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TABLE 1 SCHEDULED INSPECTIONS

Consult latest revision of listed publications for specific applicability.

	First 10 hours	First 25 hours	First 100 hours	Every 50 hours	Every 100 hours	Every 300 hours	Every 500 hours	Every 2200/2400 hours	Every 4 months	Every 12 months	Every 24 months	Every 3 years	Every 4 years	Every 12 years	Every 15 years
Perform inspection per Lycoming Operator's Manual.*	•	•		•	•	•									
Perform Lycoming SI 1129 <i>Methods of Checking DC Alternator and Generator Belt Tension.</i>		•			•										
Perform Lycoming SI 1191 <i>Cylinder Compression.</i>					•										
Perform Lycoming SI 1080 <i>Maintenance Items for Special Attention.</i>				•	•										
Perform Lycoming SB 301* <i>Maintenance Procedures and Service Limitations for Valves.</i>			•			•									
Perform Lycoming SB 366, as applicable <i>Carburetor Throttle Body Screw Inspection.</i>				•											
Perform Lycoming SB 342 (IO-540 Only) <i>Fuel Line (Stainless Steel Tube Assy.) and Support Clamp Inspection & Installation. Reference AD 2015-19-07.</i>					•										
Perform Lycoming SB 388* (also applies to replacement cylinders) <i>Procedure to Determine Exhaust Valve and Guide Condition.</i>			•			•									
Perform Lycoming SB 480 <i>I. Oil & Filter Change & Screen Cleaning / II. Oil Filter/Screen Content Inspection.</i>		•		•					•						
Perform CMI SB 643, as applicable <i>Maintenance Intervals for All CMI/TCM/Bendix Magnetos & Related Equipment.</i>					•		•						•	•	
Perform CMI SB 658 <i>Distributor Gear Maintenance.</i>					•		•						•		
Perform CMI SB 663 <i>Two-Wire Magneto Tach. Breaker Contact (Points) Assy. P/N 10-400507.</i>							•						•		
Perform CMI SB 670 <i>Replacement and maintenance of Magneto Distributor Block.</i>							•						•		
Perform 100-hour/annual inspection per § 2.400.					•					•					
Perform main rotor blade tip maintenance per § 9.150.					•					•					
Lubricate C181-3 bearing per § 1.140.						•						•			
Replace hydraulic filter per § 1.170.						•									
Drain and flush gearboxes per § 1.120 & 1.130.							•								
Clean gearbox chip detectors per § 1.115.							•			•					
Perform clutch assembly lubricant inspection & servicing per § 7.210.							•								
Verify magneto drive cushion pliability.							•						•		
Perform 2200-hour inspection per § 2.700.								•							
Inspect emergency locator transmitter (ELT) per 14 CFR § 91.207.										•					
Perform pop-out float leak check per § 5.630.										•					
Test and inspect transponder per 14 CFR § 91.413.											•				
Perform pop-out float inflation check per § 5.640.												•			
Perform pop-out float pressure cylinder hydrostatic test.*												•			
Perform 12-year inspection per § 2.600.**														•	
Pop-out float pressure cylinder maximum life.															•

* Shorter interval than published on referenced document.

** 12-year inspection is only required for helicopters that have accumulated 12 years in service and less than 2200 hours time in service since new, since last 2200-hour inspection, or since last 12-year inspection.

1.330 Special Torques (continued)

AREA	(QUANTITY) FASTENER	TORQUE
FUEL SYSTEM (continued)	(1) MS21900D6 adapter or D319-4 fitting, mechanical fuel pump (IO-540)	150 in.-lb
	(1) MS27769D2 plug, gascolator	60 in.-lb
HYDRAULIC HOSES & FITTINGS	(2) B330-19 palnuts	30 in.-lb
	(3) B330-21 palnuts	45 in.-lb
	(1) B330-25 palnuts	75 in.-lb
	(1) AN820-4 cap, AN834-4D tee at hydraulic pump	60 in.-lb
	(1) AN820-6 cap, AN834-6D tee at hydraulic pump	120 in.-lb
	(2) D452-3 nuts	60 in.-lb
	(3) D452-4 nuts	90 in.-lb
	(1) D452-6 nut	150 in.-lb
	(1) D205-3, (1) -12, (1) -14 hose assemblies & (2) AN815-3D unions	95–105 in.-lb
	(1) D205-7, (1) -11, (2) -16 hose assemblies & (3) AN815-4D unions	135–150 in.-lb
	(1) D205-15 hose assembly & (1) AN815-6D union	190–210 in.-lb
HYDRAULIC PUMP	Hydraulic pump-to-gearbox mounting nuts (see MAIN ROTOR GEARBOX)	
HYDRAULIC RESERVOIR	(1) B563-3 sight gage	150 in.-lb
	(1) D487-3 vent assembly	100 in.-lb
	(1) D516-1 cap, filter	150 in.-lb
	(4) NAS1352-4-8P screw, reservoir-to-frame	80 in.-lb
HYDRAULIC SERVOS	MS27039C0806 screw attaching D200-2 scissors	25 in.-lb
	B330-6 palnut on above screw	5–10 in.-lb
LANDING GEAR	(8) B227-28 clamps, strut fairings	15 in.-lb
	(8) HTM-200 clamps, strut fairings	100 in.-lb wet w/ B270-10
	(4) NAS6604-46 bolts, ground handling wheel supports	70 in.-lb
	(4) NAS6607P20 bolts, gear attach (earlier ships) Note: NAS6607-20 bolts are standard torque per § 1.320.	66 ft-lb
MAIN ROTOR BLADE	(2) A722-4 screws, tip balance weight	40 in.-lb wet w/ A257-9
	(2) B289-2 bolts, self-sealing	70 in.-lb
	(1) C165-1 clamp, inner	Tighten to 2.850 ± 0.005 inch outside diameter (OD)
	(2) NAS1351N3-12P screws, tip cover-to-blade	40 in.-lb wet w/ A257-9

