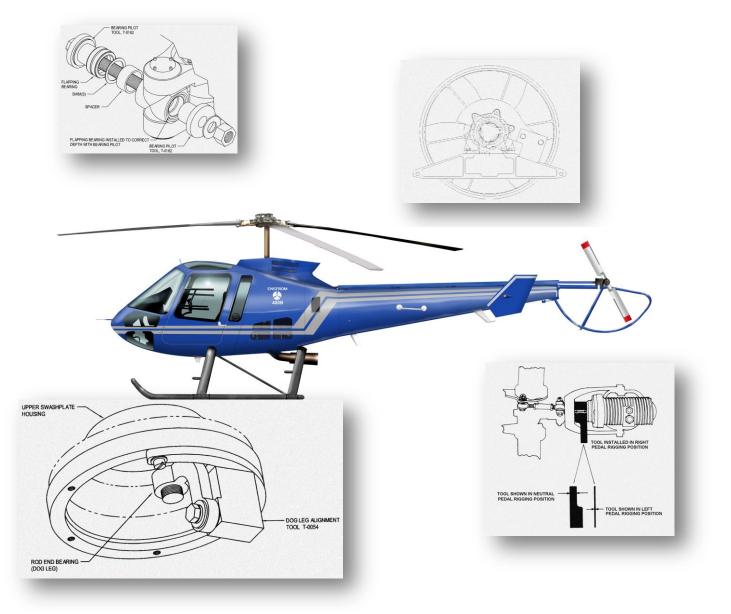


2018



Illustrated Tool Catalog Piston & Turbine

PS.CAT.0018.V10

INTENTIONALLY LEFT BLANK

FROM:	COMPANY:	DATE:
EMAIL:	PO#	

BILL TO ADDRESS:	SHIP TO ADDRESS:	ARE 8130 TAGS REQUIRED?
CONTACT NAME:	CONTACT NAME:	AIRCRAFT S/N, AND OWNERS NAME AND ADDRESS ARE
PHONE:	PHONE:	REQUIRED FOR ALL INTERNATIONAL SHIPPMENTS.

QTY	PART NUMBER	DESCRIPTION	AIRCRAFT S/N

NOTE: USE BACK SIDE OF THIS FORM IF ORDER EXCEEDS SPACE GIVEN ABOVE.

ORDER TYPE: REGULAR	AOG EXCHANGE WARRANTY			
WARRANTY: Complete Warranty App	lication Form and submit to Product Support for review.			
TOOL RENTALS: A pre-determined se	curity deposit will be held until the tool has been returned to EH	<mark>C.</mark>		
EXCHANGE: Complete the componen	t return form. The component return form should be shipped w	ith the component.		
SHIPPING INSURAN	CE: YES NO IMPORTANT: IF BOX IS NOT CHECKED SH	HIPPING INSURANCE WILL BE ADDED		
NEED BY DATE:	EED BY DATE: SHIPPING CARRIER: SHIPPING ACCOUNT NUMBER			
	OTHER:			

CREDIT CARD NUMBER:	EXP:	CREDIT CARD TYPE:	
OTHER FORM OF PAYMENT:		EHC PARTS DEPARTMENT	
EHC ORDER FORM	Craig Hayward Chip Zeismer	<u>Chip Zeismer</u>	
	PHONE: 1.906-863-1200. X 178 PHONE: 1.906-863-1200.		
	chayward@enstrom	helicopter.com czeismer@enstromhelicopter.com	

QTY	PART NUMBER	DESCRIPTION	AIRCRAFT S/N

Table of contents

Odering form

Page-2,3

Sec-1 Flight Controls and Rotor systems

Page-7

Tool #/PN	Tool Discription	Piston/	Page
		Turbine	Number
T-0003	Lead Lag Nut Wrench	P/T	7
T-0005	Damper Rod End Removal Tool	P/T	8
T-0009	Main Rotor Blade Bolt Guide Bullet	P/T	9
T-0011	Main Rotor Hub & A/C Sling	P/T	10
T-0012	TR Rigging Tool, A & 280 Model	Р	11
T-0080	Tail Rotor Rigging Tool C, & F Models	Р	11
T-2889	Tail Rotor Rigging Tool 480 Models	Т	11
T-0013	Lamiflex Nut Socket	P/T	12
T-0014	Needle Point Grease Adapter	P/T	13
T-0016	Swashplate Tie-Bolt Wrench	P/T	14
T-0022	Collective Capsule Restraining Tool	P/T	15
T-0026	Main Rotor Blade Tab Bending Tool	P/T	16
T-0027	Main Rotor Blade Tab Angle Tool	P/T	17
T-0033	A Model Tail Rotor Blade Retention Nut Wrench	Р	18
T-0036	Main Rotor Grip Seal Instalation Tool	P/T	19
T-0045-1	Dog leg Puller	P/T	20
T-0048	Main Rotor Mast Nut Tool	P/T	21
T-0051-3	Main Rotor Flapping Nut Tool	P/T	22
T-0054	Swashplate Dogleg Alignment Tool	P/T	23
T-0056-3	Tail Rotor Grip Bearing Retention Nut Wrench	P/T	24
T-0057	Damper Cycle Tool	P/T	25
ASK4103-4DP	Dog Leg Bearing Swaging Kit	P/T	26
T-0086	Upper Guide Tube Retaining Nut Wrench	P/T	27
T-0087-15	Tail Rotor Assembly Balance Tool	P/T	28
T-0079-1	Uniball Swaging Tool	P/T	28.1
T-0100-1	Swashplate Bushing Installation Tool	P/T	29
T-0102-1	Upper Swashplate Guide Tube Press Tools	P/T	30
T-0104-1	Swashplate DU Bushing Installation Tool	P/T	31

