elaboration.	DueTask	Semoon Choi	Generic - Change Owner						
17	ECR	Investigate 30.1 - Information	Verify and Update Distribution List	InfoTask	Donghoon Sun	Generic - Co-Author					Semoon Choi	
26	ECR	Elaborate 10.9	Send RFQ to supplier and obtain supplier final quote (i.e. Tooling \$...PC \$) lead weeks, enters supplier info into cost & timing section of ECR. Engage CE if over threshold.	DueTask	Sardor Khudayarov	GPSC - Buyer					Semoon Choi	
28	ECR	Elaborate 10.11	Document MFG quote	DueTask	Azizbek Turgunov	MFG - Manufacturing Engineer						
31	ECR	Elaborate 10.14	Document validation plan and lead weeks	DueTask	Otabek Jurayev	VE (Validation Engineer)						
32	ECR	Elaborate 10.15 - Information	Determine Serviceability Impact	InfoTask	Dilshod Magamedov	Service - Aftersales Engineer						
54	ECR	Elaborate 10.38 - Information	Courtesy Notify	InfoTask	Scott J Fletcher	Total Compliance Engineer					Semoon Choi	
55	ECR	Review 20.1	Approve Technical Review	DueTask	Donghoon Sun	EGM (Engineering Group Manager)					Semoon Choi	
56	ECR	Review 20.2 - Information	Initiate Tech Review	InfoTask	Semoon Choi	Generic - Change Owner						
59	ECR	Review 30.1	Manage the Change & schedule for CAB or PEM Offline Approval	DueTask	Dochyun Lee	CL (Change Leader) Vehicle						
61	ECR	Review 40.1	"Review / Update TID & approve by CRB/CAB or Proxy (PEM &/or MFO / Change Leader) CONDUCT ORGANIZATIONAL REVIEW & CONDUCT COST REVIEW"	DueTask	Sangseok Kim	PEM (Program Engineering Manager)					Semoon Choi	
64	ECR	Approved 10.1 - Information	Courtesy Notification ECR Approved	InfoTask	Dochyun Lee	CL (Change Leader) Vehicle						
65	ECR	Approved 10.2 - Information	Courtesy Notification ECR Approved	InfoTask	Semoon Choi	Generic - Change Owner						

GPDS#: A3G4P

ECR#: 4034690

ECR Lifecycle State: Execute

Date Initiated: Friday, January 3, 2020 1:18:32 AM

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Distribution:

Sort Order	Plan Type	Activity	Activity Title	Activity Type	Assigned	Role	Company	Group Name	Email Id	Contact Number	Manually Modified By	Originally Assigned
106	ECR	Complete 10.1	Close ECR	DueTask	Dochyun Lee	CL (Change Leader) Vehicle						

Permanent Notes:

Comments	ECR State	Modified BY	Modified On
Activity: Draft 20.2 Action Taken: Rework Role: Generic - Co-Author Comments: Need to change service engineer	Rework	Minsub Park	Friday, January 10, 2020 12:57:33 AM
Activity: Draft 20.2 - Rework Task Action Taken: Rework Assign To Complete Comments: Could you delicate co-author to Kanha Kim	Rework	Semoon Choi	Friday, January 10, 2020 1:44:42 AM
Activity: Draft 20.2 - Rework Task Action Taken: Rework Assign To Complete Comments: Could you delicate co-author to Kanha Kim	Rework	Semoon Choi	Friday, January 10, 2020 1:44:50 AM
Activity: Elaborate 10.9 Action Taken: Activity Complete Role: GPSC - Buyer Late Reason: u, Waiting Supplier Info Late Reason Comment: completed Comments: Late Reason: u, Waiting Supplier Info; Late Reason Comment: completed;	Elaborate	Sardor Khudayarov	Thursday, January 23, 2020 1:33:11 AM
Activity: Elaborate 10.11 Action Taken: Activity Complete Role: MFG - Manufacturing Engineer Late Reason: \$, Other Late Reason Comment: ME impact analyzed Comments: Suitability of Brake oil equipment on the line for new material will be analyzed with supplier.	Review	Azizbek Turgunov	Wednesday, February 12, 2020 6:14:29 AM
Activity: Review 30.1 Action Taken: Activity Complete Role: CL (Change Leader) Vehicle Late Reason: \$, Other Late Reason Comment: HOLIDAY Comments: CL AUDIT COMPLETED.	Review	Dochyun Lee	Monday, February 17, 2020 1:14:16 AM
MPL updated & CBR review.	Execute	Jungwoo Song	Monday, February 17, 2020 1:33:29 AM

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Implementation Plan:							
Project Number	Name	Project Manager	Sched Start		Sched Due		Description
21722	IP-4034690-T250, Uzbek Brake Fluid change.	Dochyun Lee	Monday, February 17, 2020 12:00:00 AM		Thursday, May 7, 2020 12:00:00 AM		Active
Scheduling Mode	Project Update Mode	Master Plan	Ph 1	Ph 2	Ph 3	Ph 4	
Interactively Only	On Activity Updates	Yes	0	0	0	0	