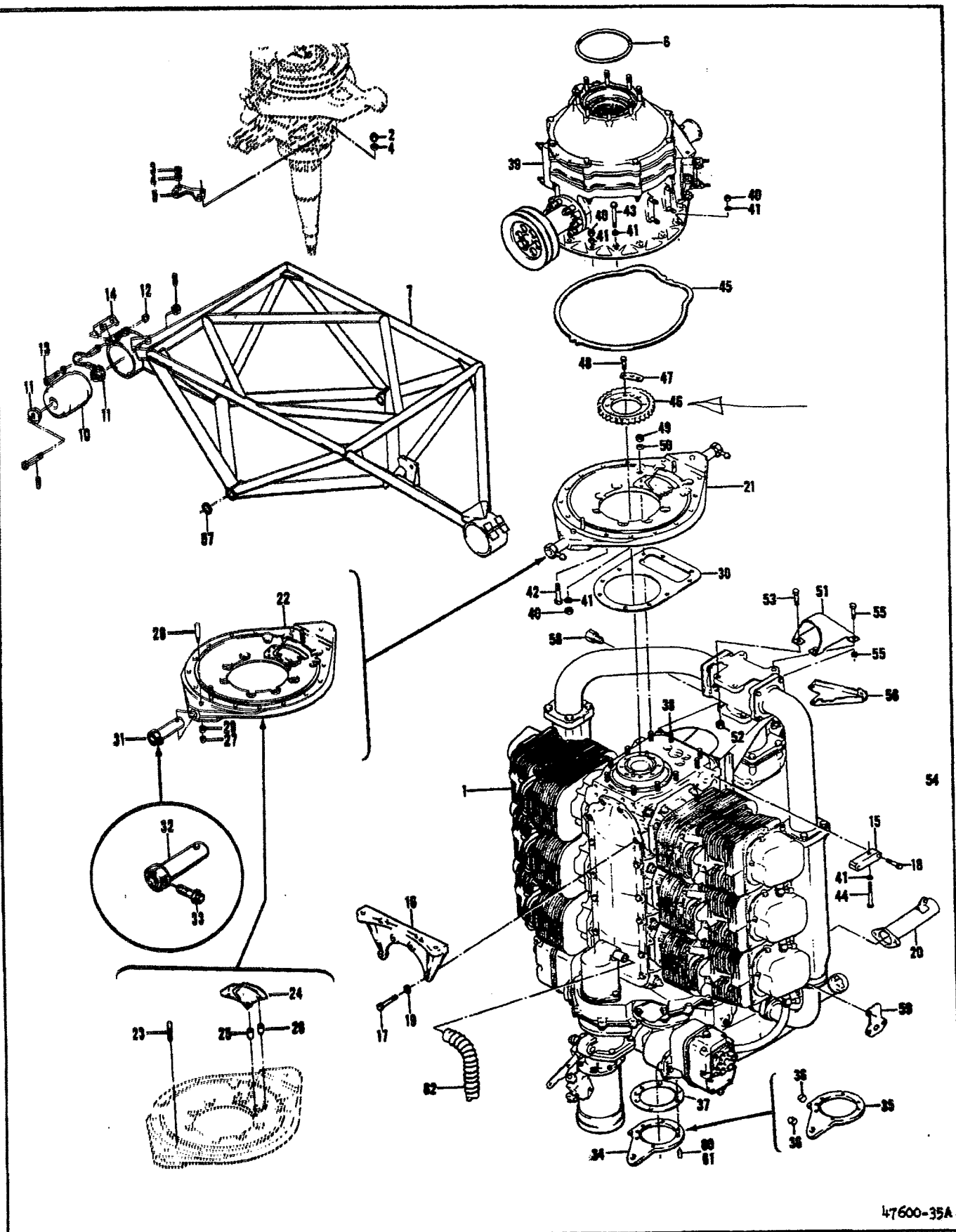




47600-35A

Figure 28. Power Plant Installation (47D-1)

