

CH-7 KOMPRESS

KIT

CONSTRUCTION

MANUAL

CH-7 HELICOPTERS HELI-SPORT SRL

Strada Traforo del Pino, 102 - 10132 Torino, ITALY

Tel. no. (+39) 011 899 6730 - Fax (+39) 011 899 5550

E-Mail: kompres@tin.it www.ch-7-helicopter.com

CH-7

HELICOPTERS

HELI-SPORT

CH- 7 KOMPRESS KIT

(Third Edition, January 2000)

TABLE OF CONTENTS

Group 01	Landing gear
Group 02	Rudder pedals
Group 03	Collective and trhottle
Group 04	Main rotor control system
Group 05	Engine and accessories
Group 06	Tail boom assembly
Group 07	Tail boom installation
Group 08	Tail rotor gear box
Group 09	Radiators
Group 10	Fuel tanks
Group 11	Fuel system
Group 12	Electric circuit
Group 13	Cabin assembly and trim
Group 14	Windshield canopy
Group 15	Main rotor blades
Group 16	Navigation instruments

GENERAL INFORMATION

It is with great pleasure that we welcome you to the world of the CH-7 Kompress and let us congratulate for the choice you have done.

The CH-7 Kompress has been designed as a recreational aircraft for personal use. Reliable for quality and safety, it is easy to fly and to maintain.

This is not just an ordinary assembly kit, but a tool of education to get familiar with procedures and techniques adopted in carrying out a real helicopter. Presumption allowed, we believe our product open a new chapter of the rotary wing history, able furthermore to influence construction trend of great helicopters in the future.

Kit and illustrative material here enclosed have been prepared to assist you along assembling your CH-7 Kompress. We are sure you will enjoy the time spent for construction as well as many years of outstanding performances.

PLEASE READ THE WHOLE CONSTRUCTION MANUAL CAREFULLY BEFORE BEGINNING!

This will allow you to get a better knowledge of those procedures you are supposed to accomplish, avoiding any possible costly mistakes.

Caution: prevent any variations on your own initiative while assembling CH-7 Kompress. Reliability of the aircraft could be compromised and reduced.

If you should require more detailed information to carry on in assembly the aircraft, please contact your area dealer or directly CH-7 Heli-Sport.

A proper assembly of your CH-7 Kompress will give you many years of flying pleasure.

CH-7 Heli-Sport is going continually to revise and update this manual informing you of any eventual variations, replacements or repairs that may be accomplished. Therefore we would be grateful if you could let us know about any address changes or in case of sale to outside parties, the address of the new owner.

Reports and pictures concerning your experience with CH-7 Kompress are welcome.

CH-7

HELICOPTERS

HELI-SPORT

Welcome to CH-7 Kompress world!!!

You are a new customer and we would like you to please fill out this form and return it to us.

Thank you for your time and cooperation. It will be greatly appreciated.

HAPPY FLIGHT!!!

KIT NUMBER_____

KIT OWNER NAME_____

SHIPPING ADDRESS_____

MAILING ADDRESS_____

CITY AND AREA CODE_____

COUNTRY_____

HOME PHONE_____

WORK PHONE_____

NOTES AND COMMENTS:

Please return to CH-7 Heli-Sport Srl, Strada Traforo del Pino 102 - 10132 Torino, Italy

Updated 29 May 2000

GROUP 01

LANDING GEAR

CODE	Q.TY	DESCRIPTION
CH700000K	1	Airframe
CH7008001	2	Skid
CH7008002	2	Front undercarriage right + left
CH7008003	2	Rear undercarriage right + left
CH7008004	2	Ground handling wheel connection
CH7008006	2	Gear connection coupling pipe
CH7008007	4	Skid cap
PLX117	2	Ground handling wheel
CH7008008	2	Handling wheel pivot

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GROUP 01

LANDING GEAR ASSEMBLY

BAG	IVENTORY		OPERATION
	N.	CODE	
CL01	2	AN3-17A	Step 1 e 1/2 Landing gear assembly
	2	MS21083-N3	
CL02	8	AN3-17A	Step 2 Skids to landing gear
	8	MS21083-N3	
	8	AN960-10L	
CL03	4	AN3-17A	Step 4 Ground handling wheels connections
	4	MS21083-N3	

CL04	4	AN4-25A	Fase 5 Landing gear to airframe
	4	AN365-428A	
	8	AN960-PD416	

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GROUP 1

LANDING GEAR

Group 01 provides all elements requested for the assembly of landing gear and its connection to the helicopter airframe.





GROUP 02**TAIL ROTOR PEDALS**

CODE	Q.TY	DESCRIPTION
CH7009001K	1	Upper tail rotor control rod transmission rocker lever
CH7009002	1	Lower tail rotor control rod transmission rocker lever
CH7009002K	1	Lateral rocker
CH7009003	1	Pedals pin
CH7009004	4	Bushing on pedals
CH7009006	1	Pedals rest
CH7009007	1	Pedals rocker lever
CH7009010	2	Pedal right + left
CH7009011/A	1	Primary tail rotor control rod 1586 mm.
CH7009011/BK	1	Secondary tail rotor control rod 348,5 mm.
Ch7009011/CK	1	Lateral tail rotor control rod 243 mm.
CH7015001/A	1	Guide block of tail rotor control rod
CH7015001/B	1	Guide block of tail rotor control rod
CH7020800K	1	Tail rotor control rod
CH7112400/A	2	Pedals - Rocker lever control rod adjuster
PLX005	2	Bushing

1.2**GROUP 02****RUDDER PEDALS**

BAG	INVENTORY		OPERATION
	N.	CODE	
PD01	2	AN4H-3A	Step 1 Pedals to the airframe
	2	AN960-PD416L	
	4	AN960-816	
	1	AN960-816L	

PD02	<table><tr><td>1</td><td>AN3-7A</td></tr><tr><td>2</td><td>AN960-PD10L</td></tr><tr><td>1</td><td>MS21083-N3</td></tr><tr><td colspan="2"></td></tr></table>	1	AN3-7A	2	AN960-PD10L	1	MS21083-N3			Step 2 Pedals pin to the airframe				
1	AN3-7A													
2	AN960-PD10L													
1	MS21083-N3													
PD03	<table><tr><td>1</td><td>AN4-10A</td></tr><tr><td>1</td><td>AN960-PD416L</td></tr><tr><td colspan="2"></td></tr></table>	1	AN4-10A	1	AN960-PD416L			Step 4 Rocker lever assembly						
1	AN4-10A													
1	AN960-PD416L													
PD04	<table><tr><td>2</td><td>Galvanized nut (6x30)</td></tr><tr><td>2</td><td>Selflocking (M6)</td></tr><tr><td colspan="2"></td></tr></table>	2	Galvanized nut (6x30)	2	Selflocking (M6)			Step 3 Rocker lever limit stop assembly						
2	Galvanized nut (6x30)													
2	Selflocking (M6)													
PD05	<table><tr><td>2</td><td>uniball HM4</td></tr><tr><td>2</td><td>uniball HML4</td></tr><tr><td>2</td><td>MS21042-4</td></tr><tr><td>2</td><td>MS1042-4L</td></tr><tr><td colspan="2"></td></tr></table>	2	uniball HM4	2	uniball HML4	2	MS21042-4	2	MS1042-4L			Step 5 Pedals to rocker lever CH7112400 - small rod		
2	uniball HM4													
2	uniball HML4													
2	MS21042-4													
2	MS1042-4L													
PD06	<table><tr><td>2</td><td>AN4-16A</td></tr><tr><td>2</td><td>AN364-428A</td></tr><tr><td>2</td><td>ART 4W convex</td></tr><tr><td>2</td><td>AN960-416L</td></tr><tr><td>2</td><td>AN960-PD416</td></tr><tr><td colspan="2"></td></tr></table>	2	AN4-16A	2	AN364-428A	2	ART 4W convex	2	AN960-416L	2	AN960-PD416			Step 6/1 Control rod installation to pedals
2	AN4-16A													
2	AN364-428A													
2	ART 4W convex													
2	AN960-416L													
2	AN960-PD416													
PD07	<table><tr><td>2</td><td>AN4-10A</td></tr><tr><td>2</td><td>AN364-428A</td></tr><tr><td>2</td><td>ART 4W convex</td></tr><tr><td>4</td><td>AN960-416L</td></tr><tr><td colspan="2"></td></tr></table>	2	AN4-10A	2	AN364-428A	2	ART 4W convex	4	AN960-416L			Step 6/2 Control rod installation to rocker lever		
2	AN4-10A													
2	AN364-428A													
2	ART 4W convex													
4	AN960-416L													
PD08	<table><tr><td>3</td><td>MS21042-4</td></tr><tr><td>3</td><td>MS21042-4L</td></tr><tr><td>3</td><td>HM4</td></tr><tr><td>3</td><td>HML4</td></tr><tr><td colspan="2"></td></tr></table>	3	MS21042-4	3	MS21042-4L	3	HM4	3	HML4			Step 7 Assembly of primary, secondary and lateral tail rotor control rods		
3	MS21042-4													
3	MS21042-4L													
3	HM4													
3	HML4													
PD09	<table><tr><td>2</td><td>AN3-17A</td></tr><tr><td>4</td><td>AN960-PD10</td></tr><tr><td>2</td><td>MS21083-N3</td></tr><tr><td colspan="2"></td></tr></table>	2	AN3-17A	4	AN960-PD10	2	MS21083-N3			Step 8 Assembly of guide blocks of tail rotor control rod				
2	AN3-17A													
4	AN960-PD10													
2	MS21083-N3													