T-0111-SET	Correlator Rigging Tool	Р	32
T-0113	Correlator Rigging Tool	Р	32
T-0121-1	Tail Rotor Balance Stand	P/T	33
T-0134-3	Lower Swashplate Holding Tool	P/T	34
T-0140	Tail Rotor Rigging Tool	Т	35
T-0149	Grip Seal Installation Tool	Т	36
T-0151-1	Main Rotor Flapping Bearing Installation Tool	P/T	37
	(Grease Lubracated)		
T-0152	Tail Rotor Balance Optical Sensor Fixture	P/T	38
T-0160-1	Damper Piston / Seal Tool	P/T	39
T-0161-1	U-Block Seal Installation Tool	P/T	40
T-0162-1	Main Rotor Flapping Bearing Installation Tool (oil	P/T	41
	Lubracated)		
T-0168-1	Tail Rotor Blade Assy Fixture	P/T	42
T-0174-1	Main Rotor Hub Puller	P/T	43
T-0195-1	Main Rotor Blade Tip Targets	P/T	44
T-0197-7	Socket & Adapter (Torque Multiplier)	P/T	45
T-0224	Rotor Hub Stand	P/T	46
T-1575	Swashplate Centering Tool	P/T	47
T-1656-3	Blade Weight Removal Tool	P/T	48
T-1709	Upper Swashplate Bearing Tool	P/T	49
T-1758	Upper Swashplate Clamping Tool	P/T	45
T-1775	Cyclic Centering Rigging Tool	Р	51
T-2893	Tail Rotor Teeter Bearing Tool	P/T	52
T-2896-1	Damper Bleeding Tool Set	P/T	53
T-416751-15	Cyclic Centering Tool	Т	54
NPN	MRB Static Balance Tool	P/T	55
NPN	Digital Mast Torque Multiplier	P/T	56

Sec-2 Drive Train and Powerplant

T-0017	Transmission Hoist Eye	P/T	57
T-0029-SET	Idler Pulley Installation Kit	Р	58
T-0044	Pulley Alignment Tool (For AG Pulley use T-0044-AG)	Р	59
T-0068-3	TRGB Runout Tool	P/T	60
T-0078	Engine Oil Tube Adapter Inst	Р	61

T-0088	TR Drive Shaft Alignment Tool	Р	62
T-0143-1	TR Drive Shaft Alignment Tool	Т	62
T-0092-5	Taper Pin Removal Tool	P/T	63
T-0133-1	Upper Pulley Restraining Tool	Р	64
T-0135-1-SET	Pinion Nut Wrench	P/T	65
T-0136-1	Overrunning Clutch Housing Wrench	Т	66
T-0137-1	Turbine Engine Hoist	Т	67
T-0139-1	Belt Tension Tool	Т	68
T-0141	Drive Pulley Alignment Tool	Т	69
T-0153-1	Fan Balance Bracket	Т	70
T-0154-1	Turbine Engine Dolly	Т	71
T-0156	Oil Filler Tube Adapter Wrench	Р	72
T-0164-1	Upper Pulley Restraining Tool	Т	73
T-0166-11	Oil Cooler Shaft Alignment Coupling	Т	74
T-0172-1	Double Lip Seal Tool, Install	Т	75
T-0177-11	Plenum Box FOD Covers	Т	76
T-0179	Magneto Spring Installation Tool	Р	77
T-0182-1	C-20W Engine Stand	Т	78
T-0186-1	Overrunning Clutch Bearing Press Kit	Т	79
T-0187-1	Turbine Fuel Nozzle Wrench	Т	80
T-0194-1	Bore Concentricity Indicator Tool Set (5131 & SUB)	Т	81
T-0196-1	Mast Runout Tool	P/T	82
T-0198-11	MRGB Quick Drain	P/T	83
T-0204	Fan Shroud Alignment Tool	Р	84
T-0213	MRGB Dolly	P/T	85
T-1900-1	Fan Balancing Arbor	Р	86
RBT18560	Puller, Double Lip Seal,	Т	87
NPN	Over Running Clutch Purge Tool	Р	88

Sec-3 Miscellaneous

T-0035	Oleo Holding Tool	P/T	89
T-0169-1	Oleo Disassembly Tool	P/T	90
T-0199-1	Tailcone Laser Alignment Emitter	P/T	91
T-0200-5	Tailcone Laser Alignment Target	P/T	92
T-0232-11	Turbine Fuel Probe Socket (Ahlers fuel probe)	Т	93
NPN	Maintenance Stand	P/T	94
T-3004	Tailcone Support Stand	P/T	95

Sec-1 Flight Controls and Rotor systems

TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0003	Lead Lag Nut Wrench	P/T

USAGE

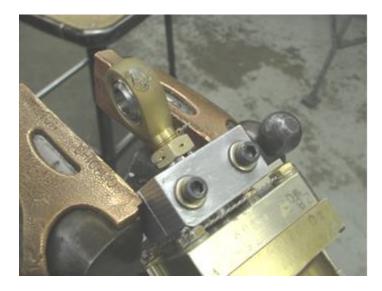
Special wrench for hub lead lag nut. Used to remove and install lead lag retention nut. NOTE Hub is pictured here up-side-down





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0005	Damper Rod End Removal Tool	P/T

Usage Special Wrench for Lead Lag Damper Shaft Use to remove the rod end from the damper.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0009	Main Rotor Blade Bolt Guide Bullet	P/T

Usage Alignment tool for Main Rotor Blade Pin Installed on main rotor blade bolt to aid in alignment while installing bolt.





TOOL NUMBER

DISCRIPTION Main Rotor Hub & A/C Sling

Usage

Tool for slinging the helicopter or hub / transmission assembly Used to sling the helicopter for working on the landing gear, and also to remove and install the hub / transmission assembly in the helicopter.

NOTE

The entire weight of the helicopter can be lifted off the ground using this method.

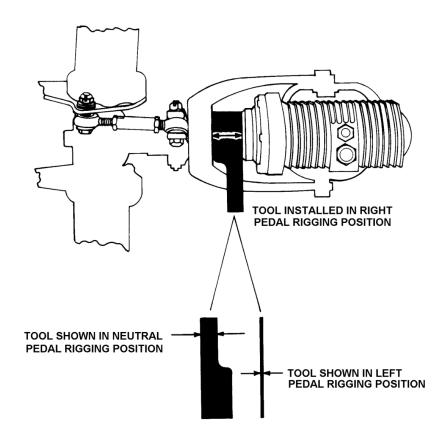




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0012	TR Rigging Tool, A & 280 Models	P (A, & 280 Models)
TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0080	Tail Rotor Rigging Tool	P
		(C, & F MODELS)
TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY

Usage Tail Rotor Control Rigging Tool Tool used to set tail rotor control rigging.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0013	Lamiflex Nut Socket	P/T (ONLY SOME EARLY 480s)

Usage Used to remove and Install Lamiflex retention nut on piston aircraft and on a few early 480 models.