FIG & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASS'Y	REFER TO											REFER TO			
				B	B3	D	D1	G	1	2	3	4	5	6		7		
28-17	AN75A11	BOLT.....	4	X	X	X	X	X										
-18	AN75A12	BOLT.....	4	X	X	X	X	X										
-19	AN960-516	WASHER.....	8					X										
-20	SK1169-7	STACK, Stub (KAP).....	6	X	X	X	X	X										
-21	47-612-101-5	PLATE ASSEMBLY, Transmission to engine... adapter (47DL thru #476) (178 HP).	1	X	X	X	X										X	
	47-612-101-3	PLATE ASSEMBLY, Transmission to engine... adapter (200 HP) (47DL#477 and sub).	1					X	X								X	
-22	47-612-004-6	ADAPTER ASSEMBLY, Transmission to.... engine (Use with 47-612-057-1..... bracket) (47DL#1 thru #476) (178 HP).	1	X	X	X	X										X	#112 SI #113 SI
	47-612-004-8	ADAPTER ASSEMBLY, Transmission to.... engine (Use with 47-612-058-1..... bracket) (47DL#477 and subsequent).. (200 HP).	1					X	X			X						
	47-612-004-13	ADAPTER ASSEMBLY, Transmission to.... engine (Spares).	1					X	X								X	
-23	47-620-234-1	STUD, 5/16-24 x 5/16-18 x 1.718.. in.	2	X	X	X	X	X									X	
	47-620-234-2	STUD, 5/16-24 x 5/16-18 x 1.718.. in. (.003 oversize).		X	X	X	X	X									X	
	47-620-234-3	STUD, 5/16-24 x 5/16-18 x 1.718.. in. (.006 oversize).		X	X	X	X	X									X	
	47-620-234-4	STUD, 5/16-24 x 5/16-18 x 1.718.. in. (.009 oversize).		X	X	X	X	X									X	
	47-620-234-5	STUD, 5/16-24 x 5/16-18 x 1.718.. in. (.012 oversize).		X	X	X	X	X									X	
-24	47-612-051-1	SCOOP, Oil.....	1	X	X	X	X	X									X	
-25	NAB42DD5-28A	SPACER.....	1	X	X	X	X	X										
-26	NAB42DD5-20A	SPACER.....	1	X	X	X	X	X										
	47-2459-1	KIT, Adapter repair.....	1	X	X	X											X	Note 3
	47-612-200-1	BUSHING, Adapter plate.....	2	X	X	X											X	Note 3
-27	AN364-1032	NUT.....	2	X	X	X	X											
-28	AN386-1-10A	PIN.....	2	X	X	X	X	X										
-29	AN975-3	WASHER.....	2	X	X	X	X	X										
-30	47-612-115-3	GASKET, Engine adapter plate (200 HP)	1					X	X									
-31	47-612-152-1	PIN ASSEMBLY, Engine mount (Spares)..	2	X	X	X	X	X									X	
-32	47-612-152-5	PIN, Engine mount.....	1	X	X	X	X	X										
-33	1698	FITTING, Lubricator (AL).....	1	X	X	X	X	X										
-34	47-612-040-5	ADAPTER ASSEMBLY, Sprag system.....	1	X	X	X	X	X									X	#187 SI
-35	47-612-040-3	ADAPTER, Sprag system.....	1	X	X	X	X	X									X	
-36	75B6-8-8	BUSHING, Press fit.....	2	X	X	X	X	X									X	
	47-612-053-1	BUSHING, Sprag adapter (.01562 over- size).		X	X	X	X	X									X	
	47-612-053-2	BUSHING, Sprag adapter (.03125 over- size).		X	X	X	X	X									X	
-37	17902	GASKET, Adapter plate (AIM).....	1	X	X	X	X	X									X	Note 2
-38	47-612-114-1	STUD, Adapter plate attaching.....	10	X	X	X	X	X									X	
	47-612-114-2	STUD, Adapter plate attaching (.003 over- size).		X	X	X	X	X									X	
	47-612-114-3	STUD, Adapter plate attaching (.006 over- size).		X	X	X	X	X									X	
	47-612-114-4	STUD, Adapter plate attaching (.009 over- size).		X	X	X	X	X									X	
	47-612-114-5	STUD, Adapter plate attaching (.012 over- size).		X	X	X	X	X									X	
-39	47-620-200-39	TRANSMISSION ASSEMBLY (See fig. 15 for... detail breakdown) (47DL thru #476).	1	X	X	X	X											#97 SI
	47-620-600-7	TRANSMISSION ASSEMBLY (See fig. 16 for... detail breakdown) (47DL#477 and sub).... (Spares).	1	X	X	X	X	X									X	
-40	AN365-524	NUT.....	16					X	X									
-41	AN960-516	WASHER.....	30	X	X			X										
-42	AN5-14A	BOLT.....	10					X										
-43	AN5-27A	BOLT.....	2					X										
-44	AN5-34A	BOLT.....	2					X										
-45	47-620-374-1	GASKET, Transmission and adapter plate...	1	X	X	X	X	X	X								X	
-46	47-620-204-1	RING, Crank.....	1	X	X	X	X	X									X	
-47	47-620-621-1	RETAINER, Transmission dowel.....	2					X									X	
-48	AN5H4A	BOLT.....	6					X										
-49	AN310-7	NUT.....	10					X										
-50	AN960-616	WASHER.....	10					X										
-51	47-649-015-1	GUARD, Tail rotor shaft.....	1					X	X								X	
-52	AN365D524	NUT.....	3					X	X									
-53	AN5-10A	BOLT.....	1					X										
-54	AN365-524	NUT.....	1					X	X									
-55	AN5DD7A	BOLT.....	3					X	X									
-56	47-631-127-1	SUPPORT, Carburetor mixture control.....	1					X									X	
-57	35Z1-32-24-16	SHIM, Laminated.....	AR	X	X	X	X	X									X	

