x	Equipment :	Manual assembly	Loss Type :	Startu	p Lo	oss					KAIZEN IDEA SHEET						
	Department :	Press and Fab - Quality					N		P Q								
	Cell :	Assembly cell at starways	Type :								K	aizen ID : 3158					
Unit Name : Press and Fab - Quality, Pune							ution :	<u> </u>	Manual Spring assembly								
											bly working condition in spring design						
<u> </u>				, , , , , , , , , , , , , , , , , , ,													
Problem / Present Status			Counter Measure						Benchmark: Reject				Rejection	ction Qty - 25 / month			
Gear shifting hard defect in PV - Spring shift return lug stuck in lever D slot				Spring length increased to avoid spring stuck in D slot - Spring length increased from 39.5~41.1 to 41 +1.5 mm					Target:			Rejection	Rejection Qty - 0 / month				
			Opinity						Start : 10/05/2017			Finished :	28/09/2017				
Max 0.24 P AT 50 DH101714									Note :						•		
			Assembly condition :- Part Name Parameter			Specification			Team Members :								
			Lever Gear shift D slot radius (DH101694_04)		D slot madius	40			1. Miss. Priti Sakhare					2.			
			Spring Gear shift Spring length L		Spring length Lug height from centre				3.					4.			
			Drg Clearance study between LCGS and spring] 					6.			
			(wrt lever assbly) Min			Ma	~		Benefits								
2		OK101731 OK101722.A		g Location in	39.465	41.			Benefit	Scholles							
Spring shift return lug	stuck in		But Lever D slot Edge Dist is as below														
lever D slot			Lever Gear shift D slot radius (DH101694_04)			R - 40											
Why Why Analysis :			Result:					_	Kaizen Sustenance :								
W1 : Why Spring end stuck in lever D Slot ?			Gear s	Gear shifting phenomena rejection reduced to Zero					What To Do : To confirm spring length 41 +1.5 mm								
A1 : Spring length in assembly condition - is less than LCGS D slot distance			,														
W2 : Why Spring length in assembly condition - is less than LCGS D slot																	
distance?			φ-	Q					How To Do : 1. Spring CNC bending program modified and controlled in Program.								
A2 : Spring length in assembly condition - min & max clearance 39.4~41.1 mm against LCGS slot length 40.4 +/-0.1 mm			Gear shifting Hard					Spring length inspection in i									
W3 : Why Spring length in assembly condition - min & max clearance			30 25 20 25					Frequency : 1. Daily inward inspection									
39.4~41.1 mm against LCGS slot length 40.4 +/-0.1 mm? A3 : Assembly working condition not considered while spring design.																	
W4: Why Assembly working condition not considered while spring design.			Q15					(Cost Inc	Cost Incurred For Making Kaizen :							
			10						М	aterial	Cost		Labo	our Cost	Total		
A4 :			5			0				0.00			(0.00	0.00		
			Before			After			Scope & Plan For Horizontal Deploy				al Denloy	ment :			
			6—	(May-17) (Ma			May-17)			Equipmnet					Target Status		
Root Cause Assembly working condition not considered while spring design.												артт			raigot Ciatao		
Assembly working condition	i not considered while	spring design.															
Date : 28/09/2	2017		1														
Registered By: Ms Pri	ti Sakhare	·															
Manager's Sign :																	
BAL Prass and F	ab Team																