

May 8, 1934

WACO MODEL YMF

DRAWING LIST

The following constitutes a complete list
of drawings which pertain to the subject model
airplane of which Model UMF is the basic model.

R. W. Gibson

R. W. Gibson
Chief Draftsman

THE WACO AIRCRAFT COMPANY

Troy, Ohio

Group A - Airplane
Group B - PowerplantGroup A - Airplane

Part No.	Name	Last rev'n	Sup'd by
18452	Three View Drawing	A, B C	

Group B - Power Plant

3488	Bellcrank		
8278	Throttle Lever threaded stem	A	
8279	Throttle Lever Knob	A	
9751	Filler Neck Gasket	B	
11597	Brake lock ratchet		
11598	Support, Brake Lock	B	
12038	Throttle lever terminal		
12252	Throttle lever Universal Sleeve	C	
13368	Gas Tank 6 1/2" Tie Bolt	D	
13869	Gas Tank 6" Tie Bolt	E	
14011	Control stick torque tube bearing	A	
14039	Throttle lever Universal	C	
14070	Fuel tank top support plate	A	
14072	Center Section Gas Tank Top Support	C	
14127	Bevel Washer for Gas Tank Support Bolt	C	
14401	Gas Tank Tie Bolt 1/4"		
15519	Ring Cowl Assembly	A	
15749	Throttle cable clamp	H	
15974	Throttle Cable Support Clamp	B	
18160	Fuel Tank Installation	A	
18357	Throttle Installation		
18391	Rear Throttle Rod Ass'y		
18392	Throttle Lever Ass'y - Curved		
18428	(10524) 25. gal. Fuel Tank		
18433	Fuel Line Diagram		

DRAWING LIST

Jaco Model YMF

Group B - Power Plant (Cont)

Part No.	Name	Last rev'n	Sup'd by
13434	Shut Off Cock Control Ass'y		
13435	Shut Off Cock Arm		
13436	Shut Off Cock - End Fitting		
13442	Shut Off Cock Arm Bussing		
13443	Fuel Control Support		
13444	Fuel Control Lever Ass'y		
13451	Throttle Lever Ass'y Rear		
13459	Oil Tank Ass'y		
13521	Throttle Rod Terminal, Front		
13522	Throttle Rod Terminal, Rear		
13525	Throttle Installation		
13602	Filler Neck Tube		
18550	Battery Box Ass'y (Exide 6-TS-13)		
18551	Battery Box Installation		
18552	Battery Box Support Bracket		
18553	Battery Box Bracket		
19705	Battery Box Support Bracket		
20063	Crankcase Cowling Disc		
20064	Crankcase cowling disc support		

Waco Model YMF

DRAWING LIST

Group C - Fuselage

Part No.	Name	Last rev'n	Sup'd by
91	Fitting Lug	E	
98	Clip, Front, Lower Door	A	
8207	Door Tube End Disc		
8766	Rudder Stop on Fuselage	C	
8953	Top Door Jamb		
10527	Bushings - Bearings	D	
11533	Bearing - 3/8- Pulley	C	
11599	Stop Brake Lock	B	
12409	Bottom Brake Pulley Bearing	A	
14607	Landing Gear Center Brace Fitting	B	
16734	Tail Wheel Attaching Bushing		
18080	Cabane Wire Fitting		
18081	Cabane Wire Fitting Assembly		
18109	Torque Tube Front Bearing Support	D	
18110	Torque Tube Rear Bearing Support	E	
18136	Rear Landing Gear Lug	C	
18154	Rear Seat Shock Absorber Support Lug	A	
18342	Bottom Rudder Hinge Bushing		
18343	Bottom Stabilizer Brace Bushing		
18345	Tail Wheel Shock Strut Fitting		
18347	Fuselage Frame Assembly	B G, L P	
18348	Fuselage Frame Sections	A	
18364	Auxiliary Fin Attachment Bracket		
18367	Rear Throttle Lever Attachment Fitting		
18370	Fuselage Fitting Drawing	K	
18376	Front Throttle Lever Attachment Fitting		

