

GOATS®

XR 1800/1850 Wheel Balancer



Parts Identification

READ these instructions before placing unit in service KEEP these and other materials delivered with the unit in a binder near the machine for ease of reference by supervisors and operators.

HENNESSY INDUSTRIES, INC.

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HENNESSY INDUSTRIES INC. Manufacturer of AMMCO®, COATS® and BADA® Automotive Service Equipment and Tools.

Manual Part No.: 8113553 18

Revision: 07/09

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The following pages include parts breakdowns with exploded view illustrations to help with ordering replacement or spare kits. Assemblies are noted where it is recommended that individual parts not be ordered separately. These parts are available only as assemblies because some parts are staked, pinned, or press fitted, then drilled, machined, or bored. Close tolerances must be maintained in assembly. Every effort is made to supply accurate exploded views, however, due to interim changes in manufacturing operations, some units may not be exactly as illustrated.

Item	Description
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P/N 8113881 Printer Kit

164	Printer, with Adapter, 115V
170	Loop Fabric †Velcro®
172	Hook Type †Velcro®
*	4" Nylon Cable Tie
*	Kit Instructions

P/N 8113883 Printer Bracket Kit

48	Printer Bracket
96	HWH Self Tapping Screw
157	5/8" Rubber Grommet
171	Loop Fabric †Velcro®
*	Printer Instructions Decal
*	5.5" Trim Edge "U" Channel
*	4" Nylon Cable Tie
*	Kit Instructions

P/N 8113887 1800 to 1850 Upgrade Kit, 115V

6	1/4-20 Nyloc Nut
16	115V Power Cord Assembly
165	Printer Cable
166	115V Female Duplex Receptacle
167	6 - 32 Patch Lock Screw
180	Duplex Receptacle Bracket
*	Caution 115V Duplex Receptacle Decal
*	Printer Kit
*	Printer Bracket Kit
*	Lateral Runout Kit
*	PCB, 16-bit ADC
*	1800/1850 Parts Manual
*	1800/1850 Operating Manual
*	Upgrade Instructions

Item	Qty.	Description
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P/N 8113893 Lateral Runout Kit

3		1/4-20 x 1-1/4" HHCS
6		1/4-20 Nyloc Nut
36		Lateral Runout Guard
158		Lateral Runout Assembly
181		11/16" Rubber Grommet
183		Lateral Runout Decal
*		Caution Laser Decal
*		Laser Conformance Decal
*		Laser Aperture Decal
*		Kit Instructions

P/N 80180001 Brake Lever Assembly

15	Brake Lever Assembly
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P/N 80180104 Hood Switch Kit

64	Hood Switch Assembly
65	Hood Switch Washer

P/N 8114431 Radial Runout Sensor Kit

192	Radial Runout Sensor Kit
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P/N 8114452 Motor & Mtg Hardware Kit, 115V

P/N 80180120 Motor & Mtg Hardware Kit, 230V

59	6M Hex Nut
95	Screw Plate
104	Spindle Drive Motor w/Pulley, 115V
	Spindle Drive Motor w/Pulley, 230V
123	M6 Lock Washer
125	M6 Flat Washer

P/N 80180108 Stub Shaft Kit

*	Serrated M10 Washer
93	SHC M10 x 160 Screw, Gr. 8.8
116	Threaded Shaft 40MM

P/N 80180109 Piezo Kit

17	Piezo Dynamic Assembly
18	Piezo Static Assembly
60	Jam M10-1.5 Hex Nut
83	Static Piezo Rod
84	Dynamic Piezo Rod
109	Spring Piezo Washer
122	Large M10 Flat Washer
150	Small 10M Washer

