

Condition Inspection Sheet For Rotorway Talon

Section1: Airframe					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp tubular airframe for cracks	E10-1001	1-1		
I	Insp Ldg legs for cracks and distortion	E11-9010	1-2		
I	Insp Engine Mount Rubber Ring for deterioration	E13-3121	1-3		
I	Insp Both Skids for Excessive Wear and Bolt Hole Elongation	E11-3130/3131	1-4		
T	Check Torque on Ldg Hardware	E00-****	Torque		
Section2: Tail Boom					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp Tail Boom for Dents, Loose Rivets & Bolts, Cracks, Corrosion	E09-9000	2-1		
I	Insp Vertical Fin for Cracks, Loose Rivets	E09-9010	2-2		
I	Insp Horizontal Stabilizer for Cracks, Loose Rivets, Loose Mounting	E09-9021			
I	Insp Vertical Fin Bracket for Cracks, Looseness and Distortion	E09-3252	2-2		
T	Check Attaching Hardware Torques and Correct Bolt Lengths	E00-****	Torque		
Section3: Body					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp Windshield for Cracks, Scratches and Clarity	E32-7231	3-2		
I	Insp Both Eyebrow Windows for Cracks, Scratches and Clarity	E32-7210/7220	3-2		
I	Insp Seat Cushions for Tears, Stains and General Condition	E32-1301	3-3		
I	Insp Cyclic Boots for Condition and Security	E32-1111			
I	Insp Instrument Pod and Floorpan for Damage	E32-3131			
I	Insp Seat Bulkhead for Damage and Security	E32-6111			
I	Insp Bottom Tub for General Condition, Antenna, Lighting	E32-7102			
I	Insp All Fuselage Panels for General Condition and Missing Screws	E32-****			
I	Insp Doghouse for Condition and Security	E32-7152			
I	Insp Overhead Panel for Condition and Security	E32-7180			
L	Lube Fuel Push/Pull Cable	E54-4010	Oil(20W)		
Section4: Tail Rotor Drive					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Check Front Gearbox Oil	E18-3000	4-1		
I	Check Rear Gearbox Oil	E18-3010	4-1		

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I	Drive Shaft Condition, Forward and Rear Couplings	E18-4100			
G	Grease Forward and Rear Couplings, 3 shots		4-3		
I	Universal Joint	E18-4610			
I	Tail Rotor Shaft Bearings	E18-4660			
I	Front Gearbox Pulley	E18-4500			
I	Tail Rotor Drive Pulley on Secondary				
I	Tailrotor Belt, Condition and Tension: 7# @ 1/2"	E18-4520	4-4		
I	Tail Rotor Belt Tensioner Spring	E18-5120			
I	Tail Rotor Belt Tensioner Idler Pulley	E18-5300	4-5		
I	Tail Rotor Belt Tensioner Idler Pulley Bearing	E18-1131	4-6		
Section5: Tail Rotor					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp TR Pivot Bearings ROC or at 100HRS	E17-1260	5-1		
I&G	Insp Slider Assembly for Damage, Corrosion, Wear (One Shot)	E17-6126	5-5		
I&L	Insp all Rod Ends for Corrosion and Movement (Spray Silicone)				
I	Insp Pitch Horns for Cracks, Corrosion, Looseness	E17-5110			
I	Insp Slider Rails for Alignment, Wear, Corrosion	E17-1360			
I&G	Insp Tail Rotor Barrel (One Shot)	E17-6100	5-4		
I	Verify Both Sliders are Aligned Evenly				
I	Insp Slider/Actuator Arm Clevis for Freedom	E17-9010			
I	Insp TR Blades for Damage, Corrosion, Cleanliness	E17-6000	5-2		
I	Insp for Loose, Improper or Missing Hardware	E00-****			
Section6: Control Assemblies					
Req	Task	Part Number	Ser Ref	Comp	Comments
Anti-Torque System					
I	Insp Cross Shaft Bushings	E16-6131	6-1		
I	Scissor Mount Bushings	E16-6130	6-2		
I&L	Insp all Rod Ends (Spray Silicone)		6-3/4		
I	Insp Teleflex Cable for Travel and Freedom	E16-1212	6-5		
Cyclic System					
I	Insp Cross Shaft Bushings	E14-6131	6-6		