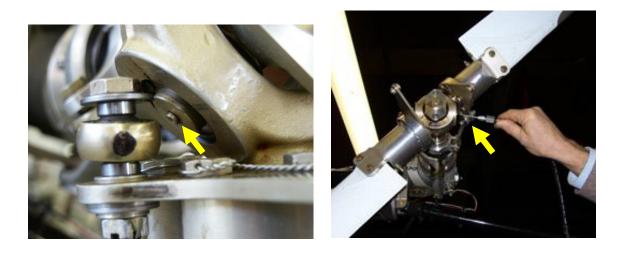


TOOL NUMBERDISCRIPTIONA/C APPLICABILITY**T-0014**Needle Point Grease AdapterP/T

Usage

Special tool for greasing TR Teeter Bearings Installs on grease gun for lubing the TR Spindle Teeter Bearings.





TOOL NUMBERDISCRIPTIONA/C APPLICABILITY**T-0016**Swashplate Tie-bolt WrenchP/T

Usage

Special Wrench for Swashplate Tie Bolt Used to hold the swashplate tie bolt for assembly and disassembly.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0022	Collective Capsule Restraining Tool	P/T

Usage

Collective Spring Capsule Restraining Tool Used to restrain the collective capsule spring pressure when removing and installing the spring capsule in the helicopter.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0026	Main Rotor Blade Tab Bending Tool	P/T

Usage

Trim Tab Adjusting Tool Used to adjust inboard and Outboard main rotor blade trim tabs when tracking blades.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0027	Main Rotor Blade Tab Angle Tool	P/T

Usage Blade Trim Tab Protractor Used to read trim tab angles.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0033	Tail Rotor Blade Retention Nut Wrench	P (A) Model
Usage		

TR Blade Bearing Retention Nut Wrench Used to remove and install the TR grip bearing retention nuts on A model 3.3 "chord blade only.



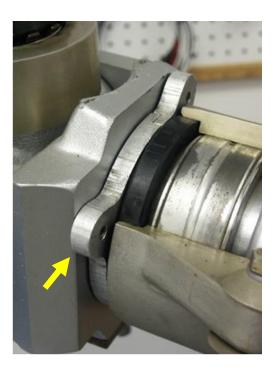


TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0036	Main Rotor Grip Seal Installation	P/T
	Tool	

Usage

Special Tool to Install Grip Seal Used to push the seal into the grip when installing the grip on the spindle.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0045-1	Dog Leg Puller	P/T

Usage Puller Tool for Main Rotor Push-Pull Control Rods Used to remove dog leg assemblies from control rods.





TOOL NUMBER **T-0048**

DISCRIPTION Main Rotor Mast Nut Tool

A/C APPLICABILITY P/T

Usage Special Wrench for Mast Nut. Used to remove and install the upper mast nut.





TOOL NUMBER

DISCRIPTION Main Rotor Flapping Nut Tool

A/C APPLICABILITY P/T

Usage

Special Wrench for Flapping Pin Nut Used to remove and install flapping pin nut.







TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0054	Swashplate Dog Leg Alignment	P/T
	Tool	

Usage

Dog Leg Alignment Tool Used to align dog legs during installation onto main rotor push-pull control rods.





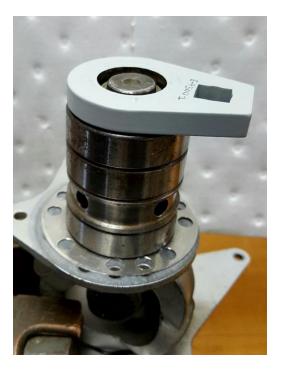
TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0056-3	Tail Rotor Grip Bearing Retention	P/T
	Nut Wrench	

Usage

Special Wrench for TR bearing retention nut Used for removal and installation of TR Grip bearings on spindle. Also used to torque tail rotor gearbox input shaft nut.







TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0057	Damper Cycling Tool	P/T
		·

Usage Special Tool to Cycle Main Rotor Lead-Lag Dampers Used to cycle dampers to bleed air following maintenance.



TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0079-1	Dog Leg Bearing Swaging	P/T
	Tools	

Usage Tools & Installing ECD030-11 Bearings.







TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0086	Upper Guide Tube Retaining Nut	P/T
	Wrench	

Usage Special Wrench for Upper Guide Tube Retention Nuts Used to remove and install nuts that secure the upper swashplate guide tubes into the upper swashplate housing.

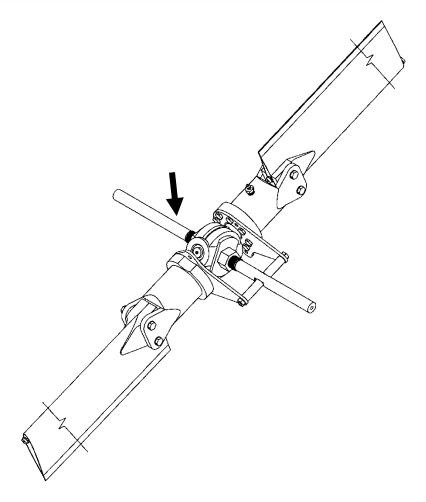




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0087-15	Tail Rotor Assy. Balance Tool	P/T

Usage Static Balance Mandrel Used for static balancing the tail rotor assembly.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0100-1	Swashplate Bushing Installation	P/T
	Tool	

Usage		
Swashplate /	Assembly Tool	
Press tool for inserting DU bearings in		
swashplate.		





