

CHAPTER 5 HOOD MECHANISM

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Hood locking and jettison gear -

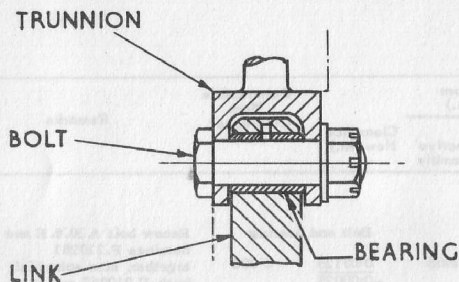
1. The hood on the two-seat version of the aircraft is hinged at the aft end to permit access to the cockpit. Details of points where wear is liable to occur may be found in fig.2. These wear limits only apply where the total backlash in the system is not excessive and the satisfactory operation of the hood is ensured. Where the total backlash is excessive, it should be reduced by renewing parts where most wear is apparent.



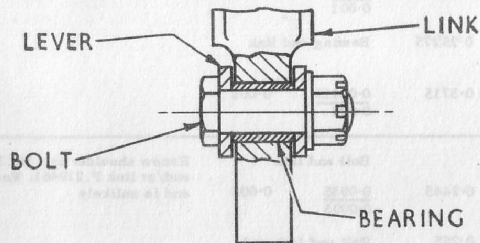
SCHEDULE OF WEAR LIMITS FOR HOOD LOCKING AND JETTISON GEAR

Ref.No. on Diagram	Part and Description	Dimension New (in.)	Permissible Worn Dimensions (in.)		Clearance (New (in.)	Permissible Worn Clearance (in.)	Remarks
			Non- Selective Assembly	Selective Assembly			
1/1	Assembly of link A.210209 (aft port and stbd.) or link F.210211 (forward port) or link F.210461 (forward stbd.) to trunnion F.211138 using bearing F.210259 and bolt A.57.8.G	Bolt	0-31225 0-31175	0-3105	0-3090	Bolt and bearing 0-00125 -0-00025	Renew bolt A.57.8.G. and/or bearing F.210259. Wear in trunnion is unlikely
		Bearing	0-3130 0-3120	0-3135	0-31525	Bolt and trunnion	
		Trunnion	0-3130 0-3120	0-3135	0-31525	0-00125 -0-00025	
1/2	Assembly of link F.213315 (port and stbd.) with lever A.210212 (port and stbd.) using bearing F.210258 and bolt A.57.6.G	Bolt	0-31225 0-31175	0-3105	0-3090	Bolt and bearing 0-00125 -0-00025	Renew bolt A.57.6.G and/or bearing F.210258. Wear in lever is unlikely
		Bearing	0-3130 0-3120	0-3135	0-31525	Bolt and lever	
		Lever	0-3130 0-3120	0-3135	0-31525	0-00125 -0-00025	
1/3	Assembly of link A.210209 with link F.213315 and eye end F.210062 using bearings F.210261, spherical bush F.210067 and bolt A.57.8.E	Bolt	0-24975 0-24925	0-2480	0-2465	Bolt and bearings 0-00125 -0-00025	Renew bolt A.57.8.E bearings F.210261 together, spherical bush F.210067 and eye end F.210062 as necessary. Wear in link A.210209 (upper) and link F.213315 (lower) is unlikely
		Link (upper)	0-3755 0-3745	0-3770	0-3775	Bolt and sph.bush	
		Sph-bush I/D	0-2505 0-2495	0-2510	0-25275	0-00125 -0-00025	
		Sph-bush O/D	0-449 0-448	0-448	0-444	Bolt and link (lower)	
1/4	Assembly of link F.210211 (port) or link F.210461 (stbd.) with link F.213315 and eye end F.210063, using bearings F.210261, spherical bush F.210067 and bolt A.57.8.E	Eye-end	0-453 0-450	0-454	0-455	0-00125 -0-00025	Renew bolt A.57.8.E, bearings F.210261 together, spherical bush F.210067 and eye end F.210063 as necessary. Wear in link F.210211 (port upper) or link F.210461 (starboard upper) and link F.213315 (lower) is unlikely
		Link (lower)	0-2505 0-2495	0-2510	0-25275	Sph.bush and eye end	
		Bearings I/D	0-2505 0-2495	0-2510	0-25275	0-005 0-001	
		Bearings O/D	0-3745 0-37425	0-3740	0-3715	Bearing and link (upper) 0-00125 0-000	

