12-1-75

YAMAHA Hi-Fi STEREO SERVICE MANUAL ORTHODYNAMIC SYSTEM HEADPHONES MODEL HP-1,2

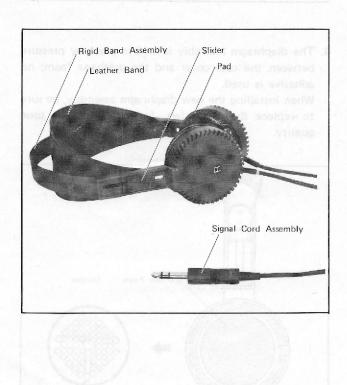


SPECIFICATIONS

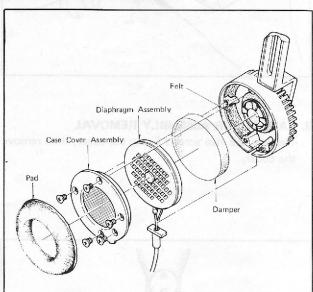
	with the state of head 1	esterne haus	HP-1	HP-2	
	Туре		Orthodynamic		
		n bes fiel de	150Ω		
	Diaphragm	Diameter	55mm	46mm	
		Film	12μ Polyester		
	Magnet		Sintered Ferrite		
	Frequency Response		20 ∼ 20,000Hz		
	Sensitivity		96dB/mW 104dB/V	93dB/mW 101dB/V	
	Rated Input		3W		
	Maximum Input		10 W		
	Harmonic Distortion		Less than 0.3% at 90dB SPL		
	Weight (with cord)		290g	230g	

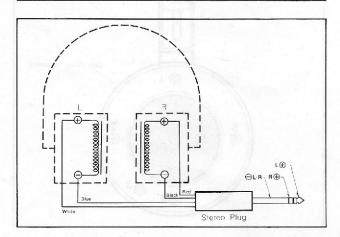
PARTS

EXTERIOR



DIAPHRAGM SYSTEM

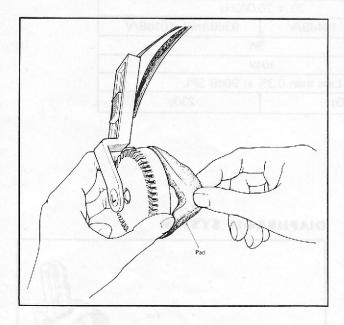


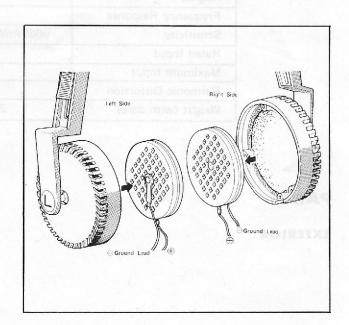


DIAPHRAGM ASSEMBLY REPLACEMENT

1. REMOVE PAD

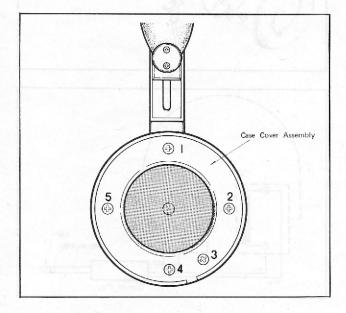
The pad is fixed with double-sided tape to the main body. Peel it off slowly, being careful not to dirty the tape surface. 3. The diaphragm assembly should be mounted so that the ground terminal lead is on the inside (between the diaphragm and the headphone body). This is true for both left and right sides. Be sure that the diaphragm assembly is correctly placed, for mounting one in the opposite way will result in an out of phase signal and lost stereo effect.





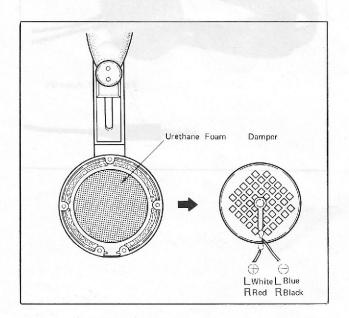
2. CASE COVER ASSEMBLY REMOVAL

Remove the five screws fixing the cover, then remove the cover.



4. The diaphragm assembly is held in place by pressure between the case cover and the urethane foam; no adhesive is used.

When installing the new diaphragm assembly, be sure to replace the black felt, for it affects the tone quality.

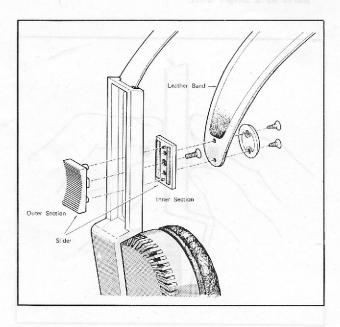


SLIDER REPLACEMENT- I

The slider is used to adjust the headphone height. Slider and leather band exchange should be carried out in the following manner.

