STS-130/20A

FD 11 Execute Package

MSG	Page(s)	Title
134A	1 - 14	FD11 Flight Plan Revision (Not Printed Onboard)
135	15 - 16	FD11 Mission Summary (Not Printed Onboard)
136	---	Daily Summary (Electronic only. Not Printed Onboard)
137	17 - 37	Stowage Locations for FD11 (GMT 049) (Not Printed Onboard)
138	38 - 39	FD11 Transfer Message (Printed Onboard)
139	40 - 53	STS-130/20A EVA Restow & 19A Tool Config (Printed Onboard)
140	54 - 66	3.2.711 Rotation Hand Controller Fabric Boot Installation (Printed Onboard)
141	67	MPC-DTV MUX Cable Swap Out (Not Printed Onboard)
143	68 - 70	Node 3 UIP Closeout Installation (Printed Onboard)
144	71 - 86	1.154 OGS Rack Transfer LAB to NODE 3 (Printed Onboard)
145	87	FD11 Crew Choice Downlink (Not Printed Onboard)
146	88	FD11 EVA Deltas (Not Printed Onboard)
147	---	Fireport Label Updates (Not Printed Onboard)
148	89	FD11 Reboost Procedure (Printed Onboard)
149B	90	Updated LiOH Cue Card (Printed Onboard)
150	---	IMMT Results - 2/17/10 (Electronic only. Not Printed Onboard)
151A	---	FD11 VIP Call (Electronic only. Printed Onboard)
154	91	Post EVA 3 EV-1 Glove Area of Interest (Not Printed Onboard)

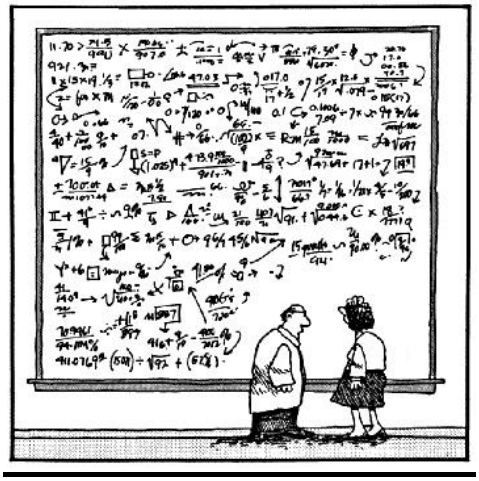
Approved by FAO:
R. Smith

Last Updated: Feb 17 2010 9:06 PM GMT
***JEDI** (**J**oint **E**xecute package **D**evelopment and **I**ntegration), v3.0*

After seeing so much of Mr. Alibaruho on NASA Select,

Hollywood just had to have him in their next series:

Star Trek - Defiant Generation



So…have you figured out where to schedule the reboost?

MSG INDEX

MSG NO.	TITLE
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MSG-136	Daily Summary
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MSG-139	STS-130/20A EVA Restow & 19A Tool Config
MSG-140	3.2.711 Rotation Hand Controller Fabric Boot Installation
MSG-141	MPC-DTV MUX Cable Swap Out
MSG-143	Node 3 UIP Closeout Installation
MSG-144	1.154 OGS Rack Transfer LAB to NODE 3
MSG-145	FD11 Crew Choice Downlink
MSG-146	FD11 EVA Deltas
MSG-147	Fireport Label Updates
MSG-148	FD11 Reboost Procedure
MSG-149	Updated LiOH Cue Card
MSG-150	IMMT Results - 2/17/10
MSG-151	FD11 VIP Call
MSG-154	Post EVA 3 EV-1 Glove Area of Interest

1. Post-Sleep Cryo Config

For today's Post-Sleep cryo config, O2 tanks 2 & 5 will be active with tank 3 configured due to the potential of destratification during reboost. H2 tanks 2 and 4 will be active.

R1 O2,H2 MANF VLV TK2 (two) - OP (tb-OP)
O2 TK3 HTR A - AUTO

Pre-Sleep Cryo Config

√MCC for deltas prior to configuring for Pre-Sleep.

For tonight's Pre-Sleep cryo config, Manifold 2 will be closed with O2 tanks 2 and 5 active and H2 tanks 2 and 4 active.

R1 O2 TK3 HTR A - OFF
O2,H2 MANF VLV TK2 (two) - CL (tb-CL)

2. Updated LiOH Cue Card

MSG 149 contains an updated LiOH Cue Card. Use this cue card for FD11 and subsequent LiOH can changeouts.