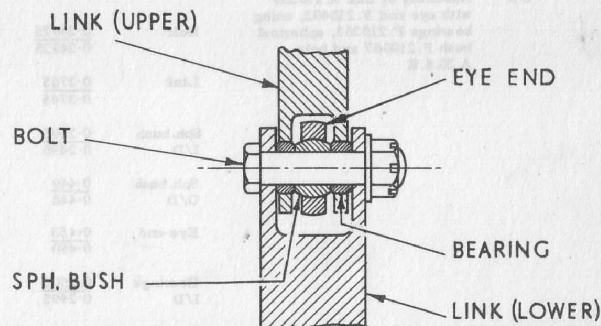
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DETAILS FOR HOOD LOCKING AND JETTISON GEAR

SCHEDULE OF WEAR LIMITS FOR HOOD LOCKING AND JETTISON GEAR

Ref.No. on Diagram	Part and Description	Dimension New (in.)	Permissible Worn Dimensions (in.)		Clearance New (in.)	Permissible Worn Clearance (in.)	Remarks
			Non- Selective Assembly	Selective Assembly			
1/5	Assembly of link A.210209 with eye end F.210403, using bearings F.210261, spherical bush F.210067 and bolt A.30.6.E	Bolt	0-24975 0-24925	0-2480	0-2465	Bolt and bearing 0-00125 0-00025	Renew bolt A.30.6.E and bearings F.210261 together, also spherical bush F.210067 and eye end F.210403 if necessary. Wear in link A.210209 is unlikely
		Link	0-3755 0-3745	0-3770	0-3775	Bolt and sph.bush	
		Sph.bush I/D	0-2505 0-2495	0-2510	0-25275	0-00125 0-00025	
		Sph.bush O/D	0-449 0-448	0-448	0-444	Sph.bush and eye-end	
		Eye end	0-453 0-450	0-454	0-455	0-005 0-001	
		Bearings I/D	0-2505 0-2495	0-2510	0-25275	Bearing and link	
		Bearings O/D	0-3745 0-37425	0-3740	0-3715	0-00125 0-000	
1/6	Assembly of link F.210461 with fork end S.P.7.E using shoulder bolt Std.323.42	Shoulder bolt	0-250 0-247	0-2465	0-2445	Bolt and link 0-0035 0-0005	Renew shoulder bolt Std.323.42 and/or link F.210461. Wear in fork end is unlikely
		Link	0-2505 0-2495	0-2515	0-255	Bolt and fork end	
		Fork end	0-255 0-251	0-2555	0-259	0-008 0-001	

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SCHEDULE OF TOLERANCE LIMITS FOR HOOD LOCKING AND JETTISON GEAR

Part and Description	Max. Dimension (in.)	Min. Dimension (in.)	Assembly	Clearance (in.)	Part and Description
Assembly of bearing block E.12000 with shaft A.12000 using bush F.12000 and bush F.12000	0.0002	0.0002	0.0002	0.0002	LINK
Bush (outward)	0.0002	0.0002	0.0002	0.0002	BOLT
Bush (inward)	0.0002	0.0002	0.0002	0.0002	BEARING
Shaft (outward)	0.0002	0.0002	0.0002	0.0002	SPH. BUSH
Shaft (inward)	0.0002	0.0002	0.0002	0.0002	

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Assembly of ball crank A.12000 with link end F.12000 using bearing F.12000 and bolt A.12000	0.0002	0.0002	0.0002	0.0002	LINK
Bolt	0.0002	0.0002	0.0002	0.0002	SHOULDER BOLT
Bearing OVD	0.0002	0.0002	0.0002	0.0002	FORK END
Bearing V/O and Fork end	0.0002	0.0002	0.0002	0.0002	
Bolt and link end	0.0002	0.0002	0.0002	0.0002	
Bolt and ball crank F.12000	0.0002	0.0002	0.0002	0.0002	
Bolt and fork end F.12000	0.0002	0.0002	0.0002	0.0002	