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I&L	Insp all Rod Ends (Spray Silicone)		6-8		
I	Insp Cyclic Teleflex Cables for Security and Condition	E14-1211/1221	6-9		
Req	Collective System	Part Number	Ser Ref	Comp	Comments
I	Insp Cross Shaft Bushings	E15-6131	6-10		
I&L	Insp all Rod Ends (Spray Silicone)	E15-1230	6-11		
I	Insp Removable Center Collective for attachment and Binding				
	Throttle System				
I	Insp Throttle Shaft for Binding	E15-3150	6-12		
I	Insp B and H Arms for Condition and Security		6-12/13		
I&L	Insp all Rod Ends (Spray Silicone)	E15-1150	6-15		
I	Insp Throttle Cable for Binding, Correlation, Chaffing	E24-7531			
	Section7: Oil System				
Req	Task	Part Number	Ser Ref	Comp	Comments
L	Drain Oil Sump and Refill with 20/50 (5Qts)	E28-7150			
I	Oil Sump/Heat Exchanger for Mounting, Leaks, Hose Security	E28-7150	7-1		
I	Valve Cover Drain Hoses for Leaks and Security	E28-1192	7-2		
I	Main Oil Drain Hose for Leaks and Security	E28-1230	7-2		
L	Replace Oil Filter with PH3600 or Equivalent	E28-1110			
I	Insp all Oil Supply and Return Hoses for Leaks, Chaffing and Security		7-3		
	Section8: Cooling System				
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp Radiator for Leaks, Cleanliness (ROC)	E30-1161	8-1		
I	Insp Radiator Cap for Gasket Condition and Proper Sealing	E34-1180			
I	Insp all Water Hoses for Leaks, Chaffing, Deterioration and Shielding				
I	Water Pump for Leaks, Corrosion, Adjustment and Security	E29-1001	8-2		
I	Water Pump/Alternator Belt for Tension and Alignment	E29-1131			
I	Verify Thermostat Opening Temp During Runup (ROC)	E34-5000	8-3		
I	Verify Water Level in Header Tank				
	Section9: Engine and Exhaust System				

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Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp for Leaking Exhaust Gaskets Re-Torque Bolts	E24-9710	9-1		
I	Insp Heat Wrap for Wear, Cleanliness and Security	E24-9840			
I	Insp Muffler/Tailpipe for Excessive Corrosion, Cracks, Security	E24-9011			
I	Insp Header Weldments for Cracks and Security	E24-9001			
I	Insp Springs, Exhaust Knuckle for Looseness and Security	E24-1251			
I	Insp Heat Shields for Attachment and Condition	E24-9831			
I	Insp Torque Link for Attachment and Security	E27-9000	9-2		
I	Insp Spark Plug Wires for Chaffing, Security and Condition	E24-9950			
I	Remove, Clean, Insp, Gap and Re-Install All Spark Plugs	E24-9740			
I	Remove, Clean, Insp and Re-Charge K&N Air Cleaner	E24-7560			
G	Grease Main Drive Pulley Bearing (3 Shots @25 Hrs)	A24-1601	9-3		
A	Adjust Valve Lash IAW Engine Manual				
I	Compression check				
Section10: Drive Train					
Req	Task	Part Number	Ser Ref	Comp	Comments
Primary					
I	Insp Main Sprocket for Wear, Missing Cogs	E49-6172	10-1		
I	Insp Main Sprocket Hub for Broken Safety Wire, Loose Bolts	E49-7010	10-1A		
I&T	Insp Upper Engine Clevis for Broken Ears, Adjustment, Loose Bolts	E24-5110	Torque		
I	Insp Small Sprocket for Proper Alignment and Safety Wire				
Secondary					
I&G	Insp Upper Secondary Brg, Temp Dot and Thermistor (1 Shot@50Hrs)	E23-5001	10-2		
I	Insp Main Drive Belts for Wear, Cleanliness, Tension and Alignment	E23-1210	10-4		
I	Insp Lower Secondary Bearing and Mount for Security, Cleanliness	E23-2552	10-3		
I	Insp Fan for Condition and Security	E23-7141	10-5		
Cog Belt					
I	Insp Belt for Wear and Tension				
I	Insp Belt Tensioner for Proper Contact and Adjustment				
Req	Clutch Idler Assembly	Part Number	Ser Ref	Comp	Comments