Waco Model YMF

DRAWING LIST

Group C - Fuselage

Part No.	Name	Last rev'n	Sup'd by
18377	Rear Seat Support Assembly		
18378	Top Front Motor Mount Patch		
18379	Side Front Motor Mount Patch		
18380	Bottom Front Motor Mount Patch		
18402	Bottom Rear Motor Mount Patch		
18403	Fuselage Center Cross Brace Patch		
18404	CenterSection Strut Bushing Patch-Front		
18405	Front Landing Gear Lug Patch - L. H.		
18406	Front Landing Gear Lug Patch - R. H.		
18407	Rear Center Section Bushing Patch		
18408	Front Wing Fitting Patch		
18409	Rear Wing Fitting Patch		
18410	Landing Gear Center Brace Tube Patch		
18411	Front Bay Top Center Patch		
18415	Flying Wire Bushings		
18440	Motor Mount Ass'y		D, F, G
18726	Fuselage Reinforcement Installation		
19100	Motor Mount Ring Ass'y		C
19383	Stabilizer Attachment "U" Clip		
19384	Bracket for Stabilizer Attachment "U" Clip		
19395	Stabilizer Guide Post Ass'y		
19396	Stabilizer Stop Plate		
19399	Stabilizer Adjustment Attachment Plate on Fuselage		
19511	Lift Tube Retainer on Fuselage		
19512	Lift Tube Retainer Gusset		A
*18665	Longeron Reinforcing Tubes		

Group D - Wings

Part No.	Name	Last rev'n	Sup'd by
1041	Aileron Bellcrank Bushing	F	
3583-9	Aileron Bellcrank Bracket	J	
8459	Aileron Push Rod Threaded Bushing		
8460	Aileron Push Rod Adjustment Fork		
8470	Interplane Strut Adjustment Screw	G	
8473	Compression Strut End Cap	C	
8516	Interplane Strut Threaded Bushing	D	
10523	Sheet #1 Spar Bushing	J	
10523	Sheet #2 Spar Bushing	A	
10524	1/4" Wing Compression Tube Bolt	B	
10528	Bearing Bushing	M	
10546	Turnbuckles	A	
11619	Solid Tail Rib Ass'y	B	
11626	False Rib Ass'y	B	
11666	Nose Web		
11683	Aileron Horn	F	
11684	Aileron Strut Fitting Reinforcement	C	
11727	Nose Web for Footwalk		
11736	Upper Aileron Strut Fitting	D	
11737	Lower Aileron Strut Fitting	D	
12306	"A" 3/4 Light Rib Ass'y		
12308	"A" 1/2 Light Rib Ass'y		
12343	"A" Full Light Rib		
12347	Dural Leading Edge	C	
12355	Reinforcement Block-Leading Edge Tip-Top		
12356	Reinforcement Block-Leading Tip-Bottom		
12371	Aileron Rod Plywood Guide Block Ass'y	A	

Waco Model YMF

DRAWING LIST

Group D - Wings

Part No.	Name	Last rev'n	Sup'd by
12378	False Spar	A	
12380	False Spar Reinforcement Installation		
12381	False Spar Reinforcement Bracket	D	
12668	Wire Clip		
12677	Lower Wing Dural Spar Bushing	C	
12678	Washer for Dural Spar Bushing		
13506	Wing Compression Strut	M	
13713	"A" Full Light Rib		
13739	(12311) "C" Short Compression Rib Ass'y		
13746	"A" 3/4 Light Rib Ass'y		
13799	Light Tail Rib		
14072	Center Section Gas Tank Top Support		
14073	Center Section Gas Tank Bottom Support	F	
14257	Gas Tank Tie Bolt Clip		
15507	Internal Drag Wire Ass'y	K	
15526	Washer for Dural Spar Bushing		
15530	Upper Wing Double Wire Clip	A	
15532	1" Dural Spar Bushing	C	
15533	Washer For Dural Spar Bushing		
15780	Aileron Bellcrank	C	
15783	Solid Tail Rib Ass'y		
15788	False Spar Reinforcement Block at Bellcrank		
15791	Bellcrank and aileron hinge installation		
16555	Internal Drag Wires	B	
16600	Ball Seat for compression struts		
16625	Wing Compression Tube Seat		
18026	Center Section Strut Plate Blank		

