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PART 1**INTRODUCTION****GENERAL**

1. This catalogue lists and describes the parts for Wasp Junior Models R985-AN-5 & AN-14B engines, manufactured by Pratt & Whitney Aircraft, Division of United Aircraft Corporation, East Hartford 8, Connecticut, U.S.A.

2. The AN-5 engine is adapted for vertical installation in a helicopter. Plain journal bearings are substituted for ball bearings at the impeller shaft, and the rear case is used for collecting oil in place of a oil sump.

3. The AN-14-B engine is of the conventional type and is installed horizontally.

HOW TO READ THE PART LIST

4. The part list contains the following:

- (a) Table of Contents
- (b) List of Illustration
- (c) Part 1 - Introduction
- (d) Part 2 - Group Assembly Part List
- (e) Part 3 - Special Tools
- (f) Part 4 - Bulk Material Table
- (g) Part 5 - Numerical Part List

5. The Table of contents and the list of Illustrations are at the front of the Part List and show the method of grouping the parts and sequence of the figures.

6. The Group Assembly Part List (Part 2) consists of the complete engine (both models) divided into fourteen main groups as shown in the table of contents. Each assembly listed is followed immediately by its component parts properly indented to show their relationship to the assembly. Attaching parts are captioned "Attaching parts" are are not necessarily preceding the part they attach. Component parts of the complete engine which are not included in any assembly, but which are used in conjunction with, or attached to a certain assembly, are listed either preceding the first detail or following the last detail of the assembly

and in the same column as the major assembly. Information relating to interchangeability, obsolescence and modification of parts with reference to P & W parts digest is as follows;

(a) When a part or assembly supersedes another, the interchangeability status is indicated in the nomenclature column.

(b) When a superseded part or assembly is rendered obsolete, a note to the effect that it should be discarded is given in the nomenclature column.

(c) When no reference to bulletins or digests are given to substantiate the changes, it indicates that the changes have been made by the manufacturer probably as the result of a model or engineering change and are not covered by a bulletin or digest.

7. The quantities listed in the "Units per Assembly" column of the Group Assembly Parts list are in the case of indent 1, items, the total quantity used per engine at the location indicated, while component parts indented under assemblies are the quantity used per assembly. The quantities specified, therefore, are not necessarily the total used per engine. For the total quantities used per engine refer to the Numerical Parts List(Part 5).

8. The index numbers appearing on the illustration are numerically arranged by figure numbers in the Group Assembly Parts List and are used mainly to assist in locating a part in the Group Assembly Parts List after it has been found on the illustration.

9. Part Numbers are used exclusively to identify parts.

10. To identify specific usability by model of

engine, code letters appear in the Usage on Code column and their explanation are as follows:

Code Letter	Applicable Engine
a	AN - 5
b	AN - 14B

11. The Part on Bulk Material Tables is not applicable to the Engineering Order.

12. The Numerical Part List is composed of two general groups of numbers. These are Pratt & Whitney part numbers and the Military part numbers, identified by the prefixes "AN", "AS" and "MS" that are the military equivalents to some parts of the manufacturer.

13. The Numerical Part List is compiled in accordance with the numerical part number filing system described below.

14. Part Number arrangement begins on the extreme left hand position and continues from left to right, one position at a time, until all parts are arranged in sequence. The order of precedence in beginning the part number arrangement on the extreme left hand (first) position of the part number is as follows:

Letters A through Z
 Numerals 0 through 9

NOTE

Alphabetic 0's are considered as numeric zeros. The second and succeeding positions of the part number from left to right are as follows:

Space (blank column)
 Dash (-)
 Letters A through Z
 Numerals 0 through 9

EXAMPLES

AAF	356-524	1
AN	121553	100181
AN	365-1032A	10684
AN	455 AD4-4	172
CPWA	2022	17346
MS	122030	33415
P -	10563	7499

15. All dimensions shown herein are nominal. They are inserted to facilitate identification for ordering and are not to be construed as restrictive in inspection.

16. Part numbers appearing in Part 5 in parenthesis indicate that the part number is an equivalent part number or has been superseded or replaced and will appear in the nomenclature column of the Group Assembly Part List but not in the part number column.

17. Parts not to be demanded as detail parts because of special assembly requirements (such as matched parts) are noted by the letters "NP" in the quantity column. These parts are given the figure and index number of the assembly in which they are contained in the Numerical Part List in order to facilitate referencing to the Group Assembly Part List. Assemblies that are not assigned an index number although all their detail parts have been indexed are given the figure number in which the assembly is illustrated, for reference purposes, in the Numerical Part List.

ABBREVIATIONS

18. The abbreviations used throughout this Part List are as follows:

Abbreviation	Full Name
&	and
ANPT	Aeronautical National Pipe Thread
AR	indicates units for oversizes and/or undersizes "as required"
CL	Class
dia	diameter
ft.	feet
ID	Inside Diameter
in.	inche (es)
I.P.S	International Pipe Standard
lb.	pound
LH	Left Hand
M	Undersize for standard part
m/m	millimeter
N	National Form (thread)
NC	National Coarse (thread)
NEF	National Extra Fine (thread)
NF	National Fine (thread)
No.	Number (s)
NP	indicates parts or assemblies that are not procurable
NPT	National Taper Pipe Thread
NS	National Special Thread

OD	Outside Diameter
oz.	ounce (s)
P	oversize for standard part
PD	Pitch Diameter
pr	pair
P & W	Pratt and Whitney Aircraft, Division of United Aircraft Corporation, East Hartford 8, Connecticut, U.S.A.
SP	Special
thd	thread
UNC	Unified National Coarse (thread)
UNF	Unified National Fine (thread)

REPLACEMENT STUDS

19. Where .004 inch oversize studs are listed in the Group Assembly Part List they are used as the first replacement of the standard size studs originally installed in the engine.

FRONT AND REAR

20. The terms "front" and "rear" are determined by considering the propeller end of the engine as the front, and the anti-propeller end as the rear.

RIGHT AND LEFT

21. The terms "right" and "left" in connection with parts listed in the Part List refer to the viewpoint from the rear of the engine.

CYLINDER NUMBERS

22. Viewing the engine from the rear, cylinders are numbered consecutively in a clockwise direction around the engine starting with number one cylinder, which is the top cylinder.

PART 2

GROUP ASSEMBLY PART LIST

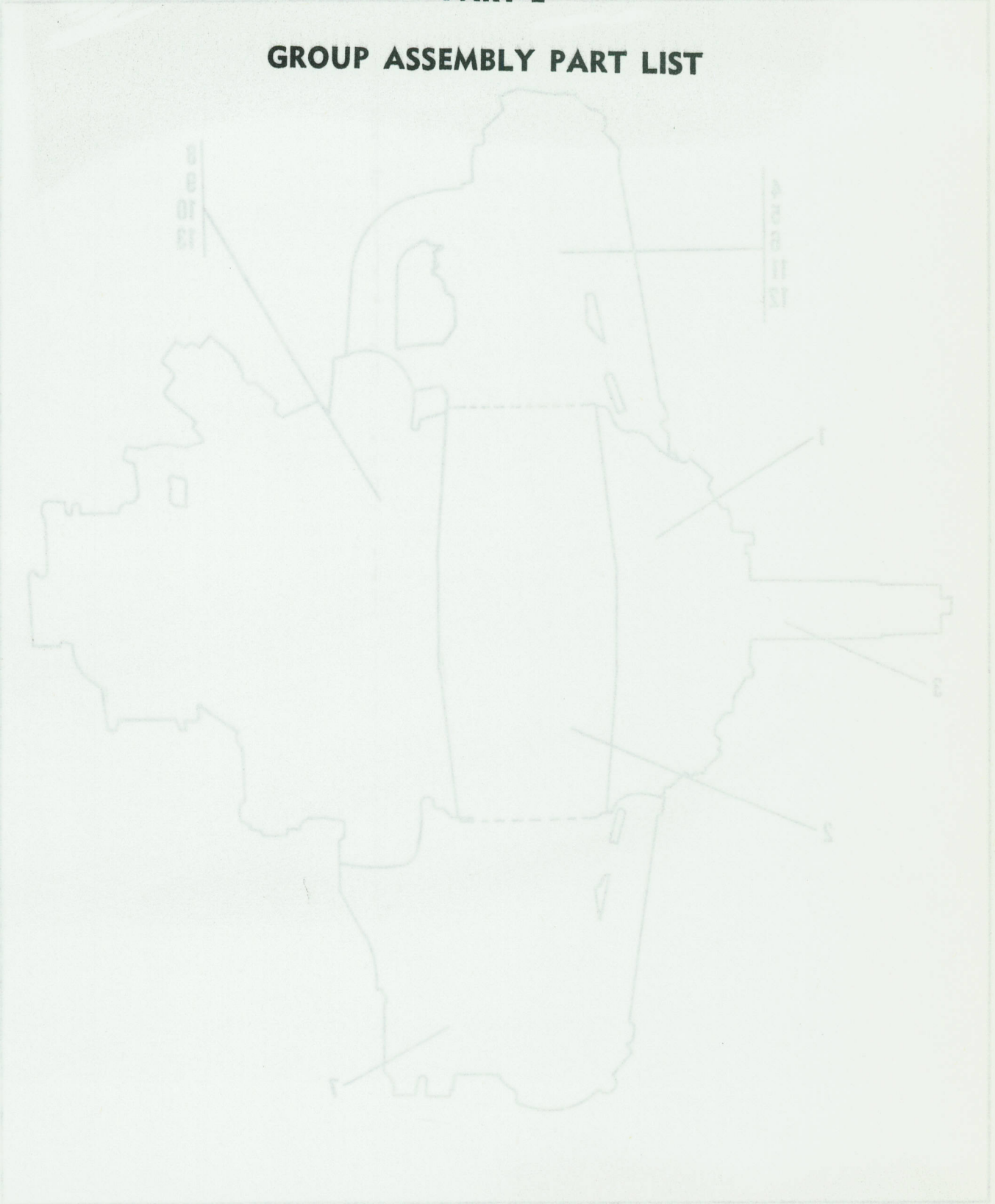


Figure 5-1 Engine - Complete

GROUP ASSEMBLY PART LIST

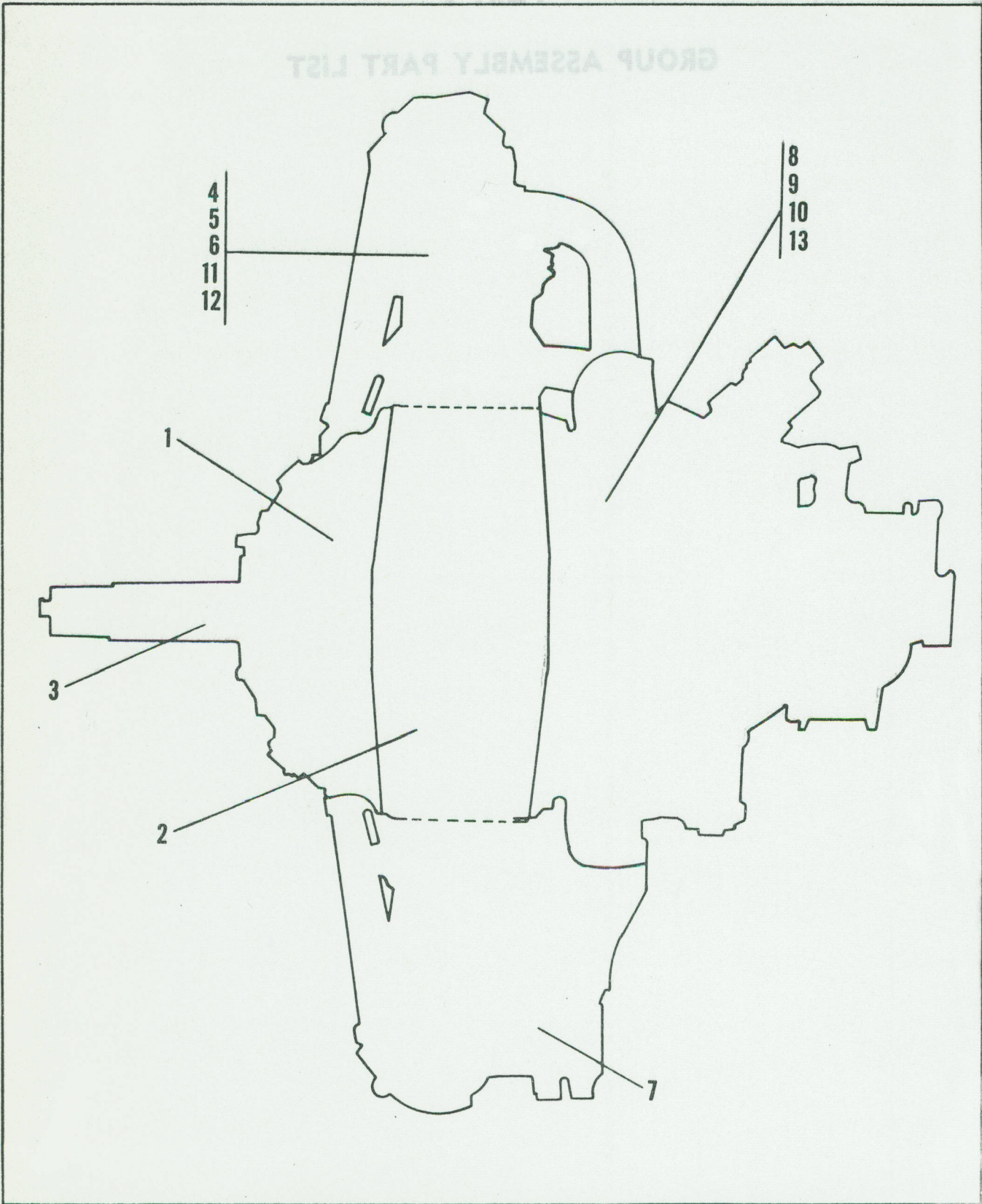


Figure 2-1 Engine - Complete

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R-985 (Wasp JR.) Models AN-5 AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: ENGINE COMPLETE									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-1-1	109722							Front Case & Studs (See Fig. 2)	a	Ref
	39487							Front Case & Studs (See Fig. 2)	b	Ref
-2	81606							Main Crankcase & Studs (See Fig. 3)	a	Ref
	81174							Main Crankcase & Studs (See Fig. 3)	b	Ref
-3	80987							Crankshaft & Connecting Rods (See Fig. 4)	a	Ref
	39893							Crankshaft & Connecting Rods (See Fig. 4)	b	Ref
-4	126741							Cylinder No 1, 2, 3, 4, 7, 8, 9, on AN-5 & No 4, 7 on AN-14B (See Fig. 5)	a b	Ref
	126834							Cylinder No 5 & 6 (See Fig. 5)	a b	Ref
	126742							Cylinder No 1, 2, 3, 8, 9 (See Fig. 5)	b	Ref
-5	76369							Deflector AN-5 (See Fig. 6)	a	Ref
-6	41461							Deflector AN-14B (See Fig. 7)	b	Ref
-7	81185							Oil Sump (See Fig. 8)	b	Ref
-8	121213							Collector Case (See Fig. 9)	a	Ref
	47973							Collector Case (See Fig. 9)	b	Ref
-9	48564							Rear Case (See Fig. 10)	a	Ref
	123724							Rear Case (See Fig. 10)	b	Ref
-10	46234							Fuel Pump Drive (See Fig. 11)	a b	Ref
-11	45936							Cylinder Priming System (See Fig. 12)	a b	Ref
-12	165376							Ignition System (See Fig. 13)	a b	Ref
-13	74947							Carburettor & Packing Case (See Fig. 14)	a	Ref
	16487							Carburettor & Packing Case (See Fig. 14)	b	Ref

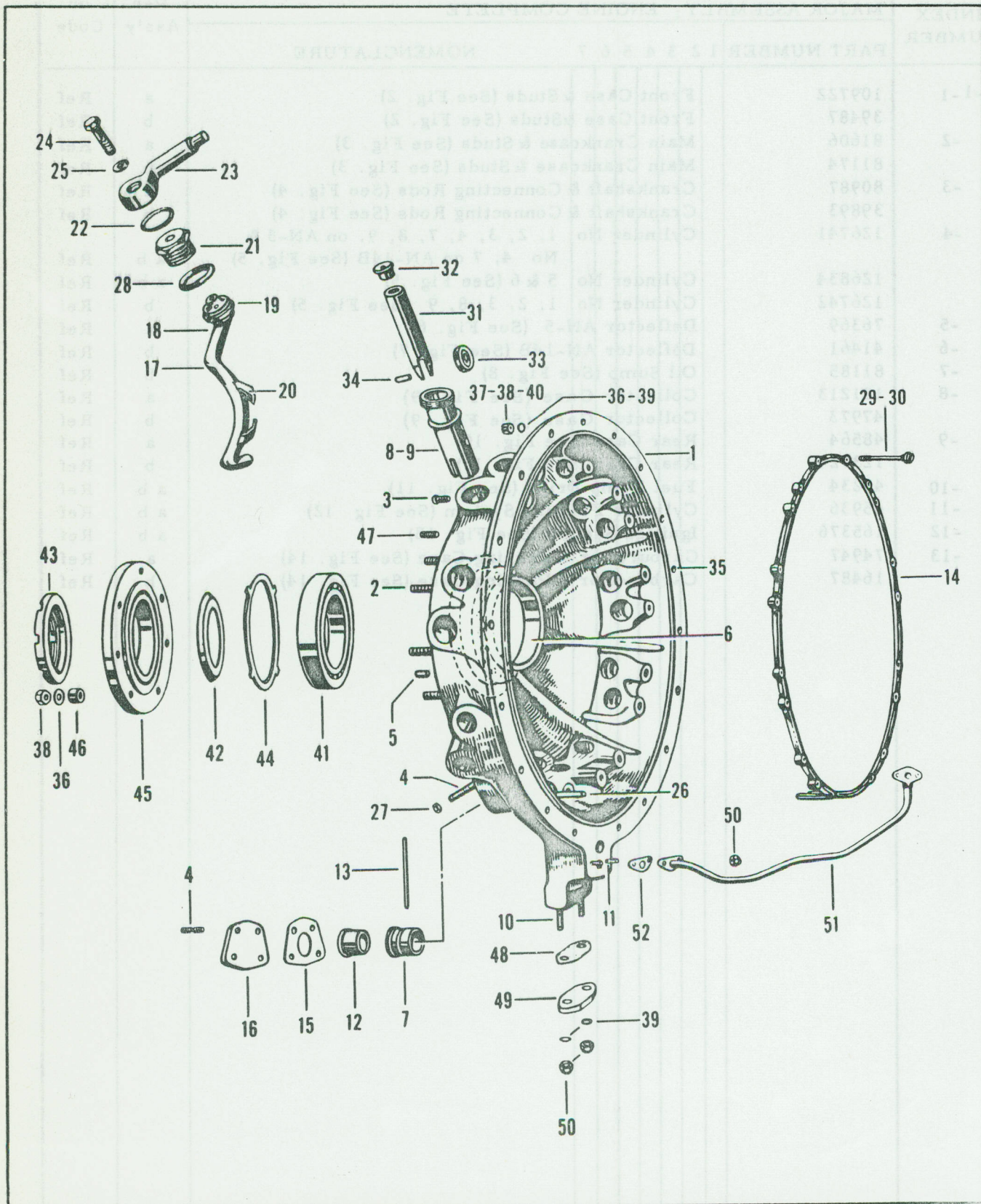


Figure 2-2 Front Case & Studs

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (Wasp JR.) Models AN-5 & AN-14B							Units Per Ass'y	Usage on Code
	MAJOR ASSEMBLY: FRONT CASE & STUDS								
	PART NUMBER	1	2	3	4	5	6 7		
2-2-1	109722	Case & Studs Assembly - Front						1	a
	39487	Case & Studs Assembly - Front						1	b
	109720	Case - Front section						NP	a
	39485	Case - Front section						NP	b
ATTACHING PARTS									
-2	42419+4	Stud - Plain 3/8 - 16 - 24 thd x 2-3/8 in. long (thrust cover; use (5) units for AN-5) .004 in. oversize						7	a b
	42419+8	Stud same as 42419 only .008 in. oversize							
	42419+12	Stud same as 42419 only .012 in. oversize							
-3	77765+4	Stud - Drilled 375-16-24 thd x 3.060 in. long (thrust cover) .004 in. oversize						2	a
	77765+8	Stud same as 77765 only .008 in. oversize							
	7765+12	Stud same as 77765 only .012 in. oversize							
-4	28255+4	Stud - Plain .250-20-28 thd x 1.188 in. long (propeller regulator valve cover) .004 in. oversize						4	a
	28255+8	Stud same as 28255 only .008 in. oversize							
	28255+12	Stud same as 28255 only .012 in. oversize							
	12089+4	Stud - Plain .250-20-28 thd x 1.125 in. long (propeller regulator valve) .004 in. oversize						2	b
	12089+8	Stud same as 12089 only .008 in. oversize							
	12089+12	Stud same as 12089 only .012 in. oversize							
	12088+4	Stud - Fitted 1/4-20-28 thd x 11/32 in. long (propeller regulator valve) .004 in. oversize						2	b
	12088+8	Stud same as 12088 only .008 in. oversize							
	12088+12	Stud same as 12088 only .012 in. oversize							
-5	62	Dowel - Straight .250 dia x .625 in. long (thrust cover locating)						1	a b
-6	37966	Liner - Thrust bearing						1	a b
	37966+25	Liner same as 37966 only .025 in. oversize							
-7	109454	Bushing - .750 ID x 1.1895 OD x .965 in. long (front case)						1	a
-8	39493	Guide - Intake valve tappet upper (use (5) units on AN-14B engine)						9	a b
	39493+5	Guide same as 39493 only .005 in. oversize							
	39493+10	Guide same as 39493 only .010 in. oversize							
	39493+15	Guide same as 39493 only .015 in. oversize							
	39494	Guide - Intake valve tappet lower						4	b
	39494+5	Guide same as 39494 only .005 in. oversize							
	39494+10	Guide same as 39494 only .010 in. oversize							
	39494+15	Guide same as 39494 only .015 in. oversize							
-9	39495	Guide - Exhaust valve tappet upper (use (5) units on AN-5)						9	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: FRONT CASE & STUD (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-2-	39495+5							Guide same as 39495 only .005 in. oversize		
	39495+10							Guide same as 39495 only .010 in. oversize		
	39495+15							Guide same as 39495 only .015 in. oversize		
	39496							Guide - Exhaust valve tappet lower	4	b
	39496+5							Guide same as 39496 only .005 in. oversize		
	39496+10							Guide same as 39496 only .010 in. oversize		
	39496+15							Guide same as 39496 only .015 in. oversize		
ATTACHING PARTS										
-10	90106+4							Stud - Plain .3125-18-24 thd x 1.875 in. long (oil sump fastening) .004 in. oversize	2	a
	90106+8							Stud same as 90106 only .008 in. oversize		
	12055+4							Stud - Plain .3125-18-24 thd x 1.875 in. long (oil sump fastening) .004 in. oversize	2	b
	12055+8							Stud same as 12055 only .008 in. oversize		
	12055+12							Stud same as 12055 only .012 in. oversize		
-11	58843+4							Stud - Plain .3125-18-24 thd x 1.42 in. long (propeller regulator valve) .004 in. oversize	2	a
	58843+8							Stud same as 58843 only .008 in. oversize		
-12	109453							Bushing - Flanged .625 ID x .752 OD x .870 in. long (oil transfer tube)	1	a
-13	109461							Tube Assembly - Propeller shaft thrust bearing oil transfer	1	a
	109460							Tube - Propeller shaft thrust bearing oil transfer	NP	a
	109459							Plug - Plain .263 dia x .125 in. long Drilled (propeller shaft thrust, bearing, oil transfer)	NP	a
-14	39489							Manifold Brazing Assembly - Rocker oil	1	ab
	10270							Pipe - Vertical propeller oil feed	1	b
-15	80984							Gasket - Propeller regulator valve cover	1	a
	57420							Plug - Engine Oil Pressure Type Governor (HS: for Engine not equipped with hydro- matic type crankshaft but utilizing two- position controllable counterweight propeller; supersedes No. 50409)	1	b
-16	80983							Cover - Propeller regulator valve	1	ab
	40111							Valve Assembly Complete - Propeller regulator	1	b
	19149							Shaft - Oil control valve	1	b
	9667							Gasket - Oil control valve cover	1	b
	19209							Cover - Oil control valve	1	b
	15008							Packing - Hydro valve	1	b
	116576							Flange - Propeller governor oil pressure tube	1	b
	91341							Plug - .438 square head x .375-18 pipe x .796 in. long (propeller governor oil pressure tube flange hole; use No. 192 wire)	1	b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (Wasp JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: FRONT CASE & STUDS (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-2-	ATTACHING PARTS									
	8232							Nut - Hydro propeller operating shaft packing	1	b
	57169							Lever - Propeller regulator valve supersedes No. 40098)	1	b
	44							Pin - Tapered .125 dia x .750 in. long (propeller regulator valve lever locking)	1	b
-17	77766							Pipe Assembly - Breather	1	a
-18	77764							Pipe - Breather	1	a
-19	77762							Body - Breather Extension	1	a
-20	77763							Clip - Breather Pipe	1	a
	ATTACHING PARTS									
	528							Nut - Castled .625 Hexagon Head x .375 - 16 thd. x .312 in. thick (Thrust cover stud special)	2	a
	AN900-22							Gasket - 1.283 ID x 1.625 OD x .094 in. thick (Front Case Breather plug; P. & W. Part no. 233)	1	b
	20159							Plug - 1.00 Hexagon Head x 1-3/8 - 12 thd x 25/32 in. long (front case breather; use .040 in. wire)	1	b
-21	77761							Body - Breather connection	1	a
-22	35932							Gasket - 1.281 ID x 1.500 OD x .031 in. thick (body breather connection)	1	a
-23	38353							Connection - Breather exhaust	1	a
	ATTACHING PARTS									
-24	13700							Bolt - 7/16 Hexagon head drilled x 1/4-28 thd x 1-9/32 in. long (connection breather exhaust)	1	a
-25	171							Washer - Plain 17/64 ID x 1/2 OD x 1/16 in. thick (connection breather exhaust screw)	1	a
-26	39304							Pipe - 1/4 ID x .312 OD x 1-15/16 in. long (propeller regulator valve oil feed)	1	a b
	ATTACHING PARTS									
-27	AN365-428							Nut - Fibre insert 1/4-28 thd x 5/16 in. thick (propeller regulator valve cover; P & W Part No. 12856)	4	a b
-28	AN900-22							Gasket - 1.383 ID x 1.625 OD x .094 in. thick (front crankcase breather plug; P & W Part No. 233)	1	a

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (Wasp JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: FRONT CASE & STUD ASSEMBLY (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-2-	ATTACHING PARTS									
-29	39490							Screw - Rocker oil manifold (use .040 in. wire)	9	a b
-30	39491							Screw - Rocker oil manifold (use .040 in. wire)	9	a b
-31	45943							Tappet Assembly - Valve	18	a b
	39492							Tappet - Valve	NP	a b
-32	33784							Socket - Pushrod ball	1	a b
-33	5999							Roller - Valve tappet	18	a b
-34	1044							Pin - Roller .3125 dia x .781 in. long (valve tappet roller)	18	a b
-35	38606							Seal - 16.625 ID x .125 in. dia Round (nose housing to main crankcase; supersedes No. 12584)	1	a b
	ATTACHING PARTS									
-36	173							Washer - Plain 25/64 ID x 11/16 OD x 1/16 in. thick (nose section to main crankcase studs)	17	a b
-37	4381							Nut - Plain 9/16 Hexagon head x 3/8-24 thd x 21/64 in. thick (for use with Part No. 38300 cowl stud)	6	a b
-38	26432							Nut - Fibre insert 3/8-24 thd x 29/64 in. thick (nose section to main crankcase studs)	17	a b
-39	172							Washer - Plain 21/64 ID x 9/16 OD x 1/16 in. thick (nose section to Part No. 42422 main crankcase stud)	1	a b
-40	12009							Nut - Plain 1/2 Hexagon head x 5/16-24 thd x 13/64 in. thick (nose section to Part No. 42422 main crankcase stud)	1	a b
	818							Palnut - .500 in. Hexagon head x .3125-24 PD (nose section to Part No. 42422 main crankcase stud;)	1	a b
	172							Washer - Plain 21/64 ID x 9/16 OD x 1/16 in. thick (main crankcase to nose housing long stud)	1	b
	511							Nut - Castled 1/2 Hexagon head x 5/16-24 thd x 21/64 in. thick (main crankcase to nose housing long stud; use .040 in. wire)	1	b
	6							Cotter pin - .072 - .076 dia x .750 in. long (main crankcase to nose housing, long stud)	1	b
-41	117							Bearing - Ball 3.1496 ID x 5.5118 x 1.0236 in. long (propeller thrust)	1	a b
-42	1020							Slinger - Propeller thrust bearing oil	1	a b
-43	1019							Spanner nut - 2-3/4-12 PD x 3.600 x 1/2 in. thick (propeller thrust bearing)	1	a b
-44	34347							Ring - Propeller thrust bearing spacer	1	a b
-45	37965							Cover - Thrust bearing	1	a b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: FRONT CASE & STUD ASSEMBLY (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENGLATURE
2-2-	ATTACHING PARTS									
	528							Nut - Castled 5/8 in. Hexagon head x 3/8-16 thd (Thrust cover stud)	2	a
-46	16028							Spacer - .391 ID x .688 OD x .312 in. thick (thrust cover)	7	a b
	ATTACHING PARTS									
	173							Washer - Plain 25/64 ID x 11/16 OD x 1/16 in. thick (propeller thrust cover nuts)	7	a b
	26432							Nut - Fibre insert 3/8-24 thd x 29/64 in. thick (propeller thrust cover)	7	a b
-47	15443							Plug - Plain slotted 5/16-18 thd x 1/4 in. long (optional cowl attaching holes in nose housing)	4	a b
	15443+4							Plug same as 15443 only .004 in. oversize		
-48	1325							Gasket - Sump connection	1	a
-49	74929							Cover - Sump Pad front	1	a
	ATTACHING PARTS									
	172							Washer - Plain .328 ID x .562 OD x .062 in. thick (Oil sump pad cover stud)	2	a
-50	33415							Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (Oil sump pad cover stud)	4	a
-51	74955							Pipe Assembly - Front case to rear	1	a
-52	74945							Gasket - Pipe front case to rear	1	a
	6558							Gasket - .531 ID Pipe Flanged x .031 in. thick (Oil Sump)	1	a
	ATTACHING PARTS									
	33415							Nut - Fibre insert 5/16 - 24 thd 23/64 in. thick (Rocker Drain Oil Suction pipe flange)	2	a
	18169							Spacer - .104 ID x .188 OD x .125 in. thick (plate data)	4	a b
	35721							Plate - Engine data	1	a b
	85039							Sheet - Data Plate Pad (Service Bulletin No. 871)	1	a b
	53203							Washers - Data Plate (Service Bulletin No. 871)	4	a b
	ATTACHING PARTS									
	156							Rivet - Round head .0937 dia x 23/32 in. long (Plate data)	4	a b
	179							Washer - 3/32 ID x 1/4 OD x 1/32 in. thick (plate data)	4	a b