1.330 Special Torques (continued)

AREA	(QUANTITY) FASTENER	TORQUE
MAIN ROTOR GEARBOX	(4) A650-4 fittings, gearbox mounting or (4) D210-10 nuts	50 ft-lb wet w/ A257-9, torqued from bolt head or nut
	(1) B563-2 sight gage	150 in.-lb
	(1) B566-1 chip detector housing	150 in.-lb
	chip detector (threaded type)	Approximately 75 in.-lb
	(4) D210-4 nuts, hydraulic pump-to-gearbox (or cover)	40 in.-lb
	(1) AN320-8 nut, gearbox pinion (retains C908 yoke)	35–45 ft-lb
	(1) AN814-8D filler plug	150 in.-lb
	(6) NAS1352-4H screws, end cover (safety wire is required)	120 in.-lb
	(6) NAS1352-4 screws, end cover (safety wire <u>not</u> required)	140 in.-lb
	(6) NAS1352-4H16P screws, sump-to-housing (safety wire is required)	120 in.-lb at head
	(6) NAS1352-4-16 screws, sump-to-housing (safety wire <u>not</u> required)	140 in.-lb at head
MAIN ROTOR HUB	(1) NAS634-105 bolt, teeter hinge and (2) NAS634-105 bolts, coning hinges	New bolt: 0.021–0.022 inch elongation, wet w/ A257-9 Used bolt: 0.020–0.022 inch elongation, wet w/ A257-9, and cotter pin holes must align
PITCH LINKS	21FKF-813 self-locking jam nut, main rotor pitch link	300 in.-lb
POWERPLANT	(4) bolts, airbox-to-carburetor	30 in.-lb
	(2) bolts, engine-to-ground strap	96 in.-lb
	(6) bolts, D730-1 manifold weldment-to-engine	96 in.-lb
	(4) engine hardware, securing C592-3 mount assembly	204 in.-lb
	(6) engine nuts, securing C357-1 clips	96 in.-lb
	(1) hardware, securing alternator to B200-3 or D728-1 arm	204 in.-lb
	(4) nuts, carburetor-to-engine (O-540)	96 in.-lb initial, 204 in.-lb final; torque in crisscross pattern
	(1) nut, A457-9 tee	140 in.-lb
	(1) nut, A462 fitting on mixture control arm	27 in.-lb
	(12) spark plugs	420 in.-lb wet w/ A257-16
	(1) A058-10 probe	36–48 in.-lb
	(1) A723-15 line assembly, nuts	40 ft-lb

2.410 Inspection Procedures and Checklist (continued)**9. Tail Rotor Gearbox and Tail Rotor**

Input Shaft Yoke: Inspect flange and weld for cracks and corrosion. _____

Input Seal: Inspect for leakage. _____

Gearbox: Inspect general condition. Look for leakage. Check oil quantity and cleanliness through sight gage and adjust or flush as required. Check gearbox-to-tailcone mounting security. Inspect output shaft for nicks, scratches and corrosion. Check safety wire on applicable gearbox bolts. Check Telatemp. _____

NOTE

At 500 hours time-in-service or annually, whichever occurs first, remove chip detector and clean varnish from detector's magnetic probe and adjacent metal body (a toothbrush dampened with solvent works well). Also, drain and flush gearboxes at intervals not to exceed 500 hours time-in-service (refer to § 1.101).

Pitch Control Assembly and C121-17 Push-Pull Tube: Check pitch control assembly for free movement throughout its entire range and for looseness on output shaft (0.25 inch maximum rotational play measured at pitch link attach bolt). Inspect bellcrank for cracks and ensure free movement. Pay special attention to spherical bearing atop stud protruding from underside of pitch control; it is permissible to have a single radial crack in the spherical bearing ball. Inspect aft end of C121-17 push-pull tube for cracks and check rod end for excessive looseness (refer to R44 SB-43A). _____

Pitch Links: Check rod ends for excessive looseness. If equipped with one-piece pitch links, disconnect and rotate inboard end outboard as required to obtain maximum service life. Additionally, an optional A215-012 o-ring may be installed on A115-1 spacer under both bolt heads at pitch control. _____

Tail Rotor Blades: Inspect blade surfaces for excessive erosion, nicks, scratches, cracks, corrosion, voids, or debonding. Check tail rotor blade root fitting bearings for fretting and looseness. Loose bearing outer race in root fitting is unairworthy, requiring replacement of blade. C029-1 blades only: remove tip covers, inspect for debris and corrosion, & reinstall covers. Inspect condition and perform tail rotor blade care per § 9.470. C029-1 or C029-2 blades only: Inspect tail rotor blades for fatigue cracks per U.S. AD 2020-08-10. _____

2.410 Inspection Procedures and Checklist (continued)**9. Tail Rotor Gearbox and Tail Rotor**

Hub Plates and Hub: Inspect for cracks and corrosion, paying special attention to areas around blade and hub mounting bolts. Ensure teeter hinge bearing outer races move with hub and bearing inner balls and retaining nut and bolt remain stationary when hub is teetered. Hub should move freely on bearings without stiffness or jerkiness. Check teeter hinge bearings for excessive play. For elastomeric bearings inspect per § 2.125. _____

Fasteners and Torque Stripes: Inspect condition and verify security of all fasteners. Renew deteriorated torque stripes per Figure 2-1. _____

10. Open Mast Fairing (9)

Mast Fairing: Inspect condition, especially where stiffeners intersect ribs. _____

Lower Swashplate Scissors: Inspect condition of scissors. Check rod end and bearing play. Check jam nut. _____

Vertical Push-Pull Tubes: Inspect for general condition and corrosion. For manual controls, inspect push-pull tube sleeves at rollers and guide. _____

Rod Ends: Check push-pull tube rod ends per § 2.120. _____

Plastic Rollers and Guide (manual controls): Inspect plastic rollers and guide for cleanliness, security, and deterioration. _____

Pitot Tube: Inspect pitot line and tube, giving special attention to connecting area, for bending, cracking and kinking. Verify pitot tube elbow drain hole is unobstructed. _____

Fuel Tank Vents: Inspect condition and security of fuel tank vent tube clamps. Ensure pitot line is not chafing fuel vent tubes. Check tube connections. Verify tubes are unobstructed and are not kinked, pinched, or chafing. _____

Mast Fairing Ribs: Inspect for cracks especially around mast tube attachments. _____

11. Rotor Hub Area

Swashplate Lower Scissors: Inspect condition. Inspect rod ends per § 2.120. Verify security. _____

Swashplate Upper Scissors: Inspect condition. Inspect rod ends and spherical bearings per § 2.120. Measure scissors play per Figure 2-9. Observe scissor linkage while having someone raise and lower collective. Verify bolt, journals (or spherical bearing balls and spacers), and arm rotate together at each scissor linkage pivot. Verify operating clearance. _____

2.410 Inspection Procedures and Checklist (continued)**11. Rotor Hub Area (continued)**

Swashplate Slider Tube: Inspect condition. Verify no cracks at rivet holes or corrosion on base. Verify no damage to, or wear through, anodized tube surface. _____

Remove Swashplate Boot Lower Ty-rap: Lift boot from swashplate. Using an inspection mirror, inspect area between main rotor drive shaft and inside of slider tube. Verify no corrosion and no debris. Verify no boot damage. _____

Swashplate: Inspect condition. Verify 0.020 inch maximum radial play between swashplate ball and slider tube. Rotate rotor by hand and verify operating clearance and no rough or dry bearings. _____

Swashplate Tilting Friction: Observe swashplate ball from below and have someone move collective stick slowly up & down. Verify swashplate ball immediately moves with swashplate when swashplate reverses direction. Movement of swashplate without attendant ball movement indicates axial play between ball and swashplate; adjust swashplate tilting friction per § 8.413. _____

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2.410 Inspection Procedures and Checklist (continued)**22. Maintenance Records**

Maintenance Records: Verify maintenance records are accurate, legible, and complete. Enter maintenance performed (such as part replacement, equipment adjustments, servicing, and lubrication) and inspection data. Data must include a description of (or reference to data acceptable to the Administrator) the work performed, date, helicopter total time in service, signature, certificate type and certificate number of person approving aircraft for return to service. _____