PD010	1	AN4-13A	Step 11 Secondary tail rotor control rod installation to lower transmission rocker lever
	1	AN364-428A	
	1	ART 4W convex	
	2	AN960-PD416	
	2	PLX013	
PD011	1	AN4-13A	Step 12 Assembly of lower transmission rocker lever
	1	AN364-428A	
	5	AN960-PD416	
PD012	1	AN4-13A	Step 13 Assembly of upper transmission rocker lever
	4	AN960-PD416	
	1	AN364-428A	
PD013	1	AN4-7A	Step 9 Primary tail rotor control rod with pedals
	1	AN364-428A	
	2	AN960-PD416	
PD014	1	AN4-10A	Step 10 Primary tail rotor control rod with lower rocker lever
	1	AN364-428A	
	2	AN960-PD416	
	1	ART 4W convex	
PD015	1	AN4-17A	Step 14 Secondary tail rotor control rod with lateral rocker lever
	1	AN364-428A	
	1	ART 4W convex	
	2	AN960-PD416	
	4	PLX013	
PD16	1	AN4-14A	Step 14 bis Tail rotor transmission control rod to upper rocker lever
	2	AN960-PD416	
	1	AN364-428A	
	1	ART 4W Convex	
	2	PLX013	

GROUP 2

TAIL ROTOR PEDALS

Group 02 provides all elements requested for the assembly of rudder pedals and all tail rotor transmission rods.





GROUP 03**COLLECTIVE AND THROTTLE**

CODE	Q.TY	DESCRIPTION
CH7007001K	1	Collective tube
CH7007002	1	Throttle locking hinge
CH7007003	1	Throttle locking
CH7007004	1	Throttle compensator spring
CH7007006	2	Throttle transmission arm
CH7007008	1	Throttle lever locking ring
CH7007009	1	Throttle locking friction ring
CH7007010	1	Friction thrust ring
CH7007011K	1	Throttle lever
CH7007012	1	Throttle lever and cap
CH7007013	2	Throttle opening rod guida bushing
CH7007014	1	Compensator stem
CH7007015	1	Compensator shell
CH7007016	4 + 1	Spacer for adjustment of compensator attachment arm
CH7007017	2	Locking ring of the attachment arms
CH7007018	1	Throttle transmission pin
CH7007020K	1	Throttle control rod
CH7007021	1 + 1	Throttle cable sheating blocks
CH7007022	1	Compensator closing ring nut
CH7007024	1	Throttle transmission sleeve inner spacer
CH7007025	1	Throttle transmission pin washer
CH7007027	1	Collective locking lever
CH7007113100A	1	Spacer for collective adjustment slot hinge
CH7007031	1	Collective - cyclic attachment sleeve inner spacer
CH7007035	1	Pin of the collective adjustment slot
CH7007036	1	Washer for pin of the collective adjustment slot
CH7110500/CO	2	Spring holder washer
CH7110700/CO	2	Fiber washer
CH7111800K	1	Collective - throttle register slot

CH7112200	1	Collective rest
CH7112500/CO	1	Friction washer
PLX051	1	Throttle latex handgrip

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GROUP 03**COLLECTIVE AND THROTTLE**

BAG	IVENTORY		OPERATION
	N.	CODE	
CM01	2	PLX002 Bearings	Step 1
			Roller bearings on throttle transmission sleeve
CM02	2	PLX003 Bearings	Step 2
			Roller bearings on collective-cyclic attachment sleeve
CM03	1	Thrust ring pin PLX007	Step 4
			Throttle lever assembly
CM04	1	PLX008 Pin	Step 4
	3	PLX009 Screw	Throttle lever end cap assembly
CM05	2	AN-H3A	Step 5
	2	AN960-PD10L	Throttle transmission assembly
CM06	1	PLX010 Nut	Step 6
			Compensator assembly
CM07	2	PLX011 (HM3)	Step 7
	2	MS21042-3	Uniball on compensator

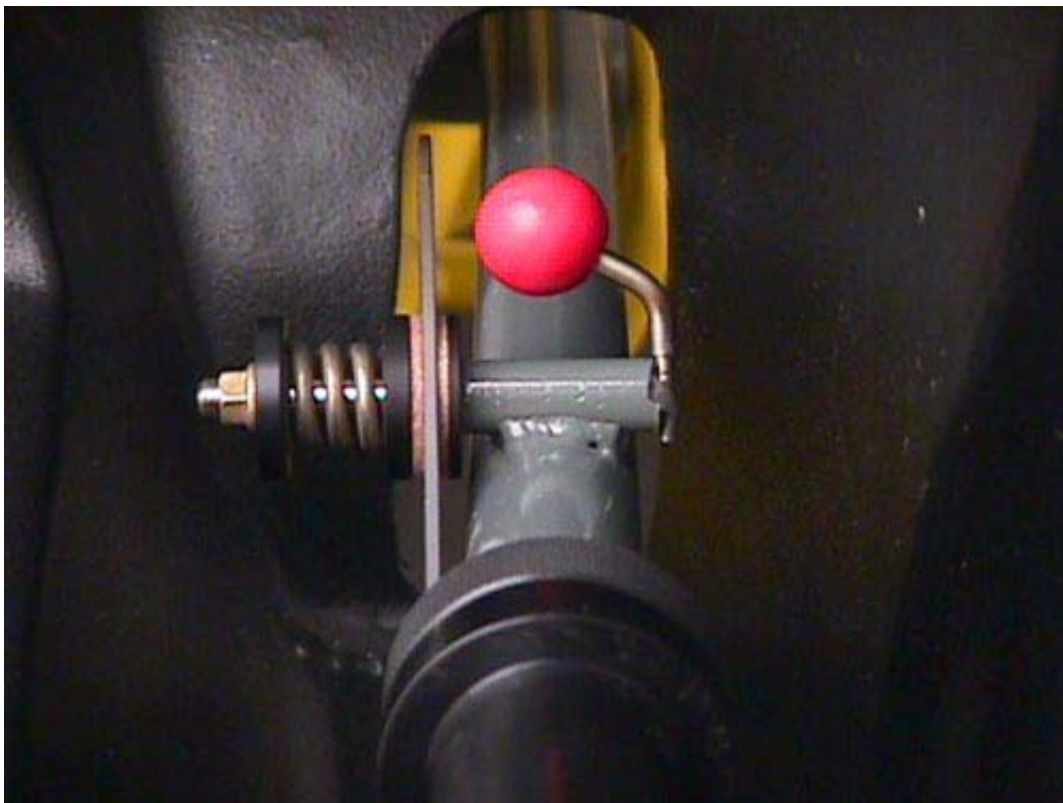
CM08	1	AN3-7A	Step 8 Compensator on throttle lever
	1	AN960-PD10L	
	1	MS21083-N3	
	1	AN960-PD10	
CM09	1	NAS 1351-314P	Step 9 Compensator on throttle transmission arm
	1	AN960-PD10L	
	1	MS21083-N3	
	1	AN960-PD10	
CM10	1	MS21042-4	Step 11 Collective register assembly
CM11	2	21/5587516	Step 12 - 13 Collective and throttle lever on the airframe (external - internal)
	1	AN960-516	
	2	PLX004 Bushings	
CM12	4	AN960-PD10L	Step 14 Installation of collective rest to the airframe
	2	MS21083-N3	
	2	NAS1351-312P	
	3	PLX001	
CM13	2	MS21083-N3	Step 10 Assembly of simultaneous carburetor control system block
	4	AN960-PD10L	
	1	AN3-6A	
CM14	2	AN3-10A	Step 15 Assembly of throttle cable sheath blocks
	4	AN960-PD10L	
	2	MS21083-N3	
CM15	1	AN4-30A	Step 16 Collective-throttle register slot on the airframe
	1	AN960-PD416	
	1	AN365-428A	

GROUP 3

COLLECTIVE AND THROTTLE

Group 03 provides all elements requested for the assembly of collective and throttle controls.