3

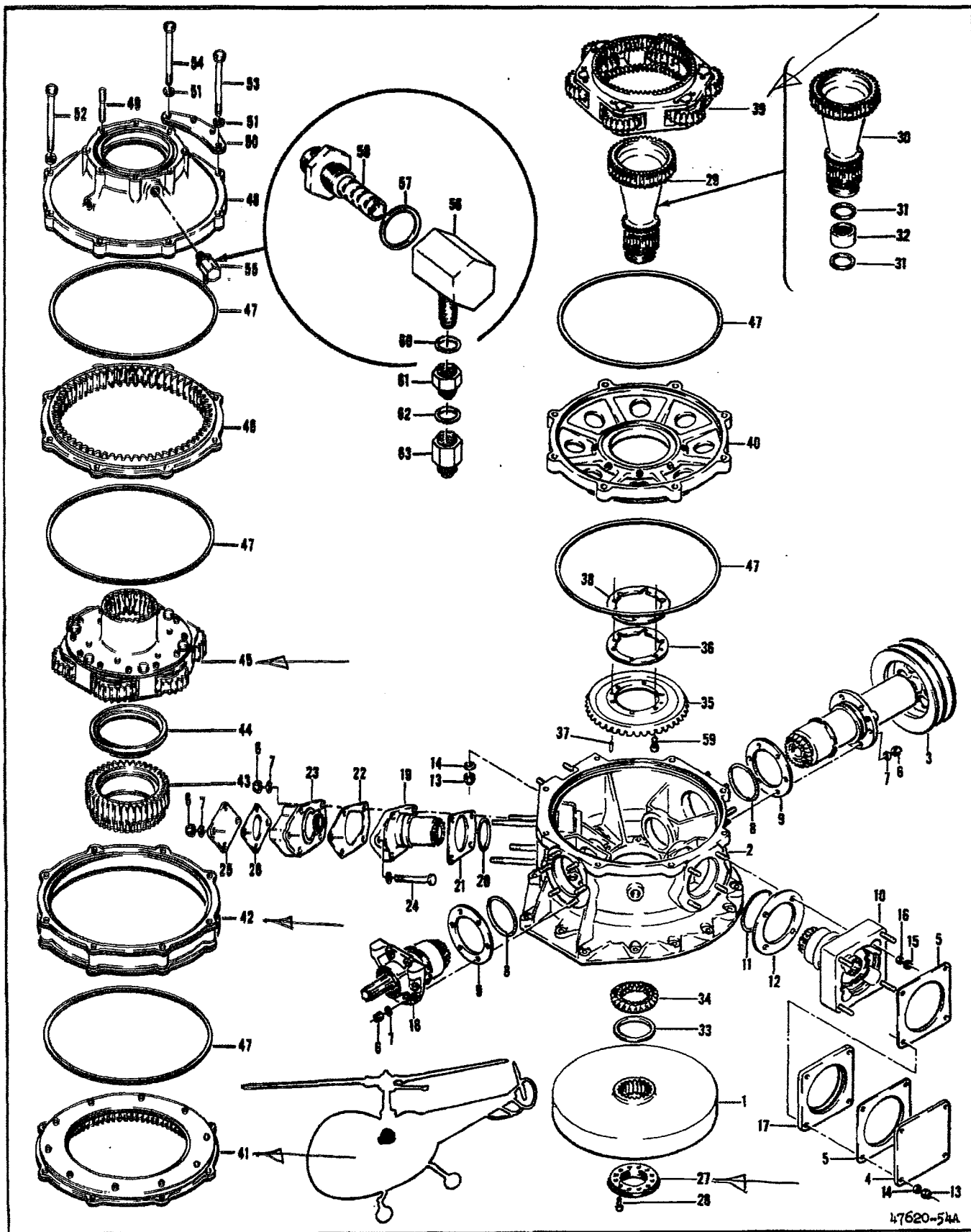


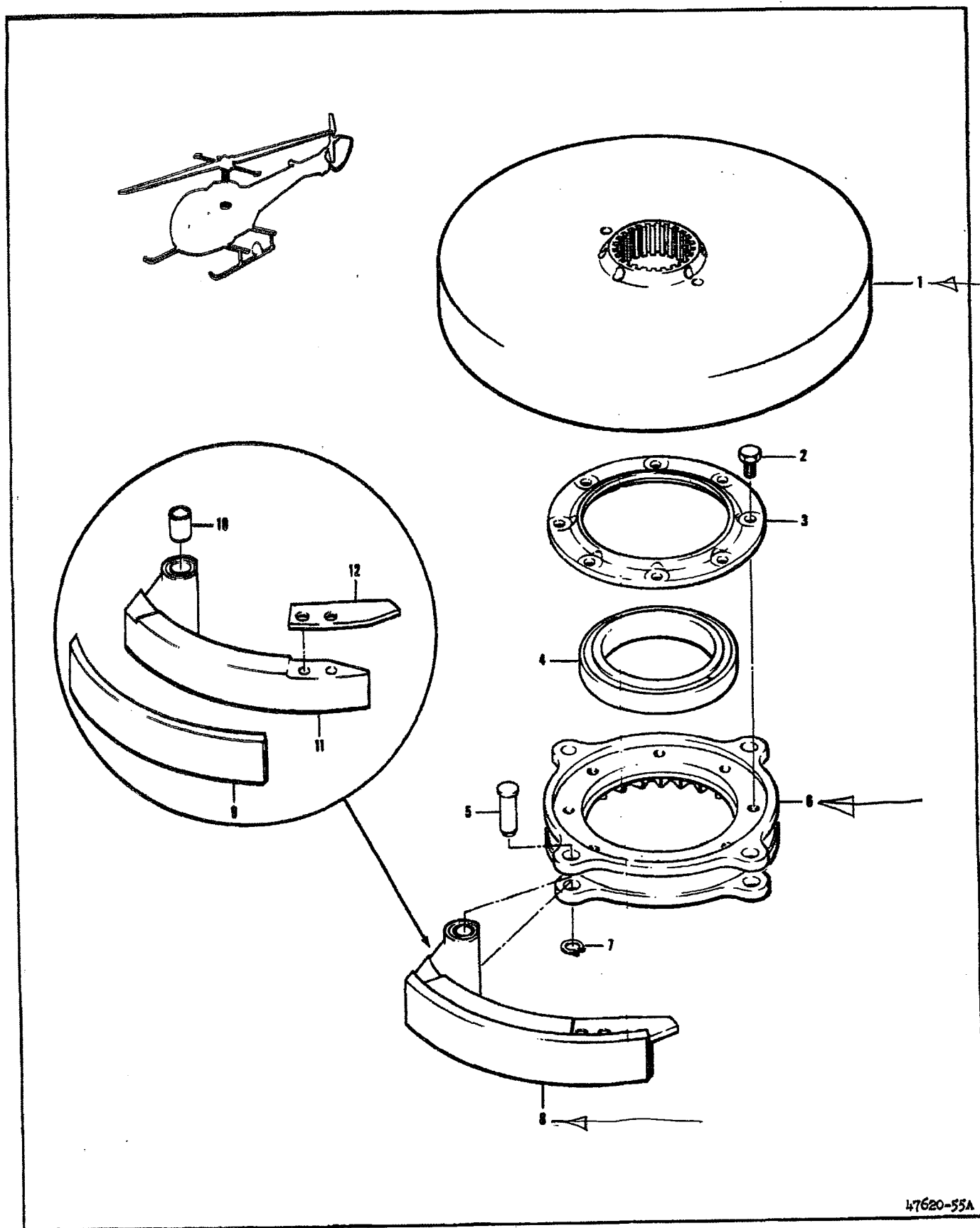
Figure 15. Main Rotor Transmission Assembly (47B, 47B3, 47D, 47D1 thru No. 476)