Waco Model YMF

DRAWING LIST

Group D - Wings

Part No.	Name	Last rev'n	Sup'd by
18027	Center Section Strut "U" Plate	A	
18028	Center Section Strut Plate	A	
18037	Front Root Installation (Lower Wing)		
18038	Lower Wing Front Strut Point Installation	J	
18039	Rear Root Installation (Lower Wing)	A	
18090	Lower Rear Strut Point Installation	F	
18094	Upper Wing Front Spar	F	
18095	Upper Wing Rear Spar	C	
18096	Aileron Push Tube Ass'y		
18098	Lower Wing Rear Spar	E	
18099	Left Lower Wing Front Spar	E	
18100	Wire Clip		
18101	Lower Strut Point Wire Clip	B	
18102	Center Section Front Spar	I	
18103	Center Section Rear Spar	I	
18104	Center Section Frame Ass'y	C	
18105	Upper Front Root Installation	I, R	
18106	Upper Rear Root Installation	G, N	
18107	Upper Front Strut Installation	J	
18108	Upper Rear Root Installation	H	
18118	Lower Front Root Fitting		
18119	Lower Wing Foot Fitting Plate		
18120	Lower Rear Root Fitting		
18121+22	Aileron Assembly	A	
18123	Blank Double Wire Clip		
18124	Spar Plate Reinforcement	A	
18125	Center Section End Rib Ass'y		

Group D - Wings

Part No.	Name	Last rev'n	Sup'd by
18126	Center Section Long Tail Rib Ass'y		
18127	Center Section Short Tail Rib		
18128	Center Section Fuel Tank Support		
18129	Center Section Trailing Edge		
18130	Spar Plate (Upper Wing Strut Plate)	A	
18133	Wire Clip Blank	A	
18134	Wire Clip (external wire)	D	
18140	Upper Wing Root Plate	C	
18142	Center Section Dural Leading Edge	A	
18143	Center Section Rear Fitting	B, E	
18144	Center Section Front Fitting	B, E	
18146	Lower Front Strut Fitting Ass'y	E	
18148	Lower Front Strut Plate	A	
18149	Lower Rear Strut Point Plate	A	
18155	Lower Wing Root Wire Clip		
18157	Wire Clip		
18158	Double Wire Clip		
18163	"B" Short Compression Rib (upper wing)		
18164	"B" Short Compression Rib (lower wing)		
18167	Front Strut Point Spar Plate (upper wing)	D	
18168	Rear Strut Point Spar Plate (upper wing)	E	
18169	Wire Clip		
18170	Wire Clip		
18178	Right Lower Wing Frame Ass'y	A	
18181	Upper Wing Solid End Rib		
18183	Right Lower Wing 3rd. Root Rib		
18186	#1 Solid Tail Rib Ass'y (upper wing)		

Waco Model YMF

DRAWING LIST

Group D - Wings

Part No.	Name	Last rev'n	Sup'd by
18187	#2 Solid Tail Rib (upper wing)		
18188	Left Lower Wing Frame Ass'y	G, J	
18189	Upper Wing Frame Ass'y	I	
18192	#2 "A" Rib Ass'y Lower wing		
18193	"A" 3/4 Light Rib At Strut Point (lower wing)		
18194	Lower Wing Trailing Edge		
18195	3/4 "A" Rib At Strut Point (Upper Wing)		
18197	Upper Wing Trailing Edge		
18200	Center End Rib		
18201	#1 Center Rib (Left lower wing)		
18202	#2 Center Rib (left lower wing)		
18203	#3 Center Rib (left lower wing)		
18204	#4 Center Rib (left lower wing)		
18205	Nose End Rib (left lower wing)		
18206	Nose Rib (Left lower wing)		
18207	End Rib Tail (left lower wing)		
18208	#1 Tail Rib (left lower wing)		
18209	#2 Tail Rib (left lower wing)		
18210	#3 Tail Rib (left lower wing)		
18211	#4 Tail Rib (left lower wing)		
18215	Wing Spars	A	
18223	Lower Wing False Spar		
18224	Lower Wing 4th Root Rib, Right		
18225	Double Wire Clip, Lower Wing		
18226	5/8 Diameter Pin Washer		
18227	WireClip, Lower Wing Root		
18254	C. S. Center Tail Rib		
18255	C. S. Center Nose Rib		