3. <u>ECLSS Rack Transfer</u>
   During the ECLSS Rack transfer, Shuttle crew assigned to using the WHC should go back to using the WCS. After ECLSS rack transfer is complete, check with MCC for Go to resume using the WHC.

4. <u>Post EVA 3 Glove Inspection</u>
   Bob and Nick, ground analysis of the Post EVA 3 glove photos have cleared both EV-1 and EV-2 right gloves. EV-2′s left glove has been declared NO GO for contingency EVA due to loss of RTV on the thumb. There is an area of concern on EV-1′s left glove, for which we would like additional inspection and photos; see MSG 154 Post EVA 3 EV-1 Glove Area of Interest. During DPC we will be asking TJ to take photographs of the gloves, please join him for the inspection. Regardless of the results of the inspection, we will have you place both pairs of prime gloves into Bag G for early destow and inspection during the reconfig; but the inspection will determine whether this glove would be usable for a contingency EVA.

5. <u>EMU Reconfig and Transfer</u>
   MSG 142 will contain an updated version of EMU Reconfig and Transfer. That msg is still in work but will be uplinked prior to the scheduled activity.

6. <u>For Terry and Soichi</u>
   Today, we have scheduled the Cupola Corner Panel Installation task. MSG 153 is being developed to address the interference between the Cupola Corner Panels and the Node 3/Cupola vestibule hardware TJ pointed out yesterday. The procedure may not be onboard by morning DPC. In addition to removing the interfering CBM and vestibule hardware, the procedure will also contain steps to drill a hole in Cupola Panels 2 and 4 to accommodate the Hatch Seal Leak Check Port blind gland & nut.

7. REPLACE PAGES 2-38 THROUGH 2-41 and 3-116 THROUGH 3-123.

EXERCISE CONSTRAINT
[Only CEVIS, TVIS, T2, ARED and Shuttle Ergometer exercise allowed during VRCS attitude control]

NO EXERCISE
[DURING DEADBAND COLLAPSE]

REPLANNED

FD11
GMT 02/17/10 (048)
MET Day 009

12 22 13 23 14 02/18 15 01 16 02 17 03 18 04 19 05 20 06 21 07 22 08 23 09 010/00

STS-130	CDR ZAMKA	LOG; POST SLEEP; CREW D/L; POST SLEEP; IMU; XFER OPS; WRS2 XFER; EXERCISE; MEAL; OGS XFER; N2-I; ATTH/O*; MNVR@; REBOOST CONFIG 3; MNVR%; DAP DDC; ATTH/O*
	PLT VIRTS	LOG; POST SLEEP; CREW D/L; PS; WCS#; POST SLEEP; OBSS#; MUX; BUMPER INSTALL; BOOT INSTALL; CUP CORNER PANEL T/S; MEAL; CUP CORNER PANEL T/S; WHC; KABIN; RPLC; REBOOST CONFIG 3; FLTR CLN - INSPECT; EXER
	MS1 HIRE	MYCOT; CLCOT; POST SLEEP; CREW D/L; POST SLEEP; XFER; UPDATE; OBSS#; EXERCISE; XFER OPS; MEAL; XFER OPS; N3 UIP CLOSEOUT INST; XFER OPS
	MS2 ROBINSON	POST SLEEP; CREW D/L; POST SLEEP; WRS DEMATES; WRS 1 XFER; WRS 1 MT; MEAL; WHC XFER; OGS DMT; EXERCISE; MT-PPA LR-RMV; XFER OPS
	MS3 PATRICK	ASPIRIN; LOG; POST SLEEP; CREW D/L; POST SLEEP; EXERCISE; MEAL; EVA RECONFIG & XFER; ISS A/L TOOL STOW
	MS4 BEHNKEN	ASPIRIN; POST SLEEP; CREW D/L; POST SLEEP; MDDKCK; SAFER C/O & SWAP; SAFER XFER; EXERCISE; MEAL; EVA RECONFIG & XFER; ISS A/L TOOL STOW
STS	DAY/NIGHT	
	ORBIT	151; 152; 153; 154; 155; 156; 157; 158
	TDRS W E Z	
	ORB ATT	BIAS -XLV -ZVV; REBOOST
ISS	TDRS AVAIL	
	NOTES	#COMPACT; #MNVR TO UNDOCK; *TO @REBOOST STS; %TEA; *TO ISS; *CWC INIT