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0102-1	Upper Swashplate Guide Tube	P/T
	Press Tools	

Usage Press tools for Upper Guide Tube Removal Used to press upper guide tube assembly from upper swashplate assembly.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0104-1	Swashplate DU Bushing Installation	P/T
	Tool	

Usage Swashplate Bearing Installation Alignment Tool Used for aligning and installing DU bearings in swashplate assembly.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0111-SET	Correlator Rigging Tool	P/T (C & F MODELS)
TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0113	Correlator Rigging Tools	P/T (C & F Models)

Usage	
Used to rig the corre	lator summing lever on the C and F series
	helicopters.
	ottle Stop Correlator Rigging Tool
	ottle Stop Correlator Rigging Tool position while rigging the correlator on C and



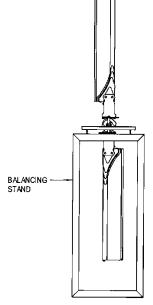




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0121-1	Tail Rotor Balance Stand	P/T

Usage Tail Rotor Balance Stand Used as a balance fixture when static balancing tail rotors.





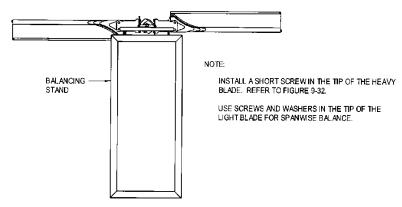
NOTE:

IF THE TRAILING EDGE OF THE BOTTOM BLADE RISES, IT IS THE LIGHT BLADE. IF THE LEADING EDGE OF THE BOTTOM BLADE RISES, IT IS THE HEAVY BLADE.

INSTALL A SHORT SCREW IN THE ROOT END OF THE HEAVY BLADE. REFER TO FIGURE 9-32.

USE SCREWS AND WASHERS IN THE ROOT END OF THE LIGHT BLADE FOR CORDWISE BALANCE.

CORDWISE BALANCING



SPANWISE BALANCING

TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0134-3	Lower Swashplate Holding Fixture	P/T

Usage Lower Swashplate Assembly Fixture Used to secure lower swashplate during assembly.





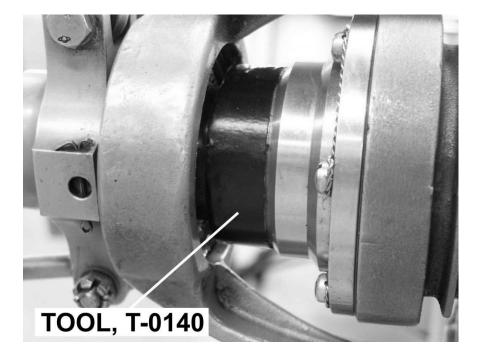
TOOL NUMBER **T-0140**

DISCRIPTION Tail Rotor Rigging Tool

A/C APPLICABILITY Т

Usage Used to hold the tail rotor pitch controls in the neutral position while adjusting cable tension.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0149	Grip Seal Installation Tool	P/T

Usage	
Tool Kit	for Installing Grip on Spindle
Used to install the grip end seal on grips with TT straps, and Grip on	
	Spindle.



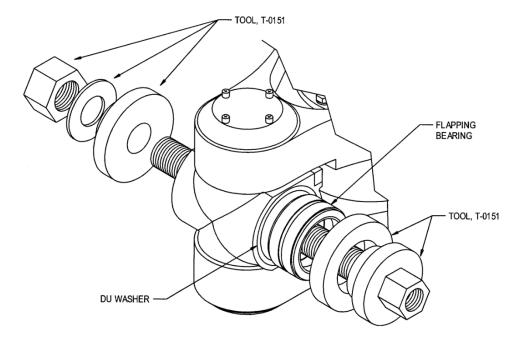




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0151-1	Main Rotor Flapping Bearing	P/T
	Installation Tool (Grease)	

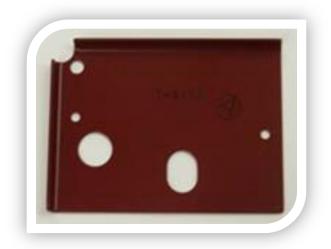
Used for removing and installing main rotor flapping bearings in hubs that have grease lubricated flapping bearings. T-0062-1 is used if the hub has oil lubricated bearings.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0152	Tail Rotor Balance Optical Sensor	P/T
	Fixture	

Attaches an Optical Sensor to the TRGB Attaches to Tail Rotor Gear Box and holds Velocimeter and optical sensor for balancing tail rotor assembly.

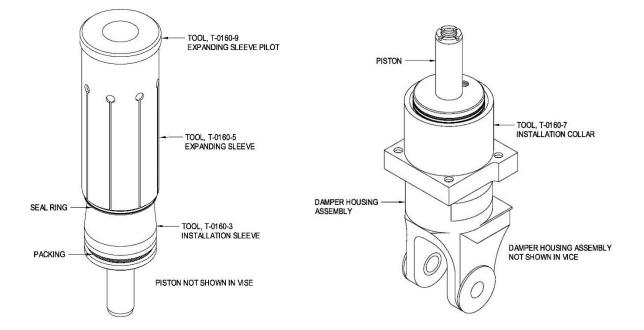




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0160-1	Damper Piston / Seal Tool	P/T

Usage Special Tool for Assembling MR Lead-Lag Dampers Used to compress the damper piston ring so that the piston can be assembled into the damper cylinder.

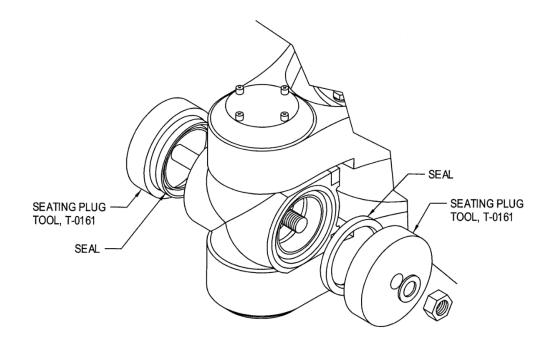




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0161-1	U-Block Seal Installation Tool	P/T

Seal installation tool Used to press flapping seals into the universal block.