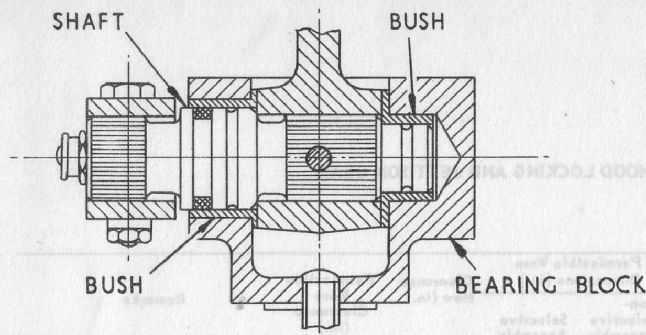
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DETAILS FOR HOOD LOCKING AND JETTISON GEAR

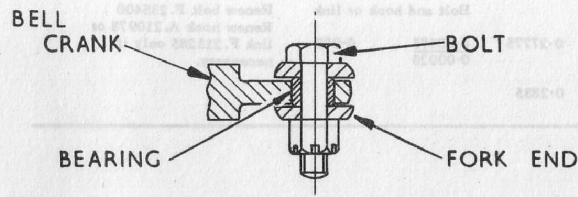
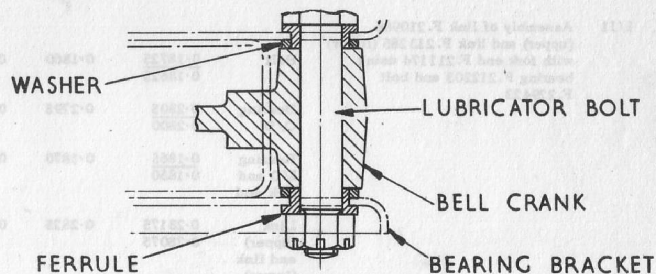
SCHEDULE OF WEAR LIMITS FOR HOOD LOCKING AND JETTISON GEAR

Ref.No. on Diagram	Part and Description	Dimension New (in.)	Permissible Worn Dimensions (in.)		Clearance New (in.)	Permissible Worn Clearance (in.)	Remarks
			Non- Selective Assembly	Selective Assembly			
1/7	Assembly of bearing block B.209858 with shaft A.209860 using bush F.209862 and bush F.209863	Bushes (outboard)	0-5005 0-4995	0-5010	0-50225	Shaft and bush (outboard) 0-00175 0-00025	Renew bush F.209862 and bush F.209863 together. Renew shaft A.209860 only if necessary
		Bushes (inboard)	0-75075 0-7495	0-7515	0-7530	Shaft and bush (inboard)	
		Shaft (outboard)	0-49925 0-49875	0-4980	0-4965	0-00275 0-0005	
		Shaft (inboard)	0-749 0-748	0-7475	0-7455	0-004	
1/8	Assembly of bell crank A.212037 with fork end F.221138 using bearing F.212202 and bolt A.30.4.C	Bolt	0-18725 0-18675	0-1865	0-1850	Bolt and bearing -0-00025 -0-00225	Renew bolt A.30.4.C and/or bearing F.212202. Renew bell crank A.212037 only if necessary. Wear in fork end, bolt and inside diameter of bush is unlikely
		Bearing O/D	0-2805 0-2800	0-2795	0-27775	Bearing and bell crank	
1/9	Assembly of bell crank A.212037 with fork end F.212200 using bearing F.212202 and bolt A.30.4.C	Bearing I/D. and Fork end	0-1865 0-1850	0-1865	0-18725	0-00175 0-00025	0-003
		Bell Crank	0-28175 0-28075	0-2825	0-2835	Bolt and fork end -0-00025 -0-00225	
1/10	Assembly of bell crank A.212037 with bearing brackets. Using lubricating bolt F.212223 and ferrule Std.1357-8	Bolt	0-3120 0-3115	0-3110	0-3090	Bolt and bell crank 0-0015 0-000	Renew lubricator bolt F.212223. Renew bell crank A.212037 only if necessary. Wear in ferrules is unlikely
		Bell crank and ferrule	0-3130 0-3120	0-3140	0-3150	Bolt and ferrule 0-0015 0-000	