SHEAVE ALIGNMENT LEFT: _____

SHEAVE ALIGNMENT RIGHT: _____

TRDS RUNOUT: _____

CHECKLIST COMPLETE:

Mechanic's signature: _____ Date: _____

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CHAPTER 9

ROTOR SYSTEMS

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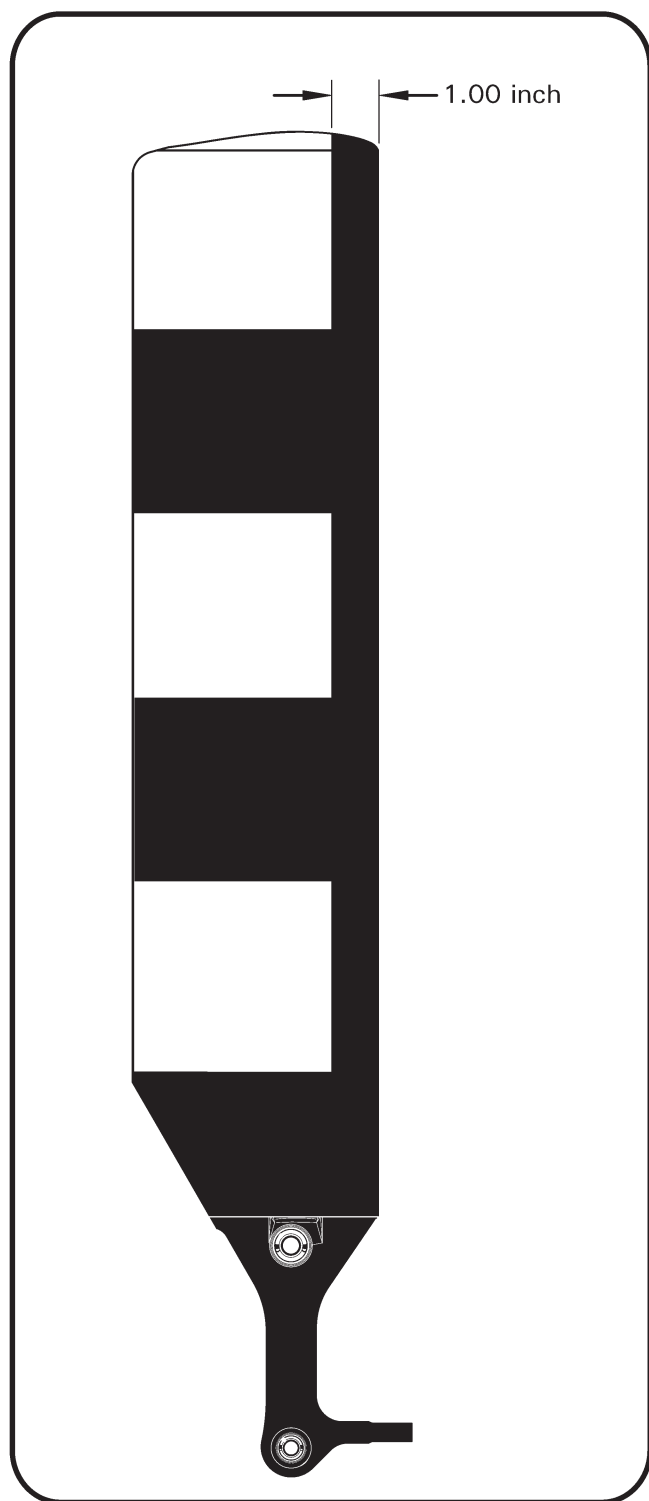
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ROTOR SYSTEMS

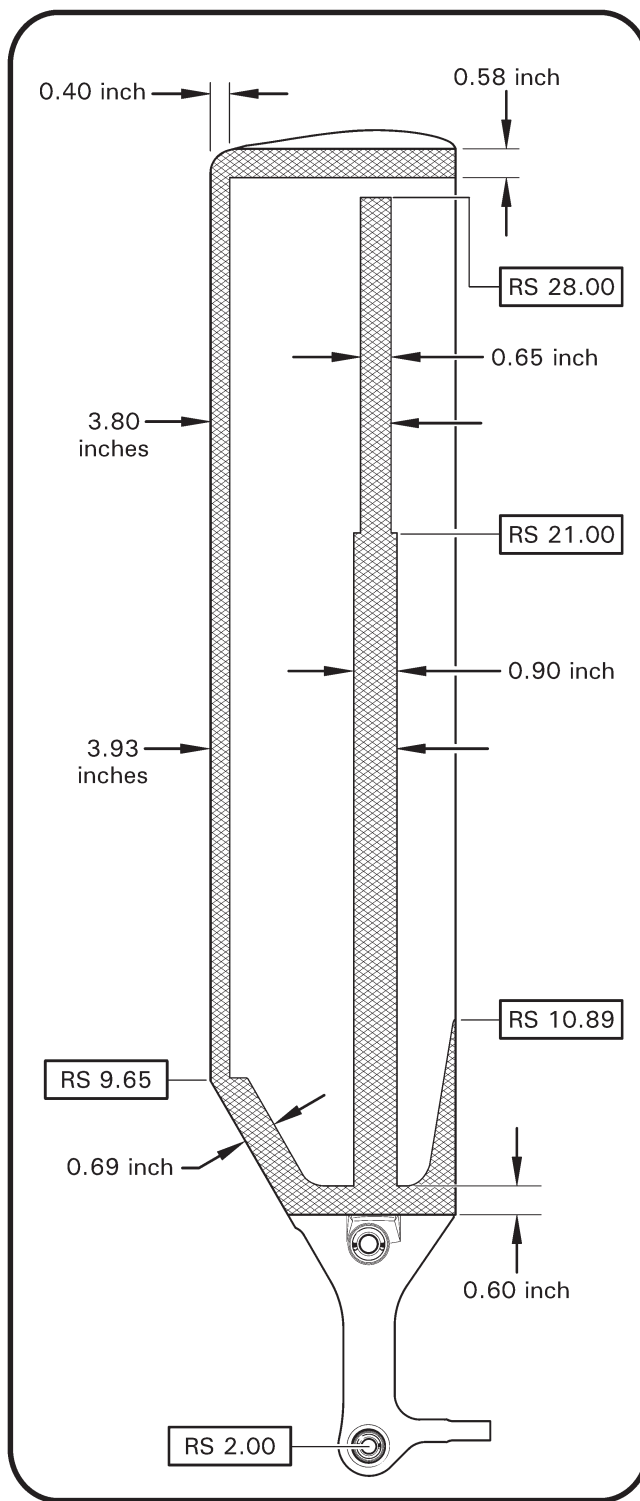
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9.460 Painting

1. Clean with QSOL 220 and wipe lint-free with a tack rag.
2. Apply a 2 to 3-inch wide strip of epoxy primer along all exposed bond joints.
3. Apply two full coats of epoxy primer to all exterior surfaces. Time limits are 10 minutes minimum, 8 hours maximum between coats. If 8 hours is exceeded, scuff with 600 grit wet-or-dry aluminum oxide abrasive paper in a spanwise direction, QSOL 220 wipe and mist primer before applying next coat.
4. Spray white all over and allow to dry before masking for trim stripes. See Figure 9-16.
5. Spray finish coat semi-gloss black stripes and root fitting.
6. Remove all masking materials.