GROUP 04**MAIN ROTOR CONTROL SYSTEM**

CODE	Q.TY	DESCRIPTION
CH7110220	3	Cyclic control rod
CH7110420	1	Primary cyclic control rod
CH7110500	2	Spring holding ring
CH7110600	2	Friction register ring nut
CH7110700	4	Fiber friction
CH7110800	2	Friction spring
CH7111000	1	Slotted plate for lateral friction of the cyclic lever
CH7111300	1	Basic sleeve of the cyclic control lever
CH7111500	2	Cyclic control lever plate
CH7111910	1	Central sleeve of cyclic control lever
CH7112000	2	Spacer
CH7112100	1	Coupling fork
CH7112300	2	Cyclic control transmission square
CH7112500	2	Friction ring
CH7112700	1	Slotted plate for longitudinal friction of the cyclic lever
CH7113100/A	1	Hinge pin for longitudinal adjustment of the cyclic control
CH7113100/B	2	Limit stop ring of lateral adjustment hinge of the cyclic control
CH7113200	1	Friction register rest pin
CH7113400	1	Cyclic control
CH7113500	6	Spacer for central control sleeve plates
CH7113900	1	Hinge pin for lateral adjustment of the cyclic control
CH7114000	1	Limit stop spacer for the collective-cyclic joint fork
CH7114100	1	Guide bushing for collective cyclic joint pin
CH7112400/B	1	Tension link rod register of oscillating plate
CH7061800K3	4	Mast rest shimer to the airframe
CH7061900	4	Mast junction bushing to the airframe
PLX013	16	Conic washer for uniball diameter 6,4 mm.
PLX100K	2	Baldes
KOMPRESS 2001	1	Mast

GROUP 04**MAIN ROTOR CONTROL SYSTEM**

BAG	INVENTORY		OPERATION
	N.	CODE	
RP01	4	ART4EW	Step 1 Uniballs on cyclic control rods
	4	ARTL4EW	
	4	NAS509-5	
	4	NAS509-L5	
	8	NAS513-5	
RP02	4	PLX003 Bearings	Step 2 Bearings assembly on central sleeve of cyclic control lever
RP03	1	AN4-13A	Step 18 Installation of cyclic pitch central sleeve to the airframe and installation of cyclic pitch lever
	1	AN364-428A	
	2	AN960-PD416L	
RP04	4	AN960-PD416L	Step 3 Cyclic lever plate to central control sleeve
	2	AN960-PD416	
	1	AN4-20A	
	1	AN364-428A	
RP05	1	AN960-PD416L	Step 4 Central sleeve of cyclic control lever to cyclic control lever
	1	AN364-428A	
RP05bis	1	AN4-22A	Step 4 Central sleeve of cyclic control lever to cyclic control lever
	2	AN960-PD416L	
	1	AN364-428A	

RP06	1	AN4-22A	Step 5 Cyclic control lever plate to primary cyclic control rod front side
	2	AN960-PD416L	
	1	AN364-428A	
RP07	1	MS21042-4	Step 6 Installation of cyclic pitch side friction
RP08	1	MS21042-4	Step 7 Cyclic control longitudinal friction assembly
RP09	1	AN4-17A	Step 8 Coupling fork on central sleeve of cyclic control lever
	1	AN364-428A	
	2	WASHER PLX012	
	1	PLX052 Uniball ARTY4E	
	1	PLX053 MS21083-N6	
RP10	1	AN4-22A	Step 9 Cyclic control transmission square on central sleeve of cyclic control lever
	4	AN960-PD416L	
	2	AN960-PD416	
	1	AN364-428A	
RP11	1	AN4-22A	Step 10 Primary cyclic control rod assembly-rear side
	2	AN960-PD416L	
	1	AN364-428A	
RP12	1	AN4-22A	Step 11 Coupling fork to collective
	1	AN364-428A	
	2	AN960-PD416L	
RP13	1	AN364-524A	Step 17 Front rest uniball on central sleeve of cyclic control lever
	1	ART5 EW UNIBALL	
RP14	1	AN5-7A	Step 18 Central sleeve of cyclic control lever to airframe
	2	AN960-PD516	

RP15	<table><tr><td>2</td><td>AN960-PD416L</td></tr><tr><td>1</td><td>AN4-22A</td></tr><tr><td>1</td><td>AN364-428A</td></tr></table>	2	AN960-PD416L	1	AN4-22A	1	AN364-428A	Step12 Rear cyclic control rod assembly				
2	AN960-PD416L											
1	AN4-22A											
1	AN364-428A											
RP16	<table><tr><td>1</td><td>AN4-15A</td></tr><tr><td>2</td><td>AN960-PD416L</td></tr><tr><td>1</td><td>ART 4W CONVEX</td></tr><tr><td>1</td><td>AN364-428A</td></tr></table>	1	AN4-15A	2	AN960-PD416L	1	ART 4W CONVEX	1	AN364-428A	Step 13 Central control rods to right arm of central cyclic control lever		
1	AN4-15A											
2	AN960-PD416L											
1	ART 4W CONVEX											
1	AN364-428A											
RP17	<table><tr><td>1</td><td>AN4-15A</td></tr><tr><td>2</td><td>AN960-PD416L</td></tr><tr><td>1</td><td>ART 4W CONVEX</td></tr><tr><td>1</td><td>AN364-428A</td></tr></table>	1	AN4-15A	2	AN960-PD416L	1	ART 4W CONVEX	1	AN364-428A	Step 14 Lateral control rod to left arm of central sleeve, cyclic control lever		
1	AN4-15A											
2	AN960-PD416L											
1	ART 4W CONVEX											
1	AN364-428A											
RP18	<table><tr><td>1</td><td>AN4H-6A</td></tr><tr><td>1</td><td>MS21042-4</td></tr></table>	1	AN4H-6A	1	MS21042-4	Step 15 Plate for lateral friction of cyclic lever to airframe						
1	AN4H-6A											
1	MS21042-4											
RP19	<table><tr><td>1</td><td>AN4-23A</td></tr><tr><td>1</td><td>AN364-428A</td></tr><tr><td>1</td><td>AN960-PD416L</td></tr></table>	1	AN4-23A	1	AN364-428A	1	AN960-PD416L	Step 16 Plate for longitudinal friction of cyclic lever to airframe				
1	AN4-23A											
1	AN364-428A											
1	AN960-PD416L											
RP19bis	<table><tr><td>1</td><td>NAS509-5</td></tr><tr><td>1</td><td>NAS509-L5</td></tr><tr><td>1</td><td>ART 4EW</td></tr><tr><td>1</td><td>ARTL 4EW</td></tr></table>	1	NAS509-5	1	NAS509-L5	1	ART 4EW	1	ARTL 4EW	Step 19 Installation of oscillating plate tightener link rod		
1	NAS509-5											
1	NAS509-L5											
1	ART 4EW											
1	ARTL 4EW											
RP20	<table><tr><td>1</td><td>AN4-23A</td></tr><tr><td>1</td><td>AN364-428A</td></tr><tr><td>1</td><td>ART 4W CONVEX</td></tr><tr><td>1</td><td>AN960-PD416</td></tr><tr><td>1</td><td>AN960-PD416L</td></tr></table>	1	AN4-23A	1	AN364-428A	1	ART 4W CONVEX	1	AN960-PD416	1	AN960-PD416L	Step 20 Oscillating plate tightener assembly
1	AN4-23A											
1	AN364-428A											
1	ART 4W CONVEX											
1	AN960-PD416											
1	AN960-PD416L											