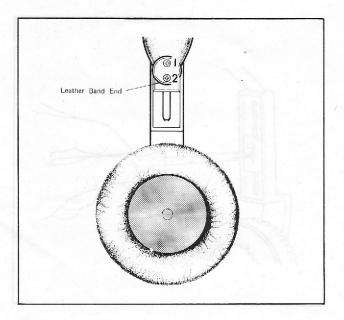
Note: The serial number location:

HP-1 5201 ~ 5303 HP-2 5101 ~ 5311



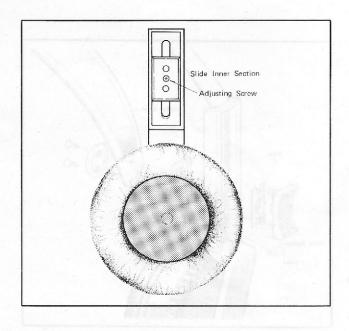
1. LEATHER BAND END REMOVAL

Remove the two fixing screws and take off the band

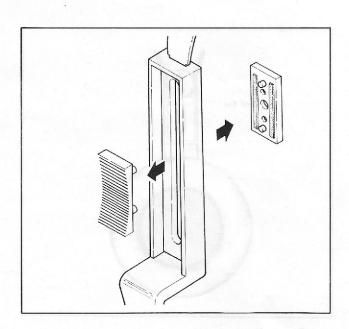


2. SLIDER TORQUE ADJUSTING SCREW REMOVAL

Remove the adjusting screw. Then the inner and outer slider sections can be taken off. This adjusting screw not only holds them together, but also regulates the friction as they slide along the guide rail. For this reason, be careful not to tighten too much when reinstalling or adjusting.

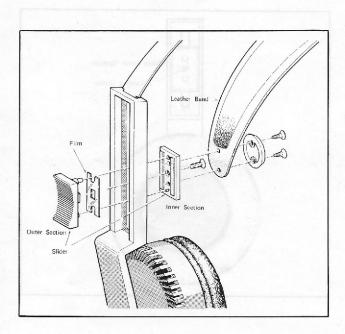


Replace the inner and outer slider sections, then reassemble in the reverse of the above procedures.



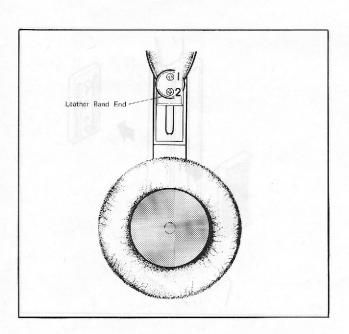
SLIDER REPLACEMENT- II

The slider functions to adjust the position of the leather band. To replace either the slider or the leather band, follow these steps. (The inside and the outside of the slider can be ascertained by the serial number location: HP-1 ... after 5304, HP-2 ... after 5312.)



1. LEATHER BAND END REMOVAL

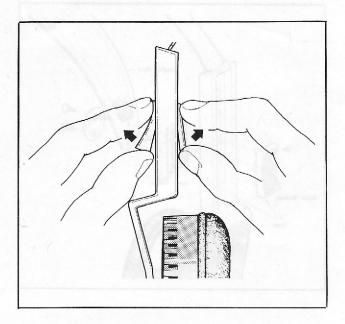
Remove the two screws (1), (2) from the leather band end, then remove the band.



2. SLIDER REMOVAL

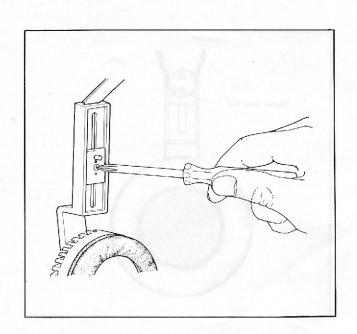
Remove the slider torque adjustment screw. The inside and outside parts are welded together, so remove by holding the lower part of the slider and pulling off both sides at once.

During this operation the slider will be damaged beyond use at its joint, so be sure to repalce both parts as a single unit.



3. SLIDER ATTACHMENT

Attach- the new slider and tighten the torque screw. Be sure to tighten both left and right sides to the same torque.