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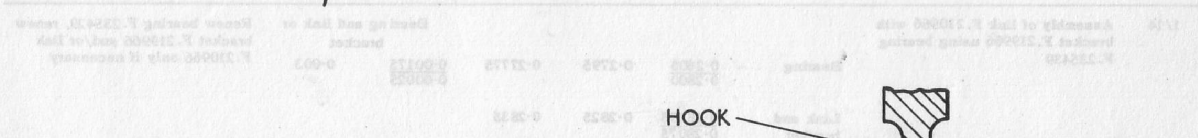
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DETAILS FOR HOOD LOCKING AND JETTISON GEAR

SCHEDULE OF WEAR LIMITS FOR HOOD LOCKING AND JETTISON GEAR

Ref.No. on Diagram	Part and Description	Dimension New (in.)	Permissible Worn Dimensions (in)		Clearance New (in.)	Permissible Worn Clearance (in.)	Remarks		
			Non- Selective Assembly	Selective Assembly					
1/11	Assembly of link F.210966 (upper) and link F.213285 (lower) with fork end F.211174 using bearing F.212203 and bolt F.229423	Bolt	0-18725 0-18625	0-1860	0-1840	0-00025 -0-00225	0-001	Renew bolt F.229423 and/or bearing F.212203. Renew link F.210966 (upper) or link F.213285 (lower) only if necessary. Wear on fork end is unlikely	
		Bearing O/D	0-2805 0-2800	0-2795	0-27775	Bearing and link (upper and lower)			
		Bearing I/D and fork end	0-1865 0-1850	0-1870	0-18825	0-00175 0-00025	0-003		
		Link (upper) and link (lower)	0-28175 0-28075	0-2825	0-2835	Bolt and fork end 0-00025 -0-00225			0-001
		1/12	Assembly of hook A.210978 with link F.213285 using bolt F.235400	Bolt	0-2805 0-2800	0-2795	0-27775		0-00175 0-00025
	Hook and link	0-28175 0-28075	0-2825	0-2835					

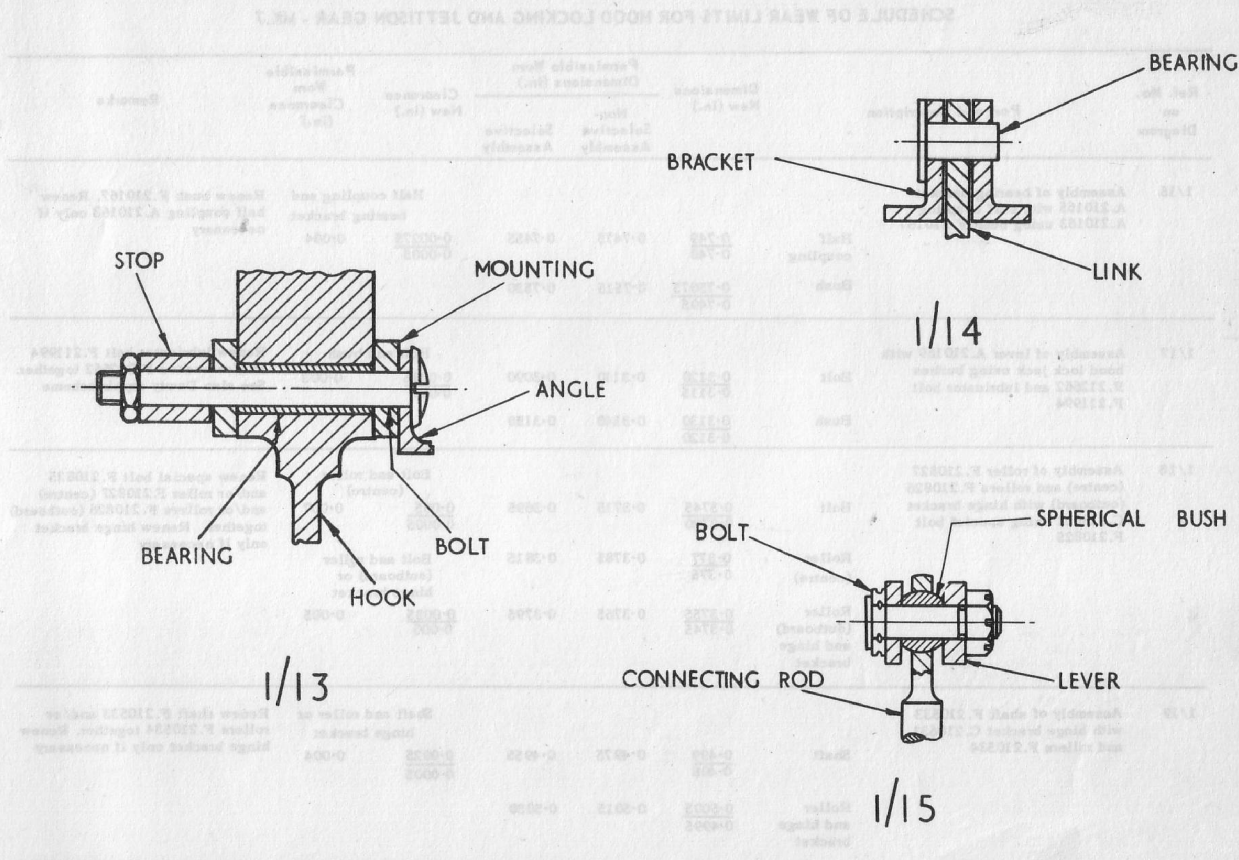
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SCHEDULE OF WEAR LIMITS FOR HOOD LOCKING AND JETTISON GEAR