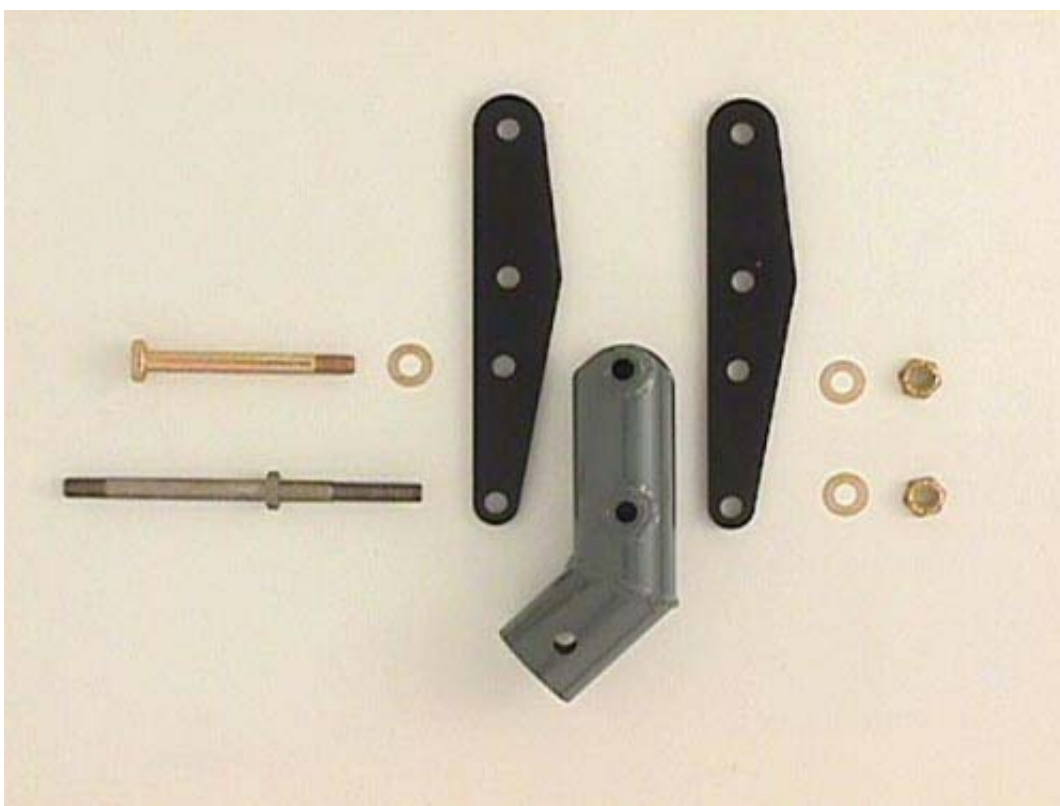
RP21	8	Conical washer PLX013	Step 23 Installation of control rods to oscillating plate
	3	Convex washer ART4W	
	3	Washer AN960- PD416	
	3	Washer AN960-10L	
	3	Nut AN364-428A	
	1	Shim CH7015005	

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GROUP 4

MAIN ROTOR CONTROL SYSTEM

Group 04 provides all elements requested for the assembly of cyclic control.





GROUP 05**ENGINE AND ACCESSORIES**

CODE	Q.TY	DESCRIPTION
CH7011010K	1	Frontal support
CH7011012K	2	Front tie rod
CH7011013K	2	Rear tie rod
CH7011014	16	Elastic conic element
CH7011015K	8	Elastic conic element bushing
CH7011018K	1	Rear engine mount
CH7015018K	1	Engine holding square + silent block
CH7006003K	1	Pulley
PLX025K	1	Belt 4/5 VX 530
PLX160	1	Air cables + Long junction block
CH4800000	2	
PLX161	2	
PLX162	2	Muffler support spacer
PLX163	1	Reducer box plug + 4 screws 6 x 10 MA
PLX164	1	Belt tightener
PLX168	2	L connectors for engine oil
PLX130	40 cm	Small Aluminium fabric
PLX164B	1	
PLX165	1	Engine oil rubber holder reducer
PLX166	1	Oil pressure Wye connector
PLX167	1	Oil pressure sensor
PLX4100	1	Set tubes for engine + hose clamp diam. 6
CH73800	1	Clutch
CH7006027k	1	
PLX4000	1	Kit damper

GROUP 05**ENGINE AND ACCESSORIES**

BAG	I VENTORY		OPERATION
	N.	CODE	
MAK1	2	screw M6-60	Step 6 Connection of front engine support to the engine
	2	screw M10-35	
	2	screw M8-80	
MAK2	1	screw M8-35	Step 6 Connection of rear engine support to the engine
	1	screw M10-35	
	2	washers 10-16	
MAK3	8	(W) MS21083-N6	Step 7
			Tie rods
MAK4	2	MS-21044N6	Step 7 Connection of front engine support to airframe tie rods
	8	AN970-6 washers	
	4	MS21083-N6	
	4	NAS 509-6	
	4	AN960PD716	
	3	springs CH7007004	
	4	thick washers 10X40	
MAK5	2	AN4-H3A	Step 7
	2	washers 6X18	Silent block anchorage to the airframe
MAK6	8	AN970-6 washers	Step 7 Connection of rear engine support to tie rods and to the airframe
	4	MS21083-N6	

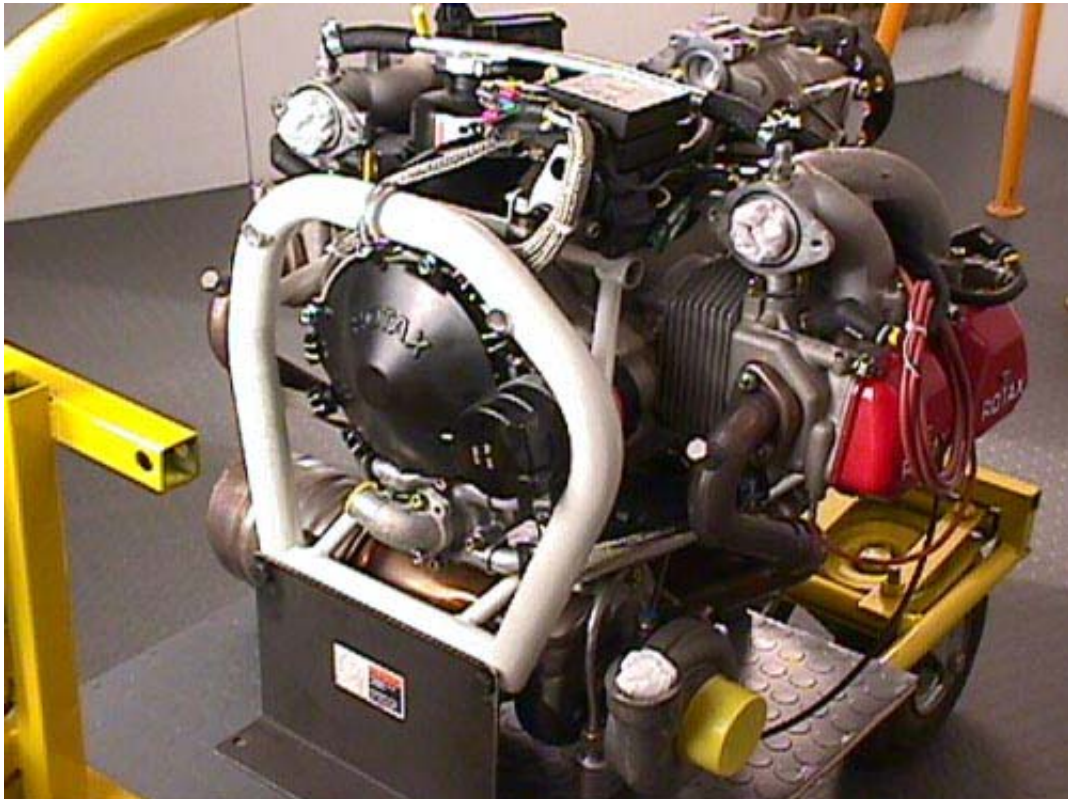
MAK7	1	AN4-26A	Step 16 Alternator installation
	1	6X30	
	1	nut 6 MA	
	3	AN970-3	
	4	screws 6 x 10 MA	
	1	MS21083-N4	

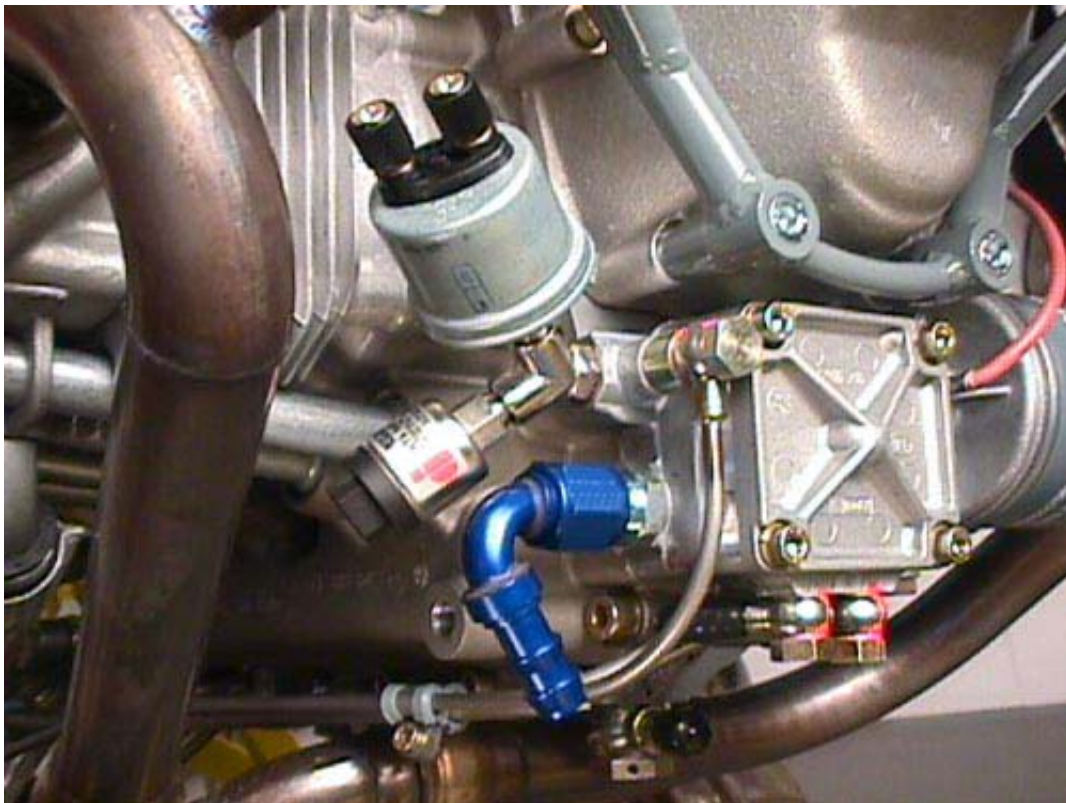
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GROUP 5

ENGINE AND ACCESSORIES

Group 05 provides all elements requested for the assembly of powerplant and accessories.