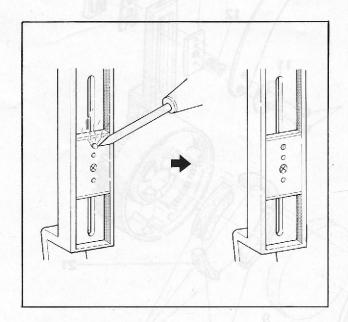


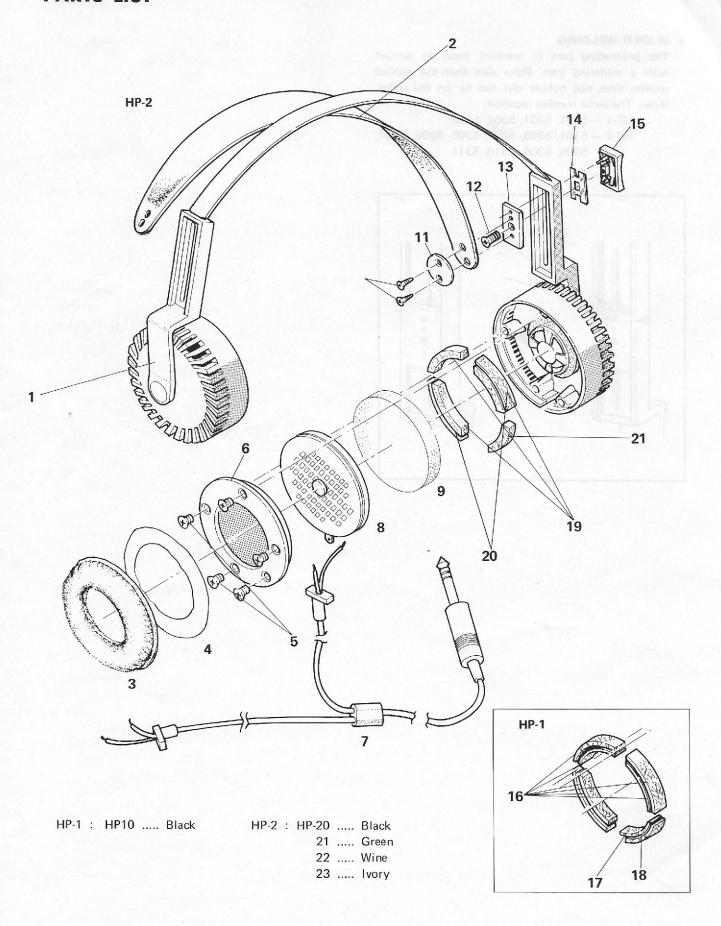
4. SLIDER WELDING

The protruding part (O marked) must be welded with a soldering iron. Make sure that the welded section does not bubble out too far on the slider. Note: The serial number location:

HP-1 ··· 5201, 5301, 5302, 5303

HP-2 ··· 5101, 5203, 5204, 5205, 5206, 5307, 5308, 5309, 5310, 5311





Ref. No.	Part No.	Descri	iption		Remarks	Models (
1	322500NB992500	Rigid Band Assembly		外装アッセンブリ		HP-10
	322500NB992510	-do , Black		"		HP-20
	322500NB992520	-do , Green		"		HP-21
	322500NB992530	-do , Wine		"		HP-22
	322500NB992540	-do , Ivory				HP-23
2	420000CB072500	Leather Band		レザーバンド		FP10,HP20,HP21 FP22,HP23
3	420000CB072450	Pad		パッド		HP10
	420000CB072330	-do				HP20,HP21 HP22,HP23
4	420000CB072470	Double Stick Tape		両面接着テープ		HP10
	420000CB072360	-do		"		HP20, HP21 HP22, HP23
5	420000EO226080	Flat Head Tapping Screw 2.6	6 x 8	皿タッピングネジ (蓋止め用)	ZMC2-BL	
				(盆止め用)		
6	322500NB073560	Case Cover		ケース蓋アッセンブリ		HP10
	322500NB073570	-do		"		HP20, HP21 HP22,HP23
						111 22,14 23
7	420000MZ065900	Signal Cerd Assembly		コードアッセンブリ		HP20, HP21 HP22, HP22
	33000		1			
8	322500NB072130	Diaphragm		振動系アッセンブリ	except U.S. & Canadian	HP10
	322500NB074170	-do	* 1	"	models U.S. & Canadian models	HP10
	322500NB074170		-	"	O.S. & Canadian moders	HP70,HP21 HP72,HP23
•		-do		制動材		
9	422500CB072440	Damper		(モルトプレーン)		HP10
	422500CB072310	-do				HP20,HP21 HP22,HP23
10	420000514222000	Out Head Transies Communication	00	丸皿 タッピンネジ (レザーバンド止ネジ)	7M00 DI	
10	420000EM223080	Oval Head Tapping Screw 2.	3 x 8	(レザーバンド止ネジ)	ZMC2-BL	
11	322500CB072230	Leather Band End		レザーバンド止め		
	322300CB072230	Leather Band End		D 9 N D I I I W		
12	420000EB223060	Flat Head Screw 2.	3 x 6	皿小ネジ	ZMC2-BL	
	420000EB223000	Trat fread Screw 2.	.5 x 0	皿 小 ネ ジ (スライド止めネジ)	ZIWOZ-DE	HP10,HP20,HF21 HP22,HP23
13	322500NB073480	Slider, Black (Inside)		スライダー		1
13	322500NB073490	-do Green -do		(内)		HP10,HP20 HP21
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		HP22
	322500NB073500 322500NB073510	-do Wine -do	•	"		
	322300108073310	-do Ivory -do		,,		HP23
14	403500110072400	0		スプリングカバー		
14	422500NB073420	Spring Cover		23929311-		
15	322500NB074030	Slider, Black (Outside)		スライダー		HP10,HP20
15				(外)		
	322500NB074040			,,		HP21
	322500NB074050			"		HP22
	322500NB074060	-do Ivory -do		"	· · · · · · · · · · · · · · · · · · ·	HP23
16	422500CC156620	Damper Felt (41 x 6.8 t=	=1.5)			HP10
17	422500CC156700		=1.5)			-do
18	422500CC156770	-do				-do
19	422500CC156610		=4.0)			
20	422500CC156780		=2.0)			-do
21	422500CC156690		=4.0)			