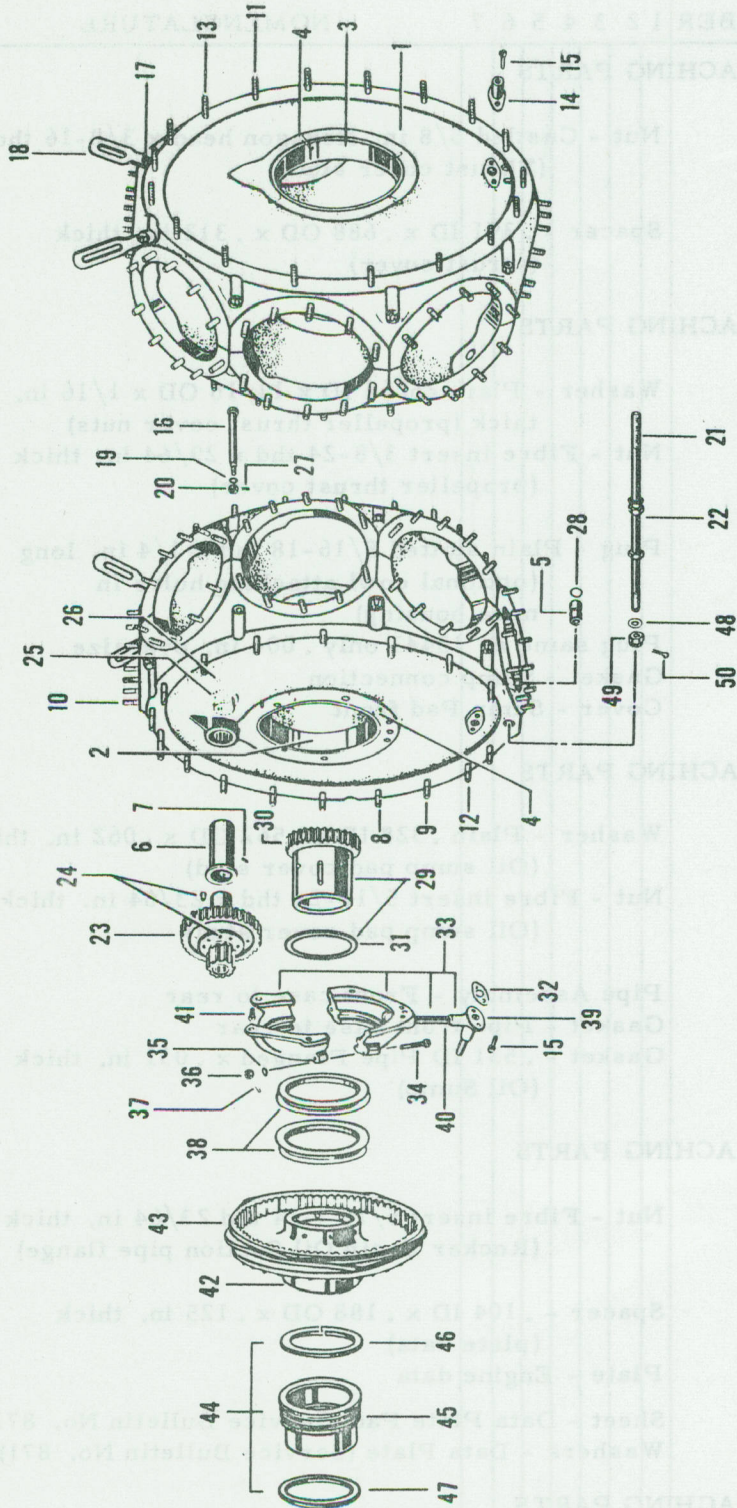


Figure 2-3 - Main Crankcase & Studs

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: MAIN CRANKCASE & STUDS									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-3-	81606							Crankcase & Studs Assembly With Gear-Main	1	a
	81174							Crankcase & Studs Assembly With Gear-Main	1	b
-1	80806							Crankcase Assembly - Main	1	a
	16475							Crankcase Assembly - Main	1	b
	80805							Crankcase Machining Assembly - Main	NP	a
	13715							Crankcase Machining Assembly - Main	NP	b
	80804							Crankcase - Front Main	NP	a
	3508							Crankcase - Front Main	NP	b
	74943							Crankcase - Rear Main	NP	a
	13645							Crankcase - Rear Main	NP	b
-2	3559							Liner - main bearing Front	1	a b
	3559+3							Liner same as 3559 only .003 in. oversize		
	3559+5							Liner same as 3559 only .005 in. oversize		
	3559+10							Liner same as 3559 only .010 in. oversize		
	3559+20							Liner same as 3559 only .020 in. oversize		
-3	9269							Liner - main bearing Rear	1	a b
	9269+3							Liner same as 9269 only .003 in. oversize		
	9269+4							Liner same as 9269 only .004 in. oversize		
	9269+5							Liner same as 9269 only .005 in. oversize		
	9269+10							Liner same as 9269 only .010 in. oversize		
	9269+20							Liner same as 9269 only .020 in. oversize		
-4	27							Pin - Straight .1885 - .1890 dia x .500 in. long (front & rear main bearing liners)	8	a b
	27+6							Pin same as 27 only .006 in. oversize		
	27+11							Pin same as 27 only .011 in. oversize		
-5	3900							Ferrule - .594 ID x .6890 OD x 1.000 in. long (crankcase oil hole)	1	a b
-6	5670							Bushing - Flanged .995 ID x 1.189 OD x 1.951 in. long (cam reduction Gear)	1	a b
	5670+3							Bushing same as 5670 only .003 in. oversize		
	5670+5							Bushing same as 5670 only .005 in. oversize		
	5670+10							Bushing same as 5670 only .010 in. oversize		
-7	15							Pin - Straight .1285 dia x .406 in long (cam reduction gear bushing)	1	a b
	15+10							Pin same as 15 only .010 in. oversize		
	15+20							Pin same as 15 only .020 in. oversize		
	15+30							Pin same as 15 only .030 in. oversize		
ATTACHING PARTS										
-8	54610+4							Stud - Plain 3/8 - 16-24 thd x 1.75 in. long long (main crankcase to nose housing; supersedes No. 15274) .004 in. oversize	11	a b
	54610+8							Stud same as 54610 only .008 in. oversize		
	54610+12							Stud same as 54610 only .012 in. oversize		
-9	38300+4							Stud - Plain .375 - 16-24 thd x 2.156 in. long (main crankcase to nose section special cowl attaching) .004 in. oversize	6	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: MAIN CRANKCASE & STUDS (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-3-	38300+8							Stud same as 38300 only .008 in. oversize		
	38300+12							Stud same as 38300 only .012 in. oversize		
-10	12081+4							Stud - Plain .375-16-24 thd x 1.562 in. long (cylinder holddown) .004 in. oversize	90	a b
	12081+8							Stud same as 12081 only .008 in. oversize		
	12081+12							Stud same as 12081 only .012 in. oversize		
	12081+62							Stud same as 12081 only .062 in. oversize		
	12081+66							Stud same as 12081 only .066 in. oversize		
	12081+70							Stud same as 12081 only .070 in. oversize		
-11	12085+4							Stud - Stepped .375-16 & .3125-24 thd x 1.625 in. long (oil sump attaching) .004 in. oversize	1	a b
	12085+8							Stud same as 12085 only .008 in. oversize		
	12085+12							Stud same as 12085 only .012 in. oversize		
-12	42422+4							Stud - Stepped .375-16 & .3125-24 thd x 1.594 in. long (main crankcase to hose section) .004 in. oversize	1	a b
	42422+8							Stud same as 42422 only .008 in. oversize		
	42422+12							Stud same as 42422 only .012 in. oversize		
-13	12057+4							Stud - Plain .375-16-24 thd x 1.938 in. long (main crankcase to blower) .004 in. oversize	17	a b
	12057+8							Stud same as 12057 only .008 in. oversize		
	12057+12							Stud same as 12057 only .012 in. oversize		
	12057+62							Stud same as 12057 only .062 in. oversize		
-14	13652							Fitting - Main crankcase oil pressure	1	a b
	ATTACHING PARTS									
-15	202							Screw - Fillister head drilled 1/4-20 thd x 9/16 in. long (main crankcase oil pressure fitting; use .040 in. wire)	2	a b
-16	464							Bolt - Shouldered 5/8 Hexagon head x 7/16-20 thd x 4-31/32 in. long (main crankcase halves; use (4) units for AN-5)	6	a b
-17	463							Bolt - Shouldered 5/8 Hexagon head x 7/16-20 thd x 5-1/8 in. long (main crankcase halves & lifting links; use (2) units for AN-14B engine)	4	a b
-18	3561							Link - Engine lifting (use (2) units for AN-14B engine)	4	a b
	ATTACHING PARTS									
-19	186							Washer - Plain 29/64 ID x 7/8 OD x 3/32 in. thick (main crankcase bolts; use (12) units for AN-5)	14	a b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: MAIN CRANKCASE & STUD (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-3-20	533							Nut - Castle .4375-20 thd x .454 in. thick (main crankcase bolts)	8	a b
-21	4447							Stud - Double shouldered 7/16-24 & 5/16-24 thd x 9-15/32 in. long (main crankcase sections attaching to nose section)	1	a b
-22	9401							Washer - Plain 29/64 ID x 13/16 OD x 3/22 in. thick (main crankcase stud)	1	a b
-23	3965							Gear Assembly - Cam reduction	1	a b
	3447							Gear - Cam reduction small	NP	a b
	2987							Gear - Cam countershaft	NP	a b
-24	4486							Rivet - Round head 7.32 dia x 3.8 in. long (cam reduction gear)	6	a b
-25	1012							Nut - Cam reduction gear	1	a b
-26	AN381-3-8							Cotterpin - .086-.090 dia x .500 in. long (cam reduction gear nut; P & W Part No. 7916)	1	a b
-27	83323							Cotterpin - .100 - .105 dia x .625 in. long (main crankcase bolt nut)	9	a b
-28	33891							Seal - .656 ID x .094 in. thick (main crankcase halves around Part No. 4447 stud)	1	a b
-29	81186							Gear & Ring Assembly - Cam Drive	1	a b
-30	3033							Gear - Cam Drive	1	a b
	3033+3							Gear same as 3033 only .003 in. oversize		
-31	3036							Ring - Cam Drive Gear	1	a b
-32	1345							Gasket - .469 ID pipe flanged x .031 in. thick (blower oil pressure pipe bracket)	1	a b
-33	81188							Bracket & Pipe Assembly - Oil feed rear	1	a b
	18600							Bracket Assembly - Oil feed rear	1	a b
	18599							Bracket Assembly - Oil feed	1	a b
	18016							Bracket - Oil feed	NP	a b
								ATTACHING PARTS		
-34	5658							Bolt - Drilled 7/16 Hexagon Head x 1/4-28 thd x 1-45/64 in. long (oil feed bracket)	2	a b
-35	171							Washer - Plain 17/64 ID x 1/2 OD x 1.16 in. thick (oil feed bracket)	2	a b
-36	502							Nut - Castled 7/16 Hexagon head x 1/4-28 thd x 9/32 in. thick (oil feed bracket bolts)	2	a b
-37	7916							Cotterpin - .072-.076 dia x .500 in. long (oil feed bracket bolt nuts)	2	a b
-38	6237							Ring - Oil feed bracket oil seal	2	a b
	6237-5							Ring same as 6237 only .005 in. undersize		
	6237-10							Ring same as 6237 only .010 in. undersize		
-39	10269							Bracket - Blower oil pressure pipe	1	a b
-40	10268							Pipe - Oil feed upper	1	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: MAIN CRANKCASE & STUD (Cont'd)										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
-2-3-	ATTACHING PARTS										
	202								Screw - Fillister head drilled 1/4-20 thd x 9/16 in. long (oil pressure pipe bracket; use .040 in. wire)	2	a b
-41	8812								Screw - Fillister head drilled 5/16-18 thd x 15/16 in. long (oil feed bracket; use .040 in. wire)	6	a b
-42	9903								Cam assembly	1	a b
	7590								Cam -	NP	a b
	1943								Drum - Cam	NP	a b
	ATTACHING PARTS										
-43	9317								Rivet - Round head .157 dia x 1-7/16 in. long (cam assembly)	35	a b
	81189								Spacer Assembly - Crankshaft thrust bearing	1	b
-44	110019								Spacer Assembly - Crankshaft thrust bearing	1	a
-45	10266								Spacer - Crankshaft thrust bearing	1	a b
-46	33455								Ring - Oil seal 3.607 ID x 3.750 OD x .845 in. thick (crankshaft thrust bearing spacer; use (1) unit for AN-5)	2	a b
	33455+5								Ring same as 33455 only .005 in. oversize		
	33455+10								Ring same as 33455 only .010 in. oversize		
	33455+10W								Ring same as 33455 only .010 in. oversize width		
	33455+20								Ring same as 33455 only .020 in. oversize		
-47	1578								Spacer - Crankshaft adjusting	1	a b
	1578+35								Spacer same as 1578 only .035 in. oversize		
	ATTACHING PARTS										
-48	172								Washer - Plain .328 ID x .562 OD x .062 in. thick (Main crankcase to nose housing Long stud)	1	a
-49	511								Nut - Castled .500 Hexagon Head x .3125-24 NF-3 Thd x .328 in. Thick (Main crankcase to nose housing long stud)	1	a
-50	6								Cotter pin - .072 - .076 dia x .750 in. long (Main crankcase to nose housing long stud)	1	a

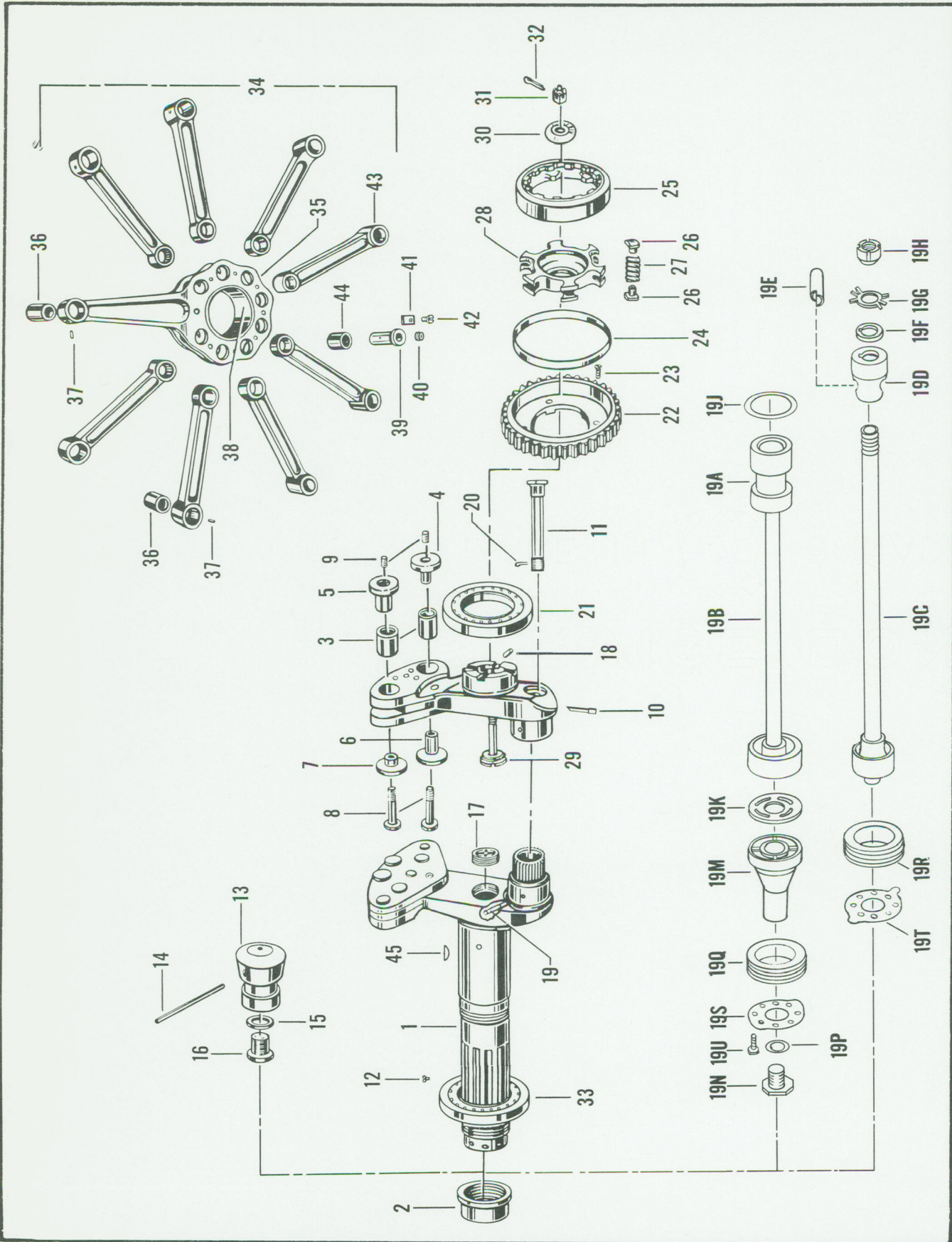


Figure 2-4 - Crankshaft and Connecting Rods

Figure and Index Number	Group: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B						Units per Assy	Usage on Code
	Major Assembly: CRANKSHAFT & CONNECTING ROD							
	Part	1	2	3	4	5 6 7		
2-4-	80987	Crankshaft & Connecting Rod Assembly With Clutch					1	a
	39893	Crankshaft & Connecting Rod Assembly - (for AN-14B only)					1	b
-1	261296	Crankshaft Assembly - (Supersedes No. 80986)					1	a
	261280	Crankshaft Assembly - (Supersedes No. 39892) with 1-3/4-16 N-3 in. crankshaft distributor valve thread; replaces No. 42087 crankshaft assembly with 1-15/16 N-3 in. crankshaft distributor valve thread					1	b
	261278	Crankshaft - Front (Supersedes No. 46553)					NP	a
	261279	Crankshaft - Front (Replaces No. 40350; Supersedes No. 39581 for AN-14B)					NP	b
-2	AN5012-30	Cap - No. 30 (propeller shaft thread; P & W Part No. 91745)					1	a
	36553	Cap - No. 30 (Propeller shaft thread)					1	b
	34467	Counterweight - Front outer (supersedes No. 39917)					NP	a b
	34466	Counterweight - Front inner (supersedes No. 39916)					NP	a b
	395645	Counterweight (See Mod. 10A-10AA-6B/17, SB1730)					2	a b
	ATTACHING PARTS							
	713	Rivet - .7485 dia. x 1.210 in. long (counterweight)					1	a b
	747	Rivet - .7485 dia. x 1.798 in. long (counterweight long)					3	a b
	749	Rivet - .9985 dia. x 1.798 in. long (counterweight large diameter)					2	a b
	23834	Crankshaft - Rear					NP	a b
	39915	Counterweight - Rear					NP	a b
-3	34461	Liner - Flyweight					2	a b
-4	34462	Flyweight - Outer					1	a b
-5	34463	Flyweight - Outer					1	a b
-6	34465	Flyweight - Inner					1	a b
-7	34464	Flyweight - Inner					1	a b
-8	23902	Screw - Flyweight					2	a b
-9	44718	Expander - Flyweight screw					2	a b
	ATTACHING PARTS							
	167	Rivet - .7485 dia. x 1.305 in. long (counterweight short)					3	a b
-10	23922	Jet - Crankshaft oil					1	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: CRANKSHAFT & CONNECTING ROD (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-4-	ATTACHING PARTS									
-11	23904							Bolt - 1-1/8 Hexagon head x 3/4-16 thd x 5-19/64 in. long (crankshaft)	1	a b
-12	22374							Screw - Flat fillister head No. 10-32 thd x 9/32 in. long (spline locating)	1	a b
-13	44078							Plug - Crankshaft	1	a
	44078-30							Plug same as 44078 only .030 oversize	1	a
-14	80985							Pipe - Crankshaft	1	a
-15	44076							Seal - .438 ID x .125 in. thick (front crankshaft plug)	1	a
-16	264399							Plug - Socket Head .625-18 thd x .750 in. long (crank shaft plug; supersedes No. 44075)	1	a
-17	12857							Plug - 1-3/4-12 thd x 1/2 in. long - No. 60 Drill (crankshaft inner)	1	a b
-18	46							Pin - .191 dia x .500 in. long - No. 60 Drill (crankshaft rear)	1	a b
-19	19875							Pipe - Crankshaft	1	a b
-19A	39570							Plug - Crankshaft (contained in Part No. 39892 crankshaft assembly)	1	b
	39571							Pin - Straight .185 dia x 2.844 in. long (crankshaft plug; contained in Part No. 39892 crankshaft assembly)	1	b
-19B	39580							Pipe Assembly - Crankshaft (contained in Part No. 39892 crankshaft assembly)	1	b
-19C	40352							Pipe Assembly - Crankshaft (contained in Part No. 42087 crankshaft assembly)	1	b
-19D	40356							Support - Crankshaft oil pressure pipe rear (contained in part No. 42087 crankshaft assembly)	1	b
-19E	40357							Tube - Crankshaft oil pressure (contained in Part No. 42087 crankshaft assembly)	2	b
-19F	40358							Washer - Plain 45/64 ID x 1-1/8 OD x 1/16 in. thick (crankshaft oil pressure pipe rear nut, contained in Part No. 42087 crankshaft assembly)	1	b
-19G	11120							Tabwasher - .819 ID x .938 OD x .058 in. thick (crankshaft oil pressure pipe rear nut; contained in Part No. 42087 crankshaft assembly)	1	b
-19H	11106							Nut - Spanner 11/16-16 PD x 1-3/16 x 5/16 in. thick crankshaft oil pressure pipe rear; (contained in Part No. 42087 crankshaft assembly)	1	b
-19J	39577							Gasket - 1.469 ID x 1.672 OD x .063 in. thick (crankshaft plug inner contained in Part Nos. 39892 and 42087 crankshaft assembly)	1	b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: CRANKSHAFT & CONNECTING ROD (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-4-19K	39578							Gasket - Crankshaft plug outer(contained in Part Nos. 39892 and 42087 crankshaft assembly)	1	b
-19M	39574							Plug - Crankshaft front(contained in Part Nos. 39892 and 42087 crankshaft assembly)	1	b
	207098							Plug - Crankshaft front(for use in place of Part No. 39574 when any interference is encountered at installation)	1	b
-19N	39579							Plug - .750 hexagon head x .500-20 NF thd x .688 in. long (crankshaft front plug contained in Part Nos. 39892 and 42087 crankshaft assembly)	1	b
-19P	743							Gasket - .516 ID x .688 OD x .078 in. thick (crankshaft front plug contained in Part Nos. 39892 and 42087 crankshaft assembly)	1	b
								ATTACHING PARTS		
-19Q	39575							Nut - Crankshaft front plug (contained in Part No. 39892 crankshaft assembly)	1	b
-19R	40355							Nut - Crankshaft front plug(contained in Part No. 42087 crankshaft assembly)	1	b
-19S	39576							Washer - Crankshaft front plug(contained in Part No. 39892 crankshaft assembly)	1	b
-19T	47705							Washer - Crankshaft front plug(contained in Part No. 42087 crankshaft assembly)	1	b
-19U	12228							Washer - Plain 11/64 ID x 5/16 OD x 1/32 in. thick (crankshaft front plug; contained in Part Nos. 39892 and 42087 crankshaft assembly)	3	b
	220							Screw - Fillister head No. 8-32 thd x 1/4 in. long (crankshaft front plug; use .040 in. wire) (contained in Part Nos. 39892 and 42087 crankshaft assembly)	3	b
-20	AN381-3-14							Cotterpin - .068 - .090 dia x .875 in. long (locks crankshaft bolt; supersedes No. 8 P&W No. 20546)	1	ab
-21	32835							Bearing - Roller 3.1488 ID x 5.5118 OD x 1.0236 in. long (crankshaft rear main; supersedes No. 10782)	1	ab
-22	9405							Gear - Crankshaft rear	1	ab
								ATTACHING PARTS		
-23	299							Screw - Flat head 5/16-24 thd x 3/4 in. long (crankshaft rear gear)	4	ab
-24	9423							Band - Blower spring drive friction	1	ab
-25	7073							Plate - Blower spring drive floating	1	ab
-26	12677							Button - Blower spring drive	14	ab

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: CRANKSHAFT & CONNECTING RODS (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-4-27	12678							Spring - Blower spring drive	7	a b
-28	7072							Plate - Blower spring drive fixed	1	a b
ATTACHING PARTS										
-29	15950							Bolt - Blower spring drive to crankshaft attaching	1	a b
-30	9383							Washer - Plain 29/64 ID x 1-7/16 OD x 1/4 in. thick (blower spring drive bolt nut)	1	a b
-31	533							Nut - Castle .4375-20 thd x .454 in. thick (blower spring drive bolt)	1	a b
-32	20545							Cotterpin - .100 - .105 dia x .750 in. long (blower spring drive bolt nut; supersedes No. 11359)	1	a b
-33	71139							Bearing - Roller 2.9524 - 2.9528 ID x 5.1176-5. .1181 OD x .9813 - .9843 in. long (front main; supersedes No. 10781)	1	a b
-34	128502							Rods Assembly Complete - Connecting	1	a
	39788							Rods Assembly Complete - Connecting	1	b
-35	128512							Masterod Assembly Complete	1	a
	39787							Masterod Assembly Complete	1	b
	39787-4							Masterod Assembly Complete same as 39787 only .004 in. undersize		
	39787-6							Masterod Assembly Complete same as 39787 only .006 in. undersize		
	39786							Masterod Bearing Assembly	1	b
	39786-2							Masterod Bearing Assembly same as 39786 only .002 in. undersize		
	39786-4							Masterod Bearing Assembly same as 39786 only .004 in. undersize		
	39786-6							Masterod Bearing Assembly same as 39786 only .006 in. undersize		
	128511							Masterod Assembly	1	a
	39737							Masterod	NP	a b
-36	84251							Bushing - Plain 1.375 ID x 1.5348 OD x 1.750 in. long (piston pin; supersedes No 337)	1	a b
	84251+5							Bushing Same as 84251 only .005 in. oversize		
-37	63							Dowel - Straight .163 dia x .20 in. long (piston pin bushing)	1	a b
-38	128495							Bearing - Masterod (supersedes No. 32983)	1	a
	128495-2							Bearing same as 128495 only .002 in. undersize		
	128495-4							Bearing same as 128495 only .004 in. undersize		
	128495-6							Bearing same as 128495 only .006 in. undersize		

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: CRANKSHAFT & CONNECTING ROD (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-4-	128495-8							Bearing same as 128495 only .008 in. undersize		
	128495-10							Bearing same as 128495 only .010 in. undersize		
	128495-12							Bearing same as 128495 only .012 in. undersize		
	128495-14							Bearing same as 128495 only .014 in. undersize		
	128495-16							Bearing same as 128495 only .016 in. undersize		
	128495-18							Bearing same as 128495 only .018 in. undersize		
	128495-20							Bearing same as 128495 only .020 in. undersize		
	128495+5							Bearing same as 128495 only .005 in. oversize		
	128495+5-2							Bearing same as 128495 only .005 in. oversize on OD & .002 in. undersize on ID		
	128495+5-4							Bearing same as 128495 only .005 in. oversize on OD & .004 in. undersize on ID		
	128495+5-6							Bearing same as 128495 only .005 in. oversize on OD & .006 in. undersize on ID		
	128495+5-8							Bearing same as 128495 only .005 in. oversize on OD & .008 in. undersize on ID		
	128495+5-10							Bearing same as 128495 only .005 in. oversize on OD & .010 in. undersize on ID		
	128495+5-12							Bearing same as 128495 only .005 in. oversize on OD & .012 in. undersize on ID		
	128495+5-14							Bearing same as 128495 only .005 in. oversize on OD & .014 in. undersize on ID		
	128495+5-16							Bearing same as 128495 only .005 in. oversize on OD & .016 in. undersize on ID		
	128495+5-18							Bearing same as 128495 only .005 in. oversize on OD & .018 in. undersize on ID		
	128495+5-20							Bearing same as 128495 only .005 in. oversize on OD & .020 in. undersize on ID		
	128495+10							Bearing same as 128495 only .010 in. oversize		
	128495+10-2							Bearing same as 128495 only .010 in. oversize on OD & .002 in. undersize on ID		
	128495+10-4							Bearing same as 128495 only .010 in. oversize on OD & .004 in. undersize on ID		
	128495+10-6							Bearing same as 128495 only .010 in. oversize on OD & .006 in. undersize on ID		
	128495+10-8							Bearing same as 128495 only .010 in. oversize on OD & .008 in. undersize on ID		
	128495+10-10							Bearing same as 128495 only .010 in. oversize on OD & .010 in. undersize on ID		

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass y	Usage on Code	
	MAJOR ASSEMBLY: CRANKSHAFT & CONNECTING ROD (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-4-	128495+10-12							Bearing same as 128495 only .010 in. oversize on OD & .012 in. undersize on ID		
	128495+10-14							Bearing same as 128495 only .010 in. oversize on OD & .014 in. oversize on ID		
	128495+10-16							Bearing same as 128495 only .010 in. oversize on OD & .016 in. undersize on ID		
	128495+10-18							Bearing same as 128495 only .010 in. oversize on OD & .018 in. undersize on ID		
	128495+10-20							Bearing same as 128495 only .010 in. oversize on OD & .020 in. undersize on ID		
	32983							Bearing - Masterod	1	b
	32983-2							Bearing same as 32983 only .002 in. undersize		
	32983-4							Bearing same as 32983 only .004 in. undersize		
	32983-6							Bearing same as 32983 only .006 in. undersize		
	32983-8							Bearing same as 32983 only .008 in. undersize		
	32983-10							Bearing same as 32983 only .010 in. undersize		
	32983-12							Bearing same as 32983 only .012 in. undersize		
	32983-14							Bearing same as 32983 only .014 in. undersize		
	32983-16							Bearing same as 32983 only .016 in. undersize		
	32983-18							Bearing same as 32983 only .018 in. undersize		
	32983-20							Bearing same as 32983 only .020 in. undersize		
	32983+5							Bearing same as 32983 only .005 in. oversize		
	32983+5-2							Bearing same as 32983 only .005 in. oversize on OD & .002 in. undersize on ID		
	32983+5-4							Bearing same as 32983 only .005 in. oversize on OD & .004 in. undersize on ID		
	32983+5-6							Bearing same as 32983 only .005 in. oversize on OD & .006 in. undersize on ID		
	32983+5-8							Bearing same as 32983 only .005 in. oversize on OD & .008 in. undersize on ID		
	32983+5-10							Bearing same as 32983 only .005 in. oversize on OD & .010 in. undersize on ID		
	32983+5-12							Bearing same as 32983 only .005 in. oversize on OD & .012 in. undersize on ID		
	32983+5-14							Bearing same as 32983 only .005 in. oversize on OD & .014 in. undersize on ID		
	32983+5-16							Bearing same as 32983 only .005 in. oversize on OD & .016 in. undersize on ID		
	32983+5-18							Bearing same as 32983 only .005 in. oversize on OD & .018 in. undersize on ID		

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: CRANKSHAFT & CONNECTING ROD (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-4-	32983+5-20							Bearing same as 32983 only .005 in. oversize on OD & .020 in. undersize on ID		
	32983+10							Bearing same as 32983 only .010 in. oversize		
	32983+10-2							Bearing same as 32983 only .010 in. oversize on OD & .002 in. undersize on ID		
	32983+10-4							Bearing same as 32983 only .010 in. oversize on OD & .004 in. undersize on ID		
	32983+10-6							Bearing same as 32983 only .010 in. oversize on OD & .006 in. undersize on ID		
	32983+10-8							Bearing same as 32983 only .010 in. oversize on OD & .008 in. undersize on ID		
	32983+10-10							Bearing same as 32983 only .010 in. oversize on OD & .010 in. undersize on ID		
	32983+10-12							Bearing same as 32983 only .010 in. oversize on OD & .012 in. undersize on ID		
	32983+10-14							Bearing same as 32983 only .010 in. oversize on OD & .014 in. undersize on ID		
	32983+10-16							Bearing same as 32983 only .010 in. oversize on OD & .016 in. undersize on ID		
	32983+10-18							Bearing same as 32983 only .010 in. oversize on OD & .018 in. undersize on ID		
	32983+10-20							Bearing same as 32983 only .010 in. oversize on OD & .020 in. undersize on ID		
-39	39785A							Linkpin Assembly - 1.0594 - 1.0597 in. OD	8	a b
	39785B							Linkpin Assembly 1.0597 - 1.0600 in. OD		
	39785C							Linkpin Assembly 1.0600 - 1.0603 in. OD		
	39785D+1							Linkpin Assembly 1.0603 - 1.0606 in. OD		
	39785E+1							Linkpin Assembly 1.0606 - 1.0609 in. OD		
	39785F+1							Linkpin Assembly 1.0609 - 1.0612 in. OD		
	39785A+5							Linkpin Assembly 1.0644 - 1.0647 in. OD		
	39785B+5							Linkpin Assembly 1.0647 - 1.0650 in. OD		
	39785C+5							Linkpin Assembly 1.0650 - 1.0653 in. OD		
	39785D+6							Linkpin Assembly 1.0653 - 1.0656 in. OD		
	39785E+6							Linkpin Assembly 1.0659 - 1.0659 in. OD		
	39785F+6							Linkpin Assembly 1.0659 - 1.0662 in. OD		
	39785A+10							Linkpin Assembly 1.0694 - 1.0697 in. OD		
	39785B+10							Linkpin Assembly 1.0697 - 1.0700 in. OD		
	39785C+10							Linkpin Assembly 1.0700 - 1.0703 in. OD		
	39785D+11							Linkpin Assembly 1.0703 - 1.0706 in. OD		
	39785E+11							Linkpin Assembly 1.0706 - 1.0709 in. OD		
	39785F+11							Linkpin Assembly 1.0709 - 1.0712 in. OD		
	39782							Linkpin -	NP	a b
-40	39749							Plug - 3/8 Hollow hexagon x 11/16-16 thd x 3/8 in. long (linkpin)	1	a b
-41	39783							Lock - Linkpin	4	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: CRANKSHAFT & CONNECTING ROD (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-4-	ATTACHING PARTS									
-42	39748							Screw - Fillister head drilled 5/16-24 thd x 3/8 in. long (linkpin)	8	a b
-43	3592							Linkrod Assembly -	8	a b
	3469							Linkrod -	NP	a b
-44	326							Bushing - Plain 1.053 ID x 1.231 OD x 1.366 in. long (linkpin)	1	a b
	84251							Bushing - Plain 1.375 ID x 1.5348 OD x 1.750 in. long (pistonpin; supersedes No. 337)	1	a b
	84251+5							Bushing same as 84251 only .005 in. oversize		
	63							Dowel - Straight .163 dia x .203 in. long (pistonpin bushing)	1	a b
-45	93							Key - Flat 1/4 x .140 x 1 in. long (locks camdrive gear)	1	a b