Ref.No. on Diagram	Part and Description	Dimension New (in.)	Permissible Worn Dimensions (in.)		Clearance New (in.)	Permissible Worn Clearance (in.)	Remarks
			Non- Selective Assembly	Selective Assembly			
1/13	Assembly of hook A.210978 and mounting angle A.229403 with hood lock mounting A.219534, using bearing F.211016, stop F.231519 and bolt Std.1929-190-E	Bearing I/D, mounting angle and lock mounting	$\frac{0.2505}{0.2495}$	0.2515	0.2525	$\frac{0.0015}{0.000}$ 0.003	Renew bolt Std.1929-190-E and/or bearing F.211016. Renew hook A.210978 or stop F.231519 only if necessary. Wear in lock mounting and mounting angle is unlikely
		Bearing O/D	$\frac{0.3745}{0.3720}$	0.3715	0.3695	Bolt and stop	
		Bolt (port)	$\frac{0.2495}{0.2490}$	0.2485	0.2470	$\frac{0.0015}{0.0005}$ 0.003	
		Stop	$\frac{0.2505}{0.2500}$	0.2515	0.2525	Bearing and hook	
		Hook	$\frac{0.3755}{0.3745}$	0.3765	0.3795	$\frac{0.0035}{0.000}$ 0.005	
1/14	Assembly of link F.210966 with bracket F.219966 using bearing F.235439	Bearing	$\frac{0.2805}{0.2800}$	0.2795	0.27775	$\frac{0.00175}{0.00025}$ 0.003	Renew bearing F.235429, renew bracket F.219966 and/or link F.210966 only if necessary
		Link and bracket	$\frac{0.28175}{0.28075}$	0.2825	0.2835		
1/15	Assembly of connecting rod F.210402 with lever A.210269 (starboard) or lever A.210270 (port) using spherical bush F.210067 and bolt F.210333	Bolt	$\frac{0.2495}{0.2490}$	0.2485	0.2465	$\frac{0.0015}{0.000}$ 0.003	Renew bolt F.210333 and/or spherical bush F.210067. Renew connecting rod F.210402 only if necessary. Wear in lever is unlikely
		Connecting rod	$\frac{0.4530}{0.4500}$	0.4535	0.4550	Bush and connecting rod	
		Spherical bush I/D	$\frac{0.2505}{0.2495}$	0.2515	0.2525	$\frac{0.005}{0.001}$ 0.006	
		Spherical bush O/D	$\frac{0.4490}{0.4480}$	0.4475	0.4440	Bolt and lever	
		Lever	$\frac{0.2520}{0.2500}$	0.2525	0.2535	$\frac{0.003}{0.0005}$ 0.004	

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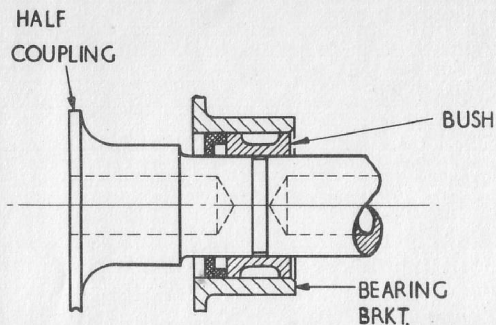


