



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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रोलिंग स्टॉक प्रमाण-पत्र

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6082	DISPATCH DATE				29.05.2017
2.	Railway	ER	Type	LWLRRM	Coach No.	17855	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105			
v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NA			
7.	Air Brake Testing:	Description				Specified	Observed
7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	Max Pressure in BC	All Brake are applied	6 -10 sec	3.00 ± 0.15 Kg/cm ²	6 Sec
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	After 02 Sec.		OK	3.00	OK
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec,	After 02 Sec.		No brake application	OK	OK
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	PU PAINT	GS	85			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					FAIVELEY	
iii.	CDTS					RAIL FAB	
iv.	SEATS/S&B					AMIR CHAND	
v.	BODY SIDE DOOR					JVR	
vi.	VESTIBULE SLIDING DOOR					HP	
vii.	CREW-GEN & GUARD ROOM DOOR					JBM/KALSI	
viii.	WATER TANKS					AMIT & SHIVALIK	
ix	FUEL TANK					GAURAV	
x	UIC VESTIBULE					SSIPL	
XI	FLOOR BOARD					NARBADA	
XII	PVC					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6082	ER	LWLRRM	17855	11-04-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176333				176334			
	ii.	Frame No.	FIAT-5627				FIAT-5543			
	iii.	Bolster No.	6836-GT				6824-P			
	iv.	Axle No.	S-3014		S-1759		W-3398		V-1550	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	916.00	916.00	917.00	916.50	916.00	916.00	916.00	916.00
	vii.	Wheel Disc No.	00053/7283	00041/6228	000078/17277	00083/7298	00135/7277	00029/7292	00020/6221	00034/7256
	viii.	R.B. Nos.	77669	77668	77664	77670	79735	81205	82210	77666
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-9-050	G-15-10-176	G-15-9-022	G-15-10-161	RSK-16-6-633	G-15-9-198	RSK-16-6-428	G-15-10-170	
ii.	Ht. at test load	510	466	509	466	512	468	514	468	
iii.	Align .deviation	9	8	7	8	4	6	4	11	
11.3	Items traceability:									
	Sno.	Item				Make				
	i.	Primary Outer Spring			L&S-16-12	L&S-16-12		L&S		
	ii.	Primary inner Spring			GBD-16-8	GBD-16-8		GBD		
	iii.	Primary Damper			35798,35744,35748,35690	35747,35505,35737,35790		KONI		
	iv.	Secondary damper			0167,0668	0121,0767		SV		
	v.	Lateral Damper			0129	0406		SV		
	vi.	Brake cylinder & Caliper			B17031/2000,D17015/2000 B17030/2000,C17020/2000	C17039/2000,D17009/2000 C17018/2000,D17012/2000		FTI		
	vii.	Brake Disc						KBI		
	viii.	Control arm top						KUMAR		
	ix.	Control arm bottom						KUMAR		
	x.	Top Rubber Pad						SGA		
	xi.	Vertical Bump Stop						GMT		
	xii.	Ball joint Control arm						MGN		
	xiii.	Lateral Bump stop						GMT		
	xiv.	Traction center make						EMSON		
	xv.	Traction lever make						SARITA		
	xvi.	Ball joint traction lever						SGA,MGN		
	xvii.	Traction centre elastic						GMT		
	xviii.	Secondary rubber pad						TECSPAK		
	xix.	Rubber spring						GMT		
	xx.	Anti roll bar make						SARITA		
	xxi.	Ball joint roll link						SARITA		
	xxii.	Fork make						RNG		
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6087	DISPATCH DATE				30.05.2017
2.	Railway	ER	Type	LWLRRM	Coach No.	17852	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 -10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		ESCORTS			
	iii.	CDTS		RAIL FAB			
	iv.	SEATS/S&B		AMIR CHAND			
	v.	BODY SIDE DOOR		JVR			
	vi.	VESTIBULE SLIDING DOOR		HP			
	vii.	CREW-GEN & GUARD ROOM DOOR		JBM/KALSI			
	viii.	WATER TANKS		AMIT & SHIVALIK			
	ix	FUEL TANK		GAURAV			
	x	UIC VESTIBULE		SSIPL			
	XI	FLOOR BOARD		NARBADA			
	XII	PVC		RESPONSIVE			
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6087	ER	LWLRRM	17852	02-05-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176404				176405			
	ii.	Frame No.	FIAT-5440				FIAT-5518			
	iii.	Bolster No.	6902-GT				6906-GT			
	iv.	Axle No.	S-2997		N-0906		V-1447		W-2995	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00044/6221	00154/6221	00023/6194	00048/6185	00015/6223	00016/6223	00129/6136	00041/6187
	viii.	R.B. Nos.	78139	76143	86333	77711	77702	77790	77706	75792
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
	Description	Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-9-042	G-15-10-140	G-15-9-034	G-15-10-138	RSK-16-10-738	G-15-10-183	RSK-16-10-543	G-15-10-226	
ii.	Ht. at test load	511	466	511	465	514	468	514	469	
iii.	Align .deviation	9	14	13	15	5	2	6	9	
11.3	Items traceability:									
	Sno.	Item							Make	
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			FSK-16-7		FSK-16-7		FSK	
	iii.	Primary Damper			36370,36470,36336,35609		36483,36568,36484,36439		KONI	
	iv.	Secondary damper			0387,0313		0023,0371		SV	
	v.	Lateral Damper			0217		0239		SV	
	vi.	Brake cylinder & Caliper			36671/2210,36778/2122 36675/2210,36669/2121		36673/2210,36682/2120 36672/2210,36683/2120		ESCORTS	
	vii.	Brake Disc							FTI,KBI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA, AFW	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							GMT	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							RNG, EMSON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6085	DISPATCH DATE				29.05.2017
2.	Railway	ER	Type	LWLRRM	Coach No.	17854	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1105	1105		
v)	Buffer/CBC (Make)	ESCORTS		Fiba Device	NA		
7.	Air Brake Testing:		Description		Specified	Observed	
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		6 -10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
8.1	PAINT		PU PAINT		GS	85	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				ESCORTS		
iii.	CDTS				RAIL FAB		
iv.	SEATS/S&B				AMIR CHAND		
v.	BODY SIDE DOOR				JVR		
vi.	VESTIBULE SLIDING DOOR				HP		
vii.	CREW-GEN & GUARD ROOM DOOR				JBM/KALSI		
viii.	WATER TANKS				AMIT & SHIVALIK		
ix	FUEL TANK				GAURAV		
x	UIC VESTIBULE				ESCORTS		
XI	FLOOR BOARD				TWPL		
XII	PVC				RESPONSIVE		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