GROUP 06**TAIL BOOM ASSEMBLY**

CODE	Q.TY	DESCRIPTION
CH7016003K	1	Strut rest saddle
CH7020000K	1	Tail boom tube
CH7020400	1	Front plug of the tail boom tube
CH7021000	1	Rear plug of the tail boom tube
CH7021200	1	Front roller bearing rest
CH7021300	2	Teflon guide of the tail rotor control rod
CH7021400	1	Teflon sheath of the tail boom tube rear plug
CH7021500	1	Rear roller bearing rest
CH7021500K	1	Rear adapter ring
CH7021200K	1	Front adapter ring
CH7070200K	1	Empennage collar

1.2**GROUP 06****TAIL BOOM ASSEMBLY**

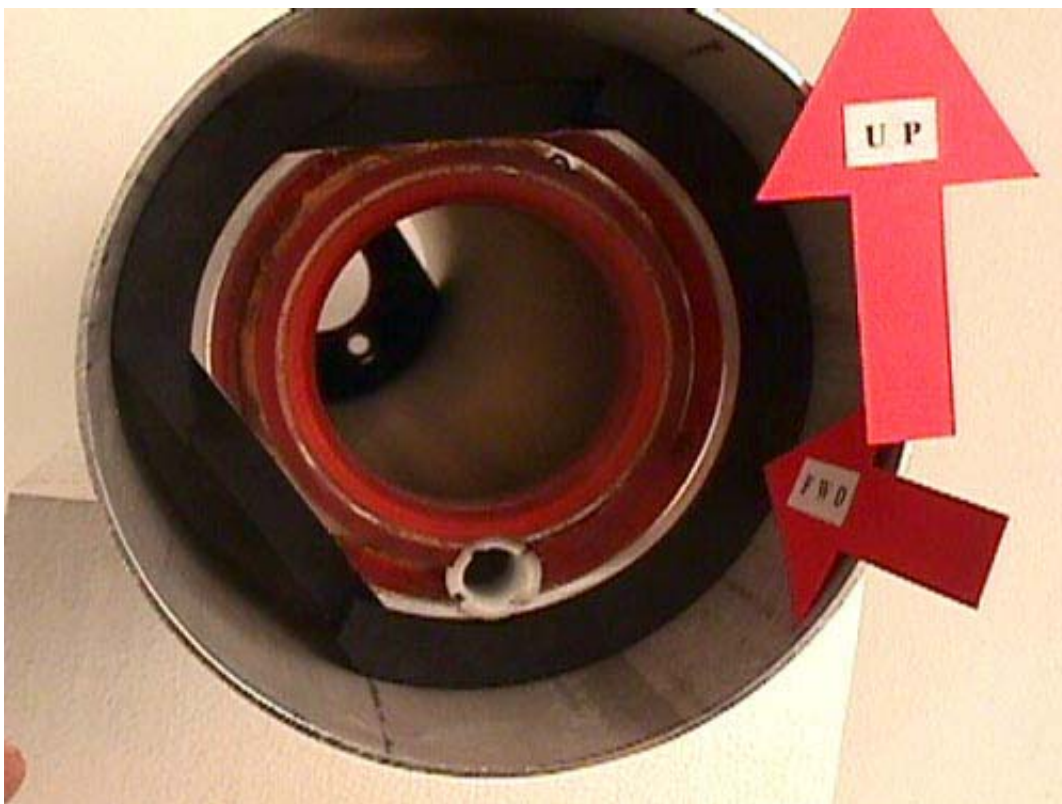
BAG	INVENTORY		OPERATION
	N.	CODE	
ATC01	6	AN526-1032R8	Step 2
			Bearing rests assembly
ATC02	2	AN4-21A	Step 3
	4	AN960-PD416	Fixing of empennage collar
	2	AN364-428A	

ATC03	6	AN3H-3A	Step 4 Tail boom rear plug
	6	AN960-10L	
ATC04	7	AN3H-3A	Step 6 Tail boom front plug
	7	AN960-10L	
ATC05	2	AN4-15A	Step 7 Strut rest saddle to tail boom
	4	AN960-416	
	2	AN365-428A	
ATC06	8	ANH3-3A	Step 1 bis Union from adapter ring and roller bearing rest
	8	AN960-10L	

1.3

GROUP 06**TAIL BOOM ASSEMBLY**

Group 06 provides all elements requested for the assembly of tail boom.





GROUP 07**TAIL BOOM INSTALLATION**

CODE	Q.TY	DESCRIPTION
CH7016001	2	Tail boom strut
CH7016002	4	Strut attachment spacer
CH7021800	1	Twist resistant arm

1.2

GROUP 07**TAIL BOOM INSTALLATION**

BAG	INVENTORY		OPERATION
	N.	CODE	
TC01	2	AN4-11A	Step 1 and 2 Right and left strut to airframe
	4	AN960-PD416	
	2	MS21044-N4	
TC02	1	AN960-PD516	Step 3 Tail boom front plug to airframe
	1	AN365-524A	
	1	AN5-33A	
TC03	2	AN4-12A	Step 4 and 5 Right and left strut to tail boom
	2	AN960-PD416	
	2	MS21044-N4	
TC04	2	AN4H-5A	Step 6 Twist resistant arm to tail rotor front plug
	2	AN960-PD416	
TC05	2	PLX030	Step 9 Saddle assembly

TC06	1	AN4H-6A	Step 7 Anti-torque bar to tail boom arm
	1	AN365-428A	
	2	AN960-PD416	
TC07	1	AN4-6A	Step 8 Anti-torque bar to the airframe
	1	AN4-7A	
	4	AN960-PD416	
	2	AN365-428A	

1.3

GROUP 07**TAIL BOOM INSTALLATION**

Group 07 provides all elements requested for the connection of tail boom to the airframe.





GROUP 08**TAIL ROTOR GEAR BOX ASSEMBLY**

CODE	Q.TY	DESCRIPTION
CH7020300	1	Tail rotor propeller shaft
CH7021100	2	Roller bearing rest on tail rotor shaft
CH7021600	1	Coupling sleeve
CH7021700K	1	Twist resistant rod of tail stabilizer
CH7040000	1	Tail stabilizer
CH709000A	1	Tail rotor gear box
PLX032	2	Arnite plug for tail rotor shaft
PLX034	2	Check ring