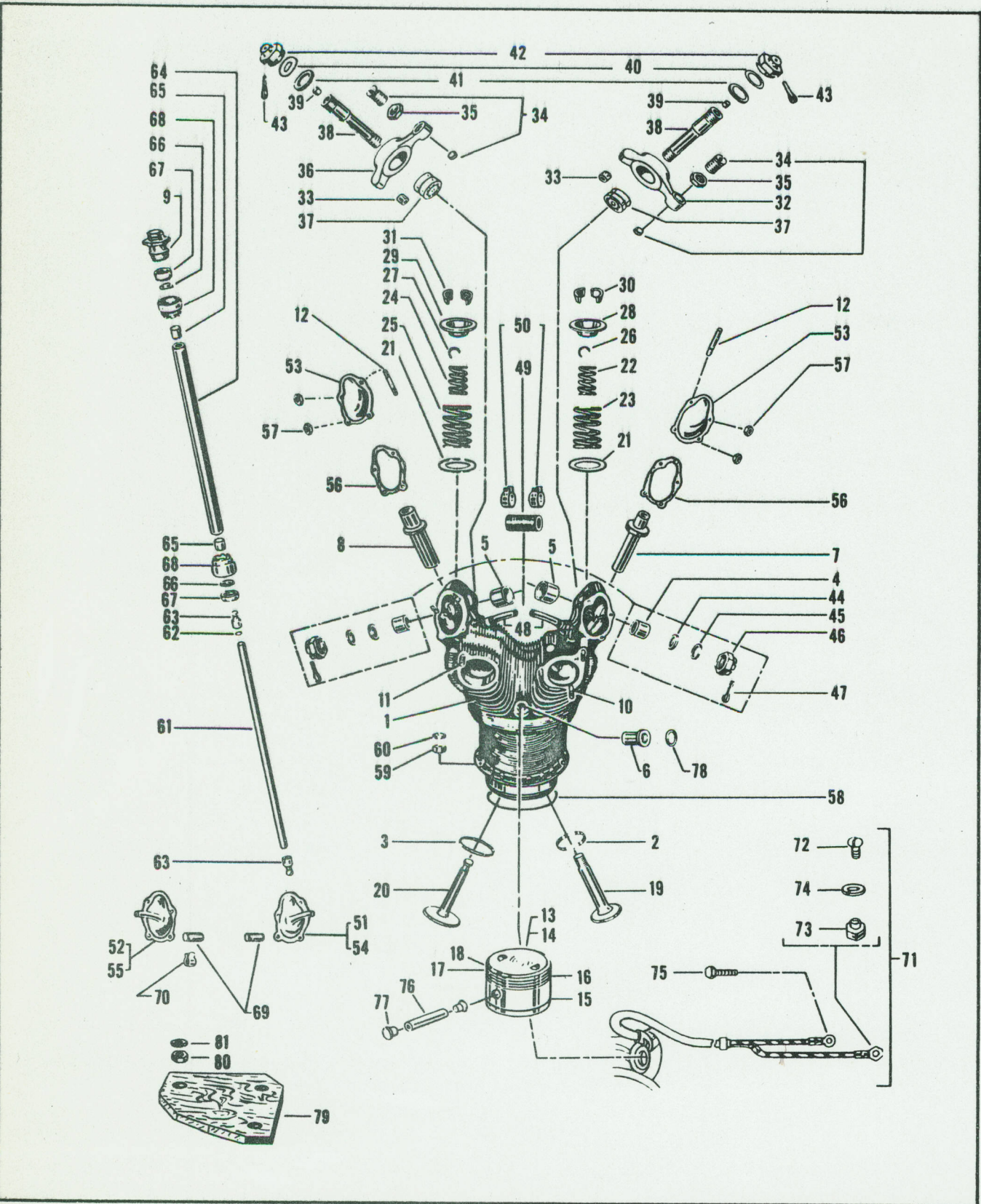


Figure 2-5 - Cylinders

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: CYLINDERS										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-5-	CPW - 9200	Cylinder kits	-	No. 1, 2, 3, 4, 7, 8 & 9 for AN-5 & 4, 7, for AN-14B						7	a b
	CPW - 9201	Cylinder kits	-	No. 5 & 6						2	a b
	CPW - 9202	Cylinder kits	-	No. 1, 2, 3, 8 & 9						5	b
	126741	Cylinder Assembly Complete	-	(Cylinders No. 1, 2, 3, 4, 7, 8 & 9 for AN-5; cylinders 4 & 7 for AN-14B; Supersedes No. 47555)						7	a b
	126834	Cylinder Assembly Complete	-	(Cylinders No. 5 & 6; on AN-5 & No. 5 on AN-14B supersedes No. 47556)						2	a b
	126834	Cylinder Assembly complete	-	(Cylinder No. 6 on AN-14B; supersedes No. 47557)						1	b
	126742	Cylinder Assembly complete	-	(Cylinders No. 1, 2 & 9 on AN-14B; supersedes No. 70951)						3	b
	126742	Cylinder Assembly complete	-	Cylinder No. 8 on AN-14B; supersedes No. 70952)						1	b
	126742	Cylinder Assembly complete	-	(Cylinder No. 3 on AN-14B; supersedes No. 70953)						1	b
-1	47518	Cylinder Machining & Studs Assembly	-	(For all cylinders)						1	a b
	39623	Head - Cylinder								NP	a b
	47517	Barrel - Cylinder								NP	a b
-2	3500	Seat - Intake valve								1	a b
	3500+5	Seat same as 3500 only	.005 in. oversize								
	3500+10	Seat same as 3500 only	.010 in. oversize								
	3500+20	Seat same as 3500 only	.020 in. oversize								
-3	20786	Seat - Exhaust valve								1	a b
	20786+5	Seat same as 20786 only	.005 in. oversize								
	20786+10	Seat same as 20786 only	.010 in. oversize								
-4	2108	Bushing - Valve rocker shaft outside								2	a b
	2108+5	Bushing same as 2108 only	.005 in. oversize								
-5	2943	Bushing - Flanged .6235 ID x .751 OD x .480 in. long (valve rocker shaft inside)								2	a b
	2943+5	Bushing same as 2943 only	.005 in. oversize								
-6	3496	Bushing - 18 m/m - 1.5 m/m ID x 1.0811 - 1.0851 OD-16 Pitch left x 1/2 in. long (sparkplug)								2	a b
	3496+3	Bushing same as 3496 only	.003 in. oversize								
	3496+5	Bushing same as 3496 only	.005 in. oversize								
	3496+10	Bushing same as 3496 only	.010 in. oversize								
	3496+15	Bushing same as 3496 only	.015 in. oversize								
	3496+20	Bushing same as 3496 only	.020 in. oversize								
	3496+30	Bushing same as 3496 only	.030 in. oversize								
-7	3529	Guide - Intake valve								1	a b
	3529+3	Guide same as 3529 only	.003 in. oversize								
	3529+5	Guide same as 3529 only	.005 in. oversize								
	3529+10	Guide same as 3529 only	.010 in. oversize								
	3529+15	Guide same as 3529 only	.015 in. oversize								

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP : Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: CYLINDERS (Cont'd)										
	PART NUMBER	1	2	3	4	5	6			7	NOMENCLATURE
2-5-	3529+20								Guide same as 3529 only .020 in. oversize		
	3529+30								Guide same as 3529 only .030 in. oversize		
-8	39523								Guide - Exhaust valve	1	a b
	39523+3								Guide same as 39523 only .003 in. oversize		
	39523+5								Guide same as 39523 only .005 in. oversize		
	39523+10								Guide same as 39523 only .010 in. oversize		
	39523+20								Guide same as 39523 only .020 in. oversize		
	39523+30								Guide same as 39523 only .030 in. oversize		
-9	9264								Connector - Push rod cover	2	a b
	9264+4								Connector same as 9264 only .004 in. oversize		
-10	625+4								Stud - Plain .3125-18-24 thd x 1.500 in. long (exhaust & intake flange) .004 in. oversize	5	a b
	625+8								Stud same as 625 only .008 in. oversize		
	625+12								Stud same as 625 only .012 in. oversize		
	625+62								Stud same as 625 only .062 in. oversize		
-11	12054+4								Stud - Plain .3125-18-24 thd x 1.250 in. long (deflector fastening) .004 in. oversize	2	a b
	12054+8								Stud same as 12054 only .008 in. oversize		
	12054+12								Stud same as 12054 only .012 in. oversize		
-12	15072+4								Stud - Plain .250-20-28 thd x 1.125 in. long (rocker-box cover) .004 in. oversize	8	a b
	15072+8								Stud same as 15072 only .008 in. oversize		
	15072+12								Stud same as 15072 only .012 in. oversize		
-13	27056								Piston - 6:1 (cylinders No. 1, 2, 3, 4, 7, 8 & 9)	1	a b
	27056+10								Piston same as 27056 only .010 in. oversize		
	27056+20								Piston same as 27056 only .020 in. oversize		
-14	40698								Piston - 6:1 (cylinders No. 5 & 6)	1	a b
	40698+10								Piston same as 40698 only .010 in. oversize		
	40698+20								Piston same as 40698 only .020 in. oversize		
-15	188546								Pistonring - Scraper (if part no. 188546 oil scraper pistonring is used in scraper groove No. 188538 Chrome plated compression ring, must be used in top compression; Supersedes No. 13681 Parts digest No. 1076-E)	1	a b
	188546+10								Pistonring same as 188546 only .010 in. oversize		
	188546+20								Pistonring same as 188546 only .020 in. oversize		
-16	188542								Pistonring - Dual oil control (supersedes No. 17097; Parts Digest 1076D)	2	a b
	188542+10								Pistonring same as 188542 only .010 in. oversize		
	188542+10W								Pistonring same as 188542 only .010 in. oversize on Width		
	188542+10+10W								Pistonring same as 188542 only .010 in. oversize on OD & .010 in. oversize on Width		

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code				
	MAJOR ASSEMBLY: CYLINDERS (Cont'd)												
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE			
2-5- -17	188542+20							Pistonring same as 188542 only .020 in. oversize on OD & .010 in. oversize on Width	2	a b			
	188541							Pistonring - Compression (supersedes No. 27057; Parts digest 1076-E)					
	188541+2W							Pistonring same as 188541 only .002 in. oversize on Width					
	188541+10							Pistonring same as 188541 only .010 in. oversize					
	188541+10W							Pistonring same as 188541 only .010 in. oversize on Width					
	188541+10+2W							Pistonring same as 188541 only .010 in. oversize on OD & .002 in. oversize on Width					
	188541+10+10W							Pistonring same as 188541 only .010 in. oversize on OD & .010 in. oversize on Width					
	188541+10+20W							Pistonring same as 188541 only .010 in. oversize on OD & .020 in. oversize on Width					
	188541+20							Pistonring same as 188541 only .020 in. oversize					
	188541+20W							Pistonring same as 188541 only .020 in. oversize on Width					
	188541+20+2W							Pistonring same as 188541 only .020 in. oversize on OD & .002 in. oversize on Width					
	188541+20+10W							Pistonring same as 188541 only .020 in. oversize on OD & .010 in. oversize on Width					
	188541+20+20W							Pistonring same as 188541 only .020 in. oversize on OD & .020 in. oversize on Width					
	-18	188538									Pistonring - Compression chrome plate (supersedes No. 53616)	1	a b
		188538+2W									Pistonring same as 188538 only .002 in. oversize on Width		
		188538+10									Pistonring same as 188538 only .010 in. oversize		
		188538+10W									Pistonring same as 188538 only .010 in. oversize on Width		
188538+10+2W								Pistonring same as 188538 only .010 in. oversize on OD & .002 in. oversize on Width					
188538+10+10W								Pistonring same as 188538 only .010 in. oversize on OD & .010 in. oversize on Width					
188538+10+20W								Pistonring same as 188538 only .010 in. oversize on OD & .020 in. oversize on Width					
188538+20								Pistonring same as 188538 only .020 in. oversize					
188538+20W								Pistonring same as 188538 only .020 in. oversize on Width					
188538+20+2W								Pistonring same as 188538 only .020 in. oversize on OD & .002 in. oversize on Width					

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP; Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code
	MAJOR ASSEMBLY: CYLINDERS (Cont'd)								
	PART NUMBER	1	2	3	4	5	6 7		
2-5-	188538+20+								
	10W							Pistonring same as 188538 only .020 in. oversize on OD & .002 in. oversize on Width	
	188538+20+								
	20W							Pistonring same as 188538 only .020 in. oversize on OD & .020 in. oversize on Width	
-19	3485							Valve - Intake	1 a b
-20	71166							Valve - Exhaust (supersedes No. 14043)	1 a b
-21	50341							Washer - 1.173 ID x 1.692 OD x .420 in. thick (valve spring lower; supersedes No. 8759)	2 a b
-22	28161							Spring - 1.600 OD x .154 in. dia Wire (intake valve inside)	1 a b
-23	28160							Spring - 1.683 ID x .183 in. dia Wire (intake valve outside)	1 a b
-24	2604							Spring - 1.600 OD x .162 in. dia Wire (exhaust valve inside)	1 a b
-25	2603							Spring - 1.683 ID x 1.92 in. dia Wire (exhaust valve outside)	1 a b
-26	10486							Circlet - Intake valve	1 a b
-27	29410							Lockring - .576 OD x .048 in. thick (exhaust valve)	1 a b
-28	10762							Washer - .658 ID x 13/16 OD x 9/16 in. thick (intake valve spring upper)	1 a b
-29	8760							Washer - .883 ID x 1 OD x 9/16 in. thick (exhaust valve spring upper)	1 a b
-30	17018							Lock - .616 in. dia x 15° (intake valve)	2 a b
-31	21355							Valvelock - Exhaust	2 a b
	59940							Rocker Assembly Complete - Intake valve	1 a b
-32	12974							Rocker Assembly - Intake valve	1 a b
	11475							Rocker - Intake valve large bearing type	NP a b
-33	11477							Cup - Pushrod ball rocker	1 a b
	11477+1							Cup same as 11477 only .001 in. oversize	
	11477+2							Cup same as 11477 only .002 in. oversize	
	11477+4							Cup same as 11477 only .004 in. oversize	
-34	CPW9466							Screw Assembly - Valve clearance adjusting (Supersedes No. 127599)	1 a b
-35	9294							Nut - Plain 3/4 Hexagon head x 19/32-24 thd x 5/32 in. thick (valve adjusting screw lock)	1 a b
	59939							Rocker Assembly Complete - Exhaust valve	1 a
-36	12973							Rocker Assembly - Exhaust valve	1 a b
	11476							Rocker - Exhaust valve large bearing type	NP a
	11477							Cup - Pushrod ball rocker	a b 1
	11477+1							Cup same as 11477 only .001 in. oversize	
	11477+2							Cup same as 11477 only .002 in. oversize	
	11477+4							Cup same as 11477 only .004 in. oversize	
	127599							Screw Assembly - Valve clearance adjusting (supersedes No. 9514; Parts Digest 803)	1 a b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: CYLINDERS (Cont'd)										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-5-	9294								Nut - Plain 3/4 Hexagon head x 19/32-24 thd x 5/32 in. thick (valve adjusting screw lock)	1	a b
-37	9016								Bearing - Ball .4724 ID x 1.5748 OD x .9449 in. long (rocker arm)	2	a b
-38	45937								Shaft Assembly - Valve rocker	2	a b
	40052								Shaft - Valve rocker	NP	a
-39	13621								Cork - 5/16 in. dia (valve rocker shaft)	1	a b
-40	8955								Gasket - .625 ID x .812 OD x .094 in. thick (valve rocker shaft; supersedes No. 234, Parts Digest 507)	2	a b
-41	30489								Seal - .500 ID x .625 OD x .047 in. thick (valve rocker shaft)	2	a b
-42	16405								Nut - Valve rocker shaft	2	a b
-43	AN 381-3-14								Cotterpin - .086 - .090 dia x .875 in. long (valve rocker shaft nut; P & W Part No. 20546)	2	a b
-44	31724								Seal - .375 ID x .080 in. thick (valve rocker shaft)	2	a b
-45	186								Washer - Plain 29/64 ID x 7/8 OD x 3/32 in. thick (valve rocker shaft)	2	a b
-46	532								Nut - Castled 3/4 Hexagon head x 7/16-20 thd x 11/32 in. thick (valve rocker shaft)	2	a b
-47	20545								Cotterpin - .100 - .105 dia x .750 in. long (valve rocker shaft nut)	2	a b
-48	45535								Pipe Assembly - Inter ear oil drain	2	a b
	45535+6								Pipe same as 45535 only .006 in. oversize		
-49	38109								Hose - Inter ear oil drain pipe	1	a b
-50	38093								Clamp - .875 in. ID Hose (inter ear oil drain pipe hose)	2	a b
	AN 520-10-5								Screw - Round head No. 10-32 thd x 5/16 in. long (thermocouple holes; P & W Part No. 21027)	1	a b
	17346								Plug - .281 Square head x .125-27 Pipe x .578 in. long (primer holes on spare cylinders)	1	a b
-51	39527								Cover - Intake rockerbox (use on cylinders No. 3, 4, 6 & 7)	9	a b
-52	39528								Cover - Exhaust valve rockerbox (cylinders No. 4, 5, 7 & 8)	9	a b
-53	39314								Cover - Intake & exhaust rockerbox (cylinders No. 1, 2 & 9: No. 3 exhaust & No. 8 intake)	8	b
-54	40050								Cover - Intake valve rocker (cylinder No. 5)	1	b
-55	40049								Cover - Exhaust valve rockerbox (cylinder No. 6)	1	b
-56	90560								Gasket - Rockerbox cover (supersedes No. 39315)	18	a b

FIGURE and INDEX NUMBER	GROUP Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Assy	Usage on Code	
	MAJOR ASSEMBLY CYLINDERS (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-5-	ATTACHING PARTS									
-57	AN365-428							Nut - Fibre insert 1/4-28 thd x 5/16 in. thick (rockerbox cover) P&W Part No. 12856	72	a b
-58	14438							Seal - 4.625 ID x .113 in. dia Round (cylinder barrel)	9	a b
	ATTACHING PARTS									
-59	110514							Nut - Plain .556 Hexagon head x 3/8-24 thd x .375 in. thick (cylinder holddown; supersedes No. 10449)	90	a b
-60	7635							Palnut - .562 in. Hexagon head x .375-24 PD (cylinder holddown)	90	a b
	45942							Rod Assembly - Push	18	a b
-61	39288							Rod - Intake & exhaust valve push	1	a b
-62	10942							Spacer - Plain 1/4 ID x .551 OD x .040 in. thick (pushrod; spares assemblies are shipped with (2) units	1	a b
-63	11473							Ball - Pushrod end	2	a b
	97921							Cover Assembly complete - Pushrod (Service Bulletin No. 1097)	18	a b
-64	39292							Cover Assembly - Pushrod (Service Bulletin No. 1097)	1	a b
	39287							Cover - Pushrod	NP	a b
-65	32735							Ferrule - .876 ID x .938 OD x .844 in. long (pushrod cover)	2	a b
	32735-10							Ferrule same as 32735 only .010 in. undersize		
-66	14096							Packing - 1.00 ID x 1.281 OD x .125 in. thick (pushrod tube inner; supersedes No. 9282, Service Bulletin No. 1097)	36	a b
-67	161701							Packing - 1.005 ID x 1.285 OD x .400 in. thick (pushrod tube outer; supersedes No. 88917 & 121839, Parts Digest No. 845, Service Bulletin No. 1097)	36	a b
-68	9265							Nut - Upper & lower pushrod tube packing (use .040 in. wire)	36	a b
	17346							Plug - .281 Square head x .125-27 Pipe x .578 in. long (unused primer holes; cylinders No. 4, 5, 6 & 7	4	a b
-69	39526							Hose - Inter cylinder oil drain pipe connection (use (4)) units for all engines except AN-5	8	a b
-70	34079							Clamp Assembly - 1.125 in. ID Hose	16	a b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: CYLINDERS (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-5-	ATTACHING PARTS									
	15188							Screw - Inter cylinder oil drain hose clamp	1	a b
	15189							Nut - Fibre .190-24 thd x .266 in. thick Special inter cylinder oil drain hose clamp)	1	a b
	103106							Thermocouple Assembly Complete - Sparkplug (gasket type (Head type cylinder No. 5 Supersedes No. 15859 & 82720)	1	a b
-71	101248							Thermocouple Assembly - Cylinder Head (gasket type)	1	a b
	88135							Terminal Assembly - Thermocouple wire lock type	NP	a b
	88136							Terminal - Thermocouple wire	NP	a b
	ATTACHING PARTS									
-72	AN515 B6-5							Screw - Round head No. 6-32 thd x .312 in. long (thermocouple wire terminal; F & W Part No. 98996)	1	a b
-73	98997							Nut - Lock No. 6-32 thd (thermocouple wire terminal screw)	1	a b
	88136							Terminal - Thermocouple wire	NP	a b
	101249							Clip - Thermocouple cylinder head	1	a b
	ATTACHING PARTS									
-74	AN935-10							Lockwasher - .194 - .205 ID x .337 OD x .047 - .057 in. thick (thermocouple clip bolt; supersedes No. 188; P & W Part No. 7920	1	a b
-75	AN101010							Bolt - .367 - .376 Hexagon head x .190-32 NF thd x .625 in. long (thermocouple clip; supersedes No. 41174 Parts Digest 1472)	1	a b
-76	354954							Pistonpin Assembly - (supersedes No.234221; See EO 10A-10AA-6B/17)	9	a b
	354953							Pistonpin	NP	a b
-77	47493							Plug - Pistonpin (supersedes No.234223; See EO 10A-10AA-6B/17)	2	a b
-78	AN4027-1							Gasket - .718 ID x .968 OD x .0808 in. thick (sparkplug; P & W Part No. 25893)	18	a b
	72430							Gasket - Exhaust port shipping cover	9	a b
-79	40383							Cover - Exhaust Port Shipping	9	a
	3773							Cover - Exhaust Port Shipping	9	a

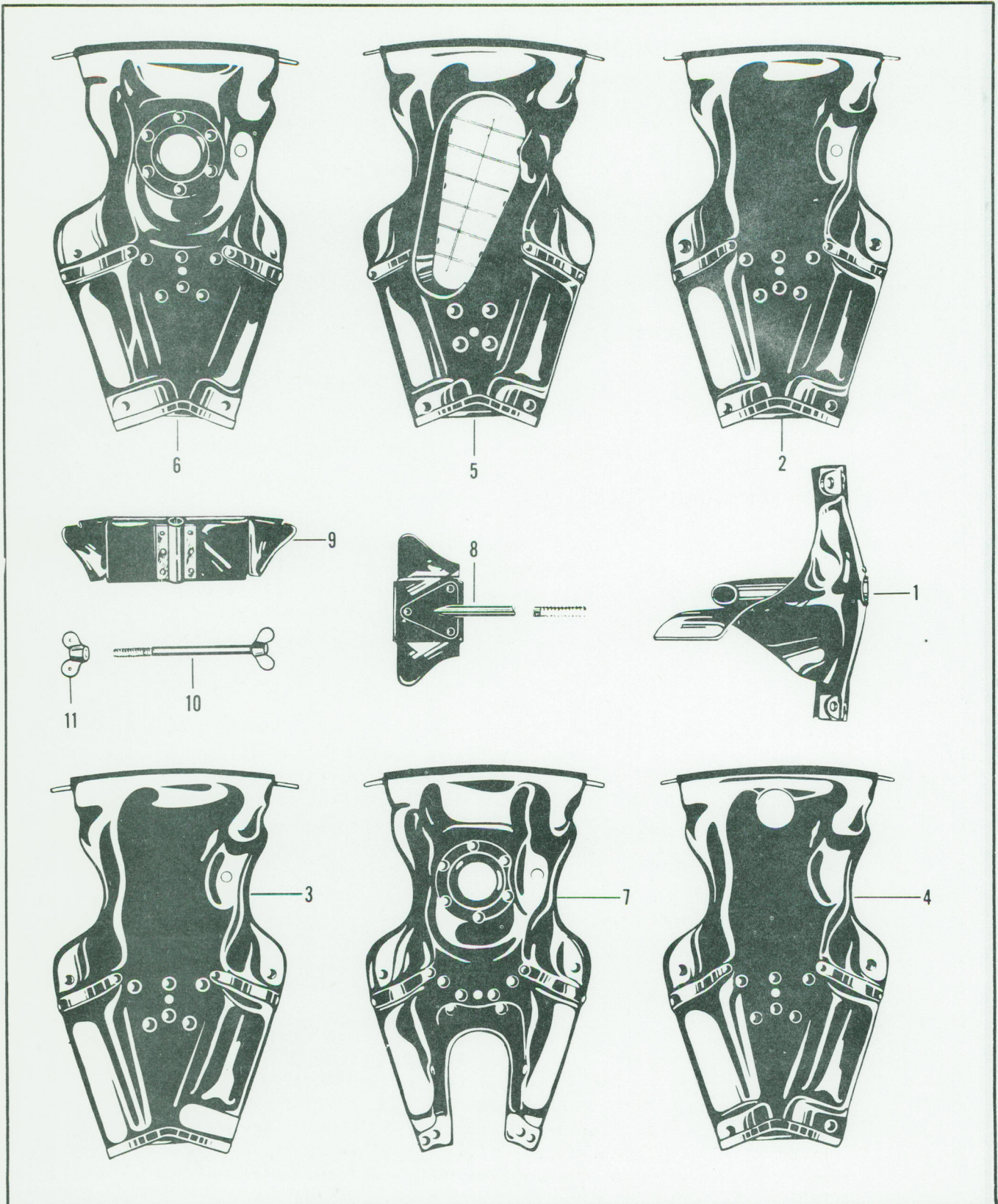


Figure 2-6 - Deflectors (AN-5)

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTOR (AN-5)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-6-	76369							Deflector Assembly Complete - Pressure type (AN-5)	1	a
-1	39980							Deflector Assembly - Inter ear	9	a
	39979							Deflector - Inter ear	NP	a
	39995							Brace Assembly - Inter ear deflector	1	a
	80328							Clip - Inter ear deflector tube	1	a
	74014							Tube - Inter ear deflector blast	1	a
	74026							Support - Inter ear deflector tube	1	a
	ATTACHING PARTS									
	58329							Rivet - Brazier head .095 dia x .281 in. long (deflector)	2	a
	73996							Clip - Inter ear deflector tube	1	a
	ATTACHING PARTS									
	58328							Rivet - Brazier head .095 dia x .218 in. long (deflector)	5	a
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (deflector; P & W Part No. 58322)	3	a
	73995							Rivet - Brazier head .189 dia x .468 in. long (deflector)	2	a
	58325							Rivet - Brazier head .126 dia x .562 in. long (deflector)	2	a
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (deflector; P & W Part No. 57945)	2	a
-2	39982							Deflector Assembly - Inter cylinder (cylinders No. 1-2, 3-4, 6-7 & 9-1)	4	a
	39981							Deflector - Inter cylinder	NP	a
	24883							Guide - Inter cylinder deflector	1	a
	ATTACHING PARTS									
	24884							Bolt - Inter cylinder deflector latch	2	a
	14013							Spring - Deflector	1	a
	12012							Grommet - .312 ID x .812 OD x .312 in. thick (inter ear deflector primer)	1	a
	23612							Nut - Low temperature anchor type .250-28 NF thd x .314 in. thick	1	a
	151627							Strip - Inter cylinder deflector bearing left	1	a
	73988							Strip - Inter cylinder deflector bearing right	1	a
	74016							Strip - Inter cylinder deflector nose blank	1	a
	74013							Brace - Inter cylinder deflector large	1	a
	74012							Brace - Inter cylinder deflector small	1	a
	73981							Plate - Inter cylinder deflector	1	a

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTOR (AN-5) (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-6-	ATTACHING PARTS									
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (deflector; P & W Part No. 58322)	8	a
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (deflector; P & W Part No. 58323)	2	a
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (deflector; P & W Part No. 57945)	4	a
	AN 426AD3-4							Rivet - 100° Countersunk head x .095 dia x .250 in. long (deflector; P & W Part No. 35439)	6	a
	204446							Rivet - Universal head .126 dia x .219 in. long (deflector; supersedes No. 58227)	5	a
-3	76328							Deflector Assembly - Inter cylinder (cylinders No. 5-6	1	a
	76329							Deflector - Inter cylinder	NP	a
	24883							Guide - Inter cylinder deflector	1	a
	14013							Spring - Deflector	1	a
	ATTACHING PARTS									
	24884							Bolt - Inter cylinder deflector latch	2	a
	204446							Rivet - Universal head .126 dia x .219 in. long (deflector; supersedes No. 58227)	5	a
	74013							Brace - Inter cylinder deflector large	1	a
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (deflector; P & W Part No. 58322)	8	a
	151627							Strip - Inter cylinder deflector bearing left	1	a
	73988							Strip - Inter cylinder deflector bearing right	1	a
	ATTACHING PARTS									
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (deflector; P & W Part No. 57945)	4	a
	73981							Plate - Inter deflector reinforcement	1	a
	23612							Nut - Low temperature anchor type .250-28 NF thd x .314 in. thick (deflector)	1	a
	76284							Brace - Inter cylinder deflector center	1	a
	74016							Strip - Inter cylinder deflector nose	1	a
	ATTACHING PARTS									
	AN 426AD3-4							Rivet - 100° Countersunk head x .095 dia x .250 in. long (deflector; P & W Part No. 35439)	2	a

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTOR (AN-5) (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-6-	12012							Grommet - .312 ID x .812 OD x .312 in. thick (inter ear deflector primer)	1	a
	ATTACHING PARTS									
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (deflector; P & W Part No. 58323)	2	a
	77323							Brace - Inter cylinder deflector nose	1	a
	ATTACHING PARTS									
	AN 426AD3-5							Rivet - 100° Countersunk head x .095 dia x .313 in. long (deflector; P & W Part No. 76785)	4	a
-4	76330							Deflector Assembly - Inter cylinder (cylinders No. 7-8)	1	a
	76331							Deflector - Inter cylinder	NP	a
	24883							Guide - Inter cylinder deflector	1	a
	14013							Spring - Deflector	1	a
	ATTACHING PARTS									
	24884							Bolt - Inter cylinder deflector latch	2	a
	204446							Rivet - Universal head .126 dia x .219 in. long (deflector; supersedes No. 58227)	5	a
	74013							Brace - Inter cylinder deflector large	1	a
	ATTACHING PARTS									
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (deflector; P & W Part No. 58322)	8	a
	151627							Strip - Inter cylinder deflector bearing left	1	a
	73988							Strip - Inter cylinder deflector bearing right	1	a
	ATTACHING PARTS									
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (deflector; P & W Part No. 57945)	4	a
	73981							Plate - Inter cylinder deflector reinforcement	1	a
	23612							Nut - Low temperature anchor type .250-28 NF thd x .314 in. thick (deflector)	1	a

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTOR (AN-5) (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-6-	ATTACHING PARTS									
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (deflector; P & W Part No. 58323)	2	a
	74012							Brace - Inter cylinder deflector small	1	a
	74016							Strip - Inter cylinder deflector nose	1	a
	ATTACHING PARTS									
	AN 426AD3-4							Rivet - 100° Countersunk head x .095 dia x .250 in. long (deflector; P & W Part No. 35439)	6	a
	12012							Grommet - .312 ID x .812 OD x .312 in. thick (inter ear deflector primer)	1	a
-5	40589							Deflector Assembly - Inter cylinder (cylinders No. 4-5)	1	a
	40588							Deflector - Inter cylinder	NP	a
	24883							Guide - Inter cylinder deflector	1	a
	ATTACHING PARTS									
	24884							Bolt - Inter cylinder deflector latch	2	a
	14013							Spring - Deflector	1	a
	74088							Screen - Inter cylinder deflector scoop	1	a
	143774							Strip - Inter cylinder deflector bearing (supersedes No. 73988)	1	a
	73988							Strip - Inter cylinder deflector bearing	1	a
	74016							Strip - Inter cylinder deflector nose blank	1	a
	74012							Brace - Inter cylinder deflector small	1	a
	73990							Plate - Inter cylinder deflector reinforcement	1	a
	173595							Scoop - Inter cylinder deflector left half (supersedes No. 74087)	NP	a
	173596							Scoop - Inter cylinder deflector right half (supersedes No. 74087)	NP	a
	ATTACHING PARTS									
	126344							Rivet - Universal head .126 dia x .344 in. long (deflector)	2	a
	126833							Rivet - Universal head .126 dia x .281 in. long (deflector)	24	a
	103674							Rivet - 100° Countersunk head x .126 dia x .281 in. long (deflector)	1	a
	204446							Rivet - Universal head .126 dia x .219 in. long (deflector; supersedes No. 58227)	5	a