Parts Identification

Item	Qty.	Description	Item	Part	Description
P/N 80180110 Brake Pad Kit			1	8301122	1/2-13 Hex Nylock Nut
*		Brake Pad	2	8113418	1/2-13 x 1.00 SHCS
*		Brake Pad Screw	3	8120321	1/4-20 x 1-1/4" HHCS
P/N 80180111 Brake Kit Complete			4	8000745	1/4 Flat Washer
57		Hair Pin Clip	5	8109802	1/4-20 NC X 2.00 HHCS
58		Hair Pin Cotter	6	8181369	1/4-20 UNC Nylok Nut
73		M8-1.25 Hex Nylock Nut	7	902189	1/4-20 x .500 HHCS
105		Brake Spring	8	8181984	1/4-20 x 1.00 HHCS
117		Brake Tie Rod	9	8301032	3/8" Flat Washer
120		Flat .360 ID x .932 OD x .080 Washer	10	8143044	3/8-16 Nut Tinnerman
126		M8 Flat Washer	11	8120325	5/16 x 1.00 Serrated
P/N 80180113 Distance Rod Kit			12	8110957	Accessory Peg Cover
30		Adhesive Back Cable Tie	13	8113360	Angle Sonar Target Rod
55		Gauge Rod	14	8113272	Assembly Panel, PCB
100		Slide Bracket	15	80180001	Brake Lever Complete
190		M6 x 6 Set Screw	17	80180051	Piezo Dynamic Assembly
P/N 80180114 Pulley Kit			18	80180050	Piezo Static Assembly
79		Distance Pot. Pulley	19	8114465	Power Panel Assembly, 115V
82		Return Pulley		80180117	Power Panel Assembly, 230V
98		Self Locking Ring	20	80180059	Balancer Spindle
99		Collar Assembly	21	8301019	50 Lbs. Ballast
107		Distance Gauge Spring	22	8113863	Front Cover Assembly
111		Distance Gauge String - 22"	23	8307014	Flanged Nylon Bearing
112		Distance Gauge, String Bracket	24	8113532	Belt Tightening Plate Assem.
189		Distance Gauge, String - 13"	25	8111030	Black Hose
			26	8113537	Bottom Cover, Hood Bracket
			27	8107635	5/16" Std. Flat Washer
			28	8113297	Width Sonar Bracket
			29	8308535	Stop Bushing
			30	8112351	Adhesive Backed Cable Tie
			31	8113267	Channel Monitor Tilt
			32	8113232	Chassis - Weld Comp.
			33	8182044	Neoprene Cushion Clamp
			34	8113536	Bottom Cover, Tower
			35	8113251	Assess Holes Cover
			36	8113869	Lateral R.O. Guard
			*37	8113927	Caution/Patent Decal
			38	8113557	Switch Panel Assembly, 115V
				8113747	Switch Panel Assembly, 230V
			*39	8113541	Faceplate Arrow Decal
			40	8113667	Pictorial Wiring Diagram
			41	8113419	Main XR1800 Decal
			43	8113401	Sonar Target Decal
			46	8110241	Weight Position Decal
			47	80180068	Drive Belt
			48	8113853	Printer Bracket

Parts Identification

Item	Part	Description	Item	Part	Description
50	85606464	Encoder Assembly	111	8114363	Distance Gauge String - 23"
53	8113925	Metal Arm Assembly	112	80180019	Distance Gauge String Bracket
54	8114366	Gauge Bracket Comp.	114	8113844	Main XR1850 Decal
55	8114361	Gauge Rod	115	8113358	Target W/C, Sonar Cal.
56	8113534	Glide Plate	118	80180079	Touch Panel Assembly
57	8120469	Hair Pin Clip	119	8113736	Tree Assembly w/Sleeves & Bumpers
58	80180010	Hair Pin Cotter	121	8109944	Hood Bar Washer
61	8107407	Hitch Pin Retainer	124	80180021	Lock Washer, String Bracket
62	8112724	Hood Bar W/C	127	904379	Pl. Stl. Washer
63	8113296	Hood Pivot Sleeve	129	8301121	Plain Washer
66	8111021	Caliper Storage Hook	130	903214	Flat Washer, Std, 1/2" S.A.E.
67	8110817	Control Pod Knob	131	8113531	Weight Tray Assembly
69	8309008	Hood Molding Stop	132	8113620	Wheel Hood Guard
70	8113815	Balance First Tire Decal	133	8113256	Wire Tray
74	8301084	#8-32 Kep Nut	134	8114460	Capacitor 60MF/400V, US
73		M8-1.25 Hex Nylock Nut		80180119	Capacitor 14MF/400V, Australia
75	8113348	Brake Pedal	135	8112120	Worm Hose Clamp
76	8110818	Peg Bracket Weldment Assy.	*136	8113569	Ground Location Decal
78	8114137	Distance Potentiometer	*137	8113566	Infla/Release Valve Decal
79	80180017	Distance Gauge Pulley	*138	8113568	On/Off Decal
80	8109945	Washer 1 1/2" Retainer	*139	8113567	Piezo Assy. Instr. Decal
81	8143956	Circular Push-On Retaining Ring	*140	811885	Plug Grounding Decal
82	8114365	Small Return Pulley	141	8111840	Warning Decal
85	8113264	Sonar Target Rod	142	8113570	Warning Decal
87	7110208	Rub Button Carriage	143	8113609	Warning Inflation Decal
*88	8113726	Caution Fuse Decal, 115V	144	85606467	Hub Nut
	8113755	Caution Fuse Decal, 230V	146	85606469	No-Mar Ring
89	8114360	SHC Screw M6 x 16	147	8111542	8-32 x 5/8 Lg. Screw
90	8110560	8/32 x .75" Lg. Screw (Green)	149	8301142	1/4" Spring Lock Washer
92	8182149	SHC 5/16-18 x 3/4 Screw	151	8113473	1-oz. Tape-A-Weight™
94	80180020	String Bracket Screw	153	8111032	1/4" Fender Washer
96	8106301	HWH Self Tapping Screw	154	8113725	Radial Runout Decal
97	2189	Hex Cap 1/4-20 x 1/2 Screw	157	903912	Rubber Grommet, 5/8"
98	8114372	Self Locking Ring	158	80180126	Lateral R.O. Unit w/Sonar & Cables
99	8114402	Collar & Screw Assembly	159	85009152	17" Black Monitor
100	8114371	Slide Bracket	164	8113848	Printer w/115V Adapter
101	8113372	Sliding Tray Assembly		8113896	Printer w/230V Adapter
102	80180133	Sonar Sensor w/Cable & Screws	165	80180125	Printer Cable Assembly
103	8183638	Stand Off Spacer	166	8113870	Receptacle, Duplex, 115V
104	8114452	Motor w/Pulley		8113897	Receptacle, 250V, ISA. Austr.
106	8308023	Compression Spring, Dim. Arm	167	8301063	#632 x 1/2" Screw
107	80180023	Distance Gauge Spring			
108	8308062	Hood Spring, Extension			
109	80180057	Spring Washer			
110	8180103	Standard Clevis Pin			