9-16A TAIL ROTOR BLADE LEADING EDGE PAINT



9-16B TAIL ROTOR BLADE BONDED AREAS

9.470 Tail Rotor Blade Condition and Care

Regular preventive maintenance of tail rotor blades is imperative for continued safe operation. Leading edge pitting or degradation of the bond at the tip cap can result if regular preventive maintenance is not performed; additional care may be required in corrosive environments such as coastal or shipboard operations. The following maintenance is recommended to prevent and mitigate the effects of corrosion:

1. Remove any corrosion and loose paint by hand-sanding in a spanwise direction using 220-grit aluminum-oxide abrasive paper and minimum 0.1 inch blend radius; finish sand with 320-grit aluminum-oxide abrasive paper. Remove only material necessary to eliminate corrosion; any hole that completely penetrates blade skin requires blade replacement.

Feather edge of paint bordering any bare metal by hand-sanding spanwise with 320-grit or finer wet-or-dry aluminum-oxide abrasive paper. Do not remove bare metal when feather sanding.

Preferred blade condition is with fully painted leading edge. Use two coats of Desoprime CA7501 epoxy primer (or equivalent). Scuff primer prior to applying second coat. Use Dupont Imron polyurethane enamel or equivalent paint. Refer to § 1.460 for specific paint codes. Blades with striped leading edges may be painted with solid black leading edge (ref. Figure 9-16A) if desired for ease of application.

Paint offers the best protection against leading edge corrosion. If painting blades is impractical, at least a single coat of primer on leading edges provides some protection.

2. Balance tail rotor per § 10.240 after any corrosion removal or painting.
3. When operating in a corrosive environment, even if leading edge paint/primer is intact, clean tail rotor daily per Pilot's Operating Handbook Section 8, Cleaning Helicopter (mild soap means a pH between 7 & 9). If waxing blades is impractical, wipe blade leading edges with standard WD-40® brand light oil or equivalent; do not use ACF-50® lubricant or "Specialist" versions of WD-40® on blades, and do not use Salt-Away®.
4. Refer to Figure 9-16B. At each 100-hour inspection, tap test bonded areas shown to verify bond integrity, paying special attention to tip cap. Reference tap test instructional video at: https://robinsonheli.com/wp-content/uploads/2021/06/taptest_05_apr_2010.mp4