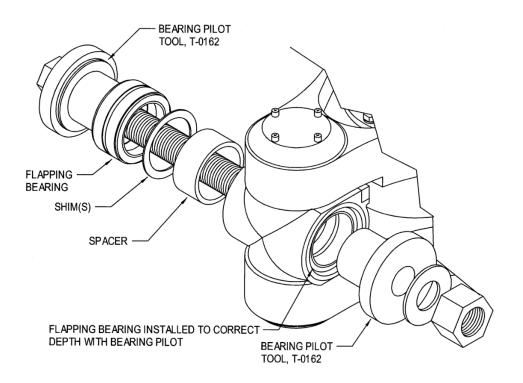




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0162-1	Main Rotor Flapping Bearing	P/T
	Installation Tool (oil)	

Flapping Bearing Removal and Installation Tool Used to press flapping bearings into and out of the universal blocks.

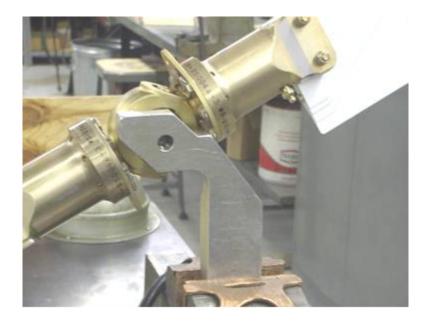




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0168-1	Tail Rotor Blade Assy. Fixture	P/T

Usage Holding fixture for TR Spindle Assembly Used to hold the tail Rotor assembly for assembly and disassembly.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0174-1	Main Rotor Hub Puller	P/T

Usage Secures to the Main Rotor hub and pulls it from the transmission shaft.





TOOL NUMBER DISCRIPTION A/C APPLICABILITY Main Rotor Blade Tip Targets P/T T-0195-1

Usage Used with a strobe light while tracking the helicopter.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0197-7	Socket & Adapter	P/T

Usage Used to loosen mast nut.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0224	Rotor Hub Stand	P/T

Usage Used to hold the assembled rotor hub when removed from the aircraft.

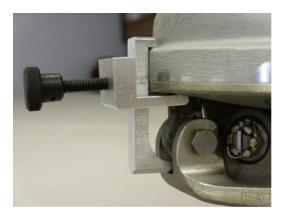


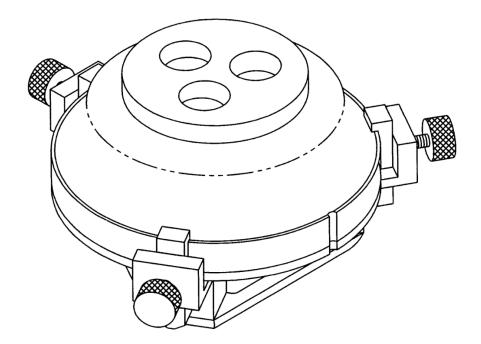


TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-1575	Swashplate Centering Tool	P/T

Usage Used to hold lower swashplate in centered position while rigging the controls.







TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-1656-3	Blade Weight Removal Tool	P/T

Usage Blade Plug Wrench Used to remove weight plugs from blade pockets.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-1709	Upper Swashplate Bearing Tool	P/T

Usage Used to support the upper swashplate bearing housing while removing and installing the bearing.

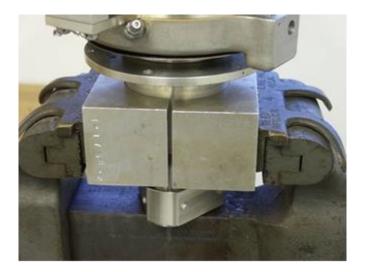




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-1758	Upper Swashplate Clamping Tool	P/T

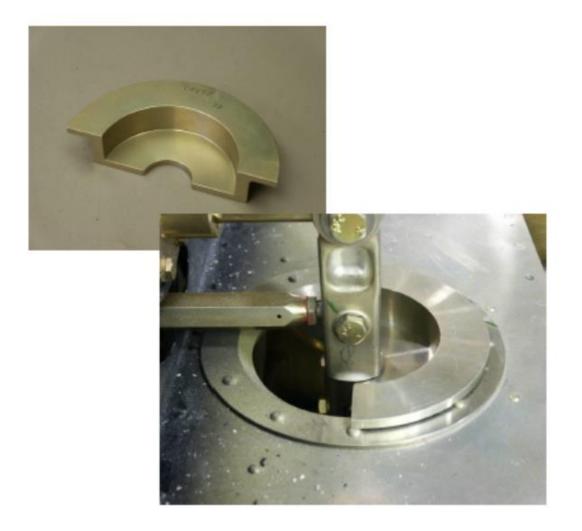
Usage Used to hold the upper swashplate assembly while performing maintenance.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-1775	Cyclic Centering Rigging Tool	Р

Usage Cyclic Centering Rigging Tool. Used to hold the cyclic in the neutral position while rigging the cyclic controls.



TOOL NUMBER T-2893

DISCRIPTION A/C APPLICABILITY Tail Rotor Teeter Bearing Tool

P/T

Usage Used to remove teeter bearings on tail rotor assembly.



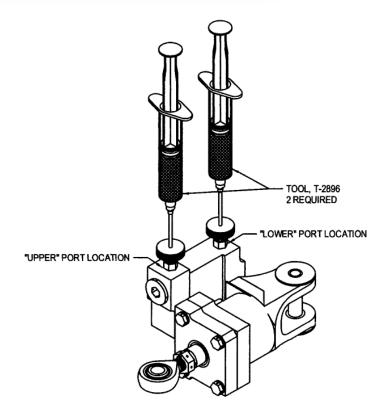




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-2896-1	Damper Bleeding Tool Set	P/T

Usage Bleeding tools for Hydraulic Main Rotor Dampers Special tools used to bleed air from hydraulic main rotor dampers.





TOOL NUMBER T-4167511-15

DISCRIPTION Cyclic Centering Tool

A/C APPLICABILITY Т

Usage 480 Cyclic Centering Rigging Tool. Used to hold the cyclic in the neutral position while rigging the cyclic controls.