3

EXERCISE CONSTRAINT
[Only CEVIS, TVIS, T2, ARED and Shuttle Ergometer exercise allowed during VRCS attitude control]

NO EXERCISE
[DURING DEADBAND COLLAPSE]

REPLANNED

FD11

GMT 02/17/10 (048) 22 23 02/18 01 02 03 04 05 06 07 08 09

MET Day 009 12 13 14 15 16 17 18 19 20 21 22 23 010/00

ISS

TDRS AVAIL

DAY/NIGHT

DAILY ORBIT 1 2 3 4 5 6 7 8

TLM FORMAT 132 112 132 112 122 112 142

ATTITUDE -XVV +ZLV TEA

ALL VHF

EXP 22

ISS CDR WILLIAMS	REACT, POST SLEEP, CREW D/L, PAO, ♣, DPC, ARED, ⊕, ♦, P/TV IMAGERY, ®, WHC DMT, MEAL, WHC XFER, ♥, Δ, OGS XFER, OGS UMB MT, QD CNCT, T2, H2 SNSR CNCT
FE-1 SURAEV	POST SLEEP, CREW D/L, ♠, ϕ, DPC, PW, CB-B2-MNT1, TVIS, •, ИП-1, MEAL, БИО 5 D/L, ∇, МБИ-20-FE1-EXE, TVIS
FE-4 KOTOV	POST SLEEP, CREW D/L, ♠, ◊, DPC, PW, *, СОЖ-MNT, ♣, VELO, ⊕, ♦, MEAL, ®, ♥, TVIS, Δ, PW
FE-5 NOGUCHI	♠, REACT, ϕ, POST SLEEP, CREW D/L, POST SLEEP, DPC, POST SLEEP, PCS P/D, TOCA, CEVIS, H/W RMV, CRB RMV, •, CEVIS, HW INST, ∇, ARED, RAM INSTL, ◊, MEAL, RAM INSTL, CUP CORNER PANEL T/S, T2, SODF UPDATE
FE-6 CREAMER	*, DRY, REACT, POST SLEEP, HDSU, CREW D/L, ♠, ♣, DPC, POST SLEEP, ⊕, ♦, ®, •, GC/DMS, ♥, WRS 1 XFER, WRS2 XFER, WRS 2 MT, MEAL, WHC MATE, WHC ACT, Δ, GC/DMS, SHUTTER, T2, WHC KABIN RPLC, ARED, ♠, ϕ

TDRS W E Z

STS ORB ATT BIAS -XLV -ZVV REBOOST

NOTES

♣POST SLEEP ⊕T2-TOOL-FIT-CHECK •БТХ-39-PHOTO ♥WRS-QD-TRBLSHOOT ®БТХ-39-CK ΔПЗЭ-MO-10-PRE
♠POST SLEEP *БТХ-39-ON (+37) ♦P/TV S/U ⊕БТХ-39-РПР-ПОДГ ◊JPM-SHUTTER-CL ΔCNDS TANK DSCNCT ♥БТХ-39-ИЗВЛ1 ♠FIREPORT-UPD
ϕTEX-15-DAKON-CK •KABIN RMV ®ALTEA-HW-RELOCATE ∇IMS-EDIT ϕP/TV-XFER V
◊СОГС-ЭЛЕК-АФ-БЖ-MON ♣ЭЛКТ-БЖ-ЗИП-PRESS ♦БТХ-39-МТЖ-ОТБОР1 ΔN3 WHC-HYG CVR-INSTL
♠MYCO-ISS SAMPLE-CLCT ♦NODE3-RAMV-C/O ∇WHC DEACT
ϕMYCO-20A-MELFI INS ⊕LIOH-CAN-RELOCATE
*MYCO-ISS SAMPLE-CLCT ®NOD3D5-RACK-PREP
♣ORCA-CYCLES-CHECK ♥P/TV-XFER VID-S/U

REPLANNED

FD11

GMT 02/18/10 (049)