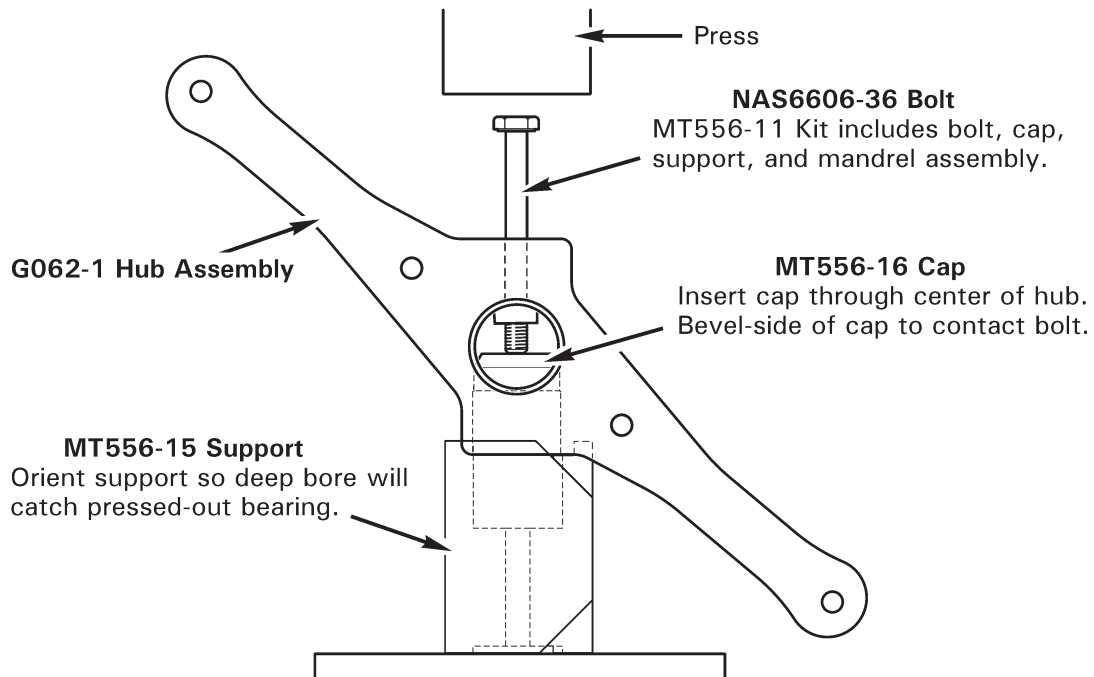


FIGURE 9-17 ELASTOMERIC BEARING REMOVAL

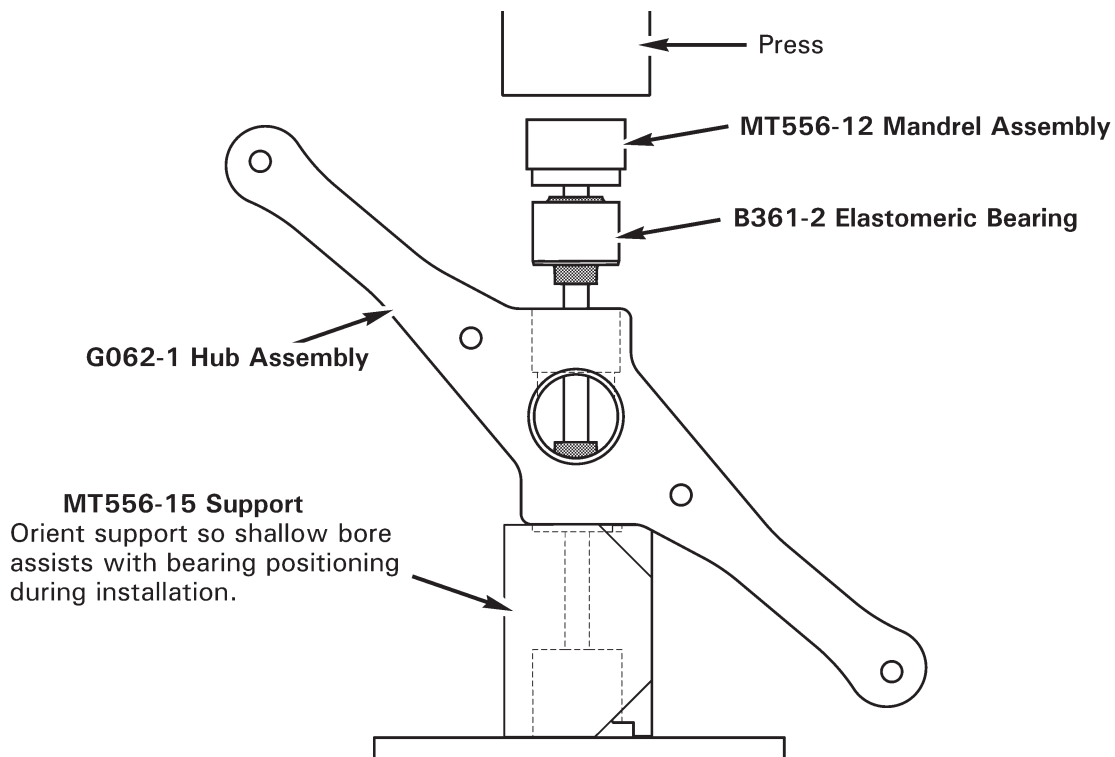


FIGURE 9-18 ELASTOMERIC BEARING INSTALLATION

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14.700 [Reserved.]

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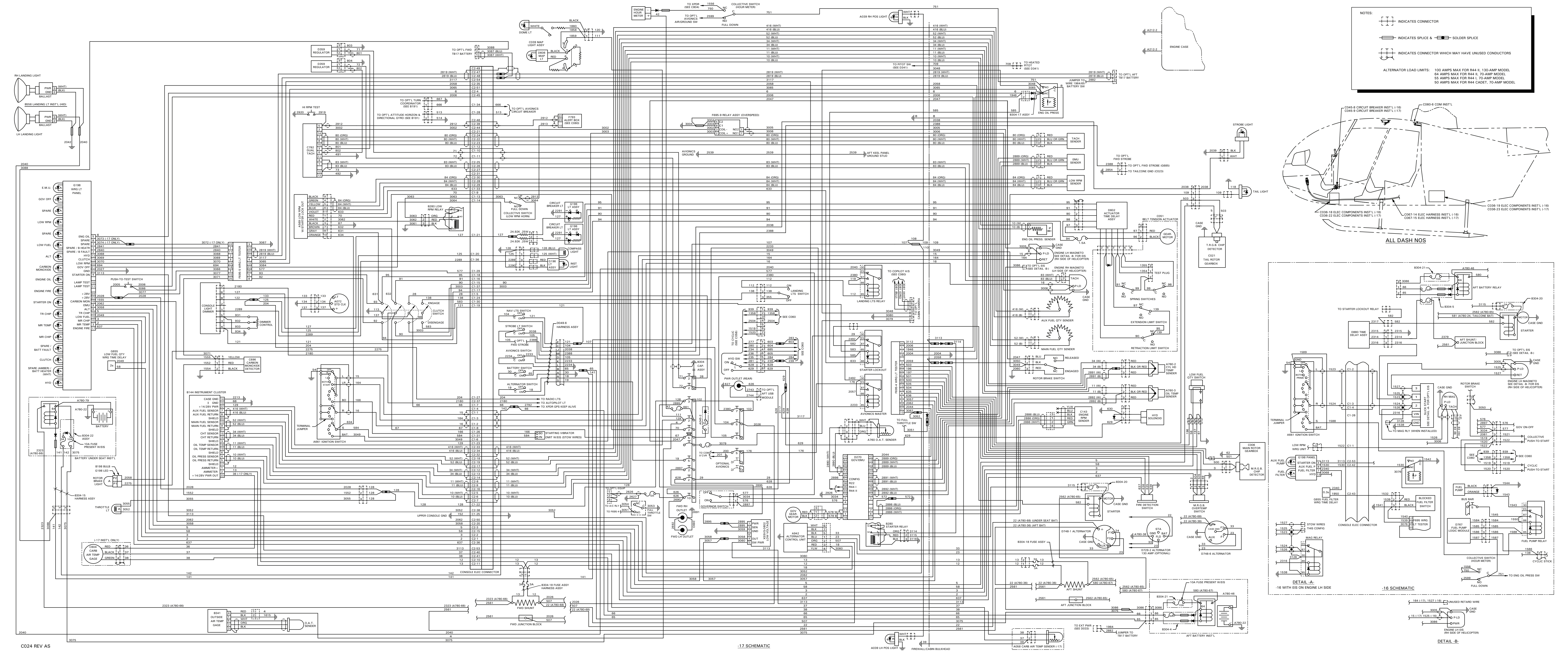


FIGURE 14-21 R44 ELECTRICAL SYSTEM INSTALLATION
(C024 Revision AS shown)

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REVISION LOG

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REVISION LOG

JUL 2021

The R44 Maintenance Manual (MM) list of effective pages and effective dates are given below. If a previously issued page is not listed below, it is no longer an effective page and must be discarded. The issue or revision date is in bold at the top of each revision log page.

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1.8D	06 Dec 99	1.35	JAN 2021	2.21	JUL 2008
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1.10A	1 Jun 97	1.38	OCT 2006	2.24	JUL 2008
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2.30	JUL 2021			4.22	DEC 2011
2.30A	JUL 2021	3.i	AUG 2019	4.23	DEC 2011
2.30B	JUL 2021	3.ii	AUG 2019	4.24	DEC 2011
2.31	JUN 2014	3.1	JAN 2021	4.25	DEC 2011
2.32	JUN 2014	3.2	JAN 2021	4.26	DEC 2011
2.33	JUL 2008	3.3	AUG 2019		
2.34	OCT 2006	3.4	AUG 2019	5.i	DEC 2011
2.35	JAN 2021	3.5	AUG 2019	5.ii	DEC 2011
2.36	JAN 2021	3.6	AUG 2019	5.1	DEC 2011
2.36A	JAN 2021	3.7	AUG 2019	5.2	DEC 2011
2.36B	JAN 2021	3.8	AUG 2019	5.3	12 Dec 94
2.37	JUL 2021	3.9	AUG 2019	5.4	11 Jun 93
2.38	JUL 2021	3.10	AUG 2019	5.5	11 Jun 93
2.39	JUL 2008	3.11	AUG 2019	5.6	12 Dec 94
2.40	JUL 2008	3.12	AUG 2019	5.7	11 Jun 93
2.41	OCT 2006			5.8	12 Dec 94
2.42	OCT 2006	4.i	DEC 2011	5.9	06 Dec 99
2.43	OCT 2006	4.ii	DEC 2011	5.10	06 Dec 99
2.44	OCT 2006	4.1	DEC 2011	5.11	JUL 2008
2.45	JUL 2008	4.2	DEC 2011	5.12	JUL 2008
2.46	OCT 2006	4.3	OCT 2006	5.13	06 Dec 99
2.47	OCT 2006	4.4	OCT 2006	5.14	06 Dec 99
2.48	OCT 2006	4.5	JUL 2008	5.15	06 Dec 99
2.49	OCT 2006	4.6	JUL 2008	5.16	06 Dec 99
2.50	OCT 2006	4.7	1 Jun 97	5.17	06 Dec 99
2.51	OCT 2006	4.8	1 Jun 97	5.18	06 Dec 99
2.52	OCT 2006	4.9	15 Jun 98	5.19	06 Dec 99
2.53	JUN 2014	4.10	11 Jun 93	5.20	06 Dec 99
2.54	JUN 2014	4.11	12 Dec 94	5.21	OCT 2006
2.55	JUN 2014	4.12	12 Dec 94	5.22	OCT 2006
2.56	JUN 2014	4.13	DEC 2011	5.23	JUL 2005
2.56A	JUN 2014	4.14	DEC 2011	5.24	JUL 2005
2.56B	JUN 2014	4.15	DEC 2011	5.25	JUL 2005
2.57	OCT 2006	4.16	DEC 2011	5.26	JUL 2005
2.58	OCT 2006	4.17	DEC 2011	5.27	JUL 2005
2.59	OCT 2006	4.18	DEC 2011	5.28	JUL 2005
2.60	JUL 2008	4.19	DEC 2011	5.29	JUL 2005

