

**Subject:** RE: Downloads

**From:** "Matthew Mandeville" <mmandeville@GNBValves.com>

**Date:** Wed, 4 Aug 2010 09:58:41 -0700

**To:** "John Worden" <worden\_j@ligo-wa.caltech.edu>

John,

Here's the latest list of part base numbers (the actual drawing number has a suffix, such as -00S, to denote variant number and material). I'll be sending along a final indented BOM for each assembly, including the shipping part numbers, within a week.

Base Part No.	Description
114448	PLT, BRACE, A-18 STAND
114447	WELDMENT, BRACKET, A-18
114446	PLT, SIDE, BRACKET, A-18
114445	PLT, TOP, BRACKET, A-18
114444	FINAL ASSY, A-18
114443	STAND, A-18
114442	PLATE, BOLT, STAND, A-18
114441	PLATE, FOOT, STAND, A-18
114440	MEMBER, STAND, A-18
114439	PLATE, BRACKET, BRACE, MSS
114436	FINAL ASSEMBLY, A-17
114435	TUBE, PORT, CF10" A-17
114434	FINAL ASSEMBLY, A-16
114433	TUBE, PORT, CF 8" A-16
114432	TUBE, PORT, CF 8"
114427	Plate, Bracket, Brace
114425	PLATE, SEPTUM, PORTLESS
114424	PLATE, SEPTUM
114386	STAND, MCA, SINGLE SUPPORT
114378	PORT, TUBE, 10" CF
114340	PORT, CF, 8" 5.5" LG
114326	Forging, Flange, 72 ID x 80.25 OD, LIGO
114325	Flange, 72.25ID x 80.25 OD, smooth, LIGO
114324	Forging, Flange, 60 ID x 68.50 OD, LIGO
114323	Flange, 60.50ID x 68.50 OD, smooth, LIGO
114322	Stiffener, Adapter A-18, LIGO
114321	Roll-up, 60.50 ID, Adapter A-18, LIGO
114320	Roll-up, 72.25 ID, adapter, A-18, LIGO
114319	Tube, Port,Pumpout, Adapter, A-18, LIGO

114318	Plate, Reducer, Adapter A-18, LIGO
114317	Weldment, Base tube, adapter, A-18, LIGO
114316	Base tube, Adapter, A-18, LIGO
114315	Weldment, sub-nipple, adapter A-18, LIGO
114314	Sub-nipple, Adapter A-18, LIGO
114313	Final Weldment, Adapter, A-18, LIGO
114306	Bellows, 44.625ID, Adapter A-17, LIGO
114305	Forging, flange, 44 ID, 52.25 OD, grooved LIGO
114304	Flange, 44 ID, 52.25 OD, grooved LIGO
114303	Forging, flange, 45.19 ID, 80.00 OD, Smooth, LIGO
114302	Flange, 45.19 ID, 80.0 OD, smooth, LIGO
114301	Tube, Adapter A-17, LIGO
114300	Weldment, large end, adapter A-17, LIGO
114296	Final Weldment, Adapter A-17, LIGO
114295	Port, CF8, 2"lg
114294	Lug, Lifting, Adapter A-16
114293	Tube, Pump out port piping, Adapter A-16
114292	Forging, Flange, 44ID x 52.25 OD, LIGO
114291	Flange, Rough, 44.63 ID x 52.25 OD, LIGO
114290	Tube, Adapter, A-16, LIGO
114289	Forging, Flange, 44ID x 68.50 OD, LIGO
114288	Flange, Rough, 44.63 ID x 68.50 OD, LIGO
114287	Initial Weld, Adapter A-16, LIGO
114285	Final Machining, Adapter, A-16, LIGO
114284	Final Weldment, Adapter A-16, LIGO
114282	Plate, bolt, stand, midstation spool
114281	Brace, long, stand, midstation spool
114276	Member, vertical, midstation spool
114275	Weldment, Stand, Midstation Spool
114273	Bracket Weldment
114272	Bracket, short pieces, Stand, Midstation Spool
114271	Bracket, long pieces, Stand, Midstation Spool
114270	Machining, Midstation Spool
114269	Forging, Flange, Midstation
114268	Flange, Midstation
114267	Weldment, Initial, Midstation Spool