FIGURE and INDEX NUMBER	GROUP : Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTORS (AN-5) (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-6-	AS 125721							Rivet - Brazier head .095 dia x .250 in. long (deflector; supersedes No. 57945; P & W Part No. 139479)	4	a
	AS 125740							Rivet - Brazier head .126 dia x .310 in. long (deflector; supersedes No. 58322; P & W Part No. 126832)	2	a
	126833							Rivet - Universal head .126 dia x .281 in. long (deflector; supersedes No. 58321)	4	a
	AN 426AD3-4							Rivet - 100° Countersunk head x .095 dia x .250 in. long (deflector; P & W Part No. 35439)	6	a
	143575							Rivet - Universal head .095 dia x .219 in. long (deflector; supersedes No. 58328)	6	a
-6	40593							Deflector Assembly - Inter cylinder (cylinders No. 8-9)	1	a
	40592							Deflector - Inter cylinder	NP	a
	24883							Guide - Inter cylinder deflector	1	a
	ATTACHING PARTS									
	24884							Bolt - Inter cylinder deflector latch	2	a
	14013							Spring - Deflector	1	a
	12012							Grommet - .312 ID x .812 OD x .312 in. thick (deflector)	1	a
	23612							Nut - Low temperature anchor type .250-28 NF thd x .314 in. thick (deflector)	1	a
	73984							Collar - Inter cylinder deflector	1	a
	74013							Brace - Inter cylinder deflector large	1	a
	74012							Brace - Inter cylinder deflector small	1	a
	151627							Strip - Inter cylinder deflector bearing left	1	a
	73988							Strip - Inter cylinder deflector bearing right	1	a
	74016							Strip - Inter cylinder deflector nose blank	1	a
	73981							Plate - Inter cylinder deflector reinforcement	1	a
	ATTACHING PARTS									
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (deflector; P & W Part No. 58322)	8	a
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (deflector; P & W Part No. 58323)	2	a
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (deflector; P & W Part No. 57045)	4	a
	AN 426AD3-4							Rivet - 100° Countersunk head x .095 dia x . .250 in. long (deflector; P & W Part No. 35439)	6	a
	20446							Rivet - Universal head .126 dia x .219 in. long (deflector; supersedes No. 58227)	5	a

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTOR (AN-5) (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-6-	58321							Rivet - Brazier head .126 dia x .281 in. long (deflector)	6	a
-7	80137							Deflector Assembly - Inter cylinder (cylinders No. 2-3)	1	a
	80136							Deflector - Inter cylinder	NP	a
	24883							Guide - Inter cylinder deflector	1	a
	ATTACHING PARTS									
	24884							Bolt - Inter cylinder deflector latch	2	a
	14013							Spring - Deflector	1	a
	12012							Grommet - .312 ID x .812 OD x .312 in. thick (deflector)	1	a
	151627							Strip - Inter cylinder deflector bearing left	1	a
	73988							Strip - Inter cylinder deflector bearing right	1	a
	74013							Brace - Inter cylinder deflector	1	a
	78928							Plate - Inter cylinder deflector reinforcement	1	a
	74015							Collar - Inter cylinder deflector	1	a
	ATTACHING PARTS									
	AN 455 AD3-4							Rivet - Brazier head .095 dia x .250 in. long (deflector; P & W Part No. 57945)	4	a
	58321							Rivet - Brazier head .126 dia x .281 in. long (deflector)	6	a
	204446							Rivet - Universal head .126 dia x .219 in. long (deflector; supersedes No. 58227)	5	a
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (deflector; P & W Part No. 58322)	10	a
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (deflector; P & W Part No. 58323)	4	a
	73989							Plate - Inter cylinder deflector attaching	1	a
	23612							Nut - Low temperature anchor type .250-28 NF thd x .314 in. thick (deflector)	1	a
-8	38987							Plate & Stud Assembly - Inter cylinder deflector clamp (cylinders No. 4-5)	1	a
	73991							Plate - Inter cylinder deflector clamp	1	a
	20251							Stud - Inter cylinder deflector clamp	1	a
	ATTACHING PARTS									
	AN 455 AD4-5							Rivet - Brazier head .126 dia x .310 in. long (deflector; P & W Part No. 58322)	3	a
-9	40000							Clamp Assembly - Deflector	8	a
	39999							Clamp - Inter cylinder deflector	1	a

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: DEFLECTOR (AN-5) (Cont'd)										
	PART NUMBER	1	2	3	4	5	6			7	NOMENCLATURE
2-6-	39998								Yoke - Inter cylinder deflector	1	a
	ATTACHING PARTS										
	AN 455AD4-5								Rivet - Brazier head .126 dia x .310 in. long (deflector; P & W Part No. 58322)	6	a
	33415								Locknut - Fibre .500 Hexagon head x .3125-24 thd x .344 in. thick (deflector)	18	a
-10	39997								Bolt & Wing Nut Assembly	8	a
	12376								Washer - plain .266 ID x .625 OD x .0625 in. thick (deflector)	9	a
-11	5610								Nut - Wing .250-20 NC thd (deflector)	1	a

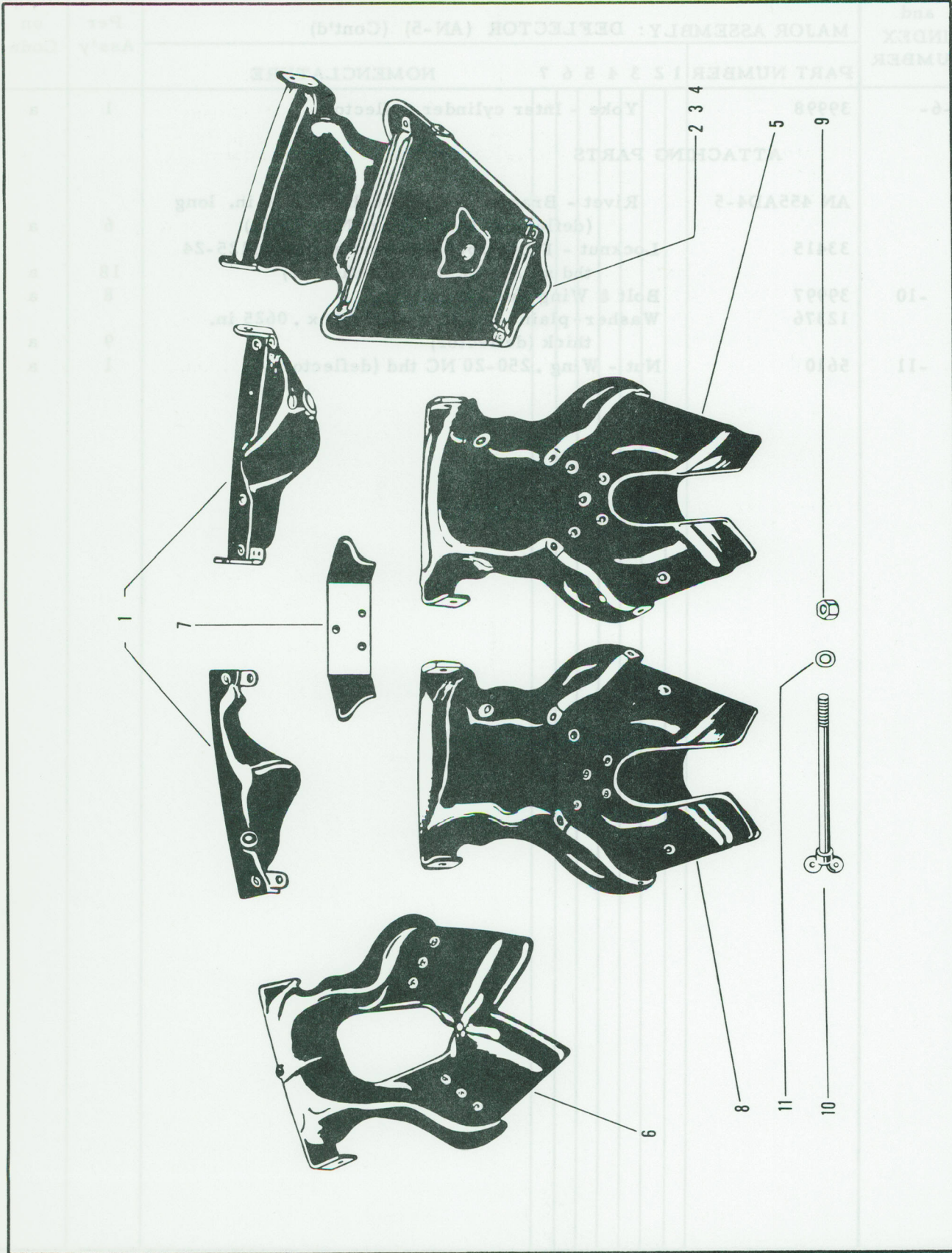


Figure 2-7 - Deflectors (AN-14B)

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTOR (AN-14B)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-7-	41461							Deflector Assembly Complete - Pressure type (AN-14B)	1	b
-1	39980							Deflector Assembly - Inter ear	9	b
	39979							Deflector - Inter ear	NP	b
	39995							Brace Assembly - Inter ear deflector	1	b
	80328							Clip - Inter ear deflector	1	b
	74014							Tube - Inter ear deflector blast	1	b
	74026							Support - Inter ear deflector tube	1	b
	ATTACHING PARTS									
	58329							Rivet - Brazier head .095 dia x .281 in. long	2	b
	73996							Clip -	1	b
	ATTACHING PARTS									
	58328							Rivet - Brazier head .095 dia x .218 in. long	4	b
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (P & W Part No. 58322)	3	b
	73995							Rivet - Brazier head .189 dia x .468 in. long	2	b
	58325							Rivet - Brazier head .126 dia x .562 in. long	2	b
	58328							Rivet - Brazier head .095 dia x .218 in. long	1	b
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (P & W Part No. 57945)	2	b
-2	39982							Deflector Assembly - Inter cylinder (cylinders No. 4-5, 6-7 & 9-1)	3	b
	189107							Cylinder Baffle - (Beech)	1	b
	189108							Cylinder Baffle - (Beech)	1	b
	39981							Deflector - Inter cylinder	NP	b
	24883							Guide	1	b
	ATTACHING PARTS									
	24884							Bolt - Latch	2	b
	23612							Nut - Low temperature, anchor type .250-28 NF thd x .314 in. thick	1	b
	12012							Grommet - .312 ID x .812 OD x .312 in. thick	1	b
	14013							Spring	1	b
	73988							Strip - Inter cylinder deflector bearing	2	b
	74016							Strip - Inter cylinder deflector nose blank	1	b
	74013							Brace - Inter cylinder deflector large	1	b
	74012							Brace - Inter cylinder deflector small	1	b
	73981							Plate - Inter cylinder deflector reinforcement	1	b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTOR (AN-14B) (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-7-	ATTACHING PARTS									
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (P & W Part No. 58322)	8	b
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (P & W Part No. 58323)	2	b
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (P & W Part No. 57945)	4	b
	AN 426AD3-4							Rivet - 100° Countersunk head x .095 dia x .250 in. long (P & W Part No. 35439)	6	b
	AN 455AD4-4							Rivet - Universal head .126 dia x .219 in. long (P & W Part No. 204446 Supersedes 58227; Parts digest 1154)	5	b
-3	39986							Deflector Assembly - Inter cylinder (cylinder No. 3-4 & 8-9)	2	b
	189109							Cylinder Baffle - Carburettor hot air inlet (Beech)	1	b
	39985							Deflector - Inter cylinder	NP	b
	ATTACHING PARTS									
	24884							Bolt - Latch	2	b
	14013							Spring	1	b
	24883							Guide	1	b
	12012							Grommet - .312 ID x .812 OD x .312 in. thick	1	b
	73988							Strip - Inter cylinder deflector bearing	2	b
	ATTACHING PARTS									
	23612							Nut - Low temperature, anchor type .250-28 NF thd x .314 in. thick	1	b
	74016							Strip - Inter cylinder deflector nose blank	1	b
	74013							Brace - Inter cylinder deflector large	1	b
	74012							Brace - Inter cylinder deflector small	1	b
	73981							Plate - Inter cylinder deflector reinforcement	1	b
	ATTACHING PARTS									
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (P & W Part No. 58322)	8	b
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (P & W Part No. 58323)	2	b
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (P & W Part No. 57945)	4	b
	AN 426AD3-4							Rivet - 100° Countersunk head x .095 dia x .250 in. long (P & W Part No. 35439)	6	b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: DEFLECTOR (AN-14B) (Cont'd)										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-7-	AN 455AD4-4								Rivet - Universal head .126 dia x .219 in. long (P & W Part No. 204446 Supersedes 58227; Part Digest 1154)	5	b
-4	39992								Deflector Assembly - Inter cylinder (cylinders No. 7-8)	1	b
	39991								Deflector - Inter cylinder	NP	b
	14013								Spring -	1	b
	ATTACHING PARTS										
	24884								Bolt - Latch	2	b
	24883								Guide -	1	b
	12012								Grommet - .312 ID x .812 OD x .312 in. thick	1	b
	ATTACHING PARTS										
	23612								Nut - Low temperature, anchor type .250-28 NF thd x .314 in. thick	1	b
	73988								Strip - Inter cylinder deflector bearing	2	b
	74016								Strip - Inter cylinder deflector nose blank	1	b
	74013								Brace - Inter cylinder deflector large	1	b
	74012								Brace - Inter cylinder deflector small	1	b
	73981								Plate - Inter cylinder deflector nose blank	1	b
	ATTACHING PARTS										
	AN 455AD4-5								Rivet - Brazier head .126 dia x .310 in. long (P & W Part No. 58322)	8	b
	AN 455AD4-6								Rivet - Brazier head .126 dia x .375 in. long (P & W Part No. 58323)	2	b
	AN 455AD3-4								Rivet - Brazier head .095 dia x .250 in. long (P & W Part No. 57945)	4	b
	AN 426AD3-4								Rivet - 100° Countersunk head x .095 dia x .250 in. long P & W Part No. 35439	6	b
	AN 455AD4-4								Rivet - Universal head .126 dia x .219 in. long (P & W Part No. 204446; supersedes No. 58227; Part Digest 1154)	5	b
-5	39988								Deflector Assembly - Inter cylinder (cylinders No. 2-3)	1	b
	39987								Deflector - Inter cylinder	NP	b
	24883								Guide -	1	b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTORS (AN-14B) (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-7-	ATTACHING PARTS									
	24884							Bolt - Latch	2	b
	14013							Spring -	1	b
	12012							Grommet - .312 ID x .812 OD x .312 in. thick	1	b
	ATTACHING PARTS									
	23612							Nut - Low temperature, anchor type .250-28 NF thd x .314 in. thick	1	b
	73988							Strip - Inter cylinder deflector bearing	1	b
	78928							Plate - Inter cylinder deflector reinforcement	1	b
	74013							Brace - Inter cylinder deflector large	1	b
	73989							Plate - Inter cylinder deflector reinforcement	1	b
	ATTACHING PARTS									
	58332							Rivet - 100° Countersunk head x .126 dia x .313 in. long (supersedes No. 58322; Part Digest 1367)	4	b
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (P & W Part No. 58323)	4	b
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (P & W Part No. 57945)	4	b
	AN 455AD4-4							Rivet - Universal head .126 dia .219 in. long (P & W Part No. 204446 supersedes No. 58227; Part Digest 1154)	5	b
-6	41463							Deflector Assembly Complete - Inter cylinder (cylinders No. 5-6)	1	b
	71538							Deflector Assembly - Inter cylinder (cylinders No. 5-6)	1	b
	41462							Deflector - Inter cylinder left	NP	b
	151744							Deflector - Inter cylinder right	NP	b
	82516							Bracket - Inter cylinder deflector right	1	b
	ATTACHING PARTS									
	265149							Screw - Round head .190-32 thd x .500 in. long (supersedes No. 13705; Parts digest 1531)	1	b
	82517							Bracket Assembly - Inter cylinder deflector right	1	b
	82515							Bracket - Inter cylinder deflector right	1	b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: DEFLECTOR (AN-14B) (Cont'd)										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-7-	ATTACHING PARTS										
	71148								Nut - Low temperature, anchor type .190-32 thd x .281 in. thick	1	b
	AN 426AD3-4								Rivet - 100° Countersunk head .095 dia x .250 in. long (P & W Part No. 35439)	2	b
	71147								Bracket - Inter cylinder deflector left	1	b
	71149								Bracket Assembly - Inter cylinder deflector left	1	b
	71145								Bracket - Inter cylinder deflector left	1	b
	ATTACHING PARTS										
	71148								Nut - Low temperature, anchor type .190-32 NF thd x .281 in. thick	1	b
	AN 426AD3-4								Rivet - 100° Countersunk head x .095 dia x .250 in. long (P & W Part No. 35439)	2	b
	265149								Screw - Round head .190-32 thd x .500 in. long (supersedes No. 13705; Parts Digest 1531)	1	b
	35431								Spring - Dzus fastener	2	b
	35432								Washer - .1285 ID x .250 OD x .040 in. thick	4	b
	49404								Guide - Inter cylinder deflector left hand	1	b
	49405								Guide - Inter cylinder deflector right hand	1	b
	106230								Stiffener - Inter cylinder deflector left hand	1	b
	106229								Stiffener - Inter cylinder deflector right hand	1	b
	106231								Strip - Inter cylinder deflector right	1	b
	106232								Strip - Inter cylinder deflector left	1	b
	115683								Strip - Inter cylinder deflector joining left hand	1	b
	115684								Strip - Inter cylinder deflector joining right hand	1	b
	74018								Strip - Inter cylinder deflector nose left hand	1	b
	74017								Strip - Inter cylinder deflector nose right hand	1	b
	93314								Spring - Inter cylinder deflector guide	2	b
	49406								Latch - Inter cylinder deflector left hand	1	b
	49407								Latch - Inter cylinder deflector right hand	1	b
	106233								Seal - Inter cylinder deflector right	1	b
	106234								Seal - Inter cylinder deflector left	1	b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTOR (AN-14B) (Cont'd)									
	PART NUMBER	1	2	3	4	5	6			7
2-7-	ATTACHING PARTS									
	AN 520-10-6							Screw - Round head No. 10-32 thd x 3/8 in. long (inter cylinder deflector; (P & W Part No. 729)	1	b
	35438							Rivet - Countersunk head .126 dia x .375 in. long	4	b
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (P & W Part No. 58322)	8	b
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. thick (P & W Part No. 57945)	2	b
	AN 426AD3-4							Rivet - 100° Countersunk head x .095 dia x .250 in. long (P & W Part No. 35439)	6	b
	58404							Rivet - Brazier head .095 dia x .344 in. long	20	b
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (P & W Part No. 58323)	2	b
	49403							Plate Assembly - Inter cylinder deflector (cylinders No. 5-6)	1	b
	49402							Plate - Inter cylinder deflector	1	b
	49353							Fastener - Dzus type	2	b
-7	40000							Clamp Assembly - Deflector	8	b
	39999							Clamp - Deflector inter cylinder	1	b
	39998							Yoke - Inter cylinder deflector clamp	1	b
	ATTACHING PARTS									
	AN 455AD4-5							Rivet - Brazier head .126 dia x .210 in. long (P & W Part No. 58322)	6	b
-8	39990							Deflector Assembly - Inter cylinder (cylinders No. 1-2)	1	b
	39989							Deflector - Inter cylinder	NP	b
	ATTACHING PARTS									
	24884							Bolt - Latch	2	b
	14013							Spring -	1	b
	24883							Guide -	1	b
	12012							Grommet - .312 ID x .812 OD x .312 in. thick	1	b
	ATTACHING PARTS									
	23612							Nut - Low temperature, anchor type .250-28 NF thd x .314 in. thick	1	b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: DEFLECTOR (AN-14B) (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-7-	151627							Strip - Inter cylinder deflector bearing left	1	b
	73988							Strip - Inter cylinder deflector bearing right	1	b
	74016							Strip - Inter cylinder deflector nose blank	1	b
	74013							Brace - Inter cylinder deflector large	1	b
	74012							Brace - Inter cylinder deflector small	1	b
	73981							Plate - Inter cylinder deflector reinforcement	1	b
	ATTACHING PARTS									
	AN 455AD4-5							Rivet - Brazier head .126 dia x .310 in. long (P & W Part No. 58322)	8	b
	AN 455AD4-6							Rivet - Brazier head .126 dia x .375 in. long (P & W Part No. 58323)	2	b
	AN 455AD3-4							Rivet - Brazier head .095 dia x .250 in. long (P & W Part No. 57945)	4	b
	AN 426AD3-4							Rivet - 100° Countersunk head x .095 dia x .250 in. long (P & W Part No. 35439)	6	b
	AN 455AD4-4							Rivet - Universal head .126 dia x .219 in. long (P & W Part No. supersedes No. 58227; Part Digest 1154)	5	b
-9	33415							Locknut - Fibre .500 Hexagon head x .3125-24 thd x .344 in. thick (deflector)	18	b
-10	39997							Bolt & Wing Nut Assembly -	8	b
-11	12376							Washer - Plain .266 ID x .625 OD x .0625 in. thick (deflector)	8	b

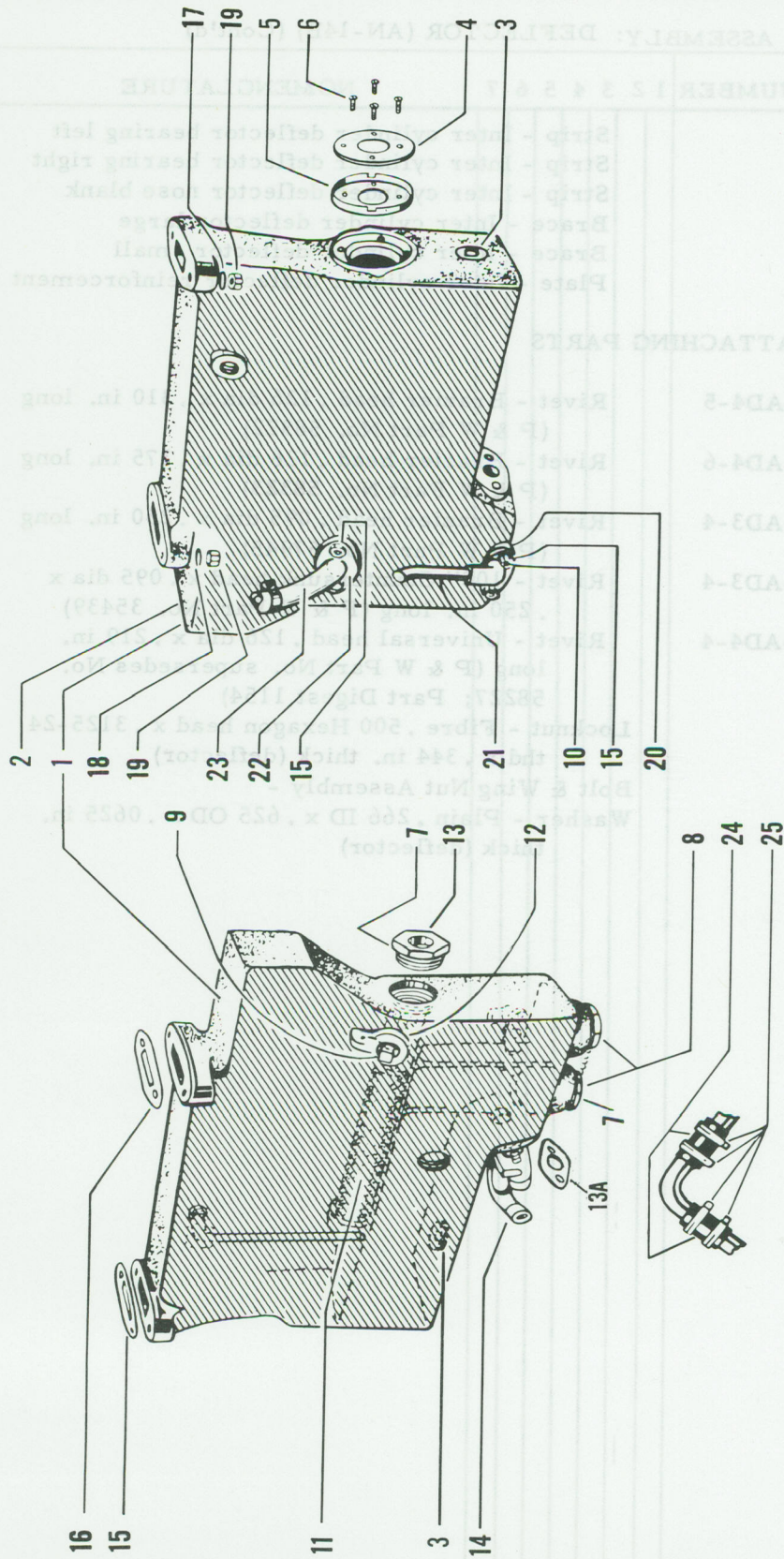


Figure 2-8 - Oil Sump

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: OIL SUMP										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-8-1	81185								Sump & Strainer Assembly Complete - Oil	1	b
-2	48393								Sump Assembly Complete - Oil	1	b
	48392								Sump Machining Assembly - Oil	NP	b
	48388								Sump Casting Assembly - Oil	NP	b
	48394								Sump - Oil cast material	NP	b
	40135								Pipe Assembly - Oil sump vent	NP	b
	40134								Pipe - Oil sump vent	NP	b
	21442								Plug - .172 dia x .094 in. long (pipe vent oil sump)	NP	b
	20117								Bushing - Flanged 1.000-18 & 1.250-12 NS thd x .719 in. long (oil sump plug)	2	b
	20117+3								Bushing same as 20117 only .003 in. oversize		
-3	91453								Plug - Hexagon socket .125 ANPT x .375 in. long Special (inspection port oil sump; supersedes No. 6968 & 89252)	3	b
	91454								Plug - Hexagon socket .125 ANPT x .375 in. long Special (oil sump; supersedes No. 138 & 89884)	1	b
	143								Plug - Welch 1.375 in. dia (oil sump)	1	b
-4	156010								Spacer - 1.040 - 1.080 ID x 1.996-2.000 OD x .010-.020 in. thick (name plate mounting disc)	1	b
-5	156011								Disc - Mounting name plate	1	b
	ATTACHING PARTS										
-6	215								Screw - Flat head .164-32 thd x .312 in. long (name plate mounting disc; supersedes No. 84478)	4	b
-7	AN 900-16								Gasket - 1.008 ID x 1.250 OD x .094 in. thick (oil sump plug; P & W Part No. 237)	2	b
-8	20126								Plug - 1 Hexagon head x No. 1-18 thd x 31/32 in. long (oil sump; use No. .040 in. wire)	2	b
-9	AN 913-3S								Plug - .438 Square head x .375-18 Pipe x .796 in. long (oil sump; P & W Part No. 19865)	1	b
	ATTACHING PARTS										
	39079+4								Stud - Plain .3125-18-24 thd x 1.438 in. long (oil sump drain connection; supersedes No. 9085) .004 in. oversize	2	b
	39079+8								Stud same as 39079+4 only .008 in. oversize		
	39079+12								Stud same as 39079+4 only .012 in. oversize		

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: OIL SUMP (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-8-10	12317+4							Stud + Plain .3125-18-24 thd x 1.312 in. long (oil pipe sump to rear case) .004 in. oversize	4	b
	12317+8							Stud same as 12317 only .008 in. oversize		
	12317+12							Stud same as 12317 only .012 in. oversize		
-11	1149							Strainer - Oil sump	1	b
-12	48390							Retainer - Oil strainer	1	b
	AN 900-16							Gasket - 1.008 ID x 1.250 OD x .094 in. thick (oil strainer hole sump; P & W Part No. 89746 Supersedes No. 237; Part Digest 61)	1	b
-13	23256							Plug - 1.250 Hexagon head x 1.000-14 NF thd x .625 in. long (sump oil strainer hole)	1	b
-13A	40382							Gasket - 3/4 in. Pipe flanged (sump oil drain fitting)	1	b
-14	48389							Fitting - Sump oil drain	1	b
	12094							Washer - Plain .328 ID x .688 OD x .094 in. thick (sump oil drain fitting; supersedes No. 176)	2	b
ATTACHING PARTS										
	33415							Locknut - Fibre .500 Hexagon head x .3125-24 thd x .344 in. thick (sump oil drain fitting)	2	b
-15	3627							Gasket - Oil sump	1	b
-16	1325							Gasket - Oil sump	1	b
ATTACHING PARTS										
-17	17331							Washer - Plain .328 ID x .5628 OD x .125 in. thick (oil sump rear attaching studs)	2	b
-18	172							Washer - Plain .328 ID x .562 OD x .062 in. thick (oil sump attaching studs)	4	b
-19	33415							Locknut - Fibre .500 Hexagon head x .3125-24 thd x .344 in. thick (oil sump attaching studs)	4	b
20	6558							Gasket - .531 ID Pipe flanged x .031 in. thick (oil sump)	2	b
-21	51099							Pipe Assembly - Rocker drain oil suction	1	b
	33415							Locknut - Fibre .500 Hexagon head x .3125-24 thd x .344 in. thick (rocker drain oil suction pipe flange)	4	b
-22	827							Gasket - .688 ID pipe x .031 in. thick (oil sump)	2	b
-23	45941							Pipe Assembly - Main oil suction	1	b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: OIL SUMP (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-8-	ATTACHING PARTS									
	33415							Locknut - Fibre .500 Hexagon head x .3125-24 thd x .344 in. thick (main oil suction pipe flange)	4	b
-24	14667							Hose - .750 ID x 1.625 in. long (sump to cylinders No. 5 & 6)	2	b
-25	34079							Clamp Assembly - 1.125 in. ID Hose	4	b
	ATTACHING PARTS									
	158188							Screw - Inter cylinder oil drain hose clamp	1	b
	158189							Nut - Inter cylinder oil drain hose clamp screw	1	b