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5.30	JUL 2005	7.8A	DEC 2011	7.40	5 May 95
		7.8B	DEC 2011	7.41	06 Dec 99
6.i	JUN 2014	7.9	DEC 2011	7.42	12 Dec 94
6.ii	JUN 2014	7.9A	DEC 2011	7.43	11 Jun 93
6.1	JUN 2014	7.9B	DEC 2011	7.44	12 Dec 94
6.2	JUN 2014	7.9C	DEC 2011	7.45	12 Dec 94
6.3	JUN 2014	7.9D	DEC 2011	7.46	1 Jun 97
6.4	JUN 2014	7.10	DEC 2011	7.47	JUL 2008
6.5	JUN 2014	7.11	18 MAR 99	7.48	1 Jun 97
6.6	JUN 2014	7.12	12 Dec 94	7.49	JUL 2008
6.7	JUN 2014	7.13	DEC 2011	7.50	JUL 2008
6.8	JUN 2014	7.14	DEC 2011	7.51	5 May 95
6.9	JUN 2014	7.14A	18 MAR 99	7.52	12 Dec 94
6.10	JUN 2014	7.14B	1 Jun 97	7.53	12 Dec 94
6.11	JUN 2014	7.15	DEC 2011	7.54	12 Dec 94
6.12	JUN 2014	7.16	DEC 2011		
6.13	JUN 2014	7.17	DEC 2011	8.i	DEC 2011
6.14	JUN 2014	7.18	DEC 2011	8.ii	DEC 2011
6.15	JUN 2014	7.19	11 Jun 93	8.iii	DEC 2011
6.16	JUN 2014	7.20	1 Jun 97	8.iv	DEC 2011
6.17	JUN 2014	7.21	1 Jun 97	8.1	DEC 2011
6.18	JUN 2014	7.22	JUL 2004	8.1A	DEC 2011
6.19	AUG 2019	7.23	JUL 2008	8.1B	06 Dec 99
6.20	AUG 2019	7.24	JUL 2008	8.2	FEB 2003
6.21	JUN 2014	7.25	18 MAR 99	8.3	FEB 2003
6.22	JUN 2014	7.26	18 MAR 99	8.3A	06 Dec 99
6.23	JUN 2014	7.27	12 Dec 94	8.3B	JUL 2004
6.24	JUN 2014	7.28	12 Dec 94	8.4	15 Jun 98
		7.29	06 Dec 99	8.5	15 Jun 98
7.i	DEC 2011	7.30	1 Jun 97	8.6	15 Jun 98
7.ii	DEC 2011	7.31	12 Dec 94	8.7	11 Jun 93
7.1	DEC 2011	7.32	11 Jun 93	8.8	06 Dec 99
7.2	DEC 2011	7.33	15 Jun 98	8.9	1 Jun 97
7.3	5 May 95	7.34	1 Jun 97	8.10	15 Jun 98
7.4	12 Dec 94	7.35	15 Jun 98	8.11	15 Jun 98
7.5	JUL 2008	7.36	15 Jun 98	8.12	15 Jun 98
7.6	JUL 2008	7.37	1 Jun 97	8.13	15 Jun 98
7.7	15 Jun 98	7.38	12 Dec 94	8.14	15 Jun 98
7.8	18 MAR 99	7.39	5 May 95	8.15	15 Jun 98

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8.16	15 Jun 98	8.51	2 Jul 93	9.17	JUN 2014
8.17	15 Jun 98	8.52	5 May 95	9.18	JUN 2014
8.18	12 Dec 94	8.53	OCT 2006	9.19	JUN 2014
8.19	15 Jun 98	8.54	OCT 2006	9.20	JUN 2014
8.20	15 Jun 98	8.55	OCT 2006	9.21	JUN 2014
8.21	15 Jun 98	8.56	JUL 2008	9.22	JUN 2014
8.22	06 Dec 99	8.56A	JUL 2008	9.23	JUN 2014
8.23	12 Dec 94	8.56B	OCT 2006	9.24	JUN 2014
8.24	11 Jun 93	8.57	OCT 2006	9.25	JUN 2014
8.25	JUL 2004	8.58	OCT 2006	9.26	JUN 2014
8.26	JUL 2004	8.59	APR 2012	9.27	JUN 2014
8.27	JUL 2004	8.60	APR 2012	9.28	JUN 2014
8.28	JUL 2004	8.61	APR 2012	9.28A	JAN 2021
8.29	JUL 2004	8.62	APR 2012	9.28B	JAN 2021
8.30	JUL 2004	8.63	APR 2012	9.29	DEC 2011
8.31	AUG 2019	8.64	APR 2012	9.30	DEC 2011
8.32	AUG 2019	8.65	APR 2012	9.31	DEC 2011
8.32A	AUG 2019	8.66	APR 2012	9.32	DEC 2011
8.32B	AUG 2019	8.67	APR 2012	9.33	DEC 2011
8.33	12 Dec 94	8.68	APR 2012	9.34	DEC 2011
8.33A	JUL 2004	9.i	JUL 2021	9.35	DEC 2011
8.33B	JUL 2004	9.ii	JUL 2021	9.36	DEC 2011
8.34	12 Dec 94	9.1	JUN 2014	9.37	DEC 2011
8.35	12 Dec 94	9.2	JUN 2014	9.38	DEC 2011
8.36	JUL 2004	9.3	JUN 2014	9.39	DEC 2011
8.37	JUL 2008	9.4	JUN 2014	9.40	DEC 2011
8.38	JUL 2008	9.5	JUN 2014	9.41	DEC 2011
8.39	JUL 2008	9.6	JUN 2014	9.42	DEC 2011
8.40	JUL 2008	9.7	JUN 2014	9.43	DEC 2011
8.41	JUL 2004	9.8	JUN 2014	9.44	DEC 2011
8.42	JUL 2004	9.9	JUN 2014	9.45	JUL 2021
8.43	11 Jun 93	9.10	JUN 2014	9.45A	JUL 2021
8.44	JUL 2004	9.11	JUN 2014	9.45B	JUL 2021
8.45	JUL 2004	9.12	JUN 2014	9.46	JUL 2021
8.46	11 Jun 93	9.13	JUN 2014	9.47	DEC 2011
8.47	11 Jun 93	9.14	JUN 2014	9.48	DEC 2011
8.48	11 Jun 93	9.15	JUN 2014	9.49	DEC 2011
8.49	JUL 2008	9.16	JUN 2014	9.50	DEC 2011
8.50	JUL 2008				