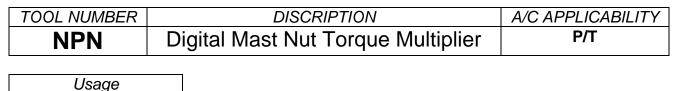




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
NPN	Main Rotor Blade Balance Tool	P/T

Usage Used to statically balance the main rotor blades.





Used to torque the mast nut



The ATP750 Wrench Sp	ecification:
ft-lbs	0 - 750
in - Ibs	0 - 9,000
N.m.	0 - 1,017
multiplier ratio	25 to 1
weight (lbs)	4.6 lbs
weight (kg)	2.1 kg
diameter	6"
height	6″
max. input required	34 ft-lbs
accuracy output	±1%
repeatability	100%
system stability	± 0.05% per °C (± 0.03% per °F)
units of measurement	ft-lbs, in-lbs, N.m., others
operating temperature	0°F to 110°F (-18°C to 43°C)
operating humidity	Up to 90%, Non-condensing

The ATP761 Kit includes:

(1) ATP750 | Digital Torque Multiplier

- (1) ATPC2010 | Digital controller (1) ATP761-BC | custom reaction stand
- (1) ATP761-DB | custom castellated socket
- (1) ATPW5 | 1/2" Swivel input ratchet
- (1) ATP-EPKG | Controller Cable
- (1) Controller A/C power cord
- (1) Fitted protective case
- (1) User manual
- (1) Calibration Certificate traceable to N.I.S.T.

The ATP750 is a compact and light weight Digital Torque Multiplier[™] designed to effortlessly deliver high torque from the palm of your hand.

860.828.1523

56 Budney Rd . Newington, CT . 06111

advancedtorque.com

Section-2 Drive Train and Powerplant

TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0017	Transmission Hoist Eye	P/T

Usage	
Main Rotor	Transmission Shaft Support Tool
Used to sling main transmission when the hub is not installed.	



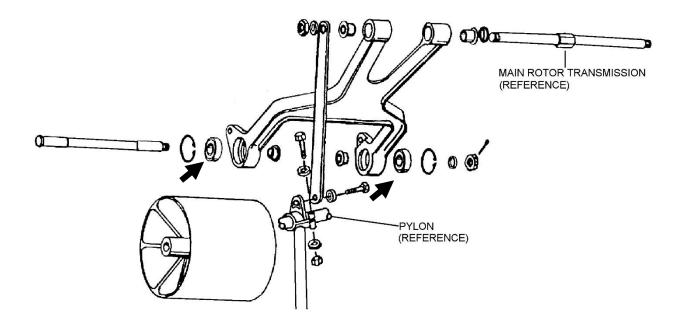


TOOL NUMBERDISCRIPTIONA/C APPLICABILITY**T-0029-SET**Idler Pulley Installation KitP

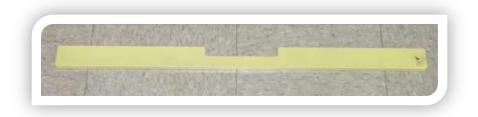
Usage

Idler Pulley Bearing Installation Tools Used to support and align the idler pulley bearings while removing and installing bearings.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0044	Pulley Alignment Tool	Р
Usage		
	Lower Pulley Alignment Tool	
Used to check a	nd adjust alignment of upper and lower pulley in	
	piston aircraft.	



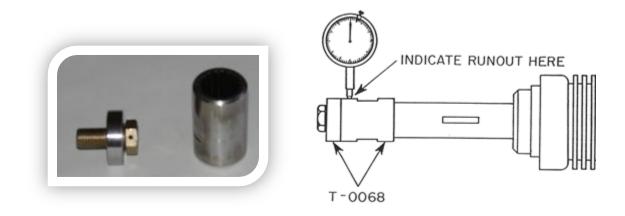


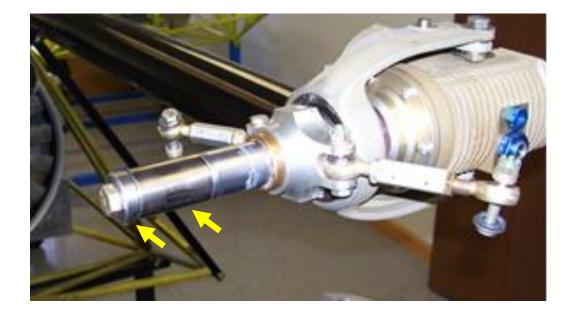
TOOL NUMBER
T-0068-3

DISCRIPTION TRGB Runout Tool

Usage

Tool for Measuring Runout on Tail Rotor Gearbox Output Shaft Used to measure runout on TRGB shaft with dial gauge.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0078	Engine Oil Tube Adapter Installation Tool	Р

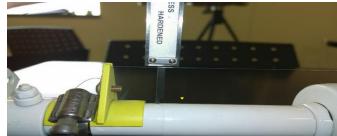
Usage Engine Oil Filler Tube Adapter Special Wrench Used to install the oil filler tube adapter into the crankcase of the Lycoming engine.

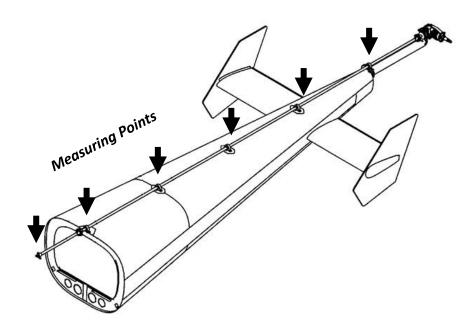




	DIOODIDTION		
TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY	
T-0088	Tail Rotor Drive Shaft Alignment	P	
	Tool		
TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY	
T-0143-1	Tail Rotor Drive Shaft Alignment	Т	
	Tool		
Usage			
Used to align tail	Used to align tail rotor drive shaft.		







TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0092-5	Taper Pin Removal Tool	P/T

Usage Used to remove taper pins from TR drive shaft without damaging them.