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I	Insp Idler Pulley Assembly for Alignment, Looseness	E27-6100	10-10		
I	Insp Rod Ends (Spray Silicone)				
I	Insp Idler Spring for Popped Rivets and Tension	E27-1210			
I	Check for Proper Engagement Tension				
I	Check Engagement Rod for Binding and Wear Through Cabin Bulkhead				
Section11: Fuel System					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp Fuel Caps Verify Vent is Clear	E25-2101	11-1		
I	Insp all Fuel Lines for Leaks, Chaffing, Routing and Security		11-2		
I	Insp Fuel Valve Cable for Binding, Chaffing, Routing	E25-4570			
I	Insp Fuel Pumps for Leaks, Security, Correct Pressure, Electrical Connections	E25-4600			
I	Remove fuel strainer and inspect for debris	E25-4660			
I	Replace Fuel Filter and Insp Old Filter for Contamination	E25-4630	11-3		
I	Insp Fuel Pressure Regulator for Leaks and Security	E25-4640			
I	Insp Fuel Shutoff Valve/Filter Operation, Check for Leaks	E25-4660	11-4		
I	Insp Both Fuel Tanks, Check for Proper Venting and Leaks	E25-6102/6112			
I	Verify Fuel Gauge Calibration and Operation	E25-6130/6122	11-5		
I&R	Verify Low Point Drain Operation				
Section12: Fan Drive					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Check Fan Drive Belt Tensions and Adjust as Necessary	E31-1130/1141	12-2		
	Insp Drive Shaft and Pulleys for Alignment, Corrosion, Security	E31-5100/6100			
Section13: Main Rotor Blades					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp Retention Straps and Check Torques (14 Ft/Lbs)	E20-3000	Torque		
I	Insp Both Blades for Cleanliness, Damage, Corrosion, Deformation	E20-9010/9011	13-1		
I	Insp Both Elastomeric Thrust Bearings for Delamination, Cleanliness, Condition	E20-1400/1401	13-4		
I	Insp Both Main Attach Bolts & Nuts for Excessive Wear, Deformation, Condition	E00-2800/3800	13-2/3		
I	Insp Tip Weights for Security	E20-3170	13-5		
I	Clean and Insp Aligner & Thrust Blocks for Damaged or Loose Bearings	E20-600	13-6		

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Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp Pitch Horns for Loose Hardware, Corrosion, Damage	E20-6190			
I	Check torque on pitch horns (AN3: 32 - 50 in-lb, AN4: 50 -70 in-lb)		Torque		
I	Grease Aligner Bearings (4ea)	E20-1220	13-6		
Section14: Electrical System					
Req	Task	Part Number	Ser Ref	Comp	Comments
I&T	Insp Battery for Charge, Terminal Corrosion, Tight Connections, Water Level	E24-9760	14-1		
I	Insp Engine ECUs for Cleanliness, Security, Connections	E35-4011	14-2		
I	Insp Ignition Modules for Cleanliness, Security, Connections	E35-4030	14-2		
I	Insp Man/Baro Pressure Sensors for Security and Connections	E35-4060	14-2		
I	Insp 9 Pin Monitor-ECU Cable for Security and Connection	E35-4080			
I	Verify that all Toggle Switches Function Properly	E35-8240	14-5		
I	Insp all Ground Cables for Cleanliness, Tightness, Routing		14-6		
I	Insp Starter Relay Connections for Cleanliness, Security	E35-8520	14-7		
I	Verify Starter Button Operation	E35-8540			
I	Verify Panel LED Lights Function Properly	E35-8596			
I	Insp Airframe Wiring Harness for Routing, Chaffing, Secure Connections	E35-9002	14-8		
I	Insp Overhead Wiring Harness for Routing, Chaffing, Secure Connections	E35-9013	14-8		
I	Insp Instrument Wiring Harness for Routing, Chaffing, Secure Connections	E35-9022	14-8		
I	Insp FADEC Wiring Harness for Routing, Chaffing, Secure Connections	E35-9031	14-3		
I	Verify Voltage Regulator Operates Properly on Run Up (13.5-15V)	E42-2021	14-9		
I	Insp Alternator Assembly for Belt Tension, Mount Security, Output (13.5-15V)	E42-1002	14-10		
Section15: Instrumentation					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Verify Hobbs is Operational Note the Hours for Log Entry	E36-1100			
I	Verify Water Temp Gauge Operates	E36-1120	15-1		
I	Verify Oil Temp Gauge Operates	E36-1160	15-1		
I	Verify Oil Pressure Gauge Operates	E36-3110			
I	Insp Oil Pressure Sender is Secure, Connected, Not Leaking	E36-3120			
I	Verify Voltmeter Operates	E36-1220			
I	Verify Dual Tach Operation and Calibration	E36-3002			