Group D - Wings

Part No.	Name	Last rev'n	Sup'd by
18257	Ball Seat for Compression Strut		
18258	Washer for Ball Seat		
18263	Wire Clip		
18321	#2 Tail Rib		
18349	Front Interplane Strut		
18350	Rear Interplane Strut		
18351	Diagonal Interplane Strut	A	
18353	Spar Plate Reinforcement (at strut point)		
18354	Spar Plate Weld Ass'y		
18355	Diagonal Interplane Strut Plate		
18356	Interplane Strut Plate, Front and Rear		
18358	Bushing for Interplane Strut		
18359	Bushing for Interplane Strut		
18362	Lower Rear Spar Plate Ass'y		
18381	Wire Clip Reinforcing Plate		
18383	Tapered Bushing, Wing Attachment		
18385	Front Gusset for Rear Strut Point Spar Plate		
18386	Rear Gusset for Rear Strut Point Spar Plate		
18387	Center Section Strut Ass'y		
18388	Front Gusset for Front Strut Point Spar Plate		
18389	Rear Gusset for Front Strut Point Spar Plate		
18390	Wire Clips		
18393	Spar Plate (inner) strut point, Upper Wing		
18394	Spar Plate Gusset, Lower Front Strut Point		
18395	Spar Plate Gusset, Lower Front Strut Point		
18396	Spar Plate Ass'y, Lower Front Strut Point		
18397	Rear Strut Point Plate Ass'y		

Waco Model YMF

DRAWING LIST

Group D - Wings

Part No.	Name	Last rev'n	Sup'd by
18398	Dural Spar Bushing, Upper Wing		
18399	Front Strut Point Spar Plate Ass'y		
18400	Special "A" Full Light Rib, Upper Wing		
18416	Rear Busset for Rear Strut Point Spar Plate		
18418	Aileron Strut Adjusting Screw		
18419	Aileron Strut Ass'y		
18588 +9	Wing To Center Section Root Bushings		
18595	Center Section Reinforcing Fitting		
19017	Wire Clip		
19256	Typical Compression Strut Installation		

Waco Model YMF

DRAWING LIST

Group E - Empennage

Part No.	Name	Last rev'n	Sup'd by
8178	Elevator Control Horn Ass'y	O	
8179	Elevator Control Horn	F	
8281	Stabilizer Adj. Universal Bearing	O	
8282	Stabilizer Adj. Universal Bearing Seat	D	
8510	Elevator Frame Assembly	M	
9153	Stabilizer Adj. Top Universal Bearing Seat	B	
9159	Stabilizer Adj. Universal Threaded Bearing Ass'y	C	
9160	Stabilizer Adj. Universal Bearing Pin	B	
9258	Stabilizer Adj. Universal Shim	B	
10540-5	Stabilizer Adjustment Pulley	D	
10548	Tail Brace Wire Clip		
11531	Tail Surface Hinge Bearing	K	
11532	Tail Surface Hinge Bearing "U" Bolt	C	
11535	Installation Dwg. of Hinge on Tail Surface	G	
15173	Stabilizer Adjustment Screw	A	
16769	Elevator Frame Anchor Bolt		
16789	Bearing Anchor Bolt Forging		
17163	Fin Attachment Bolt and Support Tube Shackle Ass'y		
18015	Tab Support Bracket	A	
18021	Rudder Control Horn		
18022	Rudder-Tab-Ass'y		18725
18341	Bearing Mounting Bracket (Rudder)		
18372	Fin-Frame-Ass'y		19296
18373	Rudder-Frame-Assembly		19297
18427	-Empennage-Ass'y		19305
18466	Fin Bracket Support Tube Ass'y		
18558	Rear Elevator Horn		
18725	Rudder Tab Assembly		

DRAWING LIST

Waco Model YMF

Group E - Empennage

Part No.	Name	Last rev'n	Sup'd by
18765	Empennage Assembly		
19296-	Fin-Frame-Assembly	H	19478
19297	Rudder-Frame-Assembly-	I	19479
19305	Empennage-Assembly-	Jv-J	18765
19379	Fin Bracket Support Tube	A	
19380	Fin Attachment Bolt and Support Tube Shackle Assembly		
19415	Stabilizer Frame Assembly		
19478	Fin Frame Assembly	A	
19479	Rudder Frame Assembly	B	

