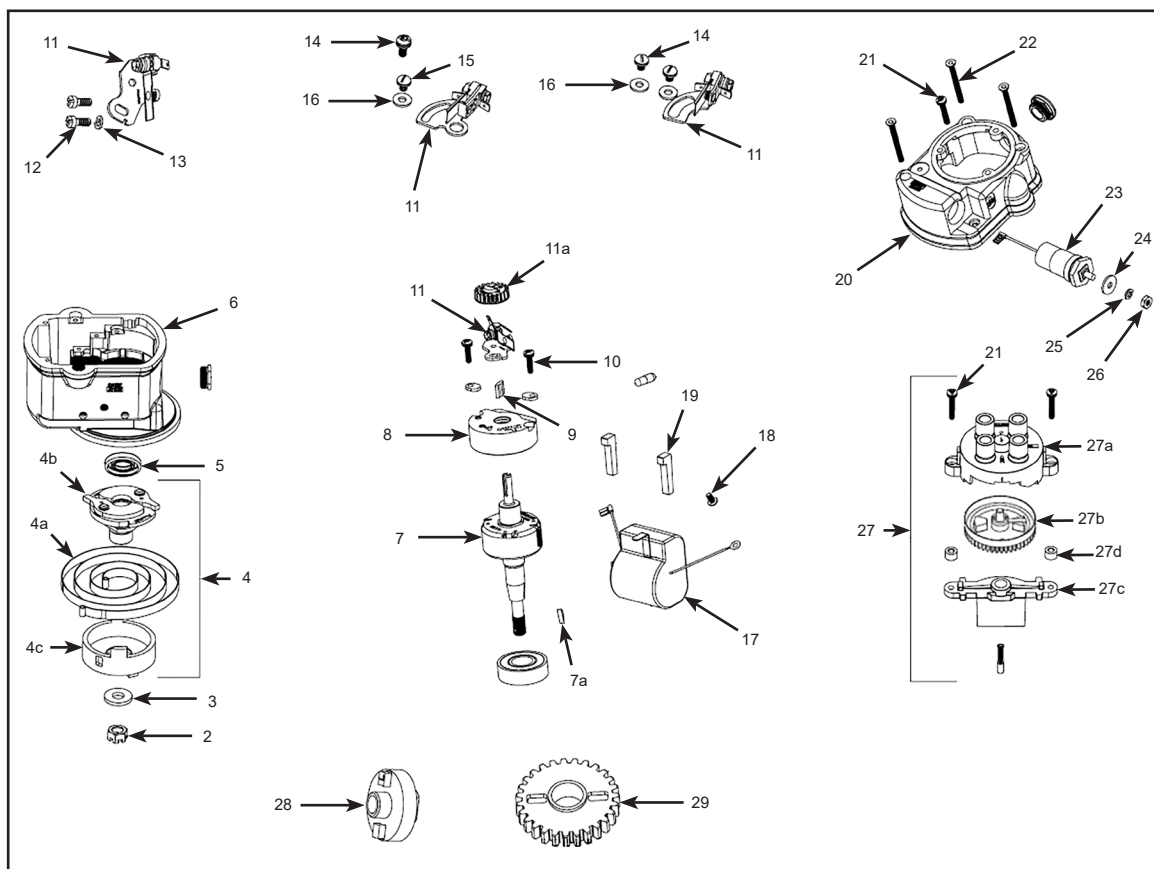


NOTE

Illustration for reference only -- may not resemble actual part. Use index and part number to select part required.



Key to ES4300 Magneto

1	Cotter Pin † Δ	11a	Rotor Gear	27	Dist. Block & Gear Assy.
2	Nut	12	Screw Δ	27a	Block Assy. - 4 CYL
3	Washer	13	Washer Δ	27b	Gear Assy. - 4 CYL
4	Impulse Coupling Assy.	14	Screw Δ	27c	Bridge Assy. - 4 CYL
4a	Impulse Spring Δ	15	Screw Δ	27d	Spacer
4b	Impulse Cam Assy.	16	Washer Δ	28	Drive Coupling
4c	Impulse Body	17	Coil, Ignition	29	Drive Gear
5	Oil Seal	18	Screw Δ	30	Clamp Kit †
6	Frame	19	Coil Wedge	31	N/A
6a	N/A	20	Housing	32	N/A
7	Rotor	21	Screw Δ		
7a	Woodruff Key	22	Screw Δ		
8	Bearing Cap Assy.	23	Capacitor		
9	Cam	24	Phenolic Washer		
10	Screw Δ	25	Washer Δ		
11	Contact Assembly	26	Nut		

†* Not shown
†† See § 6.4 for
disassembly.