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10.i.....	DEC 2011	10.34B.....	DEC 2011	12.5.....	JUN 2014
10.ii.....	DEC 2011	10.35.....	DEC 2011	12.6.....	JUN 2014
10.1.....	DEC 2011	10.35A.....	DEC 2011	12.7.....	JUN 2014
10.2.....	DEC 2011	10.35B.....	FEB 2003	12.8.....	JUN 2014
10.3.....	12 Dec 94	10.36.....	5 May 95	12.9.....	JUN 2014
10.4.....	12 Dec 94	10.37.....	JUL 2004	12.10.....	JUN 2014
10.5.....	JUL 2008	10.38.....	JUL 2004	12.11.....	JUN 2014
10.6.....	JUL 2008			12.12.....	JUN 2014
10.7.....	JUL 2008	11.i.....	DEC 2011	12.13.....	JUN 2014
10.8.....	FEB 2003	11.ii.....	DEC 2011	12.14.....	JUN 2014
10.9.....	OCT 2006	11.1.....	DEC 2011	12.15.....	JUN 2014
10.10.....	FEB 2003	11.2.....	DEC 2011	12.16.....	JUN 2014
10.11.....	JUL 2008	11.3.....	1 Jun 97	12.17.....	JUN 2014
10.12.....	JUL 2008	11.4.....	1 Jun 97	12.18.....	JUN 2014
10.13.....	11 Jun 93	11.5.....	1 Jun 97	12.19.....	JUN 2014
10.14.....	11 Jun 93	11.6.....	1 Jun 97	12.20.....	JUN 2014
10.15.....	OCT 2006	11.7.....	OCT 2006	12.21.....	JUN 2014
10.16.....	JUL 2008	11.8.....	OCT 2006	12.22.....	JUN 2014
10.17.....	JUL 2008	11.9.....	OCT 2006	12.23.....	JUN 2014
10.18.....	JUL 2008	11.10.....	OCT 2006	12.24.....	JUN 2014
10.18A.....	JUL 2008	11.11.....	OCT 2006	12.25.....	JUN 2014
10.18B.....	JUL 2008	11.12.....	OCT 2006	12.26.....	JUN 2014
10.19.....	JUL 2008	11.13.....	OCT 2006	12.27.....	JUN 2014
10.20.....	FEB 2003	11.14.....	JUL 2008	12.28.....	JUN 2014
10.21.....	12 Dec 94	11.15.....	OCT 2006		
10.22.....	18 MAR 99	11.16.....	OCT 2006	13.i.....	AUG 2019
10.23.....	2 Jul 93	11.17.....	OCT 2006	13.ii.....	AUG 2019
10.24.....	FEB 2003	11.18.....	JUL 2008	13.1.....	AUG 2019
10.25.....	FEB 2003	11.19.....	OCT 2006	13.2.....	AUG 2019
10.26.....	FEB 2003	11.20.....	JUL 2008	13.3.....	AUG 2019
10.27.....	JUL 2008	11.21.....	JUL 2008	13.4.....	AUG 2019
10.28.....	JUL 2008	11.22.....	JUL 2008	13.5.....	AUG 2019
10.29.....	18 MAR 99			13.6.....	AUG 2019
10.30.....	15 Jun 98	12.i.....	JUN 2014	13.7.....	AUG 2019
10.31.....	JUL 2008	12.ii.....	JUN 2014	13.8.....	AUG 2019
10.32.....	JUL 2008	12.1.....	JUN 2014	13.9.....	AUG 2019
10.33.....	DEC 2011	12.2.....	JUN 2014	13.10.....	AUG 2019
10.34.....	DEC 2011	12.3.....	JUN 2014	13.11.....	AUG 2019
10.34A.....	DEC 2011	12.4.....	JUN 2014	13.12.....	AUG 2019

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13.13	AUG 2019	14.17	OCT 2006	14.30	11 Jun 93
13.14	AUG 2019	14.17A	OCT 2006	14.31	11 Jun 93
13.15	AUG 2019	14.17B	OCT 2006	14.32	11 Jun 93
13.16	AUG 2019	14.18	OCT 2006	14.33	11 Jun 93
13.17	AUG 2019	14.18A	OCT 2006	14.34	11 Jun 93
13.18	AUG 2019	14.18B	OCT 2006	14.35	11 Jun 93
13.19	AUG 2019	14.18C	JUL 2008	14.36	12 Dec 94
13.20	AUG 2019	14.18D	OCT 2006	14.37	11 Jun 93
13.21	AUG 2019	14.19	JUL 2004	14.38	11 Jun 93
13.22	AUG 2019	14.19A	JUL 2004	14.39	1 Jun 97
13.23	AUG 2019	14.19B	JUL 2004	14.40	1 Jun 97
13.24	AUG 2019	14.20	11 Jun 93	14.40A	OCT 2006
13.25	AUG 2019	14.20A	18 MAR 99	14.40B	OCT 2006
13.26	AUG 2019	14.20B	15 Jun 98	14.41	JUL 2021
13.27	AUG 2019	14.20C	18 MAR 99	14.42	JUL 2021
13.28	AUG 2019	14.20D	15 Jun 98	14.43	AUG 2019
13.29	AUG 2019	14.20E	JUL 2004	14.44	AUG 2019
13.30	AUG 2019	14.20F	18 MAR 99	14.45	AUG 2019
13.31	AUG 2019	14.20G	JUL 2004	14.46	AUG 2019
13.32	AUG 2019	14.20H	JUL 2004	14.47	AUG 2019
13.33	AUG 2019	14.20I	DEC 2011	14.48	AUG 2019
13.34	AUG 2019	14.20J	DEC 2011	14.49	AUG 2019
13.35	AUG 2019	14.20K	JUN 2014	14.50	AUG 2019
13.36	AUG 2019	14.20L	JUN 2014	14.51	AUG 2019
		14.20M	JUN 2014	14.52	AUG 2019
14.i	JUL 2021	14.20N	JUN 2014	14.53	AUG 2019
14.ii	JUL 2021	14.20O	JUN 2014	14.54	AUG 2019
14.1	AUG 2019	14.20P	JUN 2014	14.55	AUG 2019
14.2	AUG 2019	14.20Q	JUN 2014	14.56	AUG 2019
14.3	AUG 2019	14.20R	JUN 2014	14.57	AUG 2019
14.3A	AUG 2019	14.21	JUL 2021	14.58	AUG 2019
14.3B	JUN 2014	14.22	JUL 2021	14.59	AUG 2019
14.3C	JUN 2014	14.23	JUL 2021	14.60	AUG 2019
14.3D	JUN 2014	14.24	JUL 2021	14.61	AUG 2019
14.3E	JUN 2014	14.25	AUG 2019	14.62	AUG 2019
14.3F	JUN 2014	14.26	AUG 2019	14.63	AUG 2019
14.3G	JUN 2014	14.27	11 Jun 93	14.64	AUG 2019
14.3H	JUN 2014	14.28	11 Jun 93	14.65	AUG 2019
14.3I	JUN 2014	14.29	15 Jun 98	14.66	AUG 2019