List of drawings for Special 12.5 gallon fuel
tank in Right Upper Wing on Waco Model YMF

Part No.	Name	Last rev'n	Sup'd by
13870	Washer Tank Support Bracket Bolt		
14127	Bevel Washer		
15042	Gas Tank Tie Bolt		
15154	Washer Tank Support Bracket Bolt		
15155	Rib Attachment Bracket at Gas Tank Support		
15533	Washer		
13220	Auxiliary Fuel Tank	A	
13221	Wing Frame Ass'y		
13222	Fuel Tank Installation		
13463	Fuel Line Diagram		

Part No.	Name	Group F - Landing Equipment	
		Last rev'n	Sup'd by
8101	Tail Wheel Bronze Bushing	A	
11533-3	Piston Lower Bushing	C	
11535	Landing Gear Shock Strut Piston Cup Washer	D	
11536	Landing Gear Shock Strut Piston Cup Washer Retainer	C	
12021	Shock Strut Spring	B	
14124	Landing Gear Shock Strut Cylinder Reinforcement At Attachment Bushing		
14130	Landing Gear Shock Strut Piston Upper Bushing	B	
14131	Landing Gear Shock Strut Piston Reinforcement		
14132	Landing Gear Shock Strut Piston Lock Nut		
14133	Landing Gear Shock Strut Piston Lock Wire		
14135	Landing Gear Shock Strut Piston Retainer Bearing	D	
14136	Landing Gear Shock Strut Packing Retainer	A	
15578	Forging for Shock Strut Bracing		
15586-	Landing-Gear-Shock-Strut-Cylinder-Assembly		19012
15587	Splined Flange		
15588	Landing Gear Shock Strut Outer Case Flange		
15590	Landing Gear Side Strut Fitting		
15597	Landing-Gear-Shock-Strut-Cylinder		15924
15598	Landing-Gear-Shock-Strut-Cylinder-Sleeve-Assembly		15923
15599	Landing Gear Shock Strut Piston Stop		
15652	Landing Gear Streamline Bulkhead Ass'y		
15923	Landing Gear Shock Strut Cylinder Sleeve Ass'y	A	
15924	Landing Gear Shock Strut Cylinder		
15933	Landing Gear Shock Strut Cylinder and Rear Strut Assembly		
16526	Tail Wheel shock strut ass'y		
16528	Tail Wheel Shock Strut Lower Tube Ass'y		

Waco Model YMF

DRAWING LIST

Group F - Landing Equipment

Part No.	Name	Last rev'n	Sup'd by
16529	Tail Wheel Shock Strut Upper Tube Ass'y		
16531	Tail Wheel Support Ass'y		
16532	Tail Wheel Support Bushing		
16533	Tail Wheel Support Bushing (at pivot)		
16733	Tail Wheel Fork Retainer Ass'y		
16735	Tail Wheel Shock Strut Rubber Bumper		
16736	Tail Wheel Shock Strut Bumper Block		
16837	Upper Bushing Landing Gear Shock Strut Piston		
16838	Lower Bushing Piston		
18010	Tail Wheel Installation	B	
18084	Landing-Gear-Rear-Strut-Assembly-		19028
18062	Tail Wheel Fork Ass'y		
18145	Landing-Gear-Installation-dwg.	B	18704
18365	Landing Gear Center Brace		
18366	Landing Gear Center Brace Ass'y		
18420	Landing-Gear-Shock-Strut-Ass'y		19009
18704	Landing Gear Installation		
19009	Landing Gear Shock Strut Assembly	B	
19012	Landing Gear Shock Strut Cylinder Assembly		
19028	Landing Gear Rear Strut Assembly		
19083	Landing Gear Splined Strut Assembly		
19085	Landing Gear Axle and Splined Strut Assembly	A	
19234	Landing Gear Shock Strut Piston Assembly		
19686	Landing Gear Center Brace End Fitting	B	
19687	Landing Gear Center Brace Bushing		
978	Tail Skid Shoe)		
19406	Tail Skid Installation)	A	Special as used
19407	Tail Skid Assembly)	A	on Model CJC