रेल डिब्बा कारखाना, कपूरथला

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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		6085	ER	LWLRRM	17854	17-04-2017				
11.1	Wheel & Axle Details:	Gen.van side 1 hand brake				Gen.van side 2				
	i.	Bogie No.	176354				176353			
	ii.	Frame No.	FIAT-5577				ECBT-047			
	iii.	Bolster No.	6837-GT				6875-GT			
	iv.	Axle No.	R-3598		S-9195		W-3183		W-2898	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00185/6 198	00032/6 198	00024/6 185	00055/6 186	00051/6 217	00098/6 217	00051/7 251	00171/725 3
	viii.	R.B. Nos.	79636	81413	87151	75943	78201	77515	78200	83576
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
	Description	Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-9-039	G-15-10-177	G-15-9-025	G-15-10-121	RSK-16-9-519	G-15-10-203	RSK-16-9-801	G-15-10-155	
ii.	Ht. at test load	511	468	510	465	511	469	513	469	
iii.	Align .deviation	9	8	11	10	5	3	5	3	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			FSK-16-7		FSK-16-7		FSK	
	iii.	Primary Damper			37613,37905,37747,37733		37783,37753,37798,37725		KONI	
	iv.	Secondary damper			0784,0621		0761,0704		SV	
	v.	Lateral Damper			0070		0157		SV	
	vi.	Brake cylinder & Caliper			36684/2210,36777/2122 36676/2210,36776/2121		36685/2210,36678/2120 36676/2210,36680/2120		ESCORTS	
	vii.	Brake Disc							FTI,KBI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							GMT	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							EMSON, SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							RNG	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6088			DISPATCH DATE	17.05.2017	
2.	Railway	ER	Type	LWLRRM	Coach No.	17853	
3.	Booked to	SSE/C&W/LILUAH					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	CBC (Make)	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 -10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	ESCORTS				
		BIO TOILET	RAIL FAB				
	iii.	BIO TANK	RAIL TECH				
	iv.	SEATS/S&B	AMIR CHAND				
	v.	BODY SIDE DOOR	JVR				
	vi.	VESTIBULE SLIDING DOOR	HANSPAL				
	vii.	CREW-GEN & GUARD ROOM DOOR	KALSI/JBM				
	viii.	WATER TANKS	SHIVALIK, AMIT				
	ix	FUEL TANK	GAURAV ASSOCIATE				
	x	UIC VESTIBULE	SSIPL				
	XI	FLOOR BOARD	NARBADA				
	XII	PVC	RESPONSIVE				
	XII	LP SHEET	--				
	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.Vinyl Wrapping supplied and fitted by. M/S.Tehno Expert Jalandhar , Punjab , Contact No. 9317550000					
	10.2	Deviations if any:			NIL		



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6088	ER	LWLRRM	17853	17-04-2017			
11.1	Wheel & Axle Details:		Gen.van side 1 hand brake				Gen.van side 2			
	i.	Bogie No.	176350				176351			
	ii.	Frame No.	ECBT-036				FIAT-5604			
	iii.	Bolster No.	6869-GT				6860-GT			
	iv.	Axle No.	W-2923		V-2061		S-9390		S-9579	
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side
	vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00125/62 21	00006/62 21	00084/62 01	00155/61 34	00147/62 18	00034/62 16	00154/62 16	00169/6205
	viii.	R.B. Nos.	80443	80739	80069	81297	72726	80142	79714	78101
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	Secondary suspension load deflection Values:									
Description		Lateral Damper Side		Non Lat. Damper side		Lateral Damper Side		Non Lat.Damper side		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	G-15-10-077	G-15-10-187	G-15-10-033	G-15-10-144	RSK-16-10-825	G-15-10-138	RSK-16-10-893	G-15-10-125	
ii.	Ht. at test load	511	467	511	464	513	469	514	470	
iii.	Align .deviation	5	10	6	11	6	6	4	5	
11.3	Items traceability:									
	Sno.	Item							Make	
	i.	Primary Outer Spring			L&S-15-12		L&S-15-12		L&S	
	ii.	Primary inner Spring			GBD-16-8		GBD-16-8		GBD	
	iii.	Primary Damper			37944,37967,38060,37651		37635,38082,35755,35443		KONI	
	iv.	Secondary damper			0689,0656		0688,0447		SV	
	v.	Lateral Damper			0136		0444		SV	
	vi.	Brake cylinder & Caliper							-----	
	vii.	Brake Disc							KBI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA, AEW	
	xvi.	Ball joint traction lever							MGN	
	xvii.	Traction centre elastic							GMT	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							RNG	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