MET Day 010

010/00 10 01 11 02 12 03 13 04 14 05 15 06 16 07 17 08 18 09 19 10 20 11 21 12

STS-130	CDR ZAMKA	♣ / N2-T / PRE SLEEP / CWC / TERM / CWC XFR / FD CONF / PMC A/G / PRE SLEEP	SLEEP / LOG / POST SLEEP
STS-130	PLT VIRTS	EXER / PRE SLEEP	SLEEP / LOG / POST SLEEP
STS-130	MS1 HIRE	XFER / OPS / XFER TAGUP / XFER BRIEF / PRE SLEEP	SLEEP / POST SLEEP
STS-130	MS2 ROBINSON	XFER / OPS / PRE SLEEP	SLEEP / POST SLEEP
STS-130	MS3 PATRICK	PRE SLEEP	SLEEP / LOG / POST SLEEP
STS-130	MS4 BEHNKEN	MDDKCK / PRE SLEEP	SLEEP / POST SLEEP
STS	DAY/NIGHT		
STS	ORBIT	159 / 160 / 161 / 162 / 163 / 164 / 165 / 166	
STS	TDRS W E Z		
STS	ORB ATT	BIAS -XLV -ZVV	
ISS	TDRS AVAIL		
	NOTES	♣CWC INIT #7	

REPLANNED

FD11

GMT 02/18/10 (049)

MET Day 010

010/00 10 11 12 13 14 15 16 17 18 19 20 21 01 02 03 04 05 06 07 08 09 10 11 12

ISS

- TDRS AVAIL
- DAY/NIGHT
- DAILY ORBIT: 9, 10, 11, 12, 13, 14, 15, 16
- TLM FORMAT: 142, 122, 112
- ATTITUDE: -XVV +ZLV TEA
- ALL VHF

EXP 22

ISS CDR WILLIAMS	H2 SNSR CNCT	DPC	PW	PRE SLEEP-ISS	REACT	SLEEP	POST SLEEP	BLDOPR
FE-1 SURAEV	PW	DPC	PW	PRE SLEEP-ISS		SLEEP	POST SLEEP	
FE-4 KOTOV	PW	♣DPC	PW	PRE SLEEP-ISS		SLEEP	POST SLEEP	
FE-5 NOGUCHI	PW	DPC	PW	PRE SLEEP-ISS	REACT	SLEEP	POST SLEEP	
FE-6 CREAMER		DPC	PW	PRE SLEEP-ISS	REACT	SLEEP	PROK^ SALVA BLDSU	BLOOD

TDRS W E Z

STS ORB ATT: BIAS -XLV -ZVV

♣СОГС-ЭЛЕК-АФ-БЖ-МОП

^URN PH TEST

NOTES

STS-130 FD11

GMT Date 02/17 (048) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATI

CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
SLEEP LOGBOOK (ORB OPS, SDBI)	SLEEP LOGBOOK (ORB OPS, SDBI)	MYCO BODY SAMPLE COLLECTION (ASSY OPS, P/L)	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
PUBLIC AFFAIRS EVENT ISS KU AVAIL: 12:53-13:32 Ref. MSG 151	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 12:53-13:32 Ref. MSG 151	PUBLIC AFFAIRS EVENT ISS KU AVAIL: 12:53-13:32 Ref. MSG 151	
POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
	WCS COMPACTOR OPS (DUAL-VANE) (ORB OPS, CUE CARD)		
	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
		TRANSFER UPDATE Ref. Transfer List & MSG 138	
	OBSS MNVR TO UNDOCK (PDRS, OBSS NOMINAL)	OBSS MNVR TO UNDOCK (PDRS, OBSS NOMINAL)	
IMU STAR OF OPPTY ALIGN (ORB OPS, GNC)	MPC-DTV MUX CABLE SWAP OUT Ref. MSG 141		
TRANSFER OPS Ref. Transfer List & MSG 138	1.186 RWS VIDEO MONITOR ORU BUMPER INSTALL (ASSY OPS, ACT & C/O)	EXERCISE	
	3.2.711 ROTATION HAND CONTROLLER FABRIC BOOT INSTALLATION Ref. MSG 140		

FD11 EZ ACTIVITIES:
√OCAC FILTER & MDDK DUCT SCREEN
TEPC (STATUS CHECK) (ORB OPS, CREW SYS)
HARD REBOOT ALL PGSCs EXCEPT: STS-6(WLES),STS-5(RPOP2),& OCA ROUTER.
Return all Shuttle IFM tools used on ISS, per MSG 052, to Endeavour prior to sleep.