Group H - Furnishings

Part No.	Name	Last rev'n	Sup'd by
12542	Front Seat Frame ass'y	E	
13264	Safety Belt Female Release	C	
13265	Safety Belt Release Lever	C	
14326	Safety Belt Ass'y Front		
13042	Front Seat Installation	D	
18043	Front Seat Back Ass'y		
13044	Front Cockpit Seat Back	A	
18141	Front Seat Safety Belt Strap		
18153	Rear Seat Safety Belt Strap		
18450	Luggage Compartment Installation		
18454	Rear Seat Installation		
18455	Front Seat Installation (Special)		
18478	Safety Belt Cable		
18485	Front Cockpit Cowl and Baggage Compt.		
18884	Brace Tube at Bottom of Rear Seat Support Tubes	A	

DRAWING LIST

Page 16
7-5-34

Waco Model MF		Group I - Flying Controls	
Part No.	Name	Last rev'n	Sup'd by
138	Plate Control		
839	Rear Control Shaft Bearing Cap	A	
1547	Brake Pulley	B	
8178	Elevator Control Rear Horn Assembly	D	
3179	Elevator Control Rear Horn		
8235	Control Stick Rubber Grip		
8241	Rear Control Stick Socket	D	
8369	Rear Rudder Pedal Cable Clip Assembly		
8736	Rudder Pedal Assembly	E	
9120	Rudder Pedal Spring	B	
9260	Rear Rudder Pedal Bushing	A	
9359	Front Rudder Pedal Bushing	A	
9427	Torque Tube Flange		
10546	Turnbuckles Std. Sizes		
11544	Stabilizer Adjustment and Shackle	C	
11638	Aileron Strut Adj. Screw Bushing		
12633	Single Stabilizer Adjustment Pulley		
13063	Stabilizer Crank Escutcheon Plate	B	
15779	Aileron Drag Link Assembly		
18065	Elevator Torque Tube Short Bushing		
18066	Elevator Torque Tube Long Bushing		
18067	Elevator Torque Tube Short Bearing		
18068	Elevator Torque Tube Long Bearing		
18070	Front-Elevator-Tube-Bushing		Obsolete
18072	Rear Elevator Tube Rear Bushing		
18073	Rear Elevator Tube Front Bushing	A	
18074	Elevator Horn Assembly	A	
18075	Elevator Horn Bushing	A	

Group I - Flying Controls

Part No.	Name	Last rev'n	Sup'd by
18326	Control-Stick-Socket		18543
18360	Front Elevator Tube Fitting		
18361	Rear Elevator Tube Fitting		
18363	Front Elevator Tube Assembly	C	
18368	Elevator Torque Tube Assembly	A	
18371	Rear Elevator Tube Assembly	C	
18414	Aileron Torque Tube Plate		
18421	Flying Control Installation	E, J	
18422	Elevator-Cable---Upper		18423
18423	Elevator Cable - Lower		
18424	Rudder Cable - Front	A	
18425	Rudder Cable - Rear		
18442	Bushing		
18453	Rear Control Stick		
18457	Long Stabilizer Adjustment Spindel		
18458	Short Stabilizer Adjustment Spindel		
18462	Front Control Stick Assembly	A	
18464--	Rear-Control-Stick-Socket		18528
18475	Connecting Rod Fitting Assembly		
18528	Rear Control Stick Socket	B	
18533	Control Stick Socket Casting		
18536	Control Stick Socket Bushing		
18543	Front Control Stick Socket	A	
18544	Front Control Stick Ass'y (Special)		
18546	Elevator-Connecting-Rod-Fitting-Casting		18360
18546	Elevator-Connecting-Rod-Fitting--Control		18361
18547	Elevator-Control-Fitting-Bushing		
18548	Front-Elevator-Connecting-Rod		18363

Waco Model YMF

DRAWING LIST

Group I - Flying Control

Part No.	Name	Last rev'n	Sup'd by
18549	Rear-Elevator-Connecting-Rod-Ass'y		18371
18557	Front-Control-Stick-Spacer		
18559	Front-Elevator-Connecting-Rod-Bushing-		
18586-	Elevator-Horn-Ass'y-	A	18074
18590	Rear-Elevator-Connecting-Rod		