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Req	Task	Part Number	Ser Ref	Comp	Comments
I	Verify Altimeter Operates	E36-4010			
I	Verify VSI Operates	E36-4020			
I	Verify Airspeed Operates Check Pitot Tube for Distortion, Mount Damage	E36-4030			
I	Verify Compass Accuracy	E36-4040			
I	Verify Manifold Pressure Gauge Operates and Dry	E36-4050			
I	Verify Full Range Tach Operates	E36-4111			
I	Verify Fuel Pressure Gauge Operates	E36-3050			
i	Verify Fuel Guage Operates				
I	Insp Fuel Pressure Sender is Secure, Connected, Not Leaking	E25-4940			
I	Verify Secondary Temp Gauge Operates	E36-1230			
Section16: Ground Handling Wheels					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Check Tires for Wear and Inflation	E37-4090	16-1		
I	Check Wheel Alignment/Track		16-2		
I	Check Wheel Bearings (ROC)				
Section17: Ballast Weight					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp all Ballast Weldments for Cracks	E22-9000/9010	17-1		
I	Verify Ballast Weight Pin	E22-9030	17-1		
I	Insp Safety Clip Condition (ROC)	E22-4120			
Section18: Paint					
Req	Task	Part Number	Ser Ref	Comp	Comments
I	Insp Overall Paint for Damage, Blistering, Scratches, Blemishes		18-1		
Section19: Rotor Hub					
Req	Task	Part Number	Ser Ref	Comp	Comments
	Rotor Hub Assembly				
I	Insp Rotor Hub Plate for Corrosion, Nicks	E49-6141	19-1		
I	Insp Teeter Blocks & Bearings for Circlips, Corrosion, Looseness (4 Shots@25Hrs)	E49-5100	19-2		
I	Torque Teeter Block Bolts (24 Ft/Lbs)	E00-2607	Torque		

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Req	Task	Part Number	Ser Ref	Comp	Comments
I	Verify Main Drive Pin Circlip Installed	E49-6301	19-1/5		
I	Insp all Rod Ends (Spray Silicone)				
	Swash Plate Assembly				
I&G	Insp Non-Rotating Swash Plate for Damage, Corrosion	E49-3610			
T	Insp Rotating Swash Plate for Freedom of Movement, Corrosion	E49-3510			
I	Insp Slider Ball Adjustment Collar	E49-3230	19-12		
L	Insp Cyclic Teleflex Cable Mount for Security, Bias	E49-4010			
I	Insp Collective Slider Ball, Clean and Re-Grease Ball & Shaft	E49-3210	19-13		
I	Insp Swash Plate Scissor for Bushing Wear & Looseness (ROC)	E49-4610			
I	Insp Collective Actuator Fork for Bushing Wear & Looseness (ROC)	E49-4210			
I	Insp Collective Scissor for Bushing Wear & Looseness (ROC)	E49-4310			
I	Insp Collective Scissor Mount Bracket for Cracks at the 90deg Bends	E49-1380	19-15		
I&G	Insp Collective Tension Spring for Corrosion, Tension, Security	E49-1430			
I	Insp all Rod Ends (Spray Silicone)				
I	Lower Dust Boot Clean Shaft, Re-Grease, Re-Install Dust Boot	E49-1510			
I	Insp Rubber Shaft Protector (ROC)	E49-1500			
	Main Rotor Shaft Assembly				
I	Insp Main Thrust Bearing for Excessive Play	E49-1220	19-16		
I&L	Insp Main Shaft Safety Spacer, Breeze Clamps, Security	E49-1260			
I&G	Insp Lower Shaft Bearing Assembly for Security	E49-9100			