1.2**GROUP 08****TAIL ROTOR GEAR BOX ASSEMBLY**

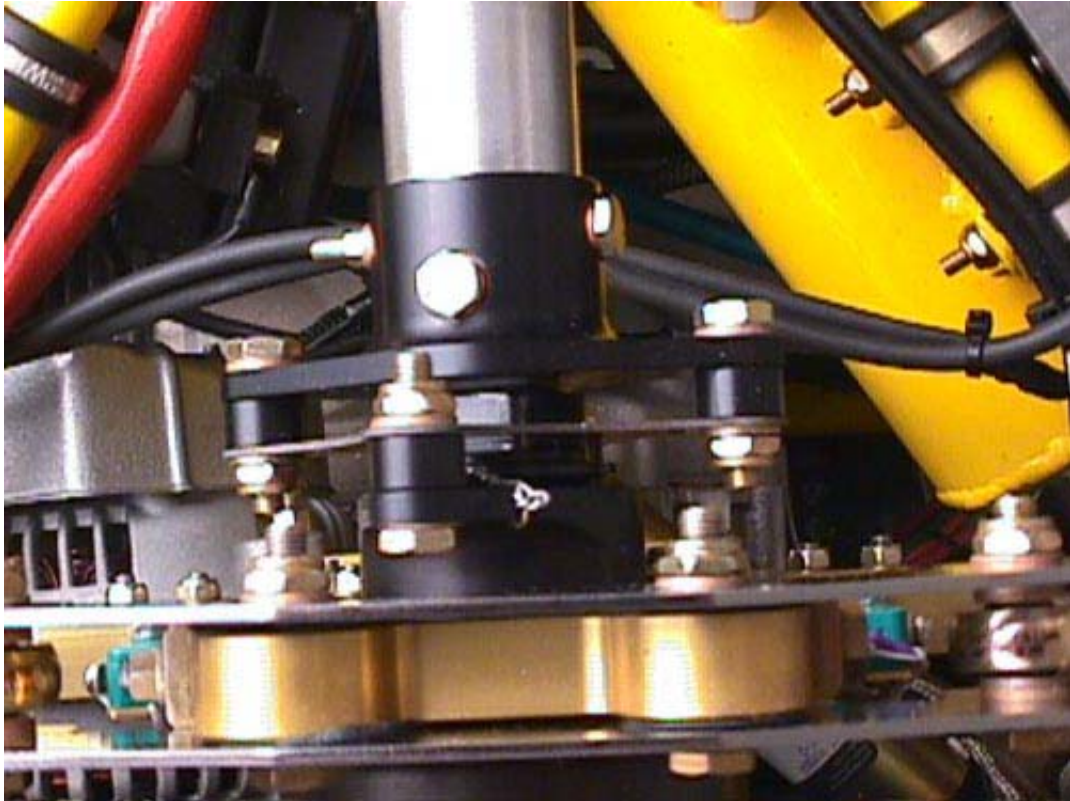
BAG	INVENTORY		OPERATION
	N.	CODE	
TRS01	2	AN3-16A	Step 1
	4	Copper washer Ø 5	Coupling sleeve to tail rotor shaft
	2	MS21042-3	
TRS02	4	Stud bolts CH7062700	Step 3
	4	NAS-509-4	Tail rotor gear box assembly
	4	AN960-PD416	
TRS03	2	AN3-16A	Step 4
	2	MS21042-3	Anchorage of tail rotor shaft
	4	Copper washer Ø 5	

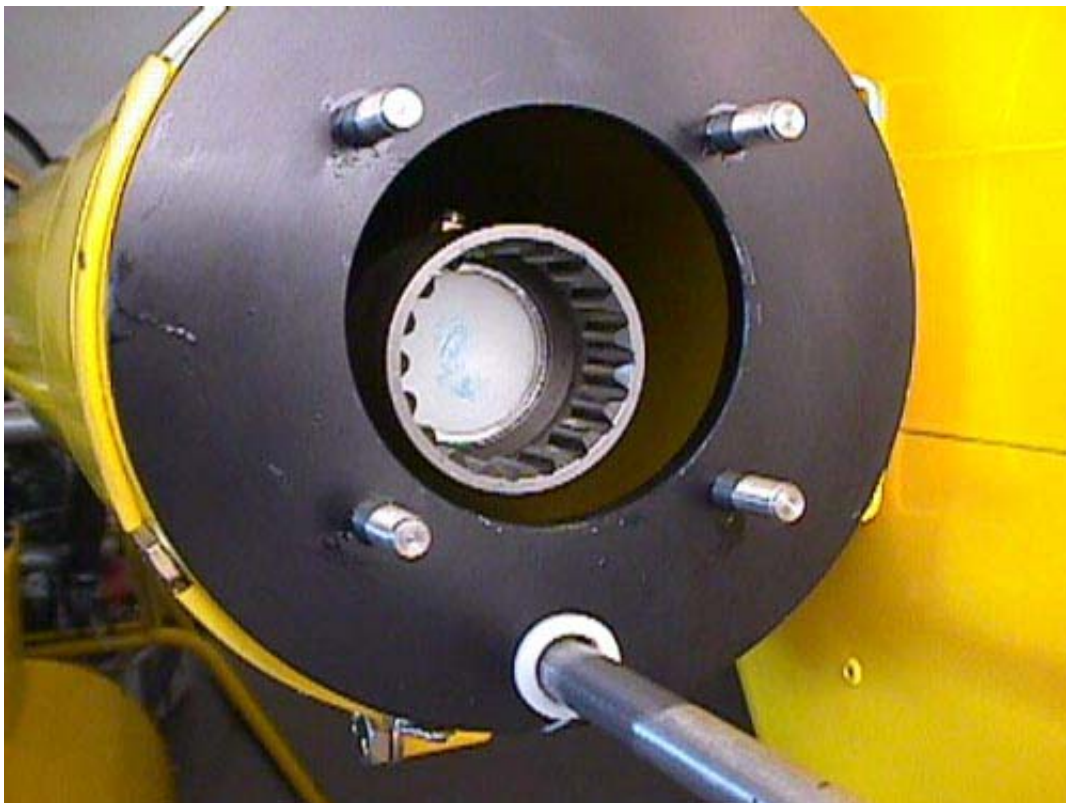
TRS04	<table><tr><td>4</td><td>AN4-20A</td></tr><tr><td>4</td><td>AN365-428A</td></tr><tr><td>4</td><td>AN960-PD416</td></tr><tr><td>4</td><td>AN960-416</td></tr></table>	4	AN4-20A	4	AN365-428A	4	AN960-PD416	4	AN960-416	Step 9 Tail stabilizer on rest foot				
4	AN4-20A													
4	AN365-428A													
4	AN960-PD416													
4	AN960-416													
TRS05	<table><tr><td>1</td><td>MS21083-N3</td></tr><tr><td>2</td><td>AN960-PD10</td></tr><tr><td>1</td><td>AN3-7A</td></tr><tr><td>1</td><td>Convex washer</td></tr><tr><td>1</td><td>HM3 Uniball</td></tr><tr><td>1</td><td>MS21042-3</td></tr></table>	1	MS21083-N3	2	AN960-PD10	1	AN3-7A	1	Convex washer	1	HM3 Uniball	1	MS21042-3	Step 6 Tail rotor control rod connection to uniball
1	MS21083-N3													
2	AN960-PD10													
1	AN3-7A													
1	Convex washer													
1	HM3 Uniball													
1	MS21042-3													
TRS06	<table><tr><td>1</td><td>HM3 Uniball</td></tr><tr><td>1</td><td>MS21042-3</td></tr><tr><td>1</td><td>AN4-23A</td></tr><tr><td>3</td><td>AN960-PD416</td></tr><tr><td>1</td><td>AN364-428A</td></tr></table>	1	HM3 Uniball	1	MS21042-3	1	AN4-23A	3	AN960-PD416	1	AN364-428A	Step 7 Uniball on rear end Lateral transmission to the airframe		
1	HM3 Uniball													
1	MS21042-3													
1	AN4-23A													
3	AN960-PD416													
1	AN364-428A													
TRS07	<table><tr><td>1</td><td>MS21042-3</td></tr><tr><td>1</td><td>AN3-7A</td></tr><tr><td>1</td><td>AN960-PD10</td></tr><tr><td>1</td><td>Convex washer</td></tr></table>	1	MS21042-3	1	AN3-7A	1	AN960-PD10	1	Convex washer	Step 8 Connection of tail rotor control rod uniball to tail rotor control arm				
1	MS21042-3													
1	AN3-7A													
1	AN960-PD10													
1	Convex washer													

GROUP 08

TAIL ROTOR GEAR BOX

Group 08 provides all elements requested for the assembly and connection of tail rotor drive shaft.