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14.67	AUG 2019	16.8	AUG 2019	24.1	AUG 2019
14.68	AUG 2019			24.2	AUG 2019
14.69	AUG 2019	17.i	AUG 2019	24.3	AUG 2019
14.70	AUG 2019	17.ii	AUG 2019	24.4	AUG 2019
14.71	AUG 2019	17.1	AUG 2019	24.5	AUG 2019
14.72	AUG 2019	17.2	AUG 2019	24.6	AUG 2019
14.73	AUG 2019			24.7	AUG 2019
14.74	AUG 2019	18.i	AUG 2019	24.8	AUG 2019
14.75	AUG 2019	18.ii	AUG 2019	24.9	AUG 2019
14.76	AUG 2019	18.1	AUG 2019	24.10	AUG 2019
14.77	JAN 2021	18.2	AUG 2019	24.11	AUG 2019
14.78	JAN 2021			24.12	AUG 2019
		19.i	AUG 2019	24.13	AUG 2019
15.i	JAN 2021	19.ii	AUG 2019	24.14	AUG 2019
15.ii	JAN 2021	19.1	AUG 2019	24.15	AUG 2019
15.1	JAN 2021	19.2	AUG 2019	24.16	AUG 2019
15.2	JAN 2021				
15.3	JAN 2021	20.i	AUG 2019	25.i	AUG 2019
15.4	JAN 2021	20.ii	AUG 2019	25.ii	AUG 2019
15.5	JAN 2021	20.1	AUG 2019	25.1	AUG 2019
15.6	JAN 2021	20.2	AUG 2019	25.2	AUG 2019
15.7	JAN 2021				
15.8	JAN 2021	21.i	AUG 2019	26.i	AUG 2019
15.9	JAN 2021	21.ii	AUG 2019	26.ii	AUG 2019
15.10	JAN 2021	21.1	AUG 2019	26.1	AUG 2019
15.11	JAN 2021	21.2	AUG 2019	26.2	AUG 2019
15.12	JAN 2021				
15.13	JAN 2021	22.i	AUG 2019	27.i	AUG 2019
15.14	JAN 2021	22.ii	AUG 2019	27.ii	AUG 2019
		22.1	AUG 2019	27.1	AUG 2019
16.i	AUG 2019	22.2	AUG 2019	27.2	AUG 2019
16.ii	AUG 2019				
16.1	AUG 2019	23.i	AUG 2019	28.i	AUG 2019
16.2	AUG 2019	23.ii	AUG 2019	28.ii	AUG 2019
16.3	AUG 2019	23.1	AUG 2019	28.1	AUG 2019
16.4	AUG 2019	23.2	AUG 2019	28.2	AUG 2019
16.5	AUG 2019				
16.6	AUG 2019	24.i	AUG 2019	29.i	AUG 2019
16.7	AUG 2019	24.ii	AUG 2019	29.ii	AUG 2019

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29.1	AUG 2019	36.5	JAN 2021	37.29	AUG 2019
29.2	AUG 2019	36.6	JAN 2021	37.30	AUG 2019
		36.7	JAN 2021	37.31	AUG 2019
30.i	AUG 2019	36.8	JAN 2021	37.32	AUG 2019
30.ii	AUG 2019	36.9	AUG 2019	37.33	JAN 2021
30.1	AUG 2019	36.10	AUG 2019	37.34	JAN 2021
30.2	AUG 2019				
		37.i	JAN 2021	38.i	AUG 2019
31.i	AUG 2019	37.ii	JAN 2021	38.ii	AUG 2019
31.ii	AUG 2019	37.1	JAN 2021	38.1	AUG 2019
31.1	AUG 2019	37.1A	JAN 2021	38.2	AUG 2019
31.2	AUG 2019	37.1B	JAN 2021	38.3	AUG 2019
		37.2	JAN 2021	38.4	AUG 2019
32.i	AUG 2019	37.3	AUG 2019	38.5	AUG 2019
32.ii	AUG 2019	37.4	AUG 2019	38.6	AUG 2019
32.1	AUG 2019	37.5	AUG 2019	38.7	AUG 2019
32.2	AUG 2019	37.6	AUG 2019	38.8	AUG 2019
		37.7	AUG 2019	38.9	AUG 2019
33.i	AUG 2019	37.8	AUG 2019	38.10	AUG 2019
33.ii	AUG 2019	37.9	JAN 2021	38.11	AUG 2019
33.1	AUG 2019	37.10	JAN 2021	38.12	AUG 2019
33.2	AUG 2019	37.11	AUG 2019	38.13	AUG 2019
		37.12	AUG 2019	38.14	AUG 2019
34.i	AUG 2019	37.13	AUG 2019	38.15	AUG 2019
34.ii	AUG 2019	37.14	AUG 2019	38.16	AUG 2019
34.1	AUG 2019	37.15	AUG 2019	38.17	AUG 2019
34.2	AUG 2019	37.16	AUG 2019	38.18	AUG 2019
		37.17	JAN 2021	38.19	AUG 2019
35.i	AUG 2019	37.18	JAN 2021	38.20	AUG 2019
35.ii	AUG 2019	37.19	AUG 2019	38.21	AUG 2019
35.1	AUG 2019	37.20	AUG 2019	38.22	AUG 2019
35.2	AUG 2019	37.21	AUG 2019	38.23	AUG 2019
		37.22	AUG 2019	38.24	AUG 2019
36.i	AUG 2019	37.23	AUG 2019	38.25	AUG 2019
36.ii	AUG 2019	37.24	AUG 2019	38.26	AUG 2019
36.1	AUG 2019	37.25	AUG 2019	38.27	AUG 2019
36.2	AUG 2019	37.26	AUG 2019	38.28	AUG 2019
36.3	AUG 2019	37.27	AUG 2019	38.29	AUG 2019
36.4	AUG 2019	37.28	AUG 2019	38.30	AUG 2019

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39.ii	AUG 2019				
39.1	AUG 2019				
39.2	AUG 2019				
40.i	AUG 2019				
40.ii	AUG 2019				
40.1	AUG 2019				
40.2	AUG 2019				
41.i	JUL 2021				
41.ii	JUL 2021				
41.1	JUL 2021				
41.2	JUL 2021				
41.3	JUL 2021				
41.4	JUL 2021				
41.5	JUL 2021				
41.6	JUL 2021				
41.7	JUL 2021				
41.8	JUL 2021				
41.9	JUL 2021				
41.10	JUL 2021				

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