Figure 6.24 – ES4300 Magneto, Typical

Index Number	ITEM P/N	Description	Magneto Part Number											
			ES4301	ES4302	ES4309	ES4310	ES4330	ES4333	ES4342	ES4345	ES4347	ES4348	ES4353	ES4354
1	AM-2556	COTTER PIN * (not shown)	1	1	1	1	1	1	1	1	1	1	1	1
2	ES3019	NUT	1	1	1	1	1		1	1	1	1	1	1
2	ES3492	NUT						1						
3	ES3172	WASHER	1	1			1	N/A	1	1	1	1	1	1
3	ES5372	WASHER			1	1		N/A						
4	ES3007	IMPULSE COUPLING ASSY. **	1	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4	ES3068	IMPULSE COUPLING ASSY. **		N/A	N/A	N/A	1		N/A	N/A	N/A	N/A	N/A	
4	ES3100	IMPULSE COUPLING ASSY. **		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4	ES3163	IMPULSE COUPLING ASSY. **		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4	ES3529	IMPULSE COUPLING ASSY. **		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	1
4	ES3689	IMPULSE COUPLING ASSY. **		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4	ES3994	IMPULSE COUPLING ASSY. **		N/A	N/A	N/A		1	N/A	N/A	N/A	N/A	N/A	
4a	ES917	IMPULSE SPRING **	1	N/A	N/A	N/A	1	1	N/A	N/A	N/A	N/A	N/A	1
4b	ES3007-1	IMPULSE CAM ASSY.**	1	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4b	ES3068-1	IMPULSE CAM ASSY.**		N/A	N/A	N/A	1		N/A	N/A	N/A	N/A	N/A	
4b	ES3100-1	IMPULSE CAM ASSY.**		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4b	ES3163-1	IMPULSE CAM ASSY.**		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4b	ES3529-1	IMPULSE CAM ASSY.**		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	1
4b	ES3689-1	IMPULSE CAM ASSY.**		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4b	ES3994-1	IMPULSE CAM ASSY.**		N/A	N/A	N/A		1	N/A	N/A	N/A	N/A	N/A	
4c	ES15013-29	IMPULSE BODY**	1	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4c	ES15014-70	IMPULSE BODY**		N/A	N/A	N/A	1		N/A	N/A	N/A	N/A	N/A	
4c	ES15013-26	IMPULSE BODY**		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	1
4c	ES15014-86	IMPULSE BODY**		N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	
4c	ES15010-87	IMPULSE BODY**		N/A	N/A	N/A		1	N/A	N/A	N/A	N/A	N/A	
5	-	OIL SEAL	1	1	1	1	1	1	1	1	1	1	1	1
6	-	FRAME	1											1
6	-	FRAME					1							
6	-	FRAME		1	1	1			1	1	1	1	1	
6	-	FRAME						1						
6a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30														
** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c														
*** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d														

Table 6.5 – Magneto Model ES4300 (Cont.)