FIG & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASS'Y	B B3 D D1 G					REFER TO
				B	B3	D	D1	G	
15-	47-620-200-39	TRANSMISSION ASSEMBLY, Main rotor (See fig. 27, 28 for next assembly)(47D1 thru #476)...	Ref	X	X	X	X		#97SI
- 1	47-620-609-1	CLUTCH ASSEMBLY, Centrifugal (See fig. 18 for detail breakdown).	1	X	X	X	X	X	X
	47-620-609-3	CLUTCH ASSEMBLY, Centrifugal (See fig. 18 for detail breakdown)(Spares).	1	X	X	X	X	X	*Note #1
- 2	47-620-294-1	CASE ASSEMBLY, Transmission lower (See fig. 19 for detail breakdown).	1	X	X	X	X		X
- 3	47-620-573-1	DRIVE ASSEMBLY, Engine cooling fan (See fig. 22 for detail breakdown)(47D1 thru #476).	1			X			#133-SI
	47-620-539-1	DRIVE ASSEMBLY, Engine cooling fan (See fig. 22 for detail breakdown)(Spares).	1			X	X		X
	47-620-539-3	DRIVE ASSEMBLY, Engine cooling fan (See fig. 22 for detail breakdown)(Spares).	1	X	X	X			X
- 4	47-620-309-2	PLATE, Generator mounting pad cover (47D1 thru #476).	1	X	X	X	X		X
- 5	47-620-243-1	GASKET, Generator (47D1 thru #476).....	2	X	X	X	X		X
- 6	AN365-428	NUT.....	18	X	X	X	X	X	
- 7	AN960-416	WASHER.....	18	X	X	X	X	X	
- 8	AN6230-5	GASKET, "O" ring.....	2	X	X	X	X	X	
- 9	47-620-214-1	SHIM, Tail rotor and fan drive sleeve....	2	X	X	X			X
-10	47-620-286-1	DRIVE ASSEMBLY, Generator (See fig. 17 for detail breakdown).	1	X	X	X			*Note #3
	47-620-623-1	DRIVE ASSEMBLY, Generator (See fig. 7 for detail breakdown).	1	X	X	X	X	X	X
-11	AN6230-7	GASKET, "O" ring.....	1	X	X	X	X	X	
-12	47-620-242-1	SHIM, Generator drive sleeve.....	1	X	X	X	X	X	X
-13	AN365-524	NUT.....	12	X	X	X	X	X	
-14	AN960-516	WASHER.....	20	X	X	X	X	X	
-15	AN320-5	NUT.....	4	X	X	X	X	X	
-16	AN960-516L	WASHER.....	4	X	X	X	X	X	
-17	47-620-307-1	SPACER, Generator mounting (47D1 thru #476).	1	X	X	X	X		X
-18	47-620-284-1	DRIVE ASSEMBLY, Tail rotor (See fig. 23 for detail breakdown)(47D1 thru #476).	1	X	X	X	X		#188SI
	47-620-541-9	DRIVE ASSEMBLY, Tail rotor (See fig. 23 for detail breakdown)(47D1 thru #477).	1	X	X	X	X	X	X
-19	47-620-287-1	DRIVE ASSEMBLY, Rotor tachometer generator (See fig. 26 for detail breakdown).	1	X	X	X	X	X	X