Time scale: 22:00, 23:00, 00:00, 01:00; 12:00, 13:00, 14:00, 15:00, 16:00

151, 152, 153

BIAS -XLV -ZVV

STS-130 FD11

GMT Date 02/17 (048) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATT

22:00 | 23:00 | 00:00 | 01:00

151 | 152 | 153

12:00 | 13:00 | 14:00 | 15:00 | 16:00

BIAS-XLV-ZVV

MS2 ROBINSON

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 12:53-13:32
Ref. MSG 151

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

1.150 WRS-1 & WRS-2 RACK XFER LAB TO NOD3
(ASSY OPS, ACT&C/O)
Steps 1-4, Step 1.6 not required

1.150 WRS-1 & WRS-2 RACK XFER LAB TO NOD3
(ASSY OPS, ACT&C/O)
Steps 5-10.4 for WRS-1 (LAB1D4)

MS3 PATRICK

EVA CREW: TAKE 1 ASPIRIN (325mg)
SLEEP LOGBOOK (ORB OPS, SDBI)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 12:53-13:32
Ref. MSG 151

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

EXERCISE

MS4 BEHNKEN

EVA CREW: TAKE 1 ASPIRIN (325mg)
POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

PUBLIC AFFAIRS EVENT
ISS KU AVAIL: 12:53-13:32
Ref. MSG 151

POST-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

GLACIER STATUS CHECK (ASSY OPS,CC)
SAFER CHECKOUT & SWAP
(EVA, AIRLOCK CONFIG)
Retrieve SAFER 1003 from NOD1 D2
Retrieve SAFER 1005 from NOD3 A2

Notes

REPLANNED

STS-130 FD11

GMT Date 02/18 (049) | W | T D R S E | Z | D/N | O R B | MET Day 009 | STS ATI

MET	CDR ZAMKA	PLT VIRTS	MS1 HIRE	Notes
16:00	TRANSFER OPS Ref. Transfer List & MSG 138	3.2.711 ROTATION HAND CONTROLLER FABRIC BOOT INSTALLATION Ref. MSG 140	TRANSFER OPS Ref. Transfer List & MSG 138	
02:00	1.150 WRS-1 & WRS-2 RACK XFER LAB TO NOD3 (ASSY OPS, ACT&C/O) Steps 5-end for WRS-2 (LAB1P4)	CUPOLA CORNER PANEL INTERFERENCE WORK AROUND Ref. MSG 153		
17:00				
03:00				
18:00	EXERCISE			
04:00				
19:00	MEAL	MEAL	MEAL	
05:00		CUPOLA CORNER PANEL INTERFERENCE WORK AROUND Ref. MSG 153	TRANSFER OPS Ref. Transfer List & MSG 138	
20:00				

D/N: 153, 154, 155, 156

STS ATI: BIAS-XLV-ZVV

STS-130 FD11

GMT Date 02/18 (049) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATT

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

16:00 — 17:00 — 18:00 — 19:00 — 20:00

02:00 — 03:00 — 04:00 — 05:00

153 — 154 — 155 — 156

BIAS-XLV-ZVV

MS2 ROBINSON

1.150 WRS-1 & WRS-2 RACK XFER LAB TO NOD3
(ASSY OPS, ACT&C/O)
Steps 5-10.4 for WRS-1 (LAB1D4)

S&M: 1.341 WRS-1 UMBILICAL MATE
Steps 1.1, 1.4-end
In step 3, RPCs will show "Purple D's" until WRS2 Umbilical Mate.

MEAL

1.146 WHC RACK TRANSFER
(ASSY OPS, RACK TRANSFERS)
Steps 6-end

1.154 OGS RACK TRANSFER LAB TO NODE 3
Ref. MSG 144, Steps 1-6

MS3 PATRICK

EXERCISE

MEAL

POST EVA RECONFIG AND TRANSFER TO SHUTTLE
(EVA, AIRLOCK CONFIG)
Temp stow EMUs in Middeck.
Will install on FD12.
Ref. MSG 142
Ref. Transfer List: Items 702,712,713,715

MS4 BEHNKEN

SAFER CHECKOUT & SWAP
(EVA, AIRLOCK CONFIG)
Retrieve SAFER 1003 from NOD1 D2
Retrieve SAFER 1005 from NOD3 A2

SAFER TRANSFER
Ref. Transfer List: Item 714

EXERCISE

MEAL

POST EVA RECONFIG AND TRANSFER TO SHUTTLE
(EVA, AIRLOCK CONFIG)
Temp stow EMUs in Middeck.
Will install on FD12.
Ref. MSG 142
Ref. Transfer List: Items 702,712,713,715