Index Number	ITEM P/N	Description	Magneto Part Number											
			ES4301	ES4302	ES4309	ES4310	ES4330	ES4333	ES4342	ES4345	ES4347	ES4348	ES4353	ES4354
7	-	ROTOR	1		1	1								
7	-	ROTOR					1							
7	-	ROTOR												1
7	-	ROTOR		1								1		
7	-	ROTOR						1	1	1			1	
7	-	ROTOR						1						
7a	-	WOODRUFF KEY	1	1	1	1	1	1	1	1	1	1	1	1
8	-	BEARING CAP ASSY.	1	1	1		1	1						
8	-	BEARING CAP ASSY.				1			1	1	1	1	1	1
9	AM3611	CAM	1	1	1	1	1	1	1	1	1	1	1	1
10	ES3221	SCREW	2	2	2	2	2	2	2	2	2	2	2	2
11	A-13081	CONTACT ASSEMBLY	1	1	1		1	1						
11	ES3637	CONTACT ASSEMBLY				2			1	2	2	2	2	2
11	ES3740	CONTACT ASSEMBLY							1					
11a	ES3827	ROTOR GEAR	1	1	1	1	1	1	1	1	1	1	1	1
12	A-13081-2	SCREW	2	2	2	N/A	2	2	N/A	N/A	N/A	N/A	N/A	N/A
13	A-13081-1	WASHER	1	1	1	N/A	1	1	N/A	N/A	N/A	N/A	N/A	N/A
14	ES3637-4	SCREW	N/A	N/A	N/A	3	N/A	N/A	3	3	3	3	3	3
15	ES3637-5	SCREW	N/A	N/A	N/A	1	N/A	N/A	1	1	1	1	1	1
16	ES3637-6	WASHER	N/A	N/A	N/A	2	N/A	N/A	2	2	2	2	2	2
17	AK-3975	COIL, IGNITION	1	1	1	1	1	1	1	1	1	1	1	1
18	AM-3020	SCREW	1	1	1	1	1	1	1	1	1	1	1	1
19	ES3040	COIL WEDGE	2	2	2	2	2	2	2	2	2	2	2	2
20	-	HOUSING				1				1	1	1	1	1
20	-	HOUSING							1					
20	-	HOUSING	1	1	1		1	1						
21	AM-3021	SCREW	1	1	1	1	1	1	1	1	1	1	1	1
22	AM-3015	SCREW	3	3	3	3	3	3	3	3	3	3	3	3
23	AK-3984	CAPACITOR	1	1	1	1	1	1	1	1	1	1	1	1
24	AM-3183-3	PHENOLIC WASHER	1	1	1	1	1	1	1	1	1	1	1	1
25	AM-3183-2	WASHER, CAPACITOR	1	1	1	1	1	1	1	1	1	1	1	1
26	AM-3183-1	NUT, CAPACITOR	1	1	1	1	1	1	1	1	1	1	1	1
27	ES3822	DIST. BLOCK & GEAR ASSY. ***	1	1	1	1	1	1	1	1	1	1	1	1
27a	ES3819	BLOCK ASSY. - 4 CYL ***	1	1	1	1	1	1	1	1	1	1	1	1
* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30 ** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c *** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d														

Table 6.5 – (Cont.) Magneto Model ES4300

Index Number	ITEM P/N	Description	Magneto Part Number											
			ES4301	ES4302	ES4309	ES4310	ES4330	ES4333	ES4342	ES4345	ES4347	ES4348	ES4353	ES4354
27b	ES510406	GEAR ASSY. - 4 CYL ***	1	1	1	1	1	1	1	1	1	1	1	1
27c	ES510275-4	BRIDGE ASSY. - 4 CYL ***	1	1	1	1	1	1	1	1	1	1	1	1
27d	ES3826	SPACER ***	1	1	1	1	1	1	1	1	1	1	1	1
28	ES5265	DRIVE COUPLING	N/A	N/A	1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	ES3998	DRIVE GEAR	N/A	N/A	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
30	ES3520	CLAMP KIT * (not shown)						1						
30	ES3784	CLAMP KIT * (not shown)	1	1	1	1	1		1	1	1	1	1	1
31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30														
** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c														
*** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d														

Table 6.5 – (Cont.) Magneto Model ES4300

Index Number	ITEM P/N	Description	Magneto Part Number									
			ES4370	ES4371	ES4372	ES4373	ES4374	ES4381				
1	AM-2556	COTTER PIN * (not shown)	1	1	1	1	1	1				
2	ES3019	NUT	1	1	1	1	1	1				
2	ES3492	NUT										
3	ES3172	WASHER	1	1	1	1	1	1				
3	ES5372	WASHER										
4	ES3007	IMPULSE COUPLING ASSY. **	N/A					1				
4	ES3068	IMPULSE COUPLING ASSY. **	N/A									
4	ES3100	IMPULSE COUPLING ASSY. **	N/A		1							
4	ES3163	IMPULSE COUPLING ASSY. **	N/A	1								
4	ES3529	IMPULSE COUPLING ASSY. **	N/A			1						
4	ES3689	IMPULSE COUPLING ASSY. **	N/A				1					
4	ES3994	IMPULSE COUPLING ASSY. **	N/A									
4a	ES917	IMPULSE SPRING **	N/A	1	1	1	1	1				
4b	ES3007-1	IMPULSE CAM ASSY.**	N/A					1				
4b	ES3068-1	IMPULSE CAM ASSY.**	N/A									
4b	ES3100-1	IMPULSE CAM ASSY.**	N/A		1							
4b	ES3163-1	IMPULSE CAM ASSY.**	N/A	1								
4b	ES3529-1	IMPULSE CAM ASSY.**	N/A			1						
4b	ES3689-1	IMPULSE CAM ASSY.**	N/A				1					
4b	ES3994-1	IMPULSE CAM ASSY.**	N/A									
4c	ES15013-29	IMPULSE BODY**	N/A	1	1			1				
4c	ES15014-70	IMPULSE BODY**	N/A									
4c	ES15013-26	IMPULSE BODY**	N/A			1						
4c	ES15014-86	IMPULSE BODY**	N/A				1					
4c	ES15010-87	IMPULSE BODY**	N/A									
5	-	OIL SEAL	1	1	1	1	1	1				
6	-	FRAME		1	1	1		1				
6	-	FRAME					1					
6	-	FRAME	1									
6	-	FRAME										
6a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				

* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30
 ** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c
 *** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d

Table 6.5 – (Cont.) Magneto Model ES4300

Index Number	ITEM P/N	Description	Magneto Part Number									
			ES4370	ES4371	ES4372	ES4373	ES4374	ES4381				
7	-	ROTOR					1					
7	-	ROTOR										
7	-	ROTOR		1	1	1		1				
7	-	ROTOR										
7	-	ROTOR	1									
7	-	ROTOR										
7a	-	WOODRUFF KEY	1	1	1	1	1	1				
8	-	BEARING CAP ASSY.	1	1	1	1	1	1				
8	-	BEARING CAP ASSY.										
9	AM3611	CAM	1	1	1	1	1	1				
10	ES3221	SCREW	2	2	2	2	2	2				
11	A-13081	CONTACT ASSEMBLY	1	1	1	1	1	1				
11	ES3637	CONTACT ASSEMBLY										
11	ES3740	CONTACT ASSEMBLY										
11a	ES3827	ROTOR GEAR	1	1	1	1	1	1				
12	A-13081-2	SCREW	1	1	1	1	1	1				
13	A-13081-1	WASHER	1	1	1	1	1	1				
14	ES3637-4	SCREW	N/A	N/A	N/A	N/A	N/A	N/A				
15	ES3637-5	SCREW	N/A	N/A	N/A	N/A	N/A	N/A				
16	ES3637-6	WASHER	N/A	N/A	N/A	N/A	N/A	N/A				
17	AK-3975	COIL, IGNITION	1	1	1	1	1	1				
18	AM-3020	SCREW	1	1	1	1	1	1				
19	ES3040	COIL WEDGE	2	2	2	2	2	2				
20	-	HOUSING										
20	-	HOUSING										
20	-	HOUSING	1	1	1	1	1	1				
21	AM-3021	SCREW	1	1	1	1	1	1				
22	AM-3015	SCREW	3	3	3	3	3	3				
23	AK-3984	CAPACITOR	1	1	1	1	1	1				
24	AM-3183-3	PHENOLIC WASHER	1	1	1	1	1	1				
25	AM-3183-2	WASHER, CAPACITOR	2	2	2	2	2	2				
26	AM-3183-1	NUT, CAPACITOR	1	1	1	1	1	1				
27	ES3822	DIST. BLOCK & GEAR ASSY. ***	1	1	1	1	1	1				
27a	ES3819	BLOCK ASSY. - 4 CYL ***	1	1	1	1	1	1				

* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30
** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c
*** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d

Table 6.5 – (Cont.) Magneto Model ES4300

Index Number	ITEM P/N	Description	Magneto Part Number									
			ES4370	ES4371	ES4372	ES4373	ES4374	ES4381				
27b	ES510406	GEAR ASSY. - 4 CYL ***	1	1	1	1	1	1				
27c	ES510275-4	BRIDGE ASSY. - 4 CYL ***	1	1	1	1	1	1				
27d	ES3826	SPACER ***	1	1	1	1	1	1				
28	ES5265	DRIVE COUPLING	N/A	N/A	N/A	N/A	N/A	N/A				
29	ES3998	DRIVE GEAR	N/A	N/A	N/A	N/A	N/A	N/A				
30	ES3520	CLAMP KIT * (not shown)										
30	ES3784	CLAMP KIT * (not shown)	1	1	1	1	1	1				
31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30 ** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c *** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d												

Table 6.5 – (Cont.) Magneto Model ES4300