-20	AN6230-3	GASKET, "O" ring.....	1	X	X	X	X	X	
-21	47-620-250-1	SHIM, Rotor tachometer generator drive sleeve.	1	X	X	X	X	X	X
-22	47-620-251-1	GASKET, Rotor tachometer generator drive sleeve.	1	X	X	X	X	X	X
-23	47-620-297-1	HOUSING ASSEMBLY, Rotor tachometer generator drive (See fig. 26 for detail breakdown).	1	X	X	X	X	X	X
-24	AN4-24A	BOLT.....	1	X	X	X	X		
-25	47-620-309-1	PLATE, Tachometer generator mounting pad cover.	1	X	X	X	X		X
-26	47-620-255-1	GASKET, Rotor tachometer generator.....	1	X	X	X	X	X	X
-27	47-620-332-1	NUT, Clutch drum lock.....	1	X	X	X	X	X	X
-28	AN501-10-10	SCREW.....	2	X	X	X			
-29	47-620-296-1	GEAR ASSEMBLY, Transmission lower sun....	1	X	X	X			X
-30	47-620-206-1	GEAR, Transmission lower sun.....	1	X	X	X			X
-31	#1	RING, Snap (EM).....	2	X	X	X			X
-32	GB1616X	BEARING (TOR)(No substitution).....	1	X	X	X	X	X	X
-33	47-620-213-1	SHIM, Transmission fan drive gear.....	1	X	X	X	X	X	X
-34	47-620-207-1	GEAR, Transmission fan drive.....	1	X	X	X	X	X	X
-35	47-620-030-1	GEAR, Transmission tail rotor drive.....	1	X	X	X			X
-36	47-620-054-1	SHIM, Tail rotor gear.....	1	X	X	X			X
-37	48-431-640-1	FIN, Transmission dowel.....	2	X	X	X			X
-38	47-620-614-1	SHIM, Tail rotor drive gear.....	1	X	X	X			X
-39	47-620-474-1	SPIDER ASSEMBLY, Transmission lower (See fig. 24 for detail breakdown).	1	X	X	X			X
-40	47-620-283-1	PLATE ASSEMBLY, Bearing support (See fig. 24 for detail breakdown).	1	X	X	X			X
-41	47-620-290-2	FREE WHEELING ASSEMBLY, Transmission (See fig. 24 for detail breakdown).	1	X	X	X			*Note #4
	47-620-536-1	FREE WHEELING ASSEMBLY, Transmission (See fig. 24 for detail breakdown).	1	X	X	X	X	X	X
-42	47-620-011-1	CASE ASSEMBLY, Transmission center.....	1	X	X	X	X	X	X
-43	47-620-221-1	GEAR, Transmission upper sun.....	1	X	X	X	X	X	X
-44	47-620-472-1	BEARING, Upper planet thrust.....	1	X	X	X	X	X	X
-45	47-620-473-1	SPIDER ASSEMBLY, Transmission upper (See fig. 25 for detail breakdown).	1	X	X	X			X
-46	47-620-019-1	GEAR, Transmission upper ring.....	1	X	X	X	X	X	X