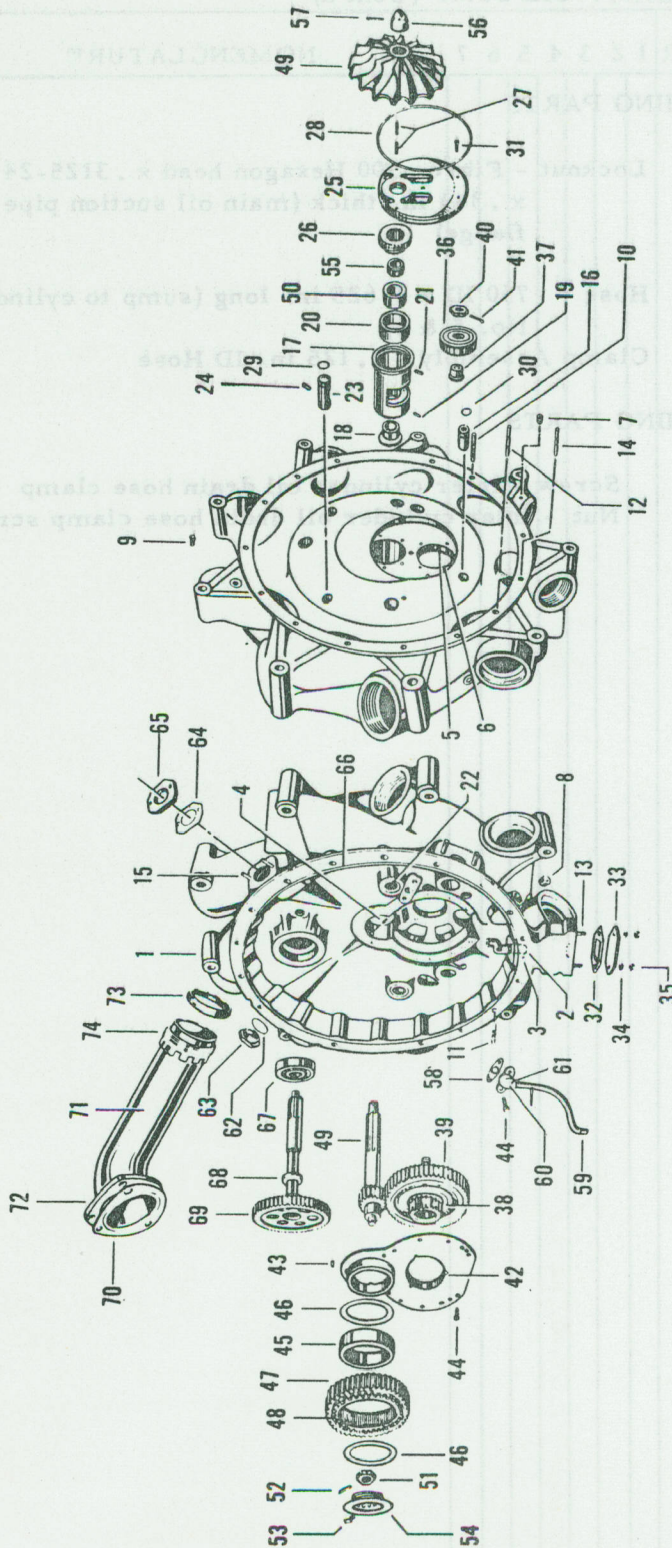


Figure 2-9 - Collector Case and Intake Pipes

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: COLLECTOR CASE									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-9-	121213							Case Assembly Complete - Collector (supersedes No. 81097)	1	a
	47973							Case Assembly Complete - Collector	1	b
-1	126310							Case & Studs Assembly - Collector (replaces No. 126309; for AN-5A with oil seals; Supersedes No. 86884 & 121212)	1	a
	126308							Case & Studs Assembly - Collector (supersedes No. 47972; Parts Digest 890)	1	b
	121211							Case Machining Assembly - Collector (replaces No. 86883; for use with Part No. 126310 collector case)	NP	a
	121210							Case - Collector (replaces No. 86882; for use with Part No. 126310 collector case)	NP	a
	13649							Case - Collector	1	b
	262							Plug - 1-1/16-16 taper thd x 1-5/16 in. long (collector case; for use with cases having cored holes)	NP	a
	1989							Pipe - Impeller air bleed (for all engines except AN-5)	2	b
-2	13651							Fitting - Collector section oil pressure connection	1	a b
	20567							Screw - 1/4 x 28 Thd x 1-1/16 in. long special (impeller cage)	1	a
-3	4199							Pin - Straight .156 dia x 1.031 in. long (oil pressure fitting)	1	a b
	8846							Tube - Internal breather (for all engines except AN-5)	2	b
-4	21896							Jet - Collector section oil	1	a b
-5	5025							Cage - Collector intermediate shaft ball bearing	1	a b
-6	24							Pin - Straight .093 dia x .219 in. long (collector intermediate shaft ball bearing cage)	1	a b
-7	19649							Plug - Plain slotted 1/4 - 20 thd x 1/4 in. long (hole in cylinder No. 5 intake port)	1	a
	19649+4							Plug same as 19649 only .004 in. oversize		
	19649+8							Plug same as 19649 only .008 in. oversize		
-8	11521							Plug - Hexagon socket .125 in. ANPT (holes each side of cylinder No. 6 intake port)	2	a b
-9	17346							Plug - .281 Square head x .125-27 Pipe x .578 in. long (manifold pressure gauge connections)	3	a b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: COLLECTOR CASE (Cont'd.)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-9-	ATTACHING PARTS									
-10	7959+4							Stud - Plain .3125-18-24 thd x 1.844 in. long (collector to rear case) .004 in. oversize	3	a b
	7959+8							Stud same as 7959 only .008 in. oversize		
	7959+12							Stud same as 7959 only .012 in. oversize		
-11	625+4							Stud - Plain .3125-18-24 thd x 1.500 in. long (collector to rear case) .004 in. oversize	9	a b
	625+8							Stud same as 625 only .008 in. oversize		
	625+12							Stud same as 625 only .012 in. oversize		
	625+62							Stud same as 625 only .062 in. oversize		
	11345+4							Stud - Plain .3125-18-24 thd x 1.562 in. long (collector to rear case) .004 in. oversize	2	a b
	11345+8							Stud same as 11345 only .008 in. oversize		
	11345+12							Stud same as 11345 only .012 in. oversize		
-12	9085+4							Stud - Plain .3125 - 18-24 thd x 1.375 in. long (collector to rear case) .004 in. oversize	1	a b
	9085+8							Stud same as 9085 only .012 in. oversize		
-13	90105+4							Stud - Plain .3125-18-24 thd x 2.094 in. long (oil sump fastening) .004 in. oversize	2	a
	90105+8							Stud same as 90105 only .008 in. oversize		
	9252+4							Stud - Plain .3125-18-24 thd x 2.094 in. long (oil sump fastening) .004 in. oversize	2	b
	9252+8							Stud same as 9252 only .008 in. oversize		
	9252+12							Stud same as 9252 only .012 in. oversize		
-14	9385+4							Stud - Plain .3125-18-24 thd x 2.281 in. long (collector to rear case) .004 in. oversize	1	a b
	9385+8							Stud same as 9385 only .008 in. oversize		
	9385+12							Stud same as 9385 only .012 in. oversize		
-15	12054+4							Stud - Plain .3125-18-24 thd x 1.250 in. long (oil drain pipe connection) .004 in. oversize	2	a b
	12054+8							Stud same as 12054 only .008 in. oversize		
	12054+12							Stud same as 12054 only .012 in. oversize		
	45173							Pin - .0947 - .0957 dia x .250 in. long (oil jet)	1	a b
-16	121203							Tube - Collector case to rear case oil drain (replaces No. 86826; for use with Part No. 126310 collector case)	1	a
	121203+10							Tube same as 121203 only .010 in. oversize		
	121203+20							Tube same as 121203 only .020 in. oversize		
	121203+30							Tube same as 121203 only .030 in. oversize		
-17	80486							Bearing & Liner Assembly - Impeller shaft	1	a
	80484							Liner - Impeller shaft	NP	a

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY : COLLECTOR CASE (Cont'd.)										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-9-18	80485								Bearing - Impeller shaft front	1	a
-19	43568								Pin - Straight .1285 dia x .344 in. long (impeller shaft front bearing)	1	a
-20	80483								Bearing - Flanged 1.555 ID x 1.798 OD x .946 in. long (impeller shaft rear)	1	a
-21	4229								Pin straight .1285 dia x 2.81 in. long (impeller shaft rear bearing)	1	a
	9036								Cage - Collector shaft ball bearing	1	b
	9036+5								Cage same as 9036 only .005 in. oversize		
-22	1172								Bushing - Magneto drive shaft short	2	a b
	1172+2								Bushing same as 1172 only .002 in. oversize		
	1172+3								Bushing same as 1172 only .003 in. oversize		
	1172+5								Bushing same as 1172 only .005 in. oversize		
	1172+10								Bushing same as 1172 only .010 in. oversize		
	1172+15								Bushing same as 1172 only .015 in. oversize		
	1172+20								Bushing same as 1172 only .020 in. oversize		
	1172+25								Bushing same as 1172 only .025 in. oversize		
	1172+30								Bushing same as 1172 only .030 in. oversize		
-23	121202								Tube - Collector case to rear case oil drain (replace No. 86890; for use with Part No. 126310 collector case)	1	a
	121202+10								Tube same as 121202 only .010 in. oversize		
	121202+20								Tube same as 121202 only .020 in. oversize		
	121202+30								Tube same as 121202 only .030 in. oversize		
	10414								Plate - Crankcase collector section	2	b
ATTACHING PARTS											
	282								Screw Fillister head drilled No. 10-32 thd x 7/16 in. long (crankcase collector section plate; use .040 in. wire	4	
-24	15								Pin straight .1285 dia x .406 in. long (oil drain tube)	2	a
	15+10								Pin same as 15 only .010 in. oversize		
	15+20								Pin same as 15 only .020 in. oversize		
	15+30								Pin same as 15 only .030 in. oversize		
-25	80493								Cover Assembly - Impeller shaft bearing	1	a
	80492								Cover - Collector bearing	NP	a
	8712								Cover Assembly - Collector bearing	1	b
	8710								Cover - Collector bearing	NP	b
	7644								Pin - Straight .165 dia x .781 in. long (collector bearing cover)	2	b
	7577								Dowel - Straight .165 dia x .500 in. long (collector bearing cover)	2	b
	1778								Gasket - Collector bearing cover	1	b
-26	87241								Seal - Oil 1.032 ID x 2.004 OD x .750 in. thick (impeller shaft oil)	1	a
-27	7577								Dowel - Straight .1875 dia x .500 in. long (collector bearing cover)	2	a

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: COLLECTOR CASE (Cont'd.)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-9-28	14438							Seal - 4.625 ID x .113 in. dia Round (impeller shaft bearing cover)	1	a
-29	36090							Seal - .750 ID x .125 in. thick (collector case to rear case oil drain tube; for use with Part No. 126310 collector case)	2	a
-30	44076							Seal - .438 ID x .125 in. thick (collector case to rear case oil drain tube; for use with Part No. 126310 collector case)	1	a
-31	38602							Screw - Flat fillister head 1/4-20 thd x 9/16 in. long (impeller cover)	8	a
ATTACHING PARTS										
	202							Screw - Fillister head drilled 1/4-20 thd x 9/16 in. long (collector bearing cover: use .040 in. wire)	8	b
-32	1325							Gasket - Sump connection	1	a
-33	74932							Cover - Sump Pad rear	1	a
ATTACHING PARTS										
-34	172							Washer - Plain .328 ID x .562 OD in. thick (Sump cover pad nut)	2	a
-35	33415							Locknut - Fibre .500 Hexagon head x .3125-24 thd x .344 in. thick (Sump cover pad)	2	a
-36	12768							Bearing - Ball .7874 ID x 2.047 OD x .5906 in. long (collector intermediate)	1	a b
-37	5033							Spacer - Collector intermediate bearing	1	a b
-38	20416							Bearing - Ball 1.7717 ID x 3.3465 OD x .7480 in. long (collector intermediate; supersedes No. 12769)	1	a b
-39	6515							Gear - 10:1 (collector intermediate)	1	a b
ATTACHING PARTS										
-40	5032							Nut - Plain 1-1/8 Hexagon head x 1/2-20 thd x 5/16 in. thick (collector intermediate gear)	1	a b
-41	AN381-3-20							Cotterpin - .086-.090 dia x 1.250 in. long (collector intermediate gear nut; P & W Part No. 11357)	1	a b
-42	97927							Cage Assembly - Collector drive	1	a
	80494							Cage - Impeller shaft bearing	NP	a
	47913							Cage Assembly - Main collector drive	1	b
	5021							Cage - Impeller intermediate gear front bearing	NP	b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: COLLECTOR CASE (Cont'd.)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-9-43	46816							Pin - Straight .156 dia x .203 in. long (impeller cage; supersedes No. 47; Parts Digest 819)	1	a b
	ATTACHING PARTS									
-44	202							Screw - Fillister head drilled 1/4-20 thd x 9/16 in. long (impeller cage; use No. .040 wire)	8	a b
-45	5017							Race - Inner roller bearing floating gear	1	a b
-46	5018							Spacer - Floating gear end thrust	1	a b
-47	8797							Gear - Collector drive floating	1	a b
-48	4614							Pin - Roller .1181 dia x .7795 in. long (collector drive floating gear)	79	a b
	5018							Spacer - Floating gear end thrust	1	a b
	12768							Bearing - Ball .7874 ID x 2.0472 OD x .5906 in. long (collector shaft)	1	b
-49	81058							Impeller & Shaft Assembly (for AN-5)	1	a
	19559							Impeller & Shaft Assembly - 10:1 (for all engines except AN-5)	1	b
	12788							Impeller	NP	a b
	6514							Shaft Impeller	1	a b
	81170							Shaft Assembly - Impeller	NP	a
	80487							Shaft - Impeller	NP	a
-50	80489							Journal - Impeller shaft	1	a
	ATTACHING PARTS									
-51	34749							Nut - Front Impeller shaft	1	a
	5453							Nut - Plain 1-1/16 Hexagon head x 3/4-16 thd x 5/16 in. thick (front impeller shaft)	1	b
-52	2							Cotterpin - .072- .076 dia x 1.000 in. long (impeller shaft nut)	1	a
	30							Pin - Straight .098 dia x 1.375 in. long (front impeller shaft nut)	1	b
-53	9035							Lock - Collector drive retaining nut	1	a b
	ATTACHING PARTS									
-54	5019							Nut - Floating gear & blower shaft retainer	1	a b
-55	80490							Spacer - Impeller shaft rear	1	a
	12768							Bearing - Ball .7874 ID x 2.0472 OD x .5906 in. long	2	b
	13755							Baffle - Collector drive oil	1	b
	5023							Closure - Collector shaft ball bearing	1	b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: COLLECTOR CASE (Cont'd.)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-9-	8711							Spacer - Rear collector shaft oil	1	b
	8711+10							Spacer same as 8711 only .010 in. oversize		
	8711+20							Spacer same as 8711 only .020 in. oversize		
-56	30604							Nut - Impeller	1	a b
-57	35081							Pin - .140 dia x 1 in. long (impeller nut)	1	a b
-58	1345							Gasket - .469 ID Pipe flanged x .031 in. thick (collector oil pressure pipe bracket)	1	a b
-59	13842							Nozzle & Bracket Assembly - Collector oil pressure	1	a b
	13841							Pipe & Nozzle Assembly - Collector oil pressure	NP	a b
-60	1326							Bracket - Collector oil pressure pipe	1	a b
-61	30							Pin - Straight .098 dia x 1.375 in. long (oil pressure pipe to bracket)	1	a b
	ATTACHING PARTS									
	202							Screw - Fillister head drilled 1/4-20 thd x 9/16 in. long (oil bracket to collector housing; use .040 in. wire)	2	a b
-62	33891							Seal - .656 ID x .094 in. thick (collector breather plug; use (1) unit for AN-14B	2	a b
-63	255							Plug - 1-3/8-12 dia x 7/16 in. long (collector case breather hole; use (1) unit for AN-14B	2	a b
	17346							Plug - .281 Square head x .125-27 Pipe x .578 in. long (collector case; use .040 in. wire)	1	a b
-64	6191							Gasket - .812 ID Pipe flanged x .031 in. thick (collector case pipe flange)	1	a b
	38436							Breather Assembly - Rear	1	b
	35932							Gasket - 1.281 ID x 1.500 OD x .031 in. thick (rear breather connection)	1	b
	35930							Body - Breather connection	1	b
	38354							Connection - Breather	1	b
	38353							Connection - Breather exhaust	1	b
	ATTACHING PARTS									
	171							Washer - Plain 17/64 ID x 1/2 OD x 1/16 in. thick (breather connection screw)	1	b
	19575							Screw - 7/16 Hexagon head drilled x 1/4-28 thd x 1-1/16 in. long (breather connection)	1	b
	38355							Clamp - Breather connection	1	b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: COLLECTOR CASE (Cont'd.)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-9-	ATTACHING PARTS									
	265149							Screw - Round head No. 10-32 thd x 1/2 in. long (breather connection clamp; super- sedes No. 13705)	1	b
	11748							Nut - Fibre insert No. 10-32 thd x 15/64 in. thick (breather connection clamp)	1	b
	9598							Pipe Assembly - Oil Drain gear	1	b
-65	75162							Flange - Blank .344 OD x .219 in. thick (collector case pipe opening)	1	a
	ATTACHING PARTS									
	33415							Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (collector case blank flange)	2	a b
-66	38606							Seal - 16.625 ID x .125 in. dia Round (collector to main crankcase; supersedes No. 12584)	1	a b
-67	104							Bearing - Ball 1.1811 ID x 2-4409 OD x .6299 in. long (Starter gear)	1	a
-68	1335							Spacer - Starter Gear	1	a
-69	3278							Gear - Starter	1	a
-70	3503							Gasket - Intake & exhaust flange	18	a b
-71	70472							Pipe - Intake (supersedes No. 7621)	9	a b
-72	3506							Flange - 2.156 in. OD Pipe (intake pipe)	9	a b
	10464							Flange - 2.156 in. OD Pipe (exhaust pipe)	9	a b
-73	863							Packing - Intake pipe	9	a b
	ATTACHING PARTS									
-74	861							Nut - 2-1/2 thd (intake pipe packing)	9	a b
	172							Washer - Plain 21/64 ID x 9/16 in. thick (intake pipe studs & bolt)	27	a b
	4669							Screw - 1/2 Hexagon head drilled x 5/16-18 thd x 15/16 in. long (intake pipe; use .040 in. wire; supersedes No. 206)	9	a b
	33415							Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (intake pipe studs)	18	a b
	513							Nut - Plain 1/2 Hexagon head x 5/16-24 thd x 3/8 in. thick (exhaust port studs)	27	a b
	818							Palnut - .500 in. Hexagon head x .3125-24 PD (exhaust port studs)	27	a b
	10414							Plate - Intake Breather	2	b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: COLLECTOR CASE (Cont'd.)									
	PART NUMBER	1	2	3	4	5	6			7
2-9-	ATTACHING PARTS									
	282							Screw - Fillister head drilled .190-32 NF thd x .438 in. long (collector section plate)	4	b
								ATTACHING PARTS		
								Nut - Five insert 5/16 x 1/4 in. thick (collector case)	33	
								Seal - 16 625 ID x .125 in. thick (collector case)	38	
								Bearing - Ball 1.1811 ID x .625 OD x .625 in. long (starter gear)	10	
								Spacer - Starter Gear	13	
								Gear - Starter	35	
								Gasket - Intake & exhaust	35	
								Pipe - Intake (supercharger)	70	
								Flange - 2.156 in. OD (intake pipe)	35	
								Flange - 2.156 in. OD (exhaust pipe)	10	
								Packing - Intake pipe	86	
								ATTACHING PARTS		
								Nut - 2-1/2 thd (intake pipe)	86	
								Washer - Plain 2 1/4 in. thick (intake pipe studs)	17	
								Screw - 1/2 Hexagon head x 1 1/2 in. long (intake pipe)	46	
								in. wire; supercharger		
								Nut - Five insert 5/16 x 1/4 in. thick (intake pipe)	33	
								Nut - Plain 1/2 Hexagon head x 3/8 in. thick (exhaust port studs)	51	
								Plate - .500 in. Hexagon (exhaust port stud)	81	
								Plate - Intake Breather	10	

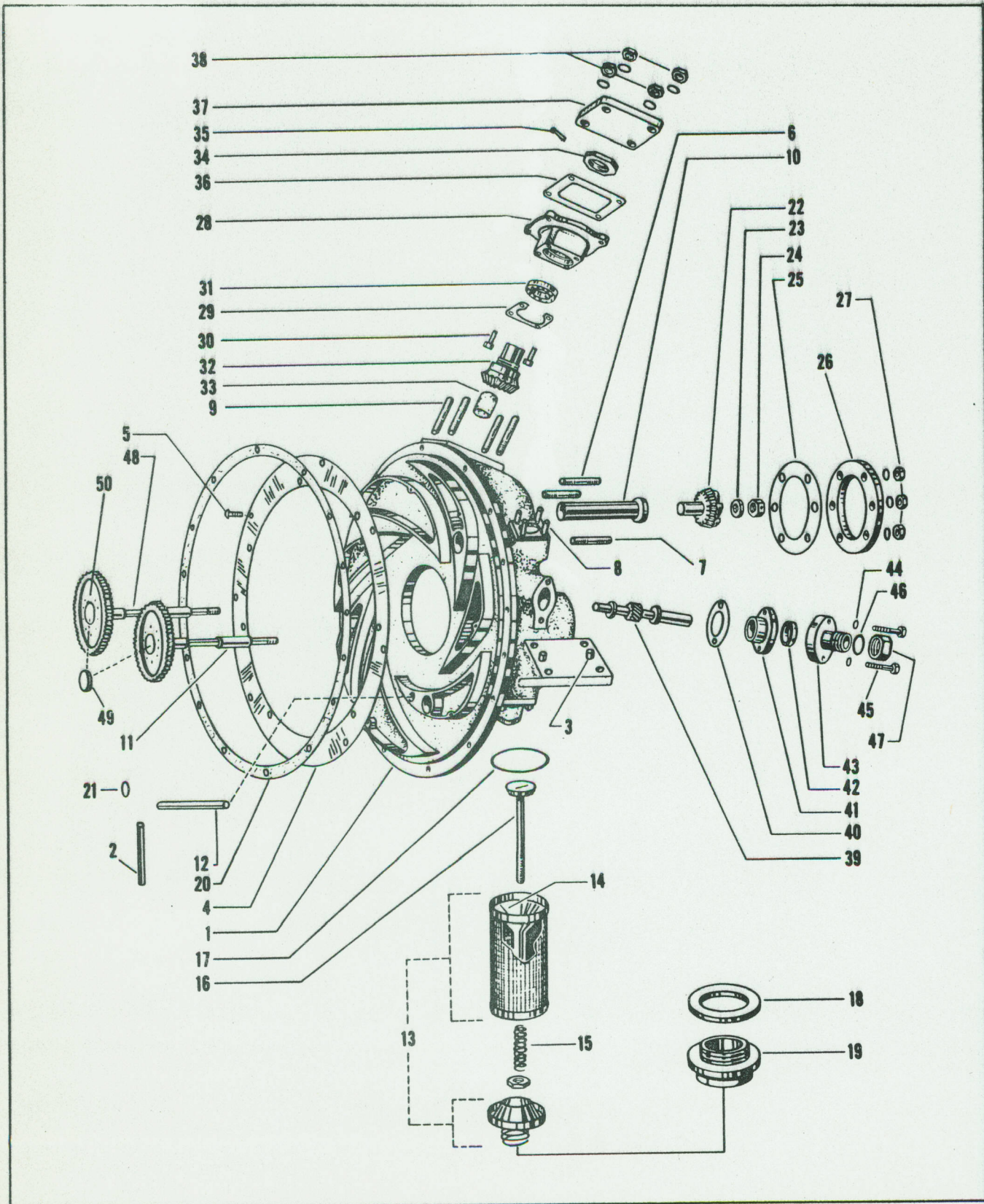


Figure 2-10 (Sheet 1 of 2) Rear Case

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: REAR CASE									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-10-1	48564							Case Assembly Complete - Rear (for AN engines using NA-R9B carburetors)	1	b
	123724							Case Assembly Complete - Rear (replaces No. 123547; for AN-5 with oil seals)	1	a
	126299							Case & Studs Assembly - Rear (for AN engines using NA-R9B carburetors; supersedes No. 47554; Parts Digest 890)	1	b
	126304							Case & Studs Assembly - Rear (replaces No. 126305; for use with Part No. 123724 rear case & Studs Assembly)	1	a
	57999							Case Machining Assembly - Rear	NP	b
	121217							Case Machining Assembly - Rear (Supersedes No. 80496; for use with Part No. 123724 rear case & studs assembly)	NP	a
	39106							Case Casting Assembly - Rear	NP	b
	121216							Case Casting Assembly - Rear (for use with Part No. 123724 case & Studs Assembly)	1	a
	136							Plug - Hexagon socket .750 ANPT x .500 in. long Special (rear crankcase)	3	a b
	AN 932 D3							Plug Hexagon socket .250 in. ANPT (rear crankcase; P & W Parts No. 129)	2	a b
-2	10897							Pipe Oil pressure rear crankcase	1	a b
	57852							Pin - Straight .0985 dia x .740 in. long (pressure pipe fastens rear crankcase; supersedes No. 30)	1	a b
	AN 932 D2							Plug - Hexagon socket .125 in. ANPT (rear case; P & W Part No. 138)	1	a
-3	11051							Dowel - Straight .312 dia x .500 in. long (magneto locating)	4	a b
	11051+2							Dowel same as 11051 only .002 in. oversize		
	AN913-3S							Plug - .438 Square head x .375-18 Pipe x .796 in. long (rear case oil; P & W Part No. 19865)	1	a b
-4	3649							Plate - Vane discharge	1	a b
	ATTACHING PARTS									
-5	7359							Screw - Flat head No. 10-32 thd x 1/2 in. long (vane discharge plate; supersedes No. 214)	7	a b
	138							Plug - Hexagon socket .125 in. ANPT (oil strainer inspection hole)	1	a
-6	12082+4							Stud - Plain .375-16-24 thd x 1.531 in. long (starter).004 in. oversize	2	a b
	12082+8							Stud same as 12082 only .008 in. oversize		
	12082+12							Stud same as 12082 only .012 in. oversize		

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: REAR CASE (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-10-7	12091+4							Stud - Plain .375-16-24 thd x 1.781 in. long (starter) .004 in. oversize	4	a b
	12091+8							Stud same as 12091 only .008 in. oversize		
	12091+12							Stud same as 12091 only .012 in. oversize		
-8	77913+4							Stud - Plain 1/4-20-28 thd x 1.380 in. long (gun synchronizer; supersedes No. 43613; Parts Digest 494 (4) units on the left hand side) .004 in. oversize	6	a b
	77913+8							Stud same as 77913 only .008 in. oversize		
-9	26264+4							Stud - Drilled .3125-18-24 thd x 1.781 in. long (generator; for AN engines) .004 in. oversize	4	b
	26264+8							Stud same as 26264 only .008 in. oversize		
	26264+12							Stud same as 26264 only .012 in. oversize		
	9085+4							Stud - Plain .3125-18-24 thd x 1.375 in. long (generator) .004 in. oversize	4	
	9085+8							Stud same as 9085 only .008 in. oversize		
	9085+12							Stud same as 9085 only .012 in. oversize		
	34079							Clamp Assembly 1.125 ID Hose (cylinder head oil drain)	3	a
	158188							Screw - Cylinder head oil drain clamp	1	a
	158189							Nut - Fibre .190-24 thd x .266 in. thick Special (Cylinder head oil drain clamp screw)	1	a
	59739							Cylinder head oil drain No. 7 & 8 Pipe Hose	1	a
	74956							Pipe Assembly - Cylinder head oil drain	1	a
-10	1191							Bushing - Starter Shaft	1	a b
	1191+2							Bushing same as 1191 only .002 in. oversize		
	1191+3							Bushing same as 1191 only .003 in. oversize		
	1191+5							Bushing same as 1191 only .005 in. oversize		
	1191+10							Bushing same as 1191 only .010 in. oversize		
	1191+15							Bushing same as 1191 only .015 in. oversize		
	1191+20							Bushing same as 1191 only .020 in. oversize		
	1191+30							Bushing same as 1191 only .030 in. oversize		
	121207							Spacer - Starter bushing oil (for use with Part No. 123724 rear case & studs assembly)	1	a
	121207+2							Spacer same as 121207 only .002 in. oversize		
	121207+3							Spacer same as 121207 only .003 in. oversize		
	121207+5							Spacer same as 121207 only .005 in. oversize		
	121207+10							Spacer same as 121207 only .010 in. oversize		
	121207+15							Spacer same as 121207 only .015 in. oversize		
	121207+20							Spacer same as 121207 only .020 in. oversize		
	121207+30							Spacer same as 121207 only .030 in. oversize		
	28955							Seal - 1.156 ID x .125 in. thick (starter bushing oil; for use with Part No. 123724 rear case & studs assembly)	1	a
-11	1174							Bushing - Magneto drive shaft long	2	a b
	1174+2							Bushing same as 1174 only .002 in. oversize		
	1174+3							Bushing same as 1174 only .003 in. oversize		

Group Assembly Part List

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP Pratt & Whitney R-985 (WASP JR.) Series AN-5 & AN-14B							Units per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: REAR CASE (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-10-	1174+5	Bushing	same	as	1174	only	.005 in.oversize			
	1174+10	Bushing	same	as	1174	only	.010 in.oversize			
	1174+15	Bushing	same	as	1174	only	.015 in.oversize			
	1174+20	Bushing	same	as	1174	only	.020 in.oversize			
	1174+30	Bushing	same	as	1174	only	.030 in.oversize			
	121208	Spacer	-	Magneto	bushing	oil	(for use with Part No.123724 rear case and studs assembly)	2	a	
	121208+2	Spacer	same	as	121208	only	.002 in.oversize			
	121208+3	Spacer	same	as	121208	only	.003 in.oversize			
	121208+5	Spacer	same	as	121208	only	.005 in.oversize			
	121208+10	Spacer	same	as	121208	only	.010 in.oversize			
	121208+15	Spacer	same	as	121208	only	.015 in.oversize			
	121208+20	Spacer	same	as	121208	only	.020 in.oversize			
	121208+30	Spacer	same	as	121208	only	.030 in.oversize			
	36090	Seal	-	.750 ID x .125 in.thick	(magneto	bushing	oil; for use with Part No.123724 rear case and studs assembly)	2	a	
-12	4807	Tube	-	Rear	to	collector	case	oil	pressure	
	4807+10	Tube	same	as	4807	only	.010 in.oversize			
	4807+20	Tube	same	as	4807	only	.020 in.oversize			
	4807+30	Tube	same	as	4807	only	.030 in.oversize (Parts Digest 1613)			
	4807+40	Tube	same	as	4807	only	.040 in.oversize (Parts Digest 1613)			
	4807+50	Tube	same	as	4807	only	.050 in.oversize (Parts Digest 1613)			
	121209	Spacer	-	Oil	pressure	tube	oil	(for use with Part No.123724 rear case and studs assembly)	1	a
	121209+10	Spacer	same	as	121209	only	.010 in.oversize			
	121209+20	Spacer	same	as	121209	only	.020 in.oversize			
	44076	Seal	-	.438 ID x .125 in.thick	(oil	pressure	tube oil; for use with Part No.123724 rear case and studs assembly)	1	a	
-13	59189	Screen	Assembly	-	Oil	(supersedes	No.22545)	1	ab	
	58893	Screen	-	Oil	(supersedes	No.22542)		NP	ab	
	22543	Reinforcement	-	Oil	screen			NP	ab	
	22544	Ferrule	-	2.062 ID x 2.123 OD x .312 in.long	(oil	screen	top)	NP	ab	
	22890	Ferrule	-	Oil	screen	bottom		NP	ab	
	22894	Spring	-	Oil	screen	retaining		NP	ab	
	25978	Valve & Seat	Assembly	-	Oil	return	check	1	ab	
-14	22897	Seat	-	Oil	return	check	valve	1	ab	
-15	22896	Spring	-	.350 OD x .038 in.dia	wire	(oil	return check valve)	1	ab	
-16	22895	Valve	-	Oil	return	check		1	ab	

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: REAR CASE (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-10-17	23435							Seal - 1.688 ID x .141 in. thick (oil return check valve)	1	a b
	ATTACHING PARTS									
	AN 121502							Nut - Plain .250-28 thd x .219 in. thick (oil return check valve; supersedes No. 501 Parts Digest 851)	1	a b
-18	235							Gasket - 2.375 ID x 2.750 OD x .094 in. thick (oil screen cover)	1	a b
-19	10524							Cover - Oil screen	1	a b
	ATTACHING PARTS									
	12094							Washer - Plain 21/64 ID x 11/16 OD x 3/32 in. thick (rear case to collector)	16	a b
	33415							Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (rear case to collector)	15	a b
	12009							Nut - Plain 1/2 Hexagon head x 5/16-24 thd x 13/64 in. thick (rear case to collector)	1	a b
	818							Palnut - .500 in. Hexagon head x .3125-24 PD (rear case to collector)	1	a b
-20	1187							Gasket - Collector rear crankcase	1	a b
	172							Washer - Plain 21/64 ID x 9/16 OD x 1/16 in. thick (collector to main crankcase)	1	a b
	512							Nut - Plain 1/2 Hexagon head x 5/16-24 thd x 17/64 in. thick (collector to main crankcase)	1	a b
	818							Palnut - .500 in. Hexagon head x .3125-24 PD (collector to main crankcase)	1	a b
-21	9876							Washer - Chamfered .391 ID x .750 OD x .094 in. thick (collector to main crankcase)	17	a b
	4381							Nut - Plain 9/16 Hexagon head x 3/8-24 thd x 21/64 in. thick (collector to main crankcase)	17	a b
	7635							Palnut - .562 in. Hexagon head x .375-24 PD (collector to main crankcase)	17	a b
	13404							Plug - Oil pressure hole to right of vacuum pump drive pad (use .040 in. wire)	1	a

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: REAR CASE (Cont'd)										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-10-	84106								Gasket - Oil inlet & outlet connections (for shipping only; use Part No. 11042 gasket for engine operation)	2	a b
	33858								Cover - Oil connection shipping	2	a b
	ATTACHING PARTS										
	33415								Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (oil connection shipping cover)	4	a b
	53203								Plug - Engine oil line to constant speed unit (H. S.)	1	b
	AN933-2								Plug - Engine oil line to constant speed unit (H. S. for engine equipped with hydromatic type crankshaft but utilizing two position controllable counterweight propeller; for AN-14B only)	1	b
	11052								Disc - Magneto coupling rubber	2	a b
	11052-31								Disc same as 11052 only .031 in. undersize		
	11052+31								Disc same as 11052 only .031 in. oversize		
	ATTACHING PARTS										
	173								Washer - Plain .391 ID x .688 OD x .062 in. thick (Magneto mounting)	6	a b
	8756								Bolt - 9/16 Hexagon head drilled x 3/8-16 thd x 1 in. long (Magneto mounting; use .040 in. wire)	6	a b
-22	119526								Jaw - Starter (for installations requiring a three tooth jaw; for use with Part No. 119528 strengthened housing & shaft gear assembly, 2:1 generator drive)	1	b
	ATTACHING PARTS										
-23	104749								Washer - Plain .516 ID x 1.188 OD x .125 in. thick (starter shaft; supersedes No. 184)	1	a b
-24	542								Nut - 3/4 Slotted hexagon head x 1/2-20 thd x 21/64 in. thick (starter shaft)	1	a b
	11359								Cotterpin - .086 - .090 dia .750 in. long (starter shaft nut)	1	a b
-25	7499								Gasket - Starter cover	1	a b
-26	12874								Cover - Accessory pad (supersedes No. 70964)	1	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP : Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: REAR CASE (Cont'd)									
	PART NUMBER	1	2	3	4	5	6			7
2-10-	ATTACHING PARTS									
	173							Washer - Plain 25/64 ID x 11/16 OD x 1/16 in. thick (accessory pad cover)	6	a b
-27	26432							Nut - Fibre insert 3/8-24 thd x 29/64 in. thick (accessory pad cover)	6	a b
	31123							Seal - 2.500 ID x 2.542 OD x .021 in. thick (generator drive)	1	b
	119528							Housing & Shaftgear Assembly - 2:1 Generator Drive	1	b
-28	119527							Housing - Generator drive (for use with Part No. 119528 housing assembly)	1	b
-29	1742							Plate - Generator outboard bearing	1	b
	ATTACHING PARTS									
-30	202							Screw - Fillister head drilled .250-20 NC thd x .562 in. long (generator outboard bearing plate; use .040 in. wire)	4	b
-31	122							Bearing - Ball 1.1811 ID x 2.4409 OD x .3937 in. long (generator pinion)	1	b
-32	119525							Pinion - Generator drive (for use with Part No. 119528 housing assembly)	1	b
-33	50681							Cork - Generator drive pinion (supersedes No. 7435)	1	b
	ATTACHING PARTS									
-34	18746							Nut - Spanner 1-3/16-12 PD x 1-9/16 in. thick (generator outboard bearing; for use with Part No. 119528 housing assembly)	1	b
-35	10							Cotterpin - .058 - .061 dia x .500 in. long (generator outboard bearing nut; for use with Part No. 119528 housing assembly)	1	b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: REAR CASE (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-10-	17088							Tabwasher - 1.203 ID x 1.438 OD x .058 in. thick (generator drive; for use with Part No. 119528 housing assembly)	1	b
	17089							Spacer - Generator drive (for use with Part No. 119528 housing assembly)	1	b
-36	1189							Gasket - Generator drive cover (supersedes No. 84108)	1	a b
-37	1154							Cover - Generator drive (supersedes No. 79514)	1	a b
ATTACHING PARTS										
	172							Washer - Plain 21/64 ID x 9/16 OD x 1/16 in. thick (generator drive cover)	4	a b
-38	33415							Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (generator drive cover; for use with undrilled stud)	4	a b
	511							Nut - Castled .500 Hexagon Head 5/16 - 24 thd x 21/64 in. thick (Generator drive cover; for use with drilled stud; use .040 in. wire)	4	a b
-39	16047							Gear Assembly - Tachometer drive	2	a b
	14357							Gear Assembly - Tachometer drive	1	a
	14604							Gear - Tachometer drive	NP	b
	1177							Insert - Tachometer drive gear	1	b
-40	820							Gasket - .891 ID Pipe flanged x .016 in. thick (tachometer flange)	2	a b
	2146							Tube - Tachometer drive oil plug right hand	1	a
	2147							Cover - Tachometer drive right hand	1	a
	13028							Coupling - Tachometer left hand	1	a
-41	76367							Coupling Assembly - Tachometer inner	2	a b
	76365							Coupling - Tachometer	1	a b
	76366							Bearing - Flanged .490 ID x .626 OD x .592 in. long (tachometer coupling; for AN engines only)	1	a b
	43567							Pin - Straight .072 dia x .125 in. long (tachometer inner)	1	a b
-42	14538							Seal - Oil .500 ID x 1.004 OD x .375 in. thick (tachometer drive)	2	a b
-43	14537							Coupling - Tachometer rear half	2	a b
ATTACHING PARTS										
-44	171							Washer - Plain 17/64 ID x 1/2 OD x 1/16 in. thick (tachometer coupling)	4	a b
-45	14548							Screw - Fillister head drilled 1/4-20 thd x 1-5/32 in. long (tachometer coupling; use No. 040 in. wire)	4	b