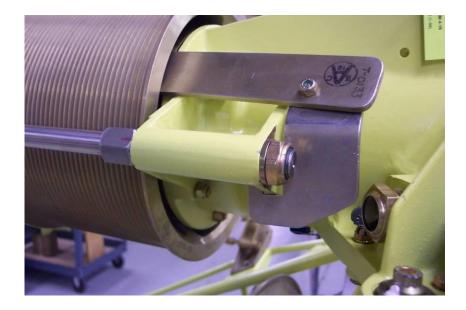




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0133-1	Upper Pulley Restraining Tool	Р

Upper Pulley Restraining Tool Used to hold the upper pulley while installing the pinion nut on piston main rotor transmission.





			NOTE
T-0135-1-SET	Pinion Nut Wrench		P/T
TOOL NUMBER	DISCRIPTION	A	/C APPLICABILITY

Usage Special Wrench for Torqueing the Main Transmission Pinion Nut Used to Torque the Main Transmission Pinion Nut.

NOTE

Includes the T-0135-13 3/4"Adapter.

Order the T-0135-11 for Crowfoot only.







TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0136-1	Overrunning Clutch Housing	Т
	Wrench	

5/16 Special Wrench Used to removing and installing overrunning clutch support bearing hardware.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0137-1	Turbine Engine Hoist	Т

Usage Engine Winch Used to remove and install the Turbine engine.







TOOL NUMBERDISCRIPTIONA/C APPLICABILITYT-0139-1Belt Tension ToolT

Usage Belt Tensiometer Used to measure the drive belt tension.

Calibrated Tool

This must be sent back to Enstrom for calibration.



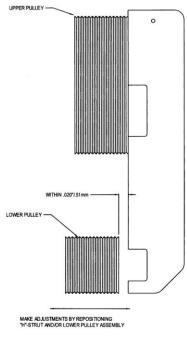


TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0141	Drive Pulley Alignment Tool	Т

Usage	

Pulley Alignment Tool Used to align the lower belt pulley.





VERTICAL ALIGNMENT



TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0153-1	Fan Balance Bracket	Р

Optical Sensor Attach Tool for Balancing Fan on Piston Helicopters Attaches to pylon aft of fan and holds optical sensor to balance engine fan assembly.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0154-1	Turbine Engine Dolly	Т

Turbine Engine Dolly Used to support engine while installing in helicopter.





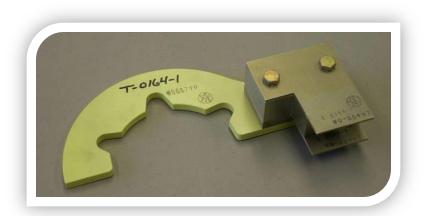
TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0156	Oil Filler Tube Adapter Wrench	Р
Usage		

Turbine Engine Dolly Used to support engine while installing in helicopter.



TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0164-1	Upper Pulley Restraining Tool	Т

Usage Special Wrench to Hold Main Rotor Transmission Pinion Shaft Used to hold the upper pulley while removing or installing the pinion nut.





T 04CC 44 Oil Cooler Sheft Alignment	
T-0166-11 Oil Cooler Shaft Alignment	Т
Coupling	

Blower Short Shaft Alignment Tool Used for holding the short shaft while aligning the engine oil cooler blower assembly.



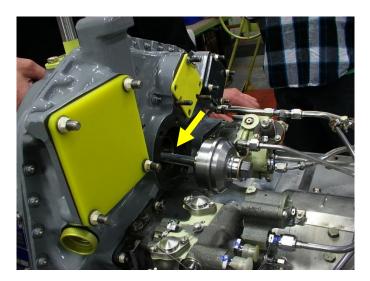


TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0172-1	Double Lip Seal Installation Tool	Т

Double Lip Seal Installation Tool Used to install Rolls Royce Double Lip seal in engine gearbox.







TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0177-11	PLENUM BOX FOD COVERS	Т

Usage Used to protected lower plenum from FOD during maintenance.



TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0179	Magneto Spring Installation Tool	Р

Usage	
Used to insert spring	s in the magneto distributer
block.	





TOOL NUMBER T-0182-1

DISCRIPTION C-20W Engine Stand

Usage Rolls Royce Engine Support Stand Used to support engine while performing maintenance.



TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0186-1	Overrunning Clutch Bearing Press	P/T
	Kit	

Usage Clutch and Internal Drive Shaft Bearing Installation Kit Used to remove & install support bearings in the overrunning clutch and internal drive shaft assemblies.





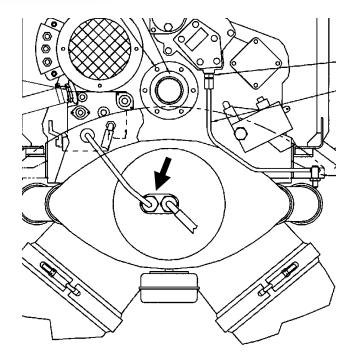




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0187-1	Turbine Fuel Nozzle Wrench	Т

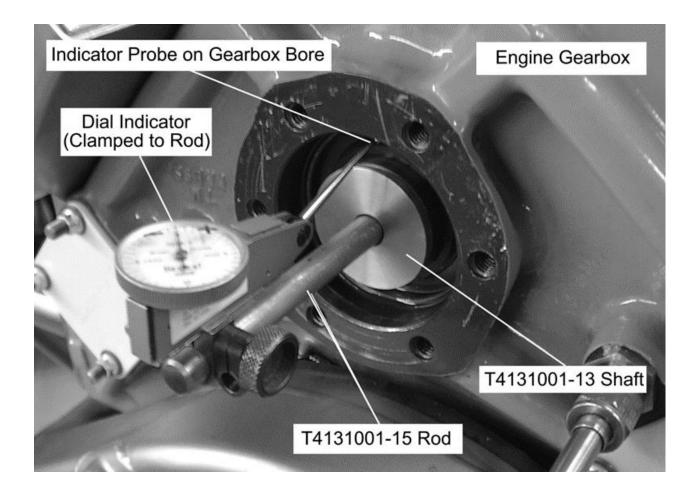
Usage Special Wrench to Remove and Install Fuel Nozzle Used to remove and install fuel nozzle from engine while the engine is installed in the helicopter.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0194-1	Bore Concentricity Tool Set	T (S/N 5131 & Subsequent)

Measure the engine/gearbox assembly PTO shaft bores with tool kit T-0194-1 (Bore Concentricity Indicator Tool Set). This kit includes P/N T4131001-7 bore measurement assembly, a dial gauge assembly, clamp assembly, and articulating arm assembly.



