

Effects	S	C	Failure Mode	Causes	Preventive Action	O	Detection Action	D	RPN	R/D	
			FMEA Process					Number:	1.14		
			Page:								

Type/Model/Fabrication/Load: 250 RENAULT K9K - K9KK98 Clutch Housing	Item Code: 2500331320 - 2500331330 - 2500332100	Revision State:	Responsible: E/GPSS Company: GETRAG	Created:	10/06/2009
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FMEA/System Element: Summary (KG)	Item Code: Revision State:	Responsible: D. Pietanza (WEP) / L. Landfranca (WLP) / F. Sizzi (GPS) / G. Ciarelli (GPS2) / T. Lucchese (EEQ2) / S. Picerno (EEQ2) / M. Loschiavo (EEL) / M. Achille (EEL) / P. Lucchese (WLO)	Created:	10/06/2009
Effects		Preventive Action	Modulo FMEA: Summary (KG)	
S	C	Failure Mode	Nome: Attributi impostati dall'utente Annotazione Info Assistenza	
System Element: Automatic load / unload (KG/GG)		Causes	Categoria: System	

Function: Felsomat loading operator (GG/KG)

<input checked="" type="checkbox"/> E1 Assembly area nicks	<input checked="" type="checkbox"/> E5 Housing damaged	<input checked="" type="checkbox"/> E2 The piece fall down in manual loading phase	<input checked="" type="checkbox"/> Initial state: 10/06/2009	<input checked="" type="checkbox"/> Specific work instructions	3	<input checked="" type="checkbox"/> Control frequency in accordance to plan and/or SPC	<input checked="" type="checkbox"/> Internal 100% leak test
Agg da noi							
> <input checked="" type="checkbox"/> E1 Scrap to assembly leak test							
Agg da noi							
> <input checked="" type="checkbox"/> E1 Intermitent assembling process							
Agg da noi							
>> <input checked="" type="checkbox"/> E1 customer satisfaction	6						
> <input checked="" type="checkbox"/> E1 Assembly scrap							
Agg da noi							
> <input checked="" type="checkbox"/> E1 Intermitent assembling process							
Agg da noi							
>> <input checked="" type="checkbox"/> E1 customer	6						

Annotatione (English):

25/10/10 index h

30/09/2011 8-D-Report-No 1000000108399 of 21-12-2010 TM serial:LFJ0798.

Problem description: Place of Defect clutch, kind of Defect engage problems. Implemented Permanent Corrective Action(s) : Corrective Action, Control plan updated about for clean and not chips.

23/04/12 Aggiornata voce Wrong tool setup / Wrong pre-setting tool parameters / Wrong pre-setting machine parameters / Tool balancing NOK sulla base ad un reclamo FORD dello stesso periodo.

11/04/13 3321 new variant included in PFMIEA.

24/05/13 3321 Update index (b) CR250/5454 Conc CA13 - CA23, no change needed.

01/08/13 3321 Update index (d) CR35981 W5 deleted, no change needed.

16/04/14 Introduzione del nuovo fornitore Groupe Arché.

20/05/14 3321 Update index (e) CR35899 Note added, CAD-DASET 2014-05-13 was 2012-05-18, no change needed.

310871

 POWER!SHIFT	FMEA Processo		Number: 1.1.4 Page: 1/130
	Type/Model/Fabrication/Load: 250 RENAULT K9K - K9Kx9B Clutch Housing	Item Code: 2500331320 - 2500332100 Revision State:	Responsible: B/GPS3 Company: GETRAG
FMEA/System Element: Summary (KG)	Item Code: Revision State:	Responsible: D.Pietanza (WLP) / L.Landiscina (WLP) / F.Stizzi (GPS3) / G.Cicirelli (GPS2) / T.Lucchese (EEQ2) / S.Picerno (EEQ2) / N.Loschiavo (EEL) / N.Achille (ELE) / P.Lucchese (WLQ) Company: GETRAG S.p.A.	Created: 10/06/2009 Modified: 11/04/2013

Effects	S	C	Failure Mode	Causes	Preventive Action	O	Detection Action	D	RPN	R/D
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System Element: Automatic load / unload (KG/GG)

Function: Felsomat loading operation (GG/KG)

Effect	S	C	Failure Mode	Causes	Preventive Action	O	Detection Action	D	RPN	R/D
<input checked="" type="checkbox"/> Assembly area nicks > <input checked="" type="checkbox"/> Scrap to assembly leak test > <input checked="" type="checkbox"/> Intermittent assembling process >> <input checked="" type="checkbox"/> customer satisfaction 6 > <input checked="" type="checkbox"/> Assembly scrap > <input checked="" type="checkbox"/> Intermittent assembling process >> <input checked="" type="checkbox"/> customer satisfaction 6 <input checked="" type="checkbox"/> Structural area nicks > <input checked="" type="checkbox"/> break housing 8 >> <input checked="" type="checkbox"/> (1F) (R15) No Rolling Launch possible (Start Up) 7 >> <input checked="" type="checkbox"/> (7.1 F) (R18) No creep, loss of transmission of engine torque 7 >> <input checked="" type="checkbox"/> (4F) (R21) No Change of Drive Direction possible/ Vehicle inability 8 >> <input checked="" type="checkbox"/> (73F) coefficient of Friction (Clutch) reduction/ Shift Quality Impact/ Loss of Torque in worst case 8 >> <input checked="" type="checkbox"/> (10F) (R26) Unexpected Deceleration 8 >> <input checked="" type="checkbox"/> (75F) (R2) loss of Lubrication Function//Transmission damage 8 >> <input checked="" type="checkbox"/> (74.1F) (R26) Damage of bearings and shafts/ Transmission damage >> <input checked="" type="checkbox"/> (75.1F) (R2) Oil leak itself with no transmission damage 8 > <input checked="" type="checkbox"/> (28.6F) (R37) Boom Noise 5 >> <input checked="" type="checkbox"/> (54F) (R37) High Level of unpleasant Noise/ Vehicle Vibration felt through the drivers seat 8 >> <input checked="" type="checkbox"/> (12F) (R38) Degraded shift quality 5			<input checked="" type="checkbox"/> Housing damaged	<input checked="" type="checkbox"/> The piece fall down in manual loading phase	<input checked="" type="checkbox"/> Initial state: 10/06/2009 <input checked="" type="checkbox"/> Specific work instructions	3	<input checked="" type="checkbox"/> Control frequency in according to plan and/or SPC <input checked="" type="checkbox"/> Internal 100% leak test	5	120	

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