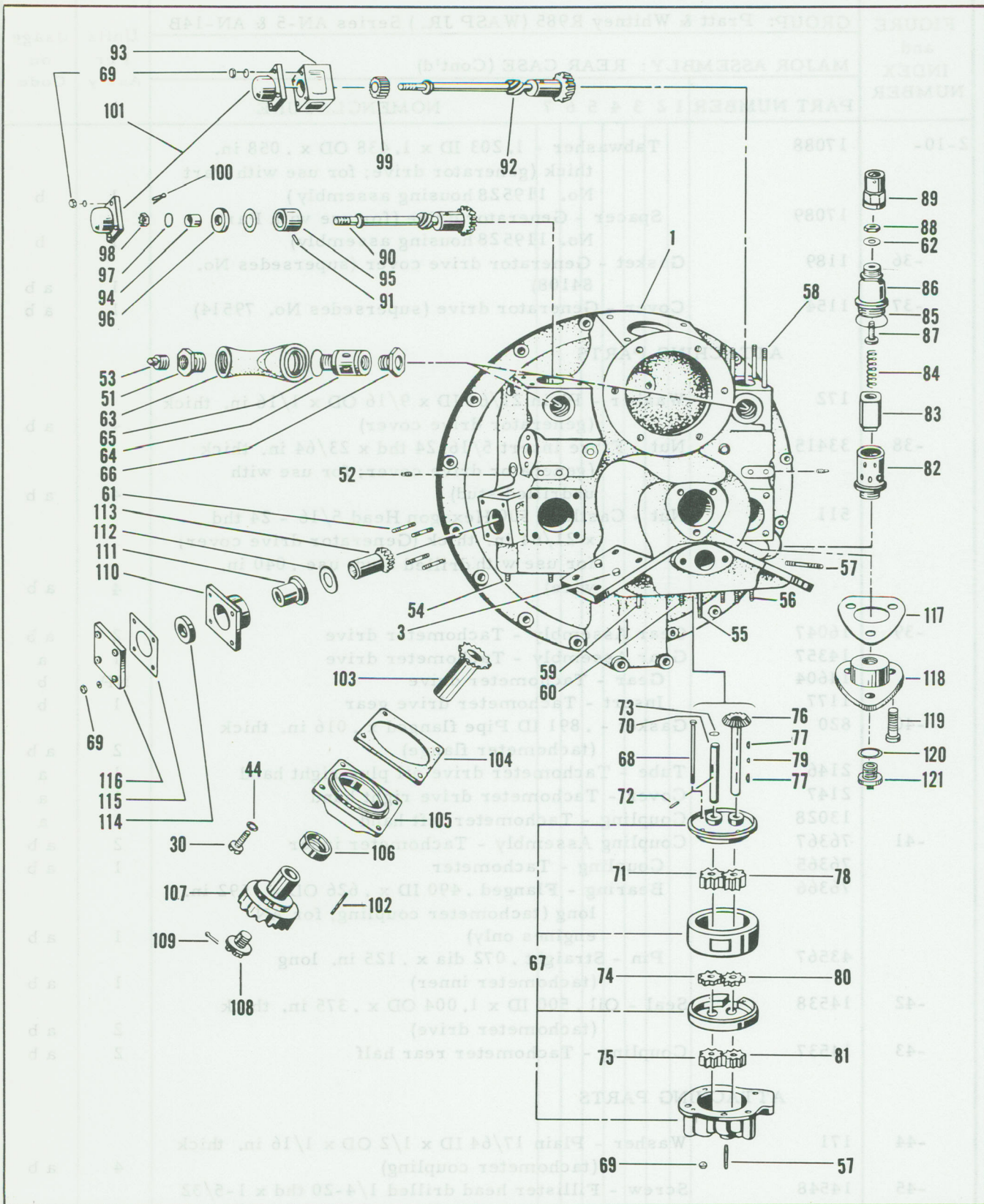


Figure 2-10 (Sheet 2 of 2) Rear Case

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: REAR CASE (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-10-	ATTACHING PARTS									
	202							Screw - Fillister head drilled 1/4-20 thd x 9/16 in. long (tachometer coupling; use .040 in. wire)	4	a
-46	744							Gasket - 5/16 ID x .688 OD x .078 in. thick (tachometer coupling; use (1) unit for AN-5)	2	a b
-47	2211							Cap - Tachometer coupling (use (1) unit for AN-5)	2	a b
-48	10545							Shaft Assembly - Magneto drive	2	a b
	10538							Shaft - Magneto drive	1	a b
-49	257							Plug - Welch .875 in. dia (magneto drive shaft)	1	a b
	10502							Gear Magneto drive	1	a b
-50	78858							Rivet - Flat head .186 dia x .375 in. long (magneto drive gear; supersedes No. 151)	6	a b
	171							Washer - Plain 17/64 ID x 1/2 OD x 1/16 in. thick (magneto drive cover)	8	a b
	1171							Bushing - Gun control	2	a b
	1171+3							Bushing same as 1171 only .003 in. oversize		
	1171+5							Bushing same as 1171 only .005 in. oversize		
	1171+10							Bushing same as 1171 only .010 in. oversize		
	1171+15							Bushing same as 1171 only .015 in. oversize		
	1171+20							Bushing same as 1171 only .020 in. oversize		
-51	10682							Bushing - Flanged 3/8-18 ID x 3/4-14 OD x 7/8 in. long (pipe reducing)	1	a b
	10682+10							Bushing same as 10682 only .010 in. oversize		a b
	25							Pin - Straight .165 dia x .500 in. long (fastens Part No. 1171 bushing)	2	a b
	2075							Tube - Tachometer drive oil	2	a b
	ATTACHING PARTS									
	24929							Screw - Flat fillister head 1/4-20 thd x 7/16 in. long (rear case)	2	a b
-52	11521							Plug - Hexagon socket .125 in. ANPT (rear case; use (8) units for AN-5)	9	a b
	17346							Plug - .281 Square head x .125-27 Pipe x .578 in. long (rear case; use (4) AN-5)	5	a b
	41514							Plug - .076 Square head x .750-14 Pipe x .962 in. long (gun drive left hand rear case)	1	a
-53	AN913-3S							Plug - .438 Square head x .375-18 Pipe x .796 in. long (rear case pressure pipe hole; P & W Part No. 19865)	1	a b
	28834							Dowel - Straight .128 dia x .312 in. long (vacuum pump adapter locating)	1	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: REAR CASE (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-10-	62							Dowel - Straight .250 dia x .625 in. long (oil pump locating)	1	a b
	ATTACHING PARTS									
-54	656+4							Stud - Plain .3125-18-24 thd x 1.625 in. long (fuel pump) .004 in. oversize	4	a b
	656+8							Stud same as 656 only .008 in. oversize		
	656+12							Stud same as 656 only .012 in. oversize		
-55	23299+4							Stud - Plain .3125-18-24 thd x 3.125 in. long (oil pump) .004 in. oversize	2	a b
	23299+8							Stud same as 23299 only .008 in. oversize		
	23299+12							Stud same as 23299 only .012 in. oversize		
-56	19868+4							Stud - Plain .3125-18-24 thd x 2.375 in. long (oil pump) .004 in. oversize	4	a b
	19868+8							Stud same as 19868 only .008 in. oversize		
	19868+12							Stud same as 19868 only .012 in. oversize		
-57	12317+4							Stud - Plain .3125-18-24 thd x 1.312 in. long (oil pipe connections; supersedes No. 12054) .004 in. oversize	6	a b
	12317+8							Stud same as 12317 only .008 in. oversize		
	12317+12							Stud same as 12317 only .012 in. oversize		
-58	5206+4							Stud - Drilled .250-20-28 thd x 2.578 in. long (gun synchronizer right hand; for AN engines only) .004 in. oversize	4	a b
	5206+8							Stud same as 5206 only .008 in. oversize		
	5206+12							Stud same as 5206 only .012 in. oversize		
-59	626+4							Stud - Drilled .3125-18-24 thd x 1.500 in. long (carburettor adapter) .004 in. oversize	2	a b
	626+8							Stud same as 626 only .008 in. oversize		
	626+12							Stud same as 626 only .012 in. oversize		
	626+62							Stud same as 626 only .062 in. oversize		
-60	11345+4							Stud - Plain .3125-18-24 thd x 1.562 in. long (carburettor adapter: for engines using NA-R9B carburettors) .004 in. oversize	4	a b
	11345+8							Stud same as 11345 only .008 in. oversize		
	11345+12							Stud same as 11345 only .012 in. oversize		
-61	123423+4							Stud - Plain .250-20-28 thd x 1.750 in. long (vacuum pump; supersedes No. 35142) .004 in. oversize	4	a b
	123423+8							Stud same as 123423 only .008 in. oversize		
	123423+12							Stud same as 123423 only .012 in. oversize		
-62	234							Gasket - .625 ID x .938 OD x .078 in. thick (carburettor ell cover plug)	1	a b
	131							Plug - Round head 5/8-18 thd x 9/16 in. long (carburettor ell cover; for AN engines only)	1	a b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: REAR CASE (Cont'd)										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-10-	46256								Gasket - 1.05 ID x 1.6 OD x .015 in. thick (swivel fitting)	2	b
-63	46253								Fitting - .750 in. NPT (swivel)	2	b
-64	46254								Support - Swivel fitting	2	b
-65	48139								Gasket - .90 ID x 1.500 OD x .015 in. thick (swivel fitting nut)	2	b
-66	46255								Plug - 1-1/2 Hexagon head x 7/8-14 thd x 11/16 in. long swivel fitting)	2	b
	10682								Bushing - Flanged 3/8-18 ID x 3/4-14 OD x 7/8 in. long (pipe reducing swivel fitting	2	b
	10682+10								Bushing same as 10682 only .010 in. oversize		
	AN913-3,S								Plug - .438 Square head x .375 -18 Pipe x .796 in. long (swivel fitting; P & W Part No. 19865)	2	b
	74963								Elbow - Rear oil scavenge pipe to case	1	a
	74957								Pipe Assembly - Rear oil scavenge	1	a
	827								Gasket - .688 ID Pipe flanged x .031 in. thick (rear oil scavenge)	1	a
	ATTACHING PARTS										
	33415								Nut Fibre insert 5/16-24 thd x 23/64 in. thick (rear oil scavenge pipe flange)	2	a b
	33415								Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (rear oil drain pipe; use (2) units for AN-5)	4	a
	15443								Plug - Plain slotted 5/16-18 thd x 1/4 in. long (rear case)	2	a b
	15443+4								Plug same as 15443 only .004 in. oversize		
	17009								Gasket - Rear oil pump to rear case	1	a
	38366								Pump Assembly Complete - Oil (supersedes No. 47563)	1	a b
-67	86266								Pump Machining Assembly - Oil (supersedes No. 38365)	1	a b
	38360								Body - Oil pressure pump	NP	a b
	38361								Body - Oil suction pump	NP	a b
	38362								Body - Oil pump suction	NP	a b
	1579								Plate - Oil pump end	NP	a b
	ATTACHING PARTS										
-68	38368								Bolt - 7/16 Slotted hexagon head x 1/4-28 thd x 3-15/16 in. long (oil pump)	4	a b
-69	502								Nut - Castled .438 Hexagon head x .250-28 NF-3 thd x .282 in. thick (oil pump bolt; use .040 in. wire)	4	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: REAR CASE (Cont'd)										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-10-	12317+4								Stud - Plain .3125-18-24 thd x 1.312 in. long (oil suction pipe; supersedes No. 12054) .004 in. oversize	2	a b
	12317+8								Stud same as 12317 only .008 in. oversize		
	12317+12								Stud same as 12317 only .012 in. oversize		
	12317+4								Stud - Plain .3125-18-24 thd x 1.312 in. long (oil inlet connection) .004 in. oversize	2	a b
	12317+8								Stud same as 12317 only .008 in. oversize		
	12317+12								Stud same as 12317 only .012 in. oversize		
	8138								Ring - Oil seal 3.115 ID x 3.126 OD x .101 in. thick (oil pump)	1	a b
	8138+5								Ring same as 8138 only .005 in. oversize		
	8138+10								Ring same as 8138 only .010 in. oversize		
	38367								Gear & Shaft Assembly - Oil pump idler	1	a b
-70	38364								Shaft - Oil pump idler	1	a b
-71	8735								Gear - Drilled hole .561 dia x 1.2485 in. long (idler oil suction pump)	1	a b
-72	AN122696								Pin - Dowel, steel .1250 dia x .875 in. long (oil pump idler gear to shaft; supersedes No. 37)	1	a b
-73	149								Plug - Disc .625 dia x .064 in. long (oil pump)		
-74	10110								Gear - Drilled hole .561 dia x .3755 in. long (idler oil suction rockerbox)	1 1	a b a b
-75	1428								Gear - Drilled hole .561 dia x .9355 in. long (idler oil pressure pump)	1	a b
-76	38363								Gear - Oil pump drive	1	a b
-77	224883								Key - Flat .125 x .150 x 3/4 in. long (use 1 on oil suction pump gear and 1 on oil pressure pump gear; supersedes No. 87)	2	a b
	224883+2								Key same as 224883 only .002 in. oversize		
	224883+5								Key same as 224883 only .005 in. oversize		
	224883+10								Key same as 224883 only .010 in. oversize		
	224883+20								Key same as 224883 only .020 in. oversize		
	224883+30								Key same as 224883 only .030 in. oversize		
	224883+20S								Key stepped same as 224883 only .020 in. oversize		
	224883+30S								Key stepped same as 224883 only .030 in. oversize		
	224883+40S								Key stepped same as 224883 only .040 in. oversize		
	224883+50S								Key stepped same as 224883 only .050 in. oversize		
	224883+60S								Key stepped same as 224883 only .060 in. oversize		
-78	8734								Gear - Keyed 5.61 dia x 1.2485 in. long (oil suction pump)	1	a b
-79	224884								Key - Woodruff No. 3 special (oil suction pump)	1	a b
	224884+2								Key same as 224884 only .002 in. oversize		

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY : REAR CASE (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-10-	224884+5							Key same as 224884 only .005 in. oversize		
	224884+10							Key same as 224884 only .010 in. oversize		
	224884+20							Key same as 224884 only .020 in. oversize		
	224884+30							Key same as 224884 only .030 in. oversize		
	224884+20S							Key stepped same as 224883 only .020 in. oversize		
	224884+30S							Key stepped same as 224883 only .030 in. oversize		
	224884+40S							Key stepped same as 224883 only .040 in. oversize		
	224884+50S							Key stepped same as 224883 only .050 in. oversize		
	224884+60S							Key stepped same as 224883 only .060 in. oversize		
-80	173007							Gear - Oil suction rockerbox (supersedes No. 10129; Parts digest 837)	1	a b
-81	1427							Gear - Keyed .561 dia x .9355 in. long (oil pressure pump)	1	a b
	24230							Packing - 19/32 ID x 7/8 OD x 5/32 in. thick (oil pump body; supersedes No. 71972)	2	a b
	132							Plug - Disc .625 dia x .064 in. long (oil pump)	2	a b
								ATTACHING PARTS		
	172							Washer - Plain 21/64 ID x 9/16 OD x 1/16 in. thick (oil pump)	6	a o
	33415							Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (oil pump)	5	a b
	519							Nut - Slotted 5/16 x .24 in. thick Special (oil pump)	1	a b
-82	17574							Body - Oil pressure relief valve	1	a b
-83	1139							Plunger - Oil pressure relief valve	1	a b
-84	6091							Spring - Oil pressure relief valve	1	a b
-85	AN900-18							Gasket - 1.133 ID x 1.375 OD x .094 in. thick (oil pressure relief valve housing to rear case; P & W Part No. 232 supersedes No. 236)	1	a b
-86	9049							Housing - Oil pressure relief valve	1	a b
								ATTACHING PARTS		
-87	43272							Screw - Oil pressure valve adjusting	1	a b
-88	501							Nut - Plain 7/16 Hexagon head x 1/4-28 thd x 7/32 in. thick (locks Part No. 43272 screw)	1	a b
	234							Gasket - .625 ID x .938 OD x .078 in. thick (oil pressure relief valve cap)	1	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985(WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code
	MAJOR ASSEMBLY: REAR CASE (Cont'd.)								
	PART NUMBER	1	2	3	4	5	6 7		
2-10-89	183748	Cap	-	.625	-	18	NS thd (oil pressure relief valve; use .040 in. wire; supersedes No. 8699; Parts digest 1149)	1	a b
-90	2715	Gear Assembly	-				Gun control (use (1) unit for AN engines)	1	a b
	2627	Shaft	-				Gun control tachometer drive gear	NP	a b
	17038	Plug	-				Tachometer drive oil distributor	1	a b
-91	5709	Pin	-				Straight .0949 dia x 1.031 in. long (tachometer drive oil distributor)	1	a b
-92	16512	Gear Assembly	-				Gun synchronizer drive	1	a b
	5205	Shaft	-				Gun control tachometer drive gear	NP	a b
	17038	Plug	-				Tachometer drive oil distributor	1	a b
	5709	Pin	-				Straight .0949 dia x 1.031 in. long (tachometer drive oil distributor)	1	a b
-93	5204	Adapter	-				Gun synchronizer housing	1	a b
-94	2630	Liner	-				Gun synchronizer bearing	2	a b
-95	109	Bearing	-				Ball .5906 ID x 1.3780 OD x .4331 in. long (gun control shaft)	2	a b
-96	3555	Spacer	-				37/64 ID x 25/32 OD x 9/16 in. thick (gun control shaft; use (1) unit for AN-14B only)	2	a b
ATTACHING PARTS									
	9876	Washer	-				Plain 25/64 ID x 3/4 OD x 3/32 in. thick (gun drive use (1) unit for AN-14B only)	2	a b
-97	10465	Washer	-				Plain 25/64 ID x 9/16 OD x 1/16 in. thick (gun drive right hand)	1	b
-98	523	Nut	-				Shear .562 Hexagon head x .375-24 thd x .328 in. thick (gun drive; supersedes No. 23212; Parts digest 400B)	2	a b
-99	2628	Gear	-				Gun drive right hand	1	b
-100	10185	Cotterpin	-				.072-.076 dia x .750 in. long (gun drive)	2	a b
-101	12574	Cover	-				Gun drive	2	a b
	43982	Spacer	-				.266 ID x .500 OD x .234 in. thick (gun drive cover)	4	a b
	171	Washer	-				Plain 17/64 ID x 1/2 OD x 1/16 in. thick (gun drive cover)	4	a b
	12856	Nut	-				Fibre insert 1/4-28 thd x 5/16 in. thick (gun drive cover; for use with plain studs)	8	b
	502	Nut	-				Castled 7/16 Hexagon head x 1/4-28 thd x 9/32 in. thick (gun drive cover; for use with drilled studs use .052 wire)	8	a b
-102	85	Key	-				Flat 3/16 x 3/32 x 1-3/32 in. long (fuel pump & gun control drive gear)	2	a b
	85+2	Key	-				same as 85 only .002 in. oversize		
-103	1314	Gear	-				Fuel pump & gun control drive	2	a b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units per Ass'y	Usage on Code		
	MAJOR ASSEMBLY: REAR CASE (Cont'd)										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-10-104	809								Gasket - 2-1/2 in. square(magneto drive cover)	2	ab
-105	164315								Housing - Magneto drive oil seal (for use with magnetos having lip type oil seal;Service Bulletin No.1266)	2	ab
	1482								Cover Assembly - Magneto drive(for use with magnetos not having lip type oil seal)	2	ab
	11468								Packing - Magneto shaft(for use with magnetos not having lip type oil seal)	1	ab
	2383								Cover - Magneto drive(for use with magnetos not having lip type oil seal)	1	ab
	1093								Washer - Magneto to shaft packing(for use with magnetos not having lip type oil seal)	1	ab
	153								Rivet - Round head .095 dia x .375 in.long(magneto drive cover;for use with magnetos not having lip type oil seal)	6	ab
	175147								Rivet - Universal head .095 dia x .375 in.long(for service procurement;for use with magnetos not having lip type oil seal)	12	ab
	11049								Gear - Magneto drive coupling(for use with magnetos not having lip type oil seal)	2	ab
-106	164314								Seal - Oil .875 ID x 1.754 OD x .375 in.thick (magneto housing;for use with magnetos having lip type oil seal;Service Bulletin No.1266)	2	ab
	ATTACHING PARTS										
	202								Screw - Fillister head drilled 1/4-20 thd x 9/16 in. long(magneto drive cover;use .104 in.wire)	8	ab
-107	164316								Coupling - Magneto drive(for use with magnetos having lip type oil seal;Service Bulletin No.1266)	2	ab
	ATTACHING PARTS										
-108	1175								Screw - 7/16-20 thd x 15/16 in. long(magneto drive shaft)	2	ab
-109	3								Cotterpin - .072 - .076 dia x 1.500 in.long(magneto drive shaft screws)	2	ab
	17346								Plug - .281 square head x .125 x 27 pipe x .578 in. long(rear crankcase;use .040 in.wire)	1	ab

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY : REAR CASE (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-10-	24437	Magneto	-SB9RN	-	radio shielded, fixed ignition, left hand (SNT; replaces No.48700)			1	ab	
	28853	Magneto	-SN9RN	-	radio shielded, fixed ignition, right hand (SNT; replaces No.48700)			1	ab	
	9633	Gasket	-	Vacuum pump drive				1	ab	
	37907	Gear Assembly	-	Vacuum pump drive				1	ab	
-110	35517	Adapter Assembly	-	Vacuum pump splined drive				1	ab	
	35138	Adapter	-	Vacuum pump splined drive				NP	ab	
-111	35139	Bushing	-	Flanged .865 ID x 1.033 OD x .859 in. long (vacuum pump splined drive)				1	ab	
-112	35140	Spacer	-	.875 ID x 1.438 OD x .109 in.thick (vacuum pump gear)				1	ab	
-113	35169	Gear	-	Vacuum pump splined drive				1	ab	
-114	30684	Seal	-	Oil .875 ID x 1.379 OD x .375 in.thick (vacuum pump gear)				1	ab	
-115	AN 4045-1	Gasket	-	.0016 in.thick (accessory pad vacuum pump drive cover;P & W Part NO.16532)				1	ab	
-116	9632	Cover	-	Vacuum pump drive				1	ab	
		ATTACHING PARTS								
	171	Washer	-	Plain 17/64 ID x 1/2 OD x 1/16 in.thick (vacuum pump drive cover;use (4) units with plain studs)				8	ab	
	12856	Nut	-	Fibre insert 1/4-28 thd x 5/16 in.thick (vacuum pump drive cover;for use with plain studs)				4	ab	
	502	Nut	-	Castled 7/16 Hexagon head x 1/4 -28 thd x 9/32 in.thick (vacuum pump drive cover;for use with drilled studs;use .040 in.wire)				4	ab	
-117	25820	Gasket	-	Carburettor ell cover				1	ab	
-118	25821	Cover	-	Carburettor ell (for thermometer)				1	ab	
		ATTACHING PARTS								
-119	44107	Screw	-	Fillister head drilled .250-20NC thd x .438 in.long (carburettor ell cover;use .040 in. wire)				3	ab	
-120	234	Gasket	-	.625 ID x .938 OD x .078 in.thick (carburettor ell cover plug)				1	ab	
-121	131	Plug	-	Round head .625-18 NF-3 thd x .562 in.long (carburettor ell cover)				1	ab	

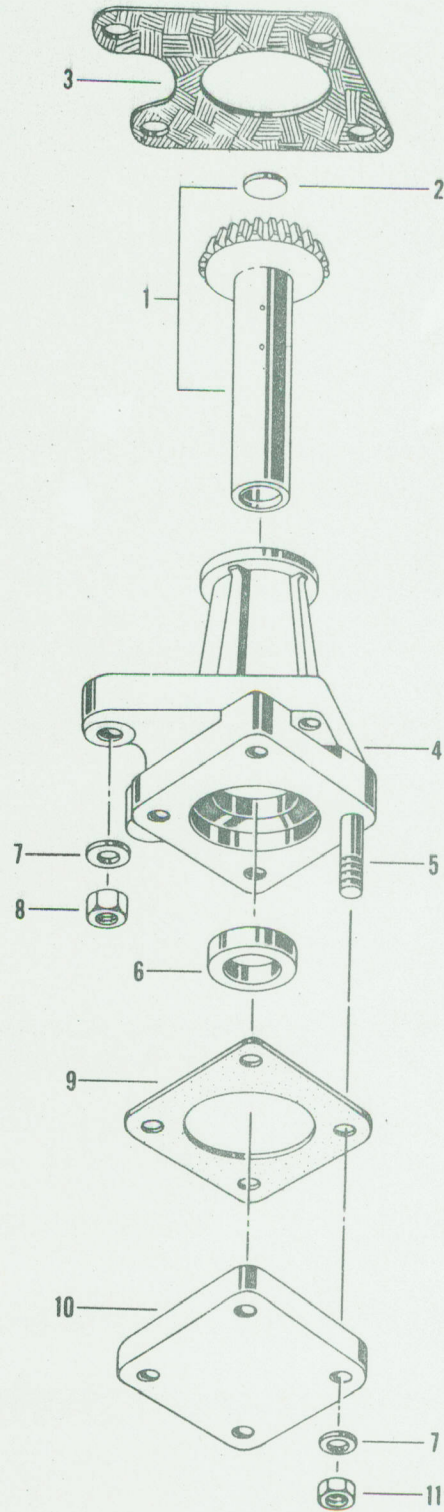


Figure 2-11 - Fuel Pump Drive

FIGURE and INDEX NUMBER	GROUP Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Assy	Usage on Code	
	MAJOR ASSEMBLY Fuel Pump Drive									
	PART NUMBER	1	2	3	4	5	6			7
2-11-1	46234	Gear Assembly - Fuel pump drive							1	a b
	46233	Gear - Fuel pump drive							NP	a b
-2	31346	Plug - Welch .593 in. dia. (fuel pump drive gear)							1	a b
-3	34637	Gasket - Fuel pump & lubrication drive bracket							1	a b
-4	123596	Bracket Assembly - Fuel pump drive gear (super- sedes No. 46235; Parts Digest 494)							1	a b
	46232	Bracket - Fuel pump drive gear							1	a b
ATTACHING PARTS										
-5	123441+4	Stud .3125-18-24 thd x 1.562 in. long (fuel pump; supersedes No. 37812; Parts Digest 494) .004 in. oversize							4	a b
	123441+8	Stud same as 123441 only .008 in. oversize								
	12344+12	Stud same as 123441 only .012 in. oversize								
-6	37819	Seal - Oil .750 ID x 1.379 OD x .312 in. thick (fuel pump drive shaft)							1	a b
-7	172	Washer - Plain 21/64 ID x 9/16 OD x 1/16 in. thick (fuel pump drive bracket)							4	a b
-8	33415	Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (fuel pump drive bracket)							4	a b
-9	77908	Gasket - Fuel pump drive cover (supersedes No. 21099)							1	a b
-10	35961	Cover - .375 in. thick (accessory pad; fuel pump drive; supersedes No. 77907)							1	a b
ATTACHING PARTS										
	172	Washer - Plain 21/64 ID x 9/16 OD x 1/16 in. thick (fuel pump drive cover)							4	a b
	33415	Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (fuel pump drive cover; for use with plain studs)							4	a b
-11	511	Nut - Castled 1/2 Hexagon head x 5/16-24 thd x 21/64 in. thick (fuel pump drive cover; for use with drilled studs; use .040 in. wire							4	a b