REPLANNED

STS-130 FD11

GMT Date 02/18 (049) | W | TDRS E | Z | DON/OFF | MET Day 009 | STS ATI

CDR ZAMKA

- 20:00 — 1.154 OGS RACK TRANSFER LAB TO NODE 3
  Ref. MSG 144, Steps 7-end
- BIAS -XLV -ZVV
- 21:00 — A N2 REPRESS USING P/L N2 VLVS
  (ORB OPS, ECLS) Steps 1-6;
  MCC will TMBU S/W FDA in Step 1.
  On MCC go, perform Step 7.
  Work the ()s for all steps performed
- N2 REPRESS INIT A
  H/O ATT CONTROL CMG TA to ORB:
  √MCC for DAP
- 22:00 — MNVR (TRK) REBOOST
  TGT=2 BV=5 P=176 Y=0 OM=178
  A12/AUTO/VERN, Init TRK
- REBOOST
- AUTO REBOOST
  Ref. MSG 148
  TIG: 22:17-22:50
- 23:00 — MNVR (TRK) BIAS -XLV -ZVV
  TGT=2 BV=5 P=162.71 Y=359.93 OM=167.12
  A12/AUTO/VERN, Init TRK
- BIAS -XLV -ZVV
- B When ISS is GO for att. control, DAP: FREE
  Then return to DAP A, √A12/FREE/VERN
  Reconfig DAP B to B12
- When ISS is GO for deadband collapse,
  DAP:B13
- 00:00 — ATT H/O TO ISS B
  CWC FILL (ORB OPS, CWC OPS)
  Init Fill #7, Ref. MSG 027

PLT VIRTS

- CUPOLA CORNER PANEL INTERFERENCE WORK AROUND
  Ref. MSG 153
- S&M:1.280 WHC KABIN DISASSEMBLE/REASSEMBLE
  Step 6 to install in NOD3F4
  Setup WHC with crew preference items
  (footrails, toiletries) as needed.
- AUTO REBOOST
  Ref. MSG 148
  TIG: 22:17-22:50
- FILTER CLEANING
  (IFM, SCHEDULED MAINTENANCE)
  Inspect filters and clean
  as necessary
- EXERCISE

MS1 HIRE

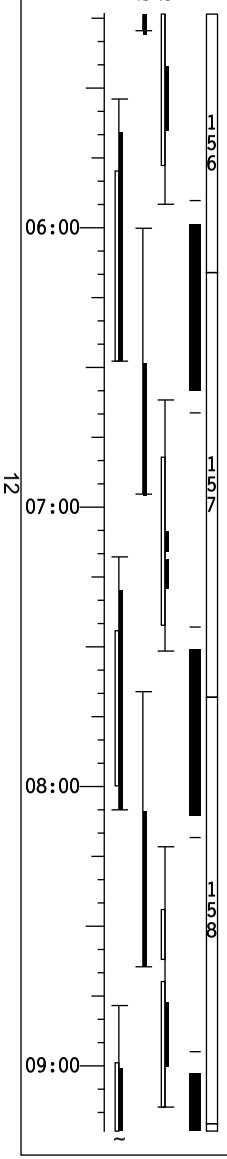
- TRANSFER OPS
  Ref. Transfer List & MSG 138
- NODE 3 UIP CLOSEOUT HYGIENE COVER INSTALL
  Ref. MSG 143
- TRANSFER OPS
  Ref. Transfer List & MSG 138

Notes

- EXERCISE CONSTRAINT [Only CEVIS, TVIS, T2, ARED and Shuttle Ergometer exercise allowed during VRCS attitude control]
- NO EXERCISE [During Deadband Collapse]

STS-130 FD11

GMT Date 02/18 (049) | W | TDRSE | Z | D/N | ORB | MET Day 009 | STS ATT



MET	MS2 ROBINSON	MS3 PATRICK	MS4 BEHNKEN	Notes
20:00	1.154 OGS RACK TRANSFER LAB TO NODE 3 Ref. MSG 144, Steps 1-6	POST EVA RECONFIG AND TRANSFER TO SHUTTLE (EVA, AIRLOCK CONFIG) Temp stow EMUs in Middeck. Will install on FD12. Ref. MSG 142 