114266	Stiffener, base, midstation spool
114265	Stiffener, lifting, Midstation Spool, 1/3rd
114264	Roll-up, Midstation Spool
114263	Final Weldment, Midstation Spool
114262	Final Assy, Midstation Spool
114261	Nipple, 10" CF, MCA TUBE
114260	Weldment, Port, 10" CF
114259	Forging, flange, 60.50 ID, smooth
114258	Flange, 60.50 ID, smooth
114255	Nipple, Bellows, 60.50 ID, smooth
114254	Forging, Flange, 84" ID
114253	Flange, 84" ID, Smooth
114252	Tube Weld-up, Right, MC-A Tube
114251	Tube Machining, Right, MC-A tube
114250	Tube Weld-up, Left, MC-A Tube
114249	Tube Machining, Left, MC-A tube
114248	Final Weld, MC-A Tube
114247	Final Assembly, MC-A tube
114246	Foot, Stand, MC Tube
114244	Plate, bolt, stand, MC Tube
114242	Brace, Angle, Long, Stand, MC Tube
114238	Member, stand, vertical, MC Tube
114237	Weldment, Stand, MC Tube, LIGO
114236	Tube, Port, Pumpout, LIGO
114235	Port, Pumpout, LIGO
114233	Plate, backing, nut, small, tie rods, LIGO
114232	Plate, backing, nut, tie rods, LIGO
114231	Forging, flange, 60.50 ID, grooved
114230	Flange, 60.50 ID, grooved
114227	Lifting Eye, Tie rod, LIGO
114226	Mount, Tie rod, MC-Tubes, LIGO
114225	Bellows, 60.50 ID, LIGO
114224	Roll-up, Nipple, 60.50ID, MC Tubes, LIGO
114223	Plate, Reducer, MC Tubes, LIGO
114222	Weldment, Nipple base, LIGO
114221	Nipple, Bellows, 60.50 ID, grooved

114220	Tube, Nipple, 4.5" CF, MC Tube
114219	Nipple, 4.5" CF, MC Tube
114217	Tube, Nipple, 16.5" CF, MC Tube
114216	Nipple, 16.5" CF, MC Tube
114215	Tube, Nipple, 12" CF, MC Tube
114214	Nipple, 12" CF, MC Tube
114213	Forging, 84 ID flange
114212	Flange, 84 ID, Grooved, LIGO
114211	Tube Weld-up, Right, MC-B Tube
114210	Tube Machining, Right, MC-B tube
114209	Plate 2, Bracket, MC-Tube
114208	Plate 1, Bracket, MC-Tube
114207	Weldment, Bracket, MC-Tube
114206	Stiffener, 1/3, lower lifting, MC tube
114205	Stiffener, 1/3, lifting, MC Tube
114204	Stiffener, 1/3, Plain, MC Tube
114203	Roll-up, MC Tube
114202	Tube Weld-up, Left, MC-B Tube
114201	Tube Machining, Left, MC-B tube
114200	Final Weld, MC-B Tube
114199	Final Assembly, MC-B Tube
114146	OUTLINE, TUBE, MC-B, ADLIGO
114145	OUTLINE, TUBE, MC-A, ADLIGO
114144	OUTLINE, SPOOL, MIDSTATION, ADLIGO
114143	OUTLINE, SPOOL, A-18, ADLIGO
114142	OUTLINE, SPOOL, A-17, ADLIGO
114141	OUTLINE, SPOOL, A-16, ADLIGO

Thank you, and have an excellent day!

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-----Original Message-----

From: John Worden [mailto:worden\_j@ligo-wa.caltech.edu]  
Sent: Wednesday, August 04, 2010 8:14 AM  
To: Matthew Mandeville  
Subject: Downloads

Kevin,

I picked up two zip files from the drop box - Do you have an updated parts list or is the PDR file still valid?

thanks

John

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