Part 2
EO 10A-10AA-4

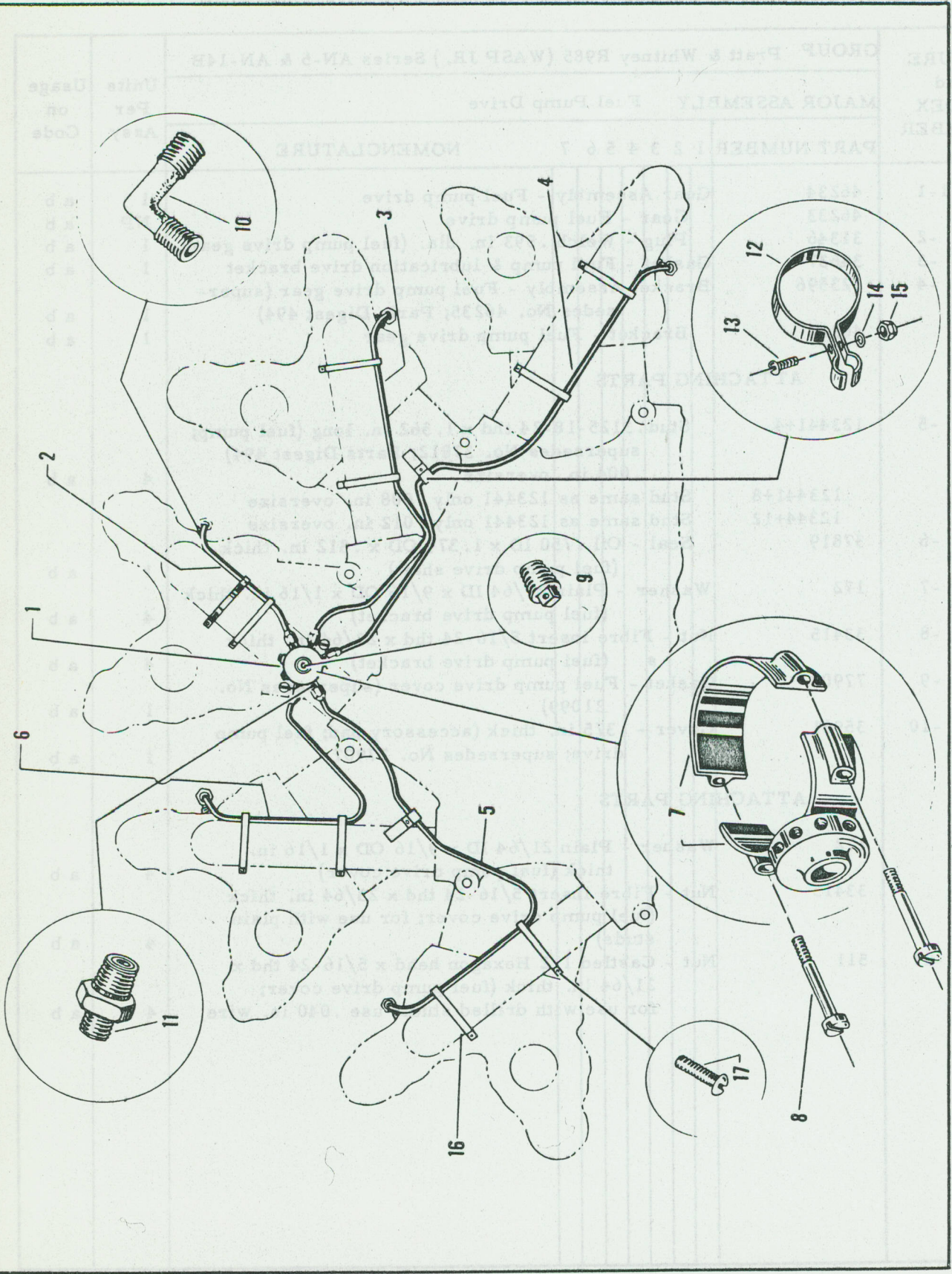


Figure 2-12 - Cylinder Priming System

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: CYLINDER PRIMING SYSTEM									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-12-1	45936							Connections Assembly - Primer	1	a b
-2	27205							Tubing Complete - Cylinder No. 1 primer	1	a b
-3	27206							Tubing Complete - Cylinder No. 2 primer	1	a b
-4	27207							Tubing Complete - Cylinder No. 3 primer	1	a b
-5	27208							Tubing Complete - Cylinder No. 8 primer	1	a b
-6	26508							Tubing Complete - Cylinder No. 9 primer	1	a b
-7	100186							Distributor Assembly - Engine primer	1	a b
	27210							Distributor - Engine primer	1	a b
	ATTACHING PARTS									
-8	AN500A-10-24							Screw Fillister head No. 10-24 thd x 1.500 in. long (primer distributor to cylinder No. 1 intake pipe; use .040: P & W Part No. 20228)	2	a b
-9	17346							Plug - .281 Square head x .125-27 Pipe x .578 in. long (unused holes in primer distributor; use .040 in. wire)	4	a b
-10	AN4023-1							Elbow Assembly - 1/8 in. Tubing (primer fuel; cylinder end of primer tubing; P & W Part No. 20229)	5	a b
-11	5509							Nipple - Union .125-27 ANPT x .125 in. dia Tube (distributor end of primer tubing; P & W Part No. 5509)	5	a b
-12	23930							Clip - Cylinders No. 3 & 8 (primer tubing to ignition manifold)	2	a b
	ATTACHING PARTS									
-13	AN520-8-8							Screw - Round head No. 8-36 thd x 1/2 in. long (cylinders No. 3 & 8: primer tubing clips P & W Part No. 23000 supersedes No. 42016)	2	a b
-14	4220							Washer - Plain 13/64 ID x 3/8 OD x 3/64 in. thick (primer distributor to cylinder No. 1 intake pipe screws; supersedes No. 11751)	2	a b
-15	11747							Nut - Fibre insert No. 8-36 thd x 15/64 in. thick (cylinders No. 3 & 8; primer tubing clip screws)	2	a b
-16	48776							Clamp Assembly - Primer tubing to intake pipes	10	a b
	ATTACHING PARTS									
-17	AN515-6-16							Screw - Round head No. 6-32 thd x 1 in. long (primer tubing to intake pipe clamps; P & W Part No. 8650)	10	a b

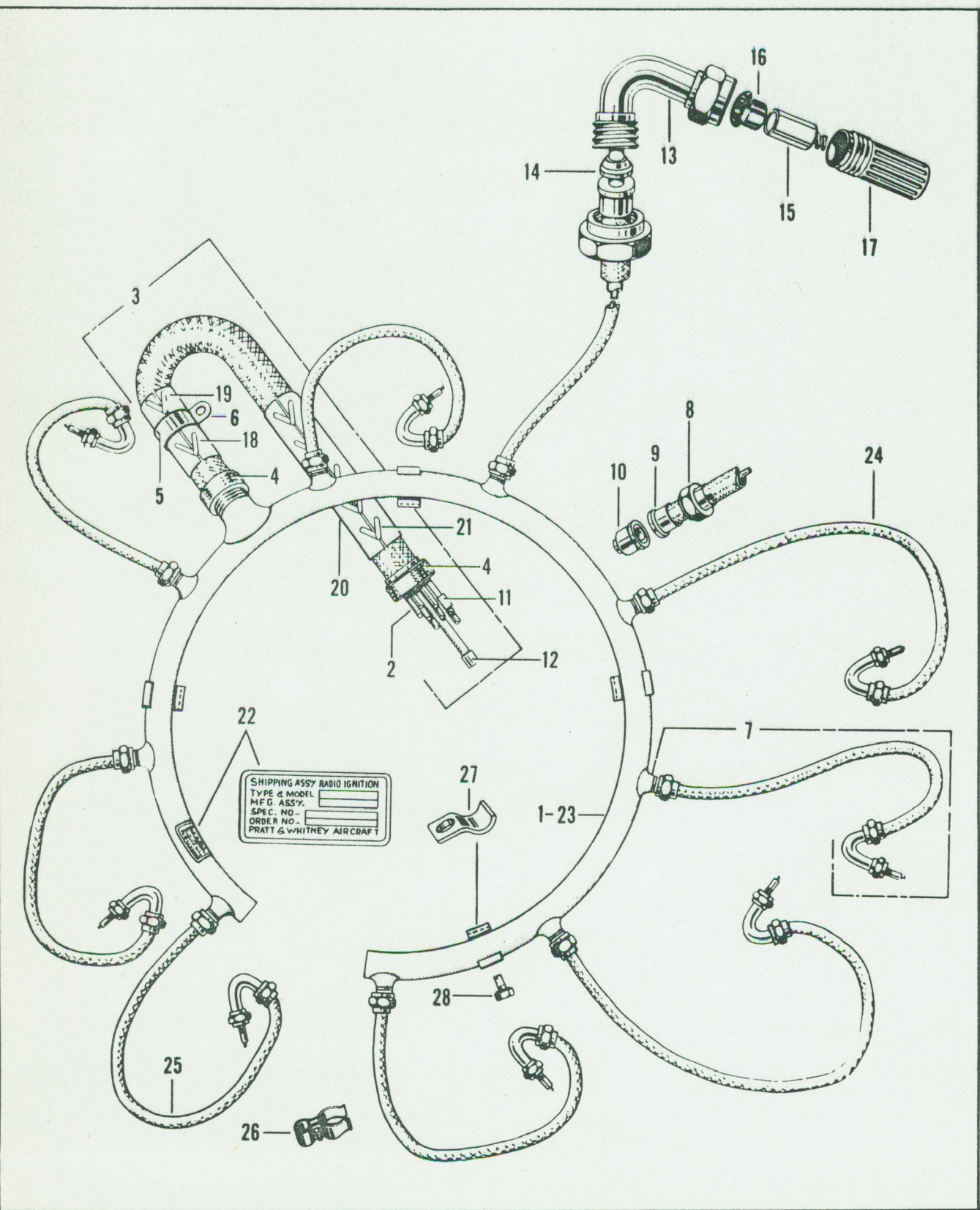


Figure 2-13 - Ignition System

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per. Ass'y	Usage on Code		
	MAJOR ASSEMBLY: IGNITION SYSTEM										
	PART NUMBER	1	2	3	4	5	6	7	NOMENCLATURE		
2-13-1	165376								Cable Assembly - Radio shielding ignition - Front (enameled; Supersedes No. 47131, 84462)	1	a b
	33688								Manifold - Front ignition(plated)	1	a b
-2	123790								Cable - 7 m/m Ignition (supersedes No. 37141 & 96121)	50 ft	a b
-3	90437								Conduit Assembly - Front manifold to magneto (for use with enameled manifold)	1	a b
	33692								Conduit - Manifold to magneto	21 in.	a b
-4	88708								Nut - Conduit coupling (for use with enameled manifold)	2	a b
	35091								Clamp Assembly Complete - Magneto conduit	1	a b
-5	37123								Clamp Assembly - Magneto conduit	1	a b
	ATTACHING PARTS										
-6	AN 520-10-12								Screw - Round head .190-32 thd x .750 in. long (magneto conduit clamp; P & W Part No. 12079)	1	a b
	AN 365-1032A								Locknut - Fibre .375 Hexagon head x .190-32 thd x .234 in. thick (magneto conduit clamp; P & W Part No. 11748)	1	a b
-7	92367								Conduit Assembly - Manifold to sparkplug (for use with enameled or plated manifold; supersedes No. 88710 enameled type & 40115 plated type)	9	a b
	92370								Conduit - Flexible .320 ID x .500 in. OD (manifold to sparkplug; supersedes No. 29894)	7 in.	a b
-8	92368								Nut - .745 - .755 Hexagon head x .438 in. thick (sparkplug lead coupling)	2	a b
-9	92369								Ferrule - .521 - .527 ID x .630 - .635 OD x .310 in. long (conduit; supersedes No. 29407)	2	a b
-10	32383								Grommet - Ignition cable (for use with 7 m/m cable)	9	a b
	14128								Gasket - 1.422 ID x 1.562 OD x .031 in. thick (ignition conduit & magneto)	1	a b
-11	AN 4028-7-1 thru 9								Marker - Ignition cable small (P & W Part No. 3708)	9	a b
-12	15893								Ferrule - .292 ID x .312 OD x .500 in. long (ignition cable; for use with 7 m/m cable)	9	a b
-13	185956								Elbow - Sparkplug shielded (supersedes No. 39274, 78643, 92366)	9	a b
-14	38674								Grommet - Ignition cable (for use with 7 m/m cable)	9	a b
-15	82307								Connection - Sparkplug (for use with Part No. 165376 cable assembly)	9	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: IGNITION SYSTEM (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-13-16	59482							Collar - Sparkplug terminal waterproof (for use with 7 m/m cable)	9	a b
-17	AN 4060-1							Cap - .625-24 NS-1 Protector thd (sparkplug elbow; P & W Part No. 54364)	9	a b
-18	35851							Guard - Magneto conduit	1	a b
-19	35848							Lacing - Guard magneto conduit right (for use with rubber guard)	1	a b
	11913							Lacing - Guard magneto conduit right (for use with leather guard)	1	a b
-20	35850							Guard - Magneto conduit	1	a b
-21	35849							Lacing - Guard magneto conduit left (for use with rubber guard)	1	a b
	11914							Lacing - Guard magneto conduit left (for use with leather guard)	1	a b
-22	90469							Plate - Ignition manifold data (for use with enameled manifold)	1	a b
	165375							Cable Assembly - Radio shielded ignition rear (enameled; supersedes No. 47132, 84463, & 90456)	1	a b
-23	90458							Manifold - Rear ignition (enameled)	1	a b
	14126							Gasket - 1.000 ID x 1.188 OD x .078 in. thick (ignition manifold)	1	a b
	123790							Cable - 7 m/m Ignition (replaces No. 96121; supersedes No. 37141)	35 ft.	a b
	90440							Conduit Assembly - Rear manifold to magneto (for use with enameled manifold)	1	a b
	33692							Conduit - Manifold to magneto	9 in.	a b
	88708							Nut - Conduit coupling (for use with enameled manifold)	2	a b
-24	92372							Conduit Assembly - Manifold to sparkplug (for all cylinders except No. 5 & 6; for use with enameled or plated manifold; supersedes No. 88713 enameled type & 40116 plated type)	7	a b
	92370							Conduit - Flexible .320 ID x .500 in. OD (manifold to sparkplug; supersedes No. 29894)	7 in.	a b
	92368							Nut - .745 - .755 Hexagon head x .438 in. thick (sparkplug lead coupling)	2	a b
	92369							Ferrule - .521 - .527 ID x .630 - .635 OD x .310 in. long (conduit; supersedes No. 29407)	2	a b
-25	92374							Conduit Assembly - Manifold to sparkplug (cylinder No. 5: for use with enameled or plated manifold; supersedes No. 88716 enameled type & 42203 plated type)	1	a b
	92370							Conduit - Flexible .320 ID x .500 in. OD (Manifold to sparkplug; supersedes No. 29894)	13 in.	a b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: IGNITION SYSTEM (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-13-	92368							Nut - .745 - .755 Hexagon head x .438 in. thick (sparkplug lead coupling)	2	a b
	92369							Ferrule - .521 - .527 ID x .630 - .635 OD x .310 in. long (conduit; supersedes No. 29407)	2	a b
	92373							Conduit Assembly - Manifold to sparkplug (cylinder No. 6; for use with enameled or plated manifold; supersedes No. 88715 enameled type & 42204 plated type)	1	a b
	92370							Conduit - Flexible .320 ID x .500 in. OD (manifold to sparkplug; supersedes No. 29894)	9 in.	a b
	92368							Nut - .745 - .755 Hexagon head x .438 in. thick (sparkplug lead coupling)	2	a b
	92369							Ferrule - .521 - .527 ID x .630 - .635 OD x .310 in. long (conduit; supersedes No. 29407)	2	a b
	32383							Grommet - Ignition cable (for use with 7 m/m cable)	9	a b
-26	10395							Clip - Ignition wire to suction pipe (supersedes No. 35013)	1	a b
	14128							Gasket - 1.422 ID x 1.562 OD x .031 in. thick (ignition conduit & magneto)	1	a b
	AN 4028-7-1 thru 9							Marker - Ignition cable small P & W Part No. 3708)	9	a b
	15893							Ferrule - .292 ID x .312 OD x .500 in. long (ignition cable; for use with 7 m/m cable)	9	a b
	185956							Elbow - Sparkplug shielded (supersedes No. 39274, 78643 & 92366)	9	a b
	38674							Grommet - Ignition cable (for use with 7 m/m cable)	9	a b
	82307							Connection - Sparkplug (for use with Part No. 165375 cable assembly)	9	a b
	59482							Collar - Sparkplug terminal waterproof (for use with 7 m/m cable)	9	a b
	AN 4060-1							Cap - .625-24 NS-1 Protector thd (sparkplug elbow; supersedes No. 39279; P & W Part No. 54364)	9	a b
	35850							Guard - magneto conduit (supersedes No. 32650)	1	a b
	35849							Lacing - Magneto conduit guard (for use with rubber guard)	1	a b
	11914							Lacing - Magneto conduit guard (for use with leather guard)	1	a b
	90469							Plate - Ignition manifold data (for use with enameled manifold)	1	a b
-27	36054							Brace Assembly - Ignition manifold	4	a b
	36051							Brace - Ignition manifold	1	a b

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: IGNITION SYSTEM (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
2-13-28	33105							Bolt - .438 Hexagon head x .250-28 NF thd x .500 in. long (ignition manifold brace)	1	a b
	AN 365-428							Locknut - Fibre .438 Hexagon head x .250-28 thd x .312 in. thick (ignition manifold brace screw; P & W Part No. 12856)	4	a b

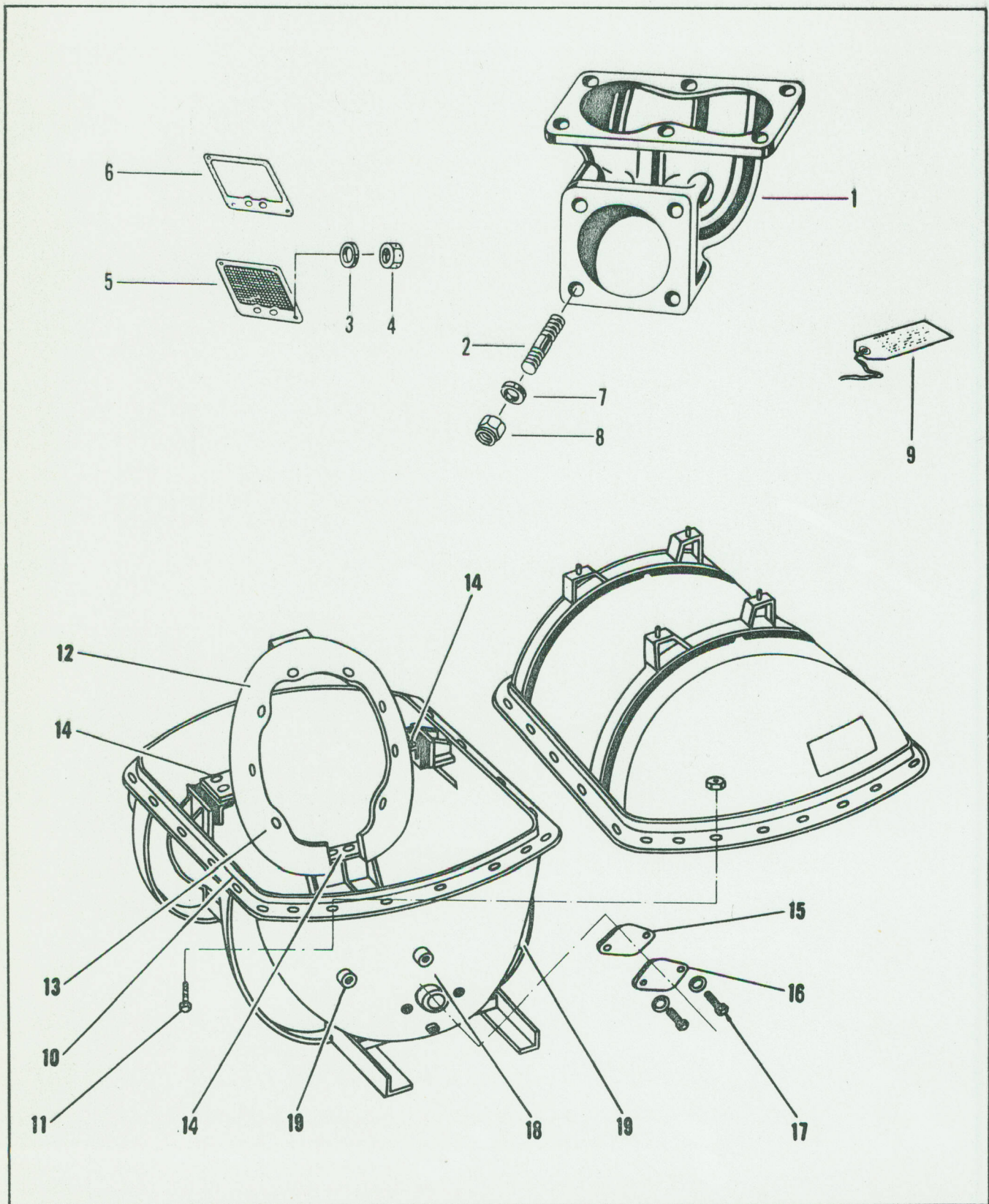


Figure 2-14 - Carburetor Attaching Parts and Packing Case - Collapsible

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code
	MAJOR ASSEMBLY: CARBURETTOR & PACKING CASE								
	PART NUMBER	1	2	3	4	5	6 7		
2-14-1	74947	Elbow & Studs Assembly - Carburettor adapter						1	a
	16487	Adapter & Studs Assembly - Carburettor						1	b
	74927	Elbow - Carburettor adapter						1	a
	10413	Adapter - Carburettor						1	b
ATTACHING PARTS									
-2	12091+4	Stud - Plain .375-16-24 thd x 1.781 in. long (carburettor) .004 in. oversize						4	a b
	12091+8	Stud same as 12091 only .008 in. oversize							
	12091+12	Stud same as 12091 only .012 in. oversize							
-3	172	Washer - Plain 21/64 ID x 9/16 OD x 1/16 in. thick (carburettor adapter nuts)						4	a b
-4	33415	Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (carburettor adapter to rear crankcase)						4	a b
	511	Nut - Castled 1/2 Hexagon head x 5/16-24 thd x 21/64 in. thick (carburettor adapter to rear crankcase)						2	a b
6		Cotterpin - .072 - .076 dia x .750 in. long (for use with Part No. 511 carburettor adapter nuts)						2	a b
	11598	Carburettor - NAR9E-19						1	a b
	-5	47378	Screen - Carburettor air (for engines using NA-R9B carburettors)						1
ATTACHING PARTS									
-5	172	Washer - Plain 21/64 ID x 9/16 OD x 1/16 in. thick (carburettor air screen nuts; for engines using NA-R-9B carburettors with 5/16-24 thd studs in the intake flange)						4	a b
	33415	Nut - Fibre insert 5/16-24 thd x 23/64 in. thick (carburettor air screen; for engines using NA-R9B carburettors with 5/16-24 thd studs in the intake flange)						4	a b
-6	12046	Gasket - Carburettor air screen (for engines using NA-R9B carburettors)						2	a b
ATTACHING PARTS									
-7	173	Washer - Plain 25/64 ID x 11/16 OD x 1/16 in. thick (carburettor nuts)						4	a b
-8	26432	Nut - Fibre insert 3/8-24 thd x 29/64 in. thick (carburettor to adapter)						4	a b
-9	180799	Decalomania - Rubber cure data						1	a b
	57686	Cover - Induction port dehydrator						1	a b
	43340	Cover - Carburettor adapter shipping						1	a b
-9	7766	Tag - Oil slushed carburettor warning						1	a b

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP: Pratt & Whitney R985 (WASP JR.) Series AN-5 & AN-14B							Units Per Ass'y	Usage on Code
	MAJOR ASSEMBLY: CARBURETTOR & PACKING CASE (Cont'd)								
	PART NUMBER	1	2	3	4	5	6 7		
2-14-	49710	Tag - Fuel warning						1	a b
	35/5800P	Container - Re Usable Metal Shipping & Storage (RCAF Ref 35/292)						1	a b
-10	35/3B 5006-10	Seal - Main						1	a b
ATTACHING PARTS									
-11	35/3B 5006-4	Bolt - Hex head 5/8 NC - 1-1/4 in. long						26	a b
	35/5B 5006-4A	Nut - Hexagon						26	a b
-12	35/5003-9	Ring - Mounting						1	a b
-13	AN 7-36A	Bolt - Drilled Aircraft Machine 7/16-20						8	a b
	AN 860-716	Washer Flat						8	a b
	AN 365-720	Nut - Self Locking						8	a b
ATTACHING PARTS									
-14	35/3B 5006-6	Bolt - 5/8 NC. - 2 in. long						6	a b
	AN 935-1016	Washer - Spring lock						6	a b
	35/3B 5006-6B	Washer - Flat 11/16 ID - 1-3/4 in. OD						4	a b
-15	35/3B 5006-1	Gasket - Rubber						1	a b
-16	35/3B 4017-2	Plate cover						1	a b
ATTACHING PARTS									
-17	35/3B 5006-3	Bolt - Hex head 5/8 NC - 1-1/2 in. long						2	a b
	AN 935-1016	Washer - Spring Lock						2	a b
-18	35/3B 5006-5	Plug - Square Head 3 in. I. P. S. (cored type)						1	a b
-19	35/3B 5006-8	Plug - Square Head 2 in. I. P. S. (cored type)						2	a b

PART 3

SPECIAL TOOLS

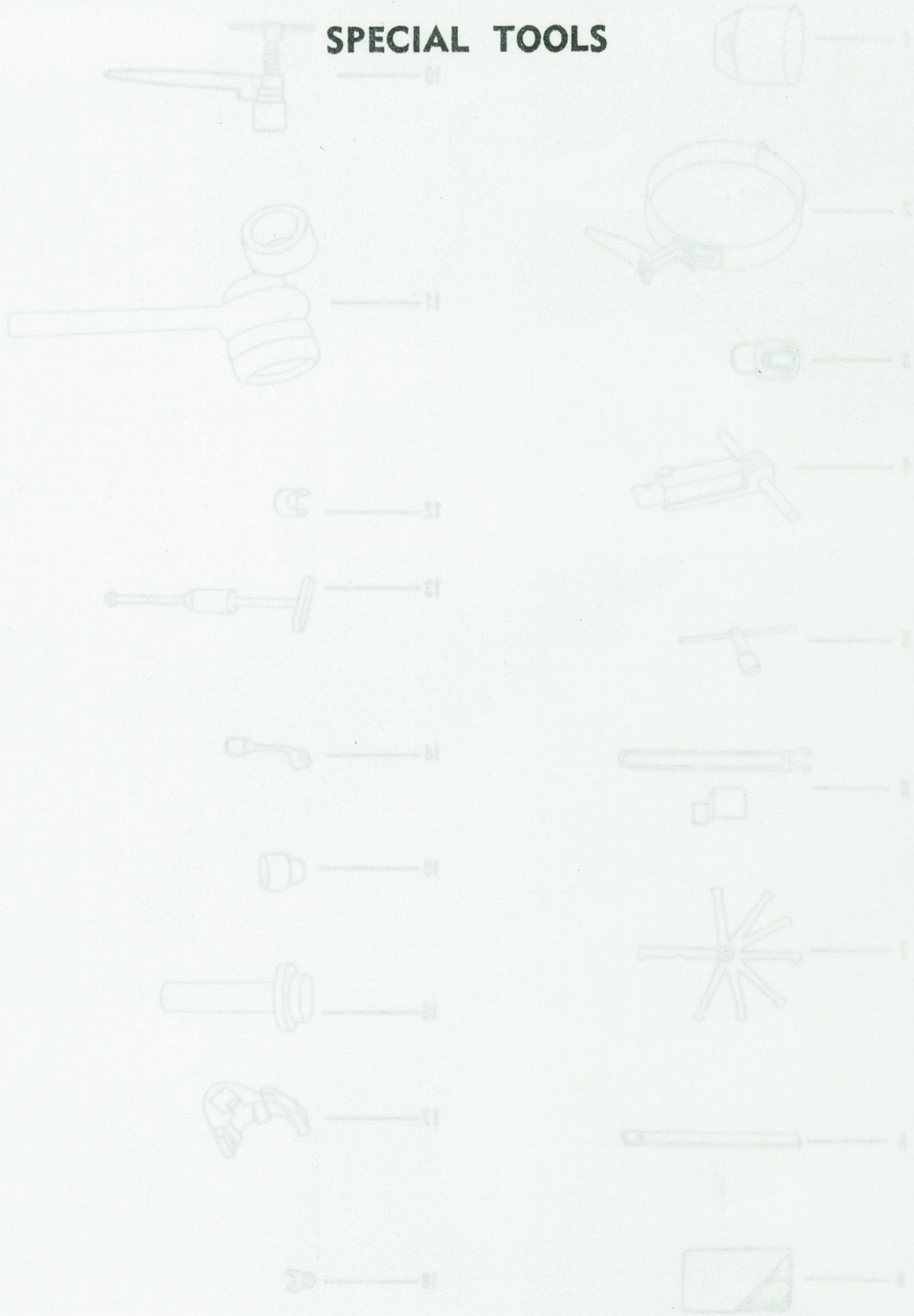


Figure 3-1 (Sheet 1 of 5) Special Tools

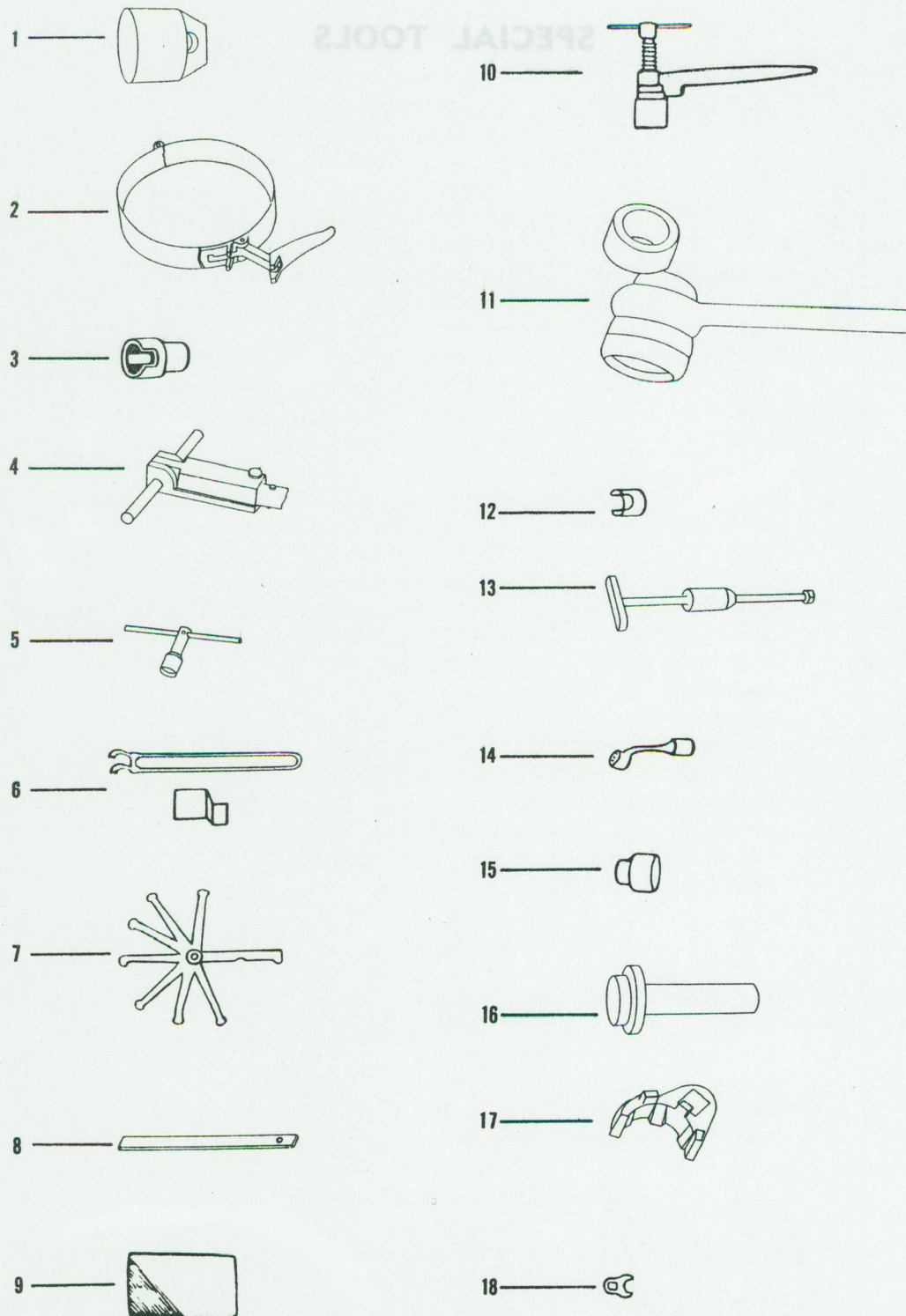


Figure 3-1 (Sheet 1 of 2) Special Tools

FIGURE and INDEX NUMBER	GROUP R-985-AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: SPECIAL TOOLS									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
3-1-1	PWA- 17							Eye - Crankshaft lifting (or PWA-520)	1	a b
-2	- 249							Clamp - Ring Compressing	1	a b
-3	- 455							Depressor - Rocker Arm (or PWA-1392)	1	a b
-4	- 459							Depressor - Valve Spring	1	a b
-5	- 671							Wrench - Oil Pressure Relief valve body	1	a b
-6	- 491							Wrench - Packing Gland	1	a b
-7	- 672							Gauge - Valve Clearance (Or PWA - 4675)	1	a b
	- 917							Sling - Lifting	1	a b
-8	- 996							Strip - Alignment	1	a b
-9	-1059							Mirror - Magneto Checking	1	a b
-10	-1075							Wrench - Valve Adjusting (Or PWA - 2835)	1	a b
-11	-1093							Wrench - Propeller shaft Thrust Bearing 10#30	1	a b
-12	-1265							Wrench - Oil flange connection	1	a b
-13	-1327							Puller - Oil Pump	1	a b
-14	-1393							Wrench - Cylinder hold down nut (or TAM-5534)	1	a b
-15	-1402							Socket - 1 in. Hexagon Sump Pump Wrench	1	a b
-16	-1415							Drift - .874 Dia. Pilot 1-23/32 shoulder	1	a b
-17	DMS-196010							Wrench - Push Rod Cover Nut	1	a b
-18	PWA-1471							Wrench - Starter & Generator Nut	1	a b
-19	-1500							Wrench - Intake Pipe Nut	1	a b
-20	-1502							Wrench - Rocker Shaft	1	a b
-21	-1608							Wrench - 3/8 in. Palnut	1	a b
-22	-1640-10							Driver - 28 Stud 1/4 in.	1	a b
	-1640-11							Driver - 24 Stud 5/16 in.	1	a b
	-1640-12							Driver - 24 Stud 3/8 in.	1	a b
	-1640-13							Driver - 20 Stud 7/16 in.	1	a b
	-1640-14							Driver - 20 Stud 1/2 in.	1	a b
-23	-3254							Wrench - Sparkplug 7/8 in.	1	a b
-24	-1787							Wrench - Oil Sump Drain Plug	1	a b
-25	-1791							Pliers - Piston Ring	1	a b
-26	-1886							Wrench - Adjustable Strap	1	a b
-27	-1937-20							Crimper - Ignition cable	1	a b
-28	-2003							Arbor - Generator Drive Gear Backlash	1	a b
-29	-2006							Wrench - Cylinder hold down 9/16 in. (Or PWA-2397)	1	a b
	-2285							Drift - Fuel Pump Drive Oil Seal	1	a b
-30	-2302							Pusher - Piston Pin (or PWA-4911 or PWA 4205-10)	1	a b
-31	-2398							Handle - Wrench	1	a b
	-2399							Wrench - Cylinder hold down nut	1	a b
	-2411							Handle - Cylinder hold down nut	1	a b
-32	-2414							Holder - Master Rod	1	a b
-33	-2488							Holder - Articulating Rod	18	a b
-34	-2713							Wrench - Crankshaft Front Plug Nut	1	a b
	-2826							Holder - Master Rod	1	a b
-35	-3145							Puller - Intake Pipe	1	a b
-36	-3762							Puller - Oil Seal Complete	1	a b
	-4093							Bar - Crankshaft Turning (or PWA-112)	1	a b
	-4205-10							Pusher - Piston Pin (or PWA-2302 & 4911)	1	a b
	-5124							Valve - Depreservation	1	a b