DETAILS FOR HOOD LOCKING AND JETTISON GEAR

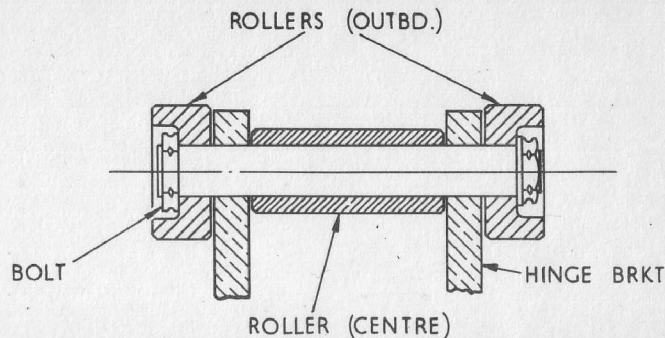
SCHEDULE OF WEAR LIMITS FOR HOOD LOCKING AND JETTISON GEAR - MK.7

Ref. No. on Diagram	Part and Description	Dimensions New (in.)	Permissible Worn Dimensions (in.)		Clearance New (in.)	Permissible Worn Clearance (in.)	Remarks
			Non- Selective Assembly	Selective Assembly			
1/16	Assembly of bearing bracket A.210165 with half coupling A.210163 using bush F.210167	Half coupling	<u>0.749</u> 0.748	0.7475	0.7455	Half coupling and bearing bracket <u>0.00275</u> 0.0005	Renew bush F.210167. Renew half coupling A.210163 only if necessary
		Bush	<u>0.75075</u> 0.7495	0.7515	0.7530	0.004	
1/17	Assembly of lever A.210169 with hood lock jack using bushes F.212662 and lubricator bolt F.211994	Bolt	<u>0.3120</u> 0.3115	0.3110	0.3090	Bolt and bush <u>0.0015</u> 0.000	Renew lubricator bolt F.211994 and/or bushes F.212662 together. See also Dowty repair scheme
		Bush	<u>0.3130</u> 0.3120	0.3140	0.3150	0.003	
1/18	Assembly of roller F.210827 (centre) and rollers F.210826 (outboard) with hinge bracket C.218631 using special bolt F.210825	Bolt	<u>0.3745</u> 0.3720	0.3715	0.3695	Bolt and roller (centre) <u>0.005</u> 0.0005	Renew special bolt F.210825 and/or roller F.210827 (centre) and/or rollers F.210826 (outboard) together. Renew hinge bracket only if necessary
		Roller (centre)	<u>0.377</u> 0.375	0.3785	0.3815	Bolt and roller (outboard) or hinge bracket <u>0.0035</u> 0.000	
		Roller (outboard) and hinge bracket	<u>0.3755</u> 0.3745	0.3765	0.3795	0.005	
1/19	Assembly of shaft F.210533 with hinge bracket C.218631 and rollers F.210534	Shaft	<u>0.499</u> 0.498	0.4975	0.4955	Shaft and roller or hinge bracket <u>0.0025</u> 0.0005	Renew shaft F.210533 and/or rollers F.210534 together. Renew hinge bracket only if necessary
		Roller and hinge bracket	<u>0.5005</u> 0.4995	0.5015	0.5030	0.004	