GROUP 09**RADIATORS AND COOLING****SYSTEM ASSEMBLY**

CODE	Q.TY	DESCRIPTION
CH7015005	8	Spacer
CH7015024	2	Radiator plaque
PLX016	8	Radiator rubber cap
PLX021KR	1	Right radiator
PLX021KL	1	Left radiator
PLX022KR	1	Right radiator fan
PLX022KL	1	Left radiator fan
PLX037	2	Hose clamps WDG14
PLX046	2	Hose clamp 50-70
PLX067	0,50 m.	Tube from expansion tank to overflow reservoir
PLX086K	1	Radiator tube line A)
PLX087K	1	Radiator tube line B)
PLX088K	1	Radiator tube line C)
PLX090	6	Hose clamp for radiator tube
PLX130	2 m.	Large Aluminium fabric
PLX131	2	Hose clamp Ø 40
PLX132	1	Spacer
PLX133	1	Overflow reservoir
PLX134	3	Hose clamp WDG11
PLX135	1	Hose clamp WDG9
PLX136	1	Circuit oil bulb stand
PLX137	11	Hose clamps

PLX138K	1	Oil circuit bulb
PLX139K	1	Water circuit bulb
PLX155	1	Turbine air filter rest
PLX157	0,50 m.	Flexible tube for air filter
PLX158	2	Hose clamp WDG13
PLX159	1	Oil shroud ring rest
PLX1101	2	Radiator air conveyor

1.2

GROUP 09**RADIATORS AND COOLING****SYSTEM ASSEMBLY**

BAG	INVENTORY		OPERATION
	N.	CODE	
RAD01	16	AN960-PD10	Step 1 Fans to radiators
	8	MS21083-N3	
	8	AN3-5A	
RAD02	4	AN3-7A	Step 4 Radiators to the airframe
	4	AN960-PD10	
	4	MS21083-N3	
	4	AN970-3	
RAD03	1	AN3-12A	Step 7 Anchorage of radiator tubes to the airframe right side
	2	AN960-PD10	
	1	MS21083-N3	
RAD04	1	AN3-6A	Step 7 Anchorage of radiator tubes to the airframe left side
	2	AN960-PD10	
	1	MS21083-N3	

RAD05	2	AN3-6A	Step 8 Installation of overflow reservoir to the airframe
	4	AN960-PD10	
	2	MS21083-N3	
RAD06	2	AN3-4A	Step 9 Oil shroud ring rest installation
	2	MS21083-N3	
	4	AN960-PD10L	
RAD07	8	6MA	Step 5 Sealing of breather and exhaust manifolds
	8	Copper washer	

1.3

GROUP 09

RADIATORS

Group 09 provides all elements requested for the assembly and installation of cooling system radiators.





GROUP 10**FUEL TANKS ASSEMBLY**

CODE	Q.TY	DESCRIPTION
CH7015013	2	Lower tank mount (right + left)
PLX026	1	Right fuel tank
PLX027	1	Left fuel tank
PLX036	1	Sheath m. 2.5
PLX046	4	Hose clamp 50-70
PLX047	2	Fuel tank cap
PLX048	2	Fuel tank coupling sleeve
PLX093K	4	Fuel tanks mounting belt

1.2**GROUP 10****FUEL TANKS ASSEMBLY**

BAG	INVENTORY		OPERATION
	N.	CODE	
SEM01	4	PLX041/A WDG11	Step 1 and 2 Lower tank mounts to the airframe
	4	PLX041/P WDG13	
	4	AN3-3A	
	16	AN960-PD10L	
	8	MS21083-N3	
	4	AN 526-1032-R10	

1.3

GROUP 10

FUEL TANKS

Group 10 provides all elements requested for the installation of main fuel tanks.



GROUP 11**FULL FUEL SYSTEM****1.2****GROUP 11****FUEL CIRCUIT**

BAG	INVENTORY		OPERATION
	N.	Code	
CAR01	1	AN3-10A	Step 1 Installation of line and pump filter group
	1	AN3-5A	
	6	AN960-PD10	
	2	MS21083-N3	
	1	WDG10	
	4	WDG9	

1.3

GROUP 11

FUEL SYSTEM

Group 11 provides all elements requested for the positioning of main fuel system.





GROUP 12**ELECTRIC CIRCUIT**

CODE	Q.TY	DESCRIPTION
PLXE00	1	Circuit diagram
PLXE1	1	Electric circuit Kompress 98
PLXE2	1	Electric circuit Rotax 914
PLXE3	1	Cable relay - battery cm. 45
PLXE4	1	Cable ground - engine - battery cm. 130
PLXE5	1	Cable relay - electric starter cm. 150
PLXE6	3	Cable ground for frame - collective control - ignition coil - alternator
PLXE7	1	Cable ground for frame - ground plate
PLXE8	1	Cable box engine - alternator
PLXE9	1	Cable alternator - fuse box
PLXE10	1	Cable relay - fuse box
PLXE11	1	Bulb cable
PLXE12	1	Copper plate battery ground plate
PLXE15	8	Breaker
PLXE16	5	Switch
PLXE17	1	Switchguard
PLXE18	6+3	Cable terminal + rubber pipes
PLXE19	1	Master relay
PLXE20	1	Capacitor
PLXE21	3	Relay
PLXE23	1	Kit sensor fuel pressure
PLXE24	1	Rest plate U.T.C.
PLXE25	1	Cable control relay starting
PLXE26	1	Battery rest
PLXE27	10+1+25	Connectors of 2 - connector of 3 - terminals
PLXE28	1	Float connector for stick
PLXE29	1	Fuse support for alternator
PLXE30	1	Aux socket

PLXE31	2	Fan diodes
PLXE32	1	Test push bottom
PLXE33	1	Temperature sender switch
PLXE34	4+4	TCU support + 4 screws 4 x 10 MA
PLXE35	1	Breaker 2 A
PLX093K	1	Strop belt for battery fixing
PLX094K	1	Battery 12V 18A
PLX095K	1	Garnish for battery bay stuffing cm. 80
PLXE119K	1	Switches' board
PLX6000	1	Kit electric trim
PLX7000	1	Kit mapper
CH73800K	1	Clutch switch
PLX5000	1	Warning card
PLX8000	1	Kit governor

1.2

GRUPPO 12

ELECTRIC CIRCUIT

BAG	INVENTORY		OPERATION
	N.	CODE	
EL01	2	AN3-4A	Step 7 Electric starter adjuster to the airframe
	4	AN960-PD10	
	2	MS21083-N3	
EL02	2	WDG14	Step 3 Fixing battery support
	3	WDG10	
	3	AN3-5A	
	4	AN960-PD10	
	4	MS21083-N3	
	1	AN3-6A	

EL03	2	WDG12	Step 1 Fixing box
	2	MS21083-N3	
	4	AN960-PD10	
	2	AN524-1032R12	
EL04	1	WDG10	Step 8 Fixing ignition coil
	1	AN3-6A	
	1	MS21083-N3	
	2	AN960-PD10	
EL05	2	WDG14	Step 10 Fixing support U.T.C. plate
	4	AN960-PD10	
	2	MS21083-N3	
	2	AN3-4A	
EL06	2	AN3-3A	Step 5 Fixing Westgate control
	2	MS21083-N3	
EL07	2	AN3-20A	
	4	AN970-3	
	2	MS21083-N3	
EL08	1	WDG10	Steps 4 and 9 Fixing engine oil reservoir rest
	1	WDG14	
	2	AN3-6A	
	4	MS21083-N3	
	8	AN960-PD10	
	1	AN3-7A	
	1	AN3-11A	

GROUP 12

ELECTRIC SYSTEM INSTALLATION

Group 12 provides all elements requested to realize the electric system through cables assembled in advance.





GROUP 13**CABIN ASSEMBLY**

CODE	Q.TY	DESCRIPTION
CH7015007	2	Cabin lock handle pivot
CH7015008	2	Cabin lock handle hinge
CH7015009	2	External cabin handle lever
CH7015010	2	Inner cabin handle lever
CH7015011	1	Engine cowling rest
PLX036	1	Cabin stuffing lining m. 2,5
PLX038	6	Clamp for cabin fixing front and lateral
PLX040	1	Safety belt + harness set
PLX049	1	Seat stuffing
PLX050	1	Headrest stuffing
PLX063	1	Airframe gas inlet valve
PLX064	1	Airframe gas pressure gauge (manometer)
PLX068	2	Clamp for fixing of cabin seat back
PLX083	1	Cabin frame garnish strip (vertical)
PLX084	1	Cabin frame garnish strip (oblique)
PLX085	2	Cabin handle steel pin
PLX111	1	Lexan disc for main gearbox oil level check
PLX112	1	Lexan disc for tank fuel level
PLX1102	1	Right cabin body side
PLX1103	1	Left cabin body side
PLX1104	1	Bottom cabin body side
PLX1105	1	Engine cowling
PLX1107	1	Seat frame
PLX1108	1	Front frame of the instrument consolle
PLX1109	1	Rear frame of the instrument consolle
PLX1109K	1	Upper frame of the instrument consolle
PLX1110	1	Canopy frame
PLX1111	1	Headrest inner frame
PLX1112	1	Inner body frame

PLX154	1	Airframe pressure bulb
PLX016	6	Rubber ring
PLX086	4	Plug for cabin fixing hole

1.2

GROUP 13

CABIN ASSEMBLY

BAG	INVENTORY		OPERATION
	N.	CODE	
CAB01	2	AN526-1032-R14	Step 3 Anchorage of cabin to the airframe seat back rest
	4	AN960-PD10	
	2	AN970-3	
	2	MS21083-N3	
CAB02	2	AN4-10A	Step 4 Safety belts installation
	2	AN365-428A	
	4	AN960-PD416	
CAB03	2	AN4-3A	Step 5 Safety harness assembly
	2	AN364-428A	
	2	AN960-PD416	
CAB04	2	PARKER	
CAB05	2	AN526-1032-R14	Step 3 Anchorage of cabin to the airframe seat back rest
	2	AN970-3	
	2	MS21083-N3	
	2	PLX068	

CAB06	14	MS20426A 3-4	Step 9 Instrument panel installation
	7	PLX092	
	6	PLX016	
CAB07	4	AN3-3A	Step 10 Console front shell to the airframe
	4	Washer 5 X 15	
CAB08	2	AN3-3A	Step 11 Console rear shell to the airframe
	2	Washer 5 X 15	
CAB09	7	AN526-1032 R8	Step 12 Console assembly
CAB10	2	AN3-3A	Step 13 Engine cowling rest assembly
	2	AN960-PD10	
CAB11	7	Stem 14 mm.	Step 14 Engine cowling assembly
	7	Receptacle 14 mm.	
	14	Nails x Camlock	
	7	Washers	

1.3**GROUP 13****CABIN ASSEMBLY**

Group 13 provides all elements requested for the assembly of the cockpit along with its accessories.