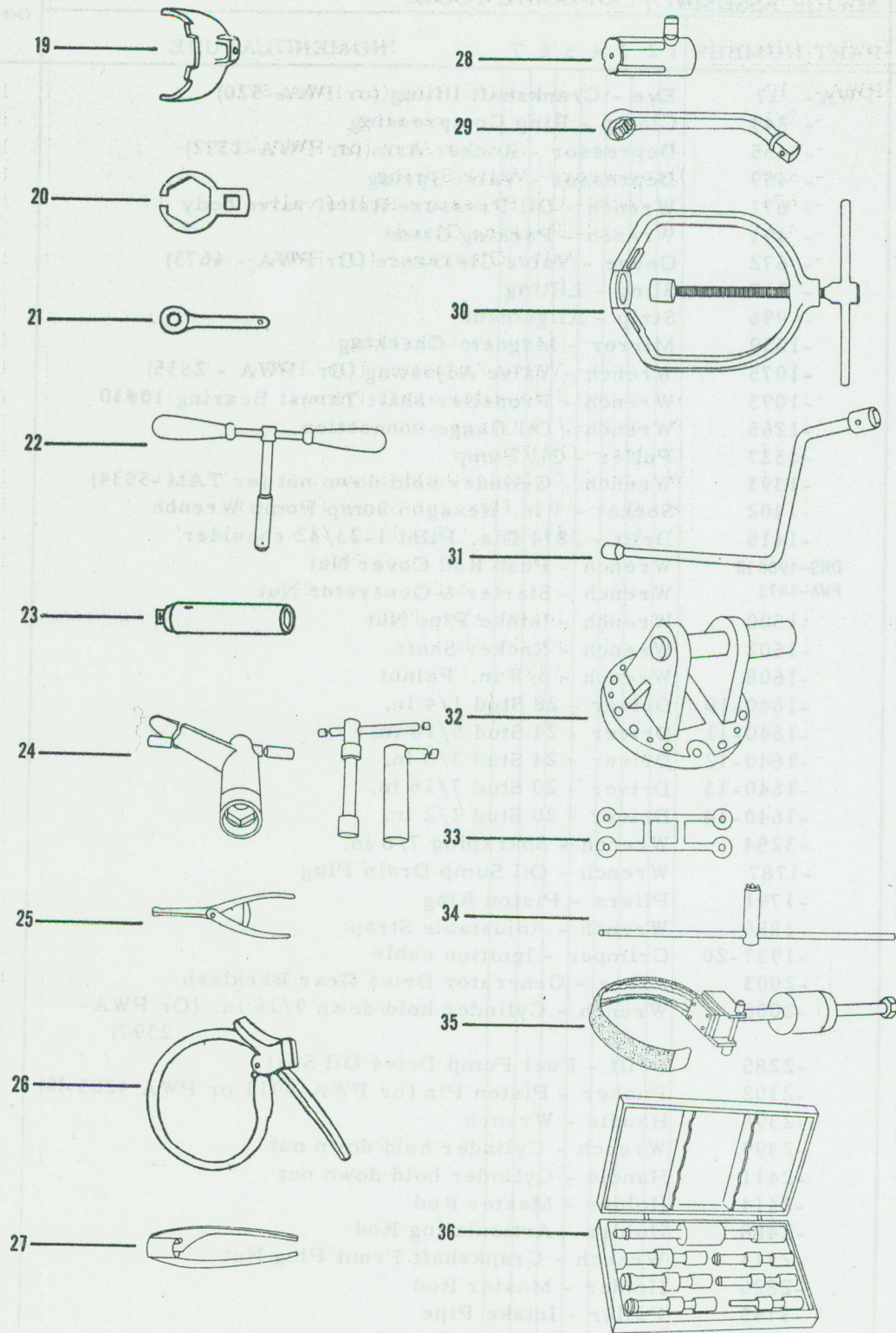


Figure 3-1 (Sheet 2 of 2) Special Tools

Group Assembly Part List

FIGURE and INDEX NUMBER	GROUP : R-985-AN-5 & AN-14B							Units Per Ass'y	Usage on Code	
	MAJOR ASSEMBLY: SPECIAL TOOLS (Cont'd)									
	PART NUMBER	1	2	3	4	5	6 7			NOMENCLATURE
3-1	SECT - 35/									
	10070							Kit - Timerite position Indicator (EO-10A-1-2AG)	1	a b
	- 35/									
	10135							Motorstat - Complete with case (EO-10A-1-2AH)	1	a b
	- 35/									
	10177							Magnetic Inspector - S435 (EO-10A-1-2AJ)	1	a b

PART 4

BULK MATERIAL TABLES

Not Applicable

PART 5
NUMERICAL PART LIST

PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
AS 125721	2-6-5	4	PWA 4205-10	3-1-36	1
AS 125740	2-6-5	2	PWA 5124	3-1-36	1
CPW 9200	2-5-1	7	SECT35/10070	3-1	1
CPW 9201	2-5-1	2	SECT35/10135	3-1	1
CPW 9202	2-5-1	5	SECT35/10177	3-1	1
CPW 9466	2-5-34	18	10	2-10-35	1
DMS 196010	3-1-17	1	100186	2-12-7	1
PWA 17	3-1-1	1	10110	2-10-74	1
PWA 249	3-1-2	1	1012	2-3-25	1
PWA 455	3-1-3	1	101248	2-5-71	1
PWA 459	3-1-4	1	101249	2-5-73	1
PWA671	3-1-5	1	10185	2-10-100	2
PWA 491	3-1-6	1	1019	2-2-43	1
PWA 672	3-1-7	1	1020	2-2-42	1
PWA 917	3-1-7	1	10266	2-3-45	1
PWA 996	3-1-8	1	10268	2-3-40	1
PWA 1059	3-1-9	1	10269	2-3-39	1
PWA 1075	3-1-10	1	10270	2-2-14	1
PWA 1093	3-1-11	1	103106	2-5-70	1
PWA 1265	3-1-12	1	103674	2-6-5	1
PWA 1327	3-1-13	1	10395	2-13-26	1
PWA 1393	3-1-14	1	104	2-9-67	1
PWA 1402	3-1-15	1	10413	2-14-1	1
PWA 1415	3-1-16	1	10414	2-9-23	2
PWA 1471	3-1-18	1	1044	2-2-34	18
PWA 1500	3-1-19	1	10464	2-9-72	1
PWA 1502	3-1-20	1	10465	2-10-97	2
PWA 1608	3-1-21	1	104749	2-10-23	1
PWA 1640-10	3-1-22	1	10486	2-5-26	9
PWA 1640-11	3-1-22	1	10502	2-10-49	1
PWA 1640-12	3-1-22	1	10524	2-10-19	1
PWA 1640-13	3-1-22	1	10538	2-10-48	1
PWA 1640-14	3-1-22	1	10545	2-10-48	2
PWA 1787	3-1-24	1	106229	2-7-6	1
PWA 1791	3-1-25	1	106230	2-7-6	1
PWA 1886	3-1-26	1	106231	2-7-6	1
PWA 1937-20	3-1-27	1	106232	2-7-6	1
PWA 2003	3-1-28	1	106233	2-7-6	1
PWA 2006	3-1-29	1	106234	2-7-6	1
PWA 2285	3-1-29	1	10682	2-10-51	3
PWA 2302	3-1-30	1	10762	2-5-28	9
PWA 2398	3-1-31	1	10897	2-10-2	1
PWA 2399	3-1-31	1	109	2-10-95	2
PWA 2411	3-1-31	1	1093	2-10-105	1
PWA 2414	3-1-32	1	10942	2-5-62	18
PWA 2488	3-1-33	18	109453	2-2-12	1
PWA 2713	3-1-34	1	109454	2-2-7	1
PWA 2826	3-1-34	1	109459	2-2-13	NP
PWA 3145	3-1-35	1	109460	2-2-13	NP
PWA 3254	3-1-23	1	109461	2-2-13	1
PWA 3762	3-1-36	1	109720	2-2-1	NP
PWA 4093	3-1-36	1			

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PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
109722	2-2-1	1	12082+4	2-10-6	2
110019	2-3-44	1	12085+4	2-3-11	1
11049	2-10-105	2	12088+4	2-2-4	2
11051	2-10-3	4	12089+4	2-2-4	2
110514	2-5-59	90	12091+4	2-10-7	1
11052	2-10-21	2		2-14-2	8
11106	2-4-19H	1	12094	2-10-19	1
11120	2-4-19G	1		2-8-14	18
11345+4	2-9-11		121202	2-9-23	1
	2-10-60	10	121203	2-9-16	1
11359	2-10-24	1	121207	2-10-10	1
1139	2-10-83	1	121208	2-10-11	2
11468	2-10-105	1	121209	2-10-12	1
11473	2-5-63	36	121210	2-9-1	1
11475	2-5-32	NP	121211	2-9-1	NP
11476	2-5-36	NP	121213	2-9-1	1
11477	2-5-33	18	121216	2-10-1	1
1149	2-8-11	1	121217	2-1-1	NP
11521	2-9-8		122	2-10-31	1
	2-10-52	19	12228	2-4-19U	3
1154	2-10-37	1	12317+4	2-8-10	1
115683	2-7-6	1		2-10-57	12
11598	2-14-4	1	123423+4	2-10-61	4
116576	2-2-16	1	123441+4	2-11-5	4
117	2-2-41	1	123596	2-11-4	1
1171	2-10-50	2	123724	2-10-1	1
1172	2-9-22	2	12376	2-6-10	1
1174	2-10-11	2		2-7-11	1
11747	2-12-15	2	123790	2-13-2	1
11748	2-9-64	1	12574	2-10-101	2
1175	2-10-108	2	126299	2-10-1	1
1177	2-10-39	1	126304	2-10-1	1
1187	2-10-20	1	126308	2-9-1	1
1189	2-10-36	1	126310	2-9-1	1
1191	2-10-10	1	126344	2-6-5	2
11913	2-13-19	1	126741	2-5-1	7
11914	2-13-21	2	126742	2-5-1	5
119525	2-10-32	1	12677	2-4-26	14
119526	2-10-22	1	12678	2-4-27	7
119527	2-10-28	1	126833	2-6-5	28
119528	2-10-27	1	126834	2-5-1	3
12009	2-2-40		Deleted		
	2-10-19	2	12768	2-9-36	1
12012	2-6-2		12788	2-9-49	NP
	2-7-2	16	128495	2-4-38	1
12046	2-14-6	2	128502	2-4-34	1
12054+4	2-5-11		128511	2-4-35	1
	2-9-15	20	128512	2-4-35	1
12055+4	2-2-10	2	12856	2-10-116	8
12057+4	2-3-13	17	12857	2-4-17	1
12081+4	2-3-10	90	12874	2-10-26	1

PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
12973	2-5-36	9	151627	2-6-2	
12974	2-5-32	9		2-7-8	16
13028	2-10-40	1	151744	2-7-6	NP
131	2-10-121	1	15188	2-5-70	1
1314	2-10-103	2	15189	2-5-70	1
132	2-10-81	2	153	2-10-105	6
1325	2-2-48		15443	2-2-47	
	2-8-17			2-10-66	6
	2-9-32	3	156	2-2-52	4
1326	2-9-60	1	156010	2-8-4	1
1335	2-9-68	1	156011	2-8-5	1
13404	2-10-21	1	1578	2-3-47	1
1345	2-3-32		1579	2-10-67	NP
	2-9-58	2	158188	2-10-9	
136	2-10-1	3		2-8-25	1
13621	2-5-39	18	158189	2-8-25	
13645	2-3-1	NP		2-10-9	2
13649	2-9-1	1	15893	2-13-12	18
13651	2-9-2	1	15950	2-4-29	1
13652	2-3-14	1	16028	2-2-46	7
13700	2-2-24	1	16047	2-10-39	2
13715	2-3-1	NP	161701	2-5-66	36
13755	2-9-55	1	16405	2-5-42	18
138	2-10-5	1	164314	2-10-106	2
13841	2-9-59	NP	164315	2-10-105	2
13842	2-9-59	1	164316	2-10-107	2
14013	2-6-2		16475	2-3-1	1
	2-7-2	18	16487	2-14-1	1
14096	2-5-67	36	16512	2-10-92	1
14126	2-13-23	1	165375	2-13-22	1
14128	2-13-10	2	165376	2-13-1	1
1427	2-10-81	1	167	2-4-9	3
1428	2-10-75	1	17009	2-10-66	1
143	2-8-3	1	17018	2-5-30	18
14357	2-10-39	1	17038	2-10-90	2
143575	2-6-6	6	17088	2-10-35	1
143774	2-6-5	1	17089	2-10-35	1
14438	2-5-58		171	2-2-25	
	2-9-28	10		2-3-35	
14537	2-10-43	2		2-9-64	
14538	2-10-42	2		2-10-44	27
14548	2-10-45	4	172	2-2-39	
14604	2-10-39	NP		2-3-48	
14667	2-8-24	2		2-9-34	
1482	2-10-105	2		2-10-20	
149	2-10-73	1		2-11-7	
15	2-3-7			2-14-3	
	2-9-24	5		2-8-19	64
15008	2-2-16	1	173	2-2-36	
15072+4	2-5-12	72		2-10-21	
				2-14-7	57

PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
173007	2-10-80	1	20545	2-4-32	
17331	2-8-18	2		2-5-47	19
17346	2-5-50		20567	2-9-2	1
	2-9-9		207098	2-4-19M	2
	2-10-52		2075	2-10-51	2
	2-12-9	27	20786	2-5-3	9
173595	2-6-5	NP	2108	2-5-4	18
173596	2-6-5	NP	21355	2-5-31	18
1742	2-10-29	1	21442	2-8-2	NP
175147	2-10-105	12	2146	2-10-40	1
17574	2-10-82	1	2147	2-10-40	1
1778	2-9-25	1	215	2-8-6	4
179	2-2-52	4	21896	2-9-4	1
18016	2-3-33	NP	220	2-4-19U	3
180799	2-14-8	1	2211	2-10-47	2
18169	2-2-52	4	22374	2-4-12	1
183748	2-10-89	1	224883	2-10-77	1
185956	2-13-13	18	224884	2-10-79	1
18599	2-3-33	1	22543	2-10-13	NP
186	2-3-19		22544	2-10-13	NP
	2-5-45	32	22890	2-10-13	NP
18600	2-3-33	1	22894	2-10-13	NP
18746	2-10-34	1	22895	2-10-16	1
188538	2-5-18	1	22896	2-10-15	1
188541	2-5-17	2	22897	2-10-14	1
188542	2-5-16	2	23256	2-8-13	1
188546	2-5-15	1	22399+4	2-10-55	2
189107	2-7-2	1	234	2-10-120	1
189108	2-7-2	1	DELETED		
189109	2-7-3	1	23435	2-10-17	1
19149	2-2-16	1	235	2-10-18	1
19209	2-2-16	1	23612	2-6-2	
1943	2-3-42	NP		2-7-2	16
19559	2-9-49	1	2383	2-10-105	1
19575	2-9-64	1	23834	2-4-2	NP
19649	2-9-7	1	23902	2-4-8	2
19868+4	2-10-56	4	23904	2-4-11	1
19875	2-4-19	1	23922	2-4-10	1
1989	2-9-1	2	23930	2-12-12	2
2	2-9-52	1	24	2-9-6	1
20117	2-8-2	2	24223	2-5-77	2
20126	2-8-8	2	24230	2-10-81	2
20159	2-2-20	1	24437	2-10-109	1
202	2-3-15		24883	2-6-2	
	2-9-44			2-7-2	18
	2-10-30	22	24884	2-6-2	
20251	2-6-8	1		2-7-2	36
20416	2-9-38	1	24929	2-10-51	2
20446	2-6-2	30	25	2-10-51	2
			255	2-9-63	2

PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
257	2-10-49	1	31346	2-11-2	1
DELETED			31724	2-5-44	18
25820	2-10-117	1	DELETED		
25821	2-10-118	1	32383	2-13-10	18
25978	2-10-13	1	326	2-4-44	8
2603	2-5-25	9	32735	2-5-65	36
2604	2-5-24	9	3278	2-9-69	1
261278	2-4-1	NP	32835	2-4-21	1
261279	2-4-1	NP	32983	2-4-38	1
261280	2-4-1	NP	33105	2-13-28	4
261296	2-4-1	NP	33415	2-2-50	
262	2-9-1	1		2-6-9	
26264+4	2-10-9	4		2-7-9	
2627	2-10-90	1		2-10-19	
2628	2-10-99	1		2-9-35	
2630	2-10-94	2		2-8-15	
26432	2-2-38			2-11-8	
	2-10-27			2-14-4	91
	2-14-8	38	33455	2-3-46	2
264399	2-4-16	1	33688	2-13-1	1
26508	2-12-6	1	33692	2-13-3	30 in.
265149	2-7-6		33784	2-2-32	18
	2-9-64	2	33858	2-10-21	2
27	2-3-4	8	33891	2-3-28	
27056	2-5-13	7		2-9-62	3
2715	2-10-90	1	34079	2-5-70	
27205	2-12-2	1		2-8-25	
27206	2-12-3	1		2-10-9	19
27207	2-12-4	1	34347	2-2-44	1
27208	2-12-5	1	34461	2-4-3	2
27210	2-12-7	1	34462	2-4-4	1
28160	2-5-23	9	34463	2-4-5	1
28161	2-5-22	9	34464	2-4-7	1
282	2-9-23	8	34465	2-4-6	1
28255+4	2-2-4	4	34466	2-4-2	NP
28834	2-10-53	1	34467	2-4-2	NP
28853	2-10-109	1	3447	2-3-23	NP
28955	2-10-10	1	34637	2-11-3	1
29410	2-5-27	9	3469	2-4-43	NP
2943	2-5-5	18	34749.	2-9-51	1
2987	2-3-23	NP	3485	2-5-19	9
299	2-4-23	4	3496	2-5-6	18
3	2-10-109	2	35/3B4017-2	2-14-16	1
30	2-9-61	1	35/3B5006-1	2-14-15	1
3033	2-3-30	1	35/3B5006-3	2-14-17	2
3036	2-3-31	1	35/3B5006-4	2-14-11	26
30489	2-5-41	18	35/3B5006-4A	2-14-11	26
30604	2-9-56	1	35/3B5006-5	2-14-18	1
30684	2-10-114	1	35/3B5006-6	2-14-14	6
31123	2-10-27	1	35/3B5006-6B	2-14-14	1

PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
35/3B5006-8	2-14-19	2	38354	2-9-64	1
35/3B5006-10	2-14-10	1	38355	2-9-64	1
35/5003-9	2-14-12	1	38360	2-10-67	NP
35/5800P	2-14-9	1	38361	2-10-67	NP
3500	2-5-2	9	38362	2-10-67	NP
3503	2-9-70	8	38363	2-10-76	1
3506	2-9-72	9	38364	2-10-70	1
3508	2-3-1	NP	38366	2-10-66	1
35081	2-9-57	1	38367	2-10-69	1
35091	2-13-4	1	38368	2-10-68	4
35138	2-10-110	NP	38436	2-9-64	1
35139	2-10-111	1	38602	2-9-31	8
35140	2-10-112	1	38606	2-2-35	2
35169	2-10-113	1		2-9-66	2
3529	2-5-7	9	38674	2-13-14	18
35431	2-7-6	2	38987	2-6-8	1
35432	2-7-6	4	3900	2-3-5	1
35438	2-7-6	4	39079+4	2-8-9	2
354953	2-5-76	NP	39106	2-10-1	NP
354954	2-5-76	9	39287	2-5-64	NP
35517	2-10-110	1	39288	2-5-61	18
3555	2-10-96	2	39292	2-5-64	18
3559	2-3-2	1	39304	2-2-26	1
3561	2-3-18	4	39314	2-5-53	72
35721	2-2-52	1	39485	2-2-1	NP
35848	2-13-19	1	39487	2-2-1	1
35849	2-13-21	2	39489	2-2-14	1
35850	2-13-20	2	39490	2-2-29	9
35851	2-13-18	1	39491	2-2-30	9
3592	2-4-43	8	39492	2-2-31	NP
35930	2-9-64	1	39493	2-2-8	9
35932	2-2-22		39494	2-2-8	4
	2-9-64	2	39495	2-2-9	9
35961	2-11-10	1	39496	2-2-9	4
36051	2-13-27	4	39523	2-5-8	9
36054	2-13-27	4	39526	2-5-69	8
26090	2-9-29		39527	2-5-51	9
	2-10-11	4	39528	2-5-52	9
3627	2-8-16	1	39564 ⁵	2-4-2	2
3649	2-10-4	1	39570	2-4-19A	1
36553	2-4-2	1	29571	2-4-19A	1
37123	2-13-5	1	39574	2-4-19M	1
3773	2-8-79	9	39575	2-4-19Q	1
37819	2-11-6	1	39576	2-4-19S	1
37907	2-10-109	1	39577	2-4-19J	1
37965	2-2-45	1	39578	2-4-19K	1
37966	2-2-6	1	39579	2-4-19N	1
38093	2-5-50	18	39580	2-4-19B	1
38109	2-5-49	9	39623	2-5-1	NP
38300+4	2-3-9	6	3965	2-3-23	1
38353	2-2-23		39737	2-4-35	NP
	2-9-64	3	39748	2-4-42	8

PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
39749	2-4-40	8	40592	2-6-6	1
39782	2-4-39	NP	40593	2-6-6	1
39783	2-4-41	4	40698	2-5-14	2
39785A	2-4-39	8	41461	2-7-1	1
39786	2-4-35	1	41462	2-7-6	NP
39787	2-4-35	1	41463	2-7-6	1
39788	2-4-34	1	41514	2-10-52	1
39893	2-4-1	1	4199	2-9-3	1
39915	2-4-2	NP	4220	2-12-14	2
39979	2-6-1		4229	2-9-21	1
	2-7-1	NP	42419+4	2-2-2	7
39980	2-6-1		42422+4	2-3-12	1
	2-7-1	18	43272	2-10-87	1
39981	2-6-2		43340	2-14-8	1
	2-7-2	NP	43567	2-10-41	1
39982	2-6-2		43568	2-9-19	1
	2-7-2	8	4381	2-2-37	
39985	2-7-3	NP		2-10-21	23
39986	2-7-3	2	43982	2-10-101	44
39987	2-7-5	NP	44	2-2-16	1
39988	2-7-5	1	44076	2-4-15	
39989	2-7-8	NP		2-9-30	
39990	2-7-8	1		2-10-12	4
39991	2-7-4	NP	44078	2-4-13	1
39992	2-7-4	1	44107	2-10-119	3
39995	2-6-1		4447	2-3-21	1
	2-7-1	10	44718	2-4-9	2
39997	2-6-10		4486	2-3-24	6
	2-7-10	16	45173	2-9-15	1
39998	2-6-9		45535	2-5-48	18
	2-7-7	9	45936	2-12-1	1
39999	2-6-9		45937	2-5-38	18
	2-7-7	9	45941	2-8-23	1
40000	2-6-9		45942	2-5-60	18
	2-7-7	16	45943	2-2-31	18
40049	2-5-55	9	46	2-4-18	1
40050	2-5-54	9	4614	2-9-48	79
40052	2-5-38	NP	46232	2-11-4	1
40111	2-2-16	1	46233	2-11-1	NP
40134	2-8-2	NP	46234	2-11-1	1
40135	2-8-2	NP	46253	2-10-63	2
40352	2-4-19C	1	46254	2-10-64	2
40355	2-4-19R	1	46255	2-10-66	2
40356	2-4-19D	1	46256	2-10-62	2
40357	2-4-19E	2	463	2-3-17	4
40358	2-4-19F	1	464	2-3-16	6
40382	2-8-13A	1	4669	2-9-74	9
40383	2-5-79	9	46816	2-9-43	1
40588	2-6-5	NP	47378	2-14-5	1
40589	2-6-5	1	47493	2-5-77	18
			47517	2-5-1	NP

PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
47518	2-5-1	9	528	2-2-20	4
47705	2-4-19T	1	532	2-5-46	18
47913	2-9-42	1	53203	2-2-52	
47973	2-9-1	1		2-10-21	4
4807	2-10-12	1	533	2-3-20	
48139	2-10-65	2		2-4-31	8
48388	2-8-2	NP	53723	2-12-17	2
48389	2-8-14	1	542	2-10-24	1
48390	2-8-12	1	5453	2-9-51	1
48392	2-8-2	NP	54610+4	2-3-8	11
48393	2-8-2	1	5509	2-12-11	5
48394	2-8-2	NP	5610	2-6-11	1
48564	2-10-1	1	5658	2-3-34	2
48776	2-12-16	10	5670	2-3-6	1
49353	2-7-7	2	5709	2-10-91	2
49402	2-7-6	1	57169	2-2-16	1
49403	2-7-6	1	57320	2-2-15	1
49404	2-7-6	1	57686	2-14-8	1
49405	2-7-6	1	57852	2-10-2	1
49406	2-7-6	1	57999	2-10-1	NP
49407	2-7-6	1	58321	2-6-76	16
49710	2-14-9	1	58325	2-6-1	
501	2-10-88	1		2-7-1	36
5017	2-9-45	1	58328	2-6-1	
5018	2-9-46	2		2-7-1	102
5019	2-9-54	1	58329	2-6-1	
502	2-3-36			2-7-1	36
	2-10-69	20	58332	2-7-5	4
5021	2-9-42	NP	58404	2-7-6	20
5023	2-9-55	1	58843+4	2-2-11	2
5025	2-9-5	1	58893	2-10-13	NP
5032	2-9-40	1	59189	2-10-13	1
5033	2-9-37	1	59482	2-13-16	18
50341	2-5-21	18	59739	2-10-9	1
50681	2-10-33	1	59939	2-5-35	9
51099	2-8-21	1	59940	2-5-31	9
511	2-2-40		5999	2-2-33	20
	2-3-49		6	2-2-40	
	2-10-38			2-14-4	3
	2-11-11		6091	2-10-84	1
	2-14-4	61	6191	2-9-64	2
512	2-10-20	5	62	2-2-5	
513	2-5-80			2-10-53	2
	2-9-74	54	6237	2-3-38	2
519	2-10-81	1	625+4	2-5-10	
5204	2-10-93	1		2-9-11	54
5205	2-10-92	NP	626+4	2-10-59	2
5206+4	2-10-58	4	63	2-4-37	1
523	2-10-98	2	6514	2-9-49	1
52777	2-5-67	36	6515	2-9-39	1
			6558	2-2-52	

PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
656+4	2-8-20	3	74932	2-9-33	1
6924	2-10-54	4	74943	2-3-1	NP
70472	2-10-19	1	74945	2-2-52	1
7072	2-9-71	9	74947	2-14-1	1
7073	2-4-28	1	74955	2-2-51	1
71139	2-4-25	1	74995	2-2-51	1
71145	2-4-33	1	74956	2-10-9	1
71147	2-7-6	1	74957	2-10-66	1
71148	2-7-6	1	74963	2-10-66	1
71149	2-7-6	2	7499	2-10-25	1
71166	2-7-6	1	75162	2-9-65	1
713	2-5-20	9	7577	2-9-27	2
71538	2-4-2	1	7590	2-3-42	NP
72430	2-7-6	1	76284	2-6-3	1
7359	2-5-70	9	76328	2-6-3	1
73981	2-10-5	7	76329	2-6-3	NP
	2-6-2		76330	2-6-4	1
	2-7-2	14	76331	2-6-4	NP
73984	2-6-6	1	7635	2-5-60	
73988	2-6-2			2-10-21	35
	2-7-2	18	76365	2-10-41	1
73989	2-6-7		76366	2-10-41	1
	2-7-5	2	76367	2-10-41	2
73990	2-6-5		76369	2-6-1	1
	2-7	2	7644	2-9-25	2
73991	2-6-8	1	77323	2-6-3	1
73995	2-6-1		7766	2-14-9	1
	2-7-1	36	77761	2-2-21	1
73996	2-6-1		77762	2-2-19	1
	2-7-1	18	77763	2-2-20	1
74012	2-6-2		77764	2-2-18	1
	2-7-2	14	77765+4	2-2-3	2
74013	2-6-2		77766	2-2-17	1
	2-7-2	16	77908	2-11-9	1
74014	2-6-1		77913+4	2-10-8	6
	2-7-1	10	78858	2-10-50	6
74015	2-6-7	1	78928	2-6-7	
74016	2-6-2			2-7-5	2
	2-7-2	16	7916	2-3-37	2
74017	2-7-6	1	7959+4	2-9-10	3
74018	2-7-6	1	80136	2-6-7	NP
74026	2-6-1		80137	2-6-7	1
	2-7-1	18	80328	2-7-1	1
74088	2-6-5	1	80483	2-9-20	1
743	2-4-19P	1	80484	2-9-17	NP
744	2-10-46	2	80485	2-9-18	1
747	2-4-2	3	80486	2-9-17	1
749	2-4-2	2	80487	2-9-49	NP
74927	2-14-1	1	80489	2-9-50	1
74929	2-2-49	1	80490	2-9-55	1

PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
80492	2-9-25	NP	88135	2-5-71	NP
80493	2-9-25	1	88136	2-5-71	NP
80494	2-9-42	NP	8846	2-9-3	2
80710	2-9	NP	88708	2-13-4	4
80804	2-3-1	NP	8955	2-5-40	18
80805	2-3-1	NP	90105+4	2-9-13	2
80806	2-3-1	1	90106+4	2-2-10	2
809	2-10-104	1	9016	2-5-37	18
80983	2-2-16	1	9035	2-9-53	1
80984	2-2-15	1	9036	2-9-21	1
80985	2-4-14	1	90437	2-13-3	1
80987	2-4-1	1	90440	2-13-23	1
81058	2-9-49	1	90458	2-13-23	1
81170	2-9-49	NP	90469	2-13-22	2
81174	2-3-1	1	9049	2-10-86	1
81185	2-8-1	1	90560	2-5-56	18
81186	2-3-29	1	9085+4	2-9-12	
81188	2-3-33	1		2-10-9	5
81189	2-3-43	1	91341	2-2-16	1
8138	2-10-69	1	91453	2-8-3	3
81606	2-3-1	1	91454	2-8-3	1
818	2-2-40		92367	2-13-7	9
	2-5-81		92368	2-13-8	36
	2-9-74	55	92369	2-13-9	36
81998	2-12-17	1	92370	2-13-7	134 in.
820	2-10-40	2	92372	2-13-24	7
82307	2-13-15	18	92373	2-13-25	1
8232	2-2-16	1	92374	2-13-25	1
82515	2-7-6	1	9252+4	2-9-13	2
82516	2-7-6	1	9264	2-5-9	18
82517	2-7-6	1	9265	2-5-68	36
827	2-8-22		9269	2-3-3	1
	2-10-66	3	9294	2-5-35	18
83323	2-3-27	9	93	2-4-45	1
84106	2-10-21	2	9317	2-3-43	35
84251	2-4-36	1	93314	2-7-6	2
85	2-10-102	2	9332	2-12-17	1
85039	2-2-52	1	9383	2-4-30	1
861	2-9-74	9	9385+4	2-9-14	1
86266	2-10-67	1	9401	2-3-22	1
863	2-9-73	9	9405	2-4-22	1
8710	2-9-25	NP	9423	2-4-24	1
8711	2-9-55	1	9598	2-9-64	1
8712	2-9-25	1	9632	2-10-116	1
87241	2-9-26	1	9633	2-10-109	1
8734	2-10-78	1	9667	2-2-16	1
8735	2-10-71	1	97921	2-5-63	18
8756	2-10-21	6	97927	2-9-42	1
8760	2-5-29	9	9876	2-10-21	19
8797	2-9-47	1	98997	2-5-73	1
8812	2-3-41	6	9903	2-3-42	1

PART NUMBER	FIGURE AND INDEX NUMBER	QUANTITY	PART NUMBER	FIGURE AND INDEX NUMBER	TOTAL QUANTITY
9085+4	9-12	5	93314	7-	2
	10-		9332	12-	1
91454	8-	1	9383	4-30	1
92367	13-7	9	9385+4	9-14	1
92368	13-8	36	9401	3-22	1
92369	13-9	36	9405	4-22	1
92370	13-	134 in.	9423	4-4	1
92372	13-24	7	9514	5-35	18
92373	13-	1	9598	9-	1
92374	13-25	1	9632	10-116	1
9252+4	9-	2	9633	10-	1
9264	5-9	18	9667	2-	1
9265	5-68	36	97921	5-63	18
9269	3-3	1	97927	9-42	1
9294	5-35	18	9876	10-21	19
93	4-45	1	98997	5-73	1
9317	3-43	35	9903	3-42	1