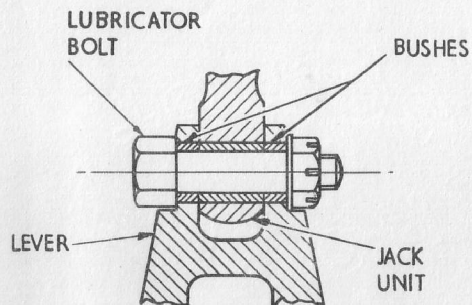
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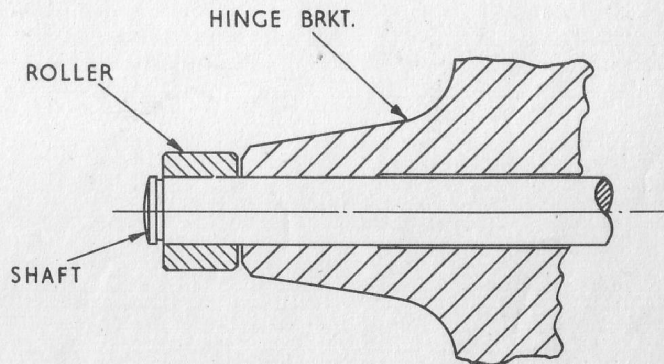
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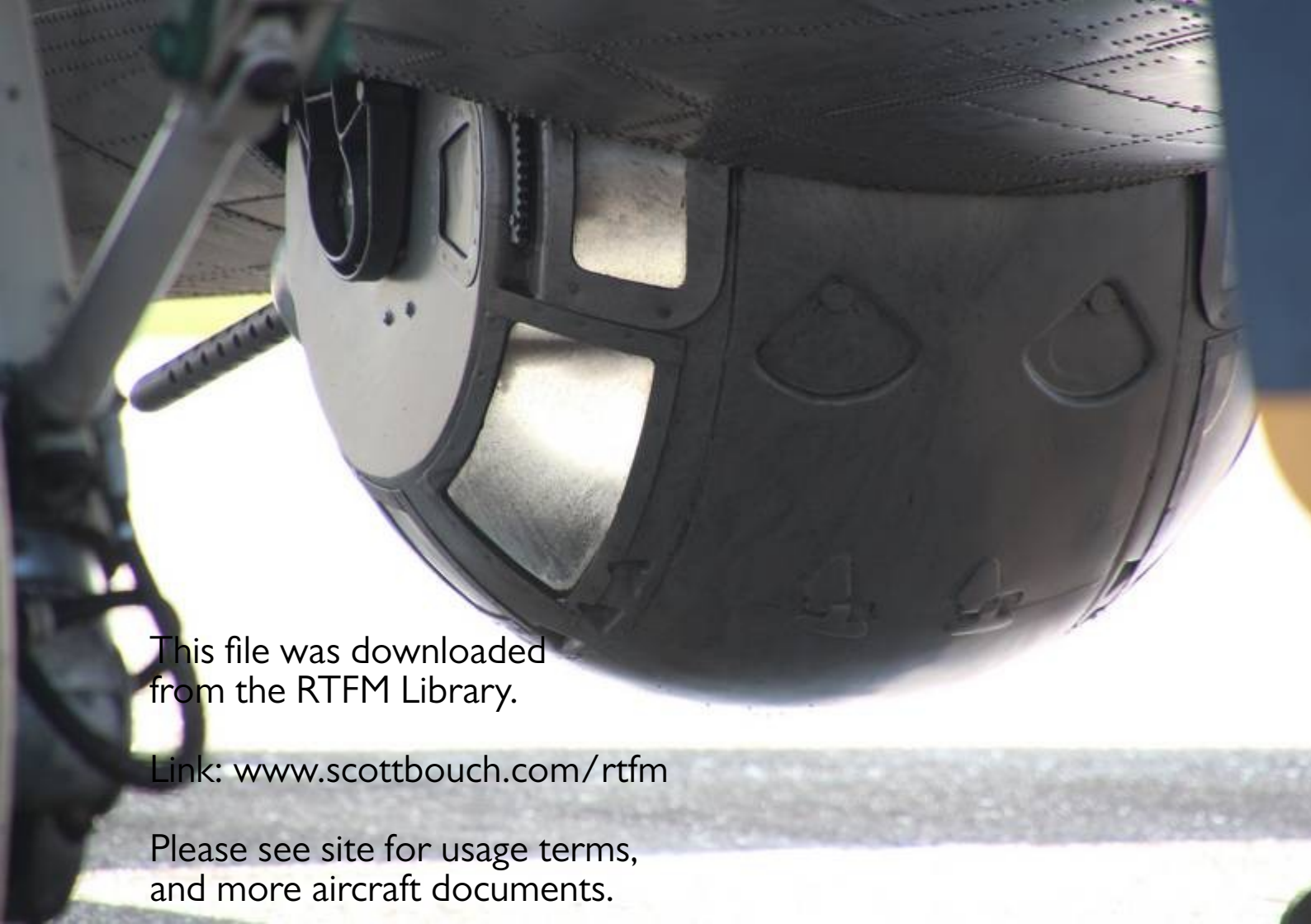


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DETAILS FOR HOOD LOCKING AND JETTISON GEAR



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