GROUP 14**CANOPY ASSEMBLY**

CODE	Q.TY	DESCRIPTION
CH7015002K	2	Canopy hinge lever
CH7015003K	2	Canopy hinge lever
CH7015032K	1	Canopy hinge right rest "R"
CH7015033K	1	Canopy hinge left rest "L"
CH7015034K	2	Canopy hinge lever
PLX059	2	Bushing for canopy hinge
PLX1110	1	Canopy frame
PLX1110K	2	Snap vent

1.2**GROUP 14****CANOPY ASSEMBLY**

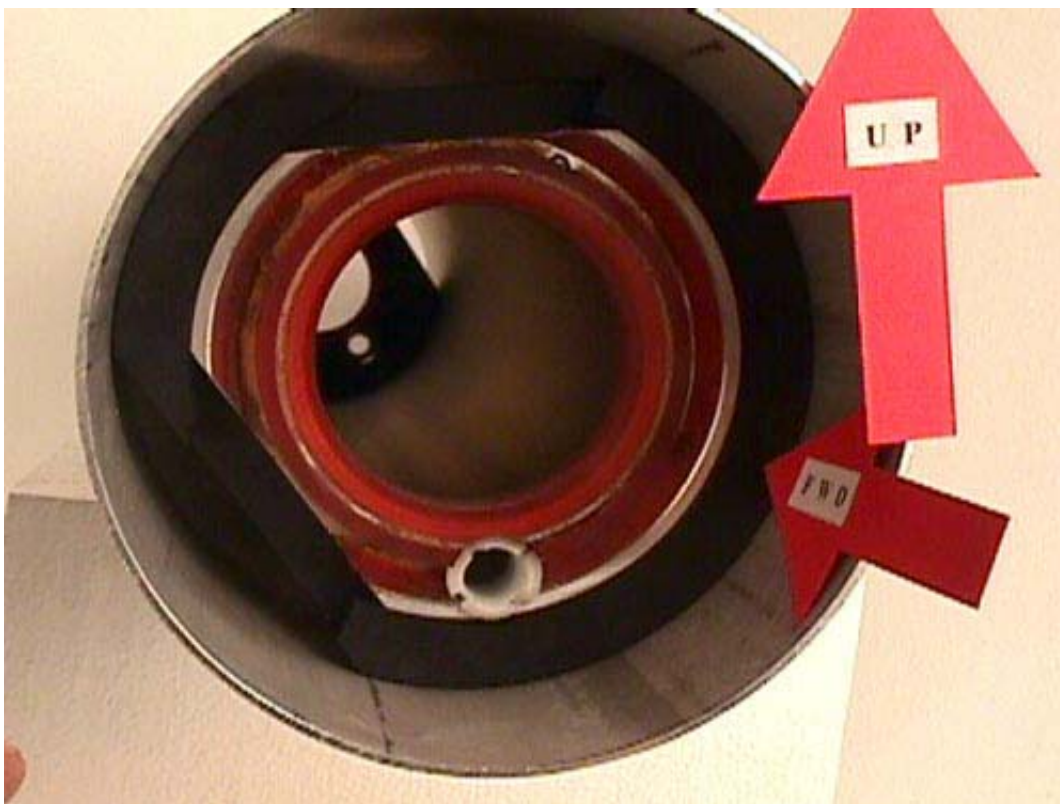
BAG	INVENTORY		OPERATION
	N.	CODE	
CUP01	4	AN4-6A	Step 1 Windshield hinge assembly
	8	AN960-PD416L	
	4	AN364-428A	
CUP02	2	AN4-6A	
	6	AN960-PD416L	
	2	AN364-428A	
CUP03	2	AN4-13A	
	6	AN960-PD416L	
	2	AN364-428A	
	2	PLX059	

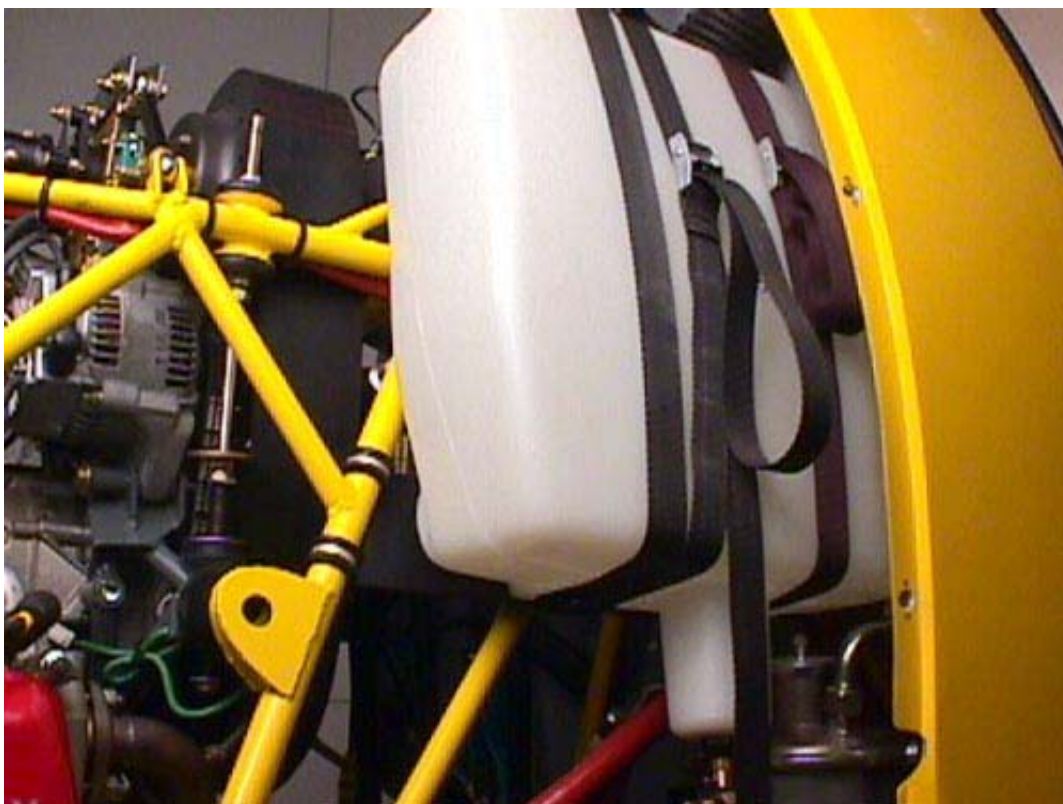
CUP04	4	AN4-6A	Step 3 Installation of hinge straps on the airframe rest straps
	8	AN960-416	
	4	AN364-428A	
CUP05	6	MS21083-N3	Step 2 Hinge strap location
	6	Washer 970-3	
CUP06	12	Rivet	Step 4 and 5 Cabin handle pivot assembly
	2	Allen screw Ø 3MA x 20	
	2	Self-locking nuts 3MA	

1.3

GROUP 14**CANOPY ASSEMBLY**

Group 14 provides all elements requested for the installation of the canopy to the cockpit.





GROUP 15

RIGGING

Group 15 provides all the instructions requested for the settings needed for flight tests.

GROUP 16**NAVIGATION INSTRUMENTS**

CODE	Q.TY	DESCRIPTION
PLX096	1	Dynamic anemometer air intake
PLX101	1	Anemometer
PLX102	1	Pipe for dynamic anemometer air intake
PLX103	1	Vertical speed gauge (variometer)
PLX104	1	Manifold pressure gauge
PLX106	1	Altimeter
PLX107	1	Quad instrument
PLX110K	1	Oil temperature sender
PLX113	1	Collar
PLX115	1	Instrument panel board
PLX116	1	Engine - rotor rpm tachometer
PLX9000	1	Hour meter

GROUP 16**NAVIGATION INSTRUMENTS**

Group 16 provides all elements requested for the installation of navigation instruments.