* Not Shown

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Item	Part	Description	Item	Part	Description
168	905659	1/2-13 x 1 1/2 HHCS	*	8105822	9/16 ID Hose Clamp
180	8113877	Duplex Receptacle Bracket	*	8107983	Plastic Fastener
181	8113931	Rubber Grommet 11/16"	*	8113370	2-way Valve Assy. w/Fittings
182	8113930	Plug - Domed, 11/16"	*	8113416	0.25 ID x 8" Blk Rubber Hose
183	8113874	Lateral R.O. Decal	*	8113417	0.25 ID x 120" Blk Rubber Hose
184	80180115	Hub Nut	*	8113810	Power Cord Assembly, Printer
186	85606473	Braking Transformer, 115V with conn.	*	8113862	Monitor Tower Front
	80180121	Braking Transformer, 230V	*	8120264	1/4" ID x 44" Black Hose
185	85606470	Cup - Hub Nut	*	8182047	3-way Push Button Valve
187	8114450	Control Transformer, 115V with conn.	*	8183502	Bleed Valve Manifold
188	80180133	EMS Sonar Sensor w/Cable & Screws	*	8410419	Doyfe Air Chuck
189	8114364	Distance Gauge String - 13"	*	80180038	Main Switch
190	8114408	M6 x 6 Set Screw	*	80180039	Strain Relief
191	8114425	Runout Sensor Slide Block	*	80180040	Cable & Strain Relief
192	8114424	Adjustment Block	*	80180044	PC Power Cable
193	8114426	Adjustment Screw	*	80180058	Piezo Pickup Cable w/Terminal Block
194	8114432	Sensor Mounting Bracket	*	80180083	Panel/Keyboard Conn. Cable
195	8183961	1/4-20x1/2 FSHCS Screw	*	80180085	Sonar Power Board
196	8114241	Knob	*	80180129	Computer PCB
197	902308	Set Screw			
198	903094	Socket Cap Screw			
199	8114429	Adjustment Rail			
200	8114427	Runout Mounting Tube			
201	902322	10-32x1/2 Screw			
202	8114428	Runout Sensor Rail Spacer			
203	8181984	1/4-20x1 HHCS			
204	8113921	1/4-inch Flat Washer			
205	8112029	1 1/2-inch Clamp			
206	8112179	1/4-20x3 HHCS Screw			
207	8114431	Radial Runout Sensor Kit			
208	8114446	24 mm ø Pulley			
209	8114467	Hood Switch Adj. Bracket			
210	8113922	10-32x3/4 BHSCS			
211	8112317	10-32 Keps Nut			
*	85606465	Encoder Cable			
*	85606466	Encoder Spring			
*	8113558	Circuit Breaker			
*	80180122	Control Transformer, 230V			
*	8000378	Straight Fitting			
*	8000461	1/4" ID x 12" Black Hose			
*	8005696	0.688 x 1.75 x 0.125 Thk Washer			
*	8101428	Worm Hose Clamp			

* Not Shown