ITEM 39: 47D-1 LOWER SPIDER ASSY

47-620-555-1

47D-1 SPIDER ASSY



47620-55A

Figure 18. Centrifugal Clutch Assembly

FIG & INDEX NO	PART NO.	DESCRIPTION	UNITS PER ASS'Y	B 53 D DI G						REFER TO					
				1	2	3	4	5	6	7	8	9	10	11	12
17-	47-620-234-4	• • STUD, Generator drive 5/16-24 x 5/16-18 x 1.718 in. (.009 oversize).							X	X				X	
	47-620-234-5	• • STUD, Generator drive 5/16-24 x 5/16-18 x 1.718 in. (.012 oversize).							X	X				X	
-10	47-620-238-1	• GEAR ASSEMBLY, Generator drive.....	1	X	X	X	X	X	X	X				X	
-11	47-620-256-3	• • CORK, Transmission oil seal.....	1	X	X	X	X	X	X	X				X	
-12	47-620-238-2	• • GEAR, Transmission drive.....	1	X	X	X	X	X	X	X			X		
*NOTE: #1 47-620-623-1 Drive Assembly may be used for 15 amp., 25 amp. or 50 amp. Generator.															
18-	47-620-609-1	CLUTCH ASSEMBLY, Centrifugal (See figs. 15 & 16 for next assembly).	Ref	X	X	X	X	X	X					X	
	47-620-609-3	CLUTCH ASSEMBLY, Centrifugal (See figs. 15 & 16 for next assembly)(Spares).	Ref	X	X	X	X	X	X					X	*Note #1
- 1	47-620-333-1	• DRUM, Centrifugal clutch.....	1	X	X	X	X	X	X					X	
- 2	AN3H3A	• BOLT.....	8	X	X	X	X	X	X					X	
- 3	47-620-205-1	• RETAINER, Centrifugal clutch.....	1	X	X	X	X	X	X					X	
- 4	K47BK (Spec E4239)	• BEARING, Centrifugal clutch (FAF)(No substitution). (Non-shielded).	1	X	X	X	X	X	X					X	
- 5	47-620-619-1	• PIN, Centrifugal clutch pivot.....	4	X	X	X	X	X	X					X	#165 SI
	47-620-619-3	• PIN, Centrifugal clutch pivot (.008 oversize).		X	X	X	X	X	X					X	
	47-620-619-5	• PIN, Centrifugal clutch pivot (.015 oversize).		X	X	X	X	X	X					X	
	47-620-619-7	• PIN, Centrifugal clutch pivot (.023 oversize).		X	X	X	X	X	X					X	
- 6	47-620-608-1	• SPIDER, Centrifugal clutch..... (ALTERNATE)	1	X	X	X	X	X	X					X	
	47-620-203-1	• SPIDER, Centrifugal clutch.....		X	X	X	X	X	X			X			*Note #2
	47-620-305-1	• SPIDER, Centrifugal clutch.....	4	X	X	X	X	X	X			X			*Note #2
- 7	NAS51-37	• RING, External retainer.....	1	X	X	X	X	X	X					X	
- 8	47-620-610-11	• SHOE ASSEMBLY, Centrifugal clutch. (Consists of a matched set of 4 Shoe .. Assemblies).													
- 9	47-620-610-7	• • LINING, Centrifugal clutch shoe.....	Ref	X	X	X	X	X	X			X			
-10	47-620-620-3	• • BUSHING, Centrifugal clutch.....	4	X	X	X	X	X	X			X		X	
-11	47-620-610-3	• • SHOE, Clutch.....	Ref	X	X	X	X	X	X			X			
-12	47-620-610-9	• • PLATE, Support.....	4	X	X	X	X	X	X					X	
*NOTE: #1 47-620-609-3 is the same as 47-620-609-1 less 47-620-333-1, Drum. #2 47-620-203-1 and 47-620-305-1 have been superseded by 47-620-608-1															