TOOL NUMBER	
T-0196-1	

DISCRIPTION Mast Runout Tool

Usage

Tool to Measure Runout on Main Rotor Shaft Used to support dial gauge to measure main rotor gearbox shaft runout.



T-0198-11 MRGB Quick Drain P/T (Pistons with -9 MRG	BILITY	A/C APPLICABILI	DISCRIPTION	TOOL NUMBER
		P/T (Pistons with -9 MRGB Higher. All Turbines)	MRGB Quick Drain	T-0198-11

Usage Used to drain oil from the Main Rotor Gearbox.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0204	Fan Shroud Alignment Tool	Р

Used to hold the fan shroud in the proper position while the hardware is installed. The mechanic can reach through the holes in the tool to install the inside hardware. It needs to be about 3/16 inch larger in diameter then the fan



TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0213	MRGB Dolly	P/T
		·
Usage		

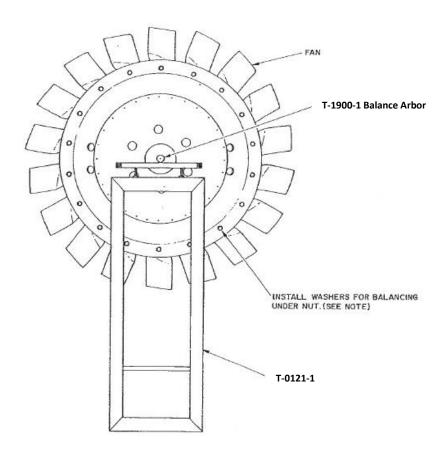
Main Rotor Gear Box Dolly Used to store and move main rotor transmissions.



TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-1900-1	Fan Balancing Arbor	Р

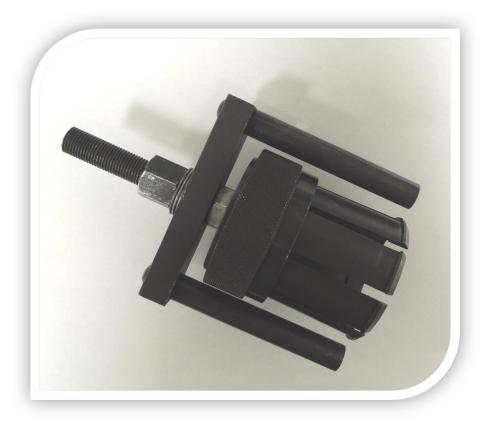
Usage Used with T-0121-1 to statically balance the cooling fan.





TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
RBT18560	Double Lip Seal Puller	Т

Double Lip Seal Puller Used to remove Double Lip seals from engine PTO bore.





Sec-3 Miscellaneous

TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
NPN	Sprag Clutch Purge Tool	Р

Usage

Used to purge sprag clutch assembly during servicing.







Use a ¼-28 right angle zerk fitting.

Unscrew the end and discard the check ball, and spring.

Turn the clutch so that one plug-bolt is at the 12 o'clock position and on is at either the 3 or 9 o'clock position.

Remove the top plug-bolt, and one of the side plug-bolts. Install the modified zerk fitting into the top hole.

Using a suitable oil pump can, or syringe, push a sufficient amount of turbine engine oil into the clutch until the oil that runs out of the side hole appears clean.

Replace the plug-bolt in the clutch assembly.

TOOL NUMBER T-0035

DISCRIPTION **Oleo Holding Tool**

A/C APPLICABILITY P/T

Usage Special Wrench for Landing Gear Oleos. Used to hold the Seal Housing Assembly while disassembling the landing gear oleos.







TOOL NUMBER T-0169-1

DISCRIPTION Oleo Disassembly Tool

A/C APPLICABILITY P/T

Usage Special Tool to Hold Landing Gear Oleo Assembly during disassembly, and assembly.





TOOL NUMBER

DISCRIPTION TC Laser Alignment Emitter

A/C APPLICABILITY P/T

Usage

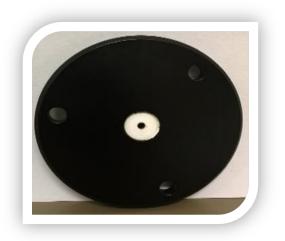
Used to align the tailcone. The tailcone alignment device. It can only be used when the main rotor gear box is installed in the aircraft.

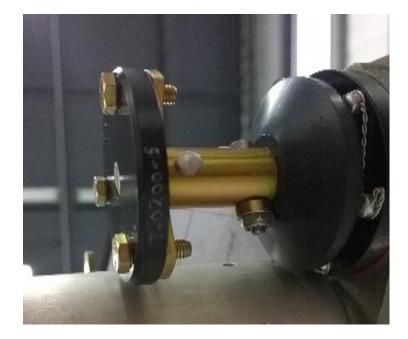




TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-0200-5	TC Laser Alignment Target	P/T

Usage Used with the T-0169-1 to align the tailcone.



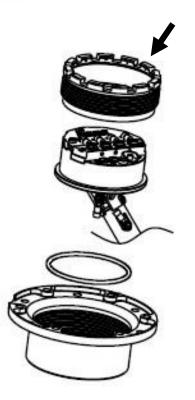


DISCRIPTION TOOL NUMBER A/C APPLICABILITY T-0232-11 **Turbine Fuel Probe Socket** Т

Usage Used for removing and installing the Ahlers fuel probe.







TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
NPN	Maintenance Stand	P/T

Usage Used to work on, and around the aircraft.



TOOL NUMBER	DISCRIPTION	A/C APPLICABILITY
T-3004	Tailcone Support Stand	P/T

Usage Used to support the tailcone during Maintenance and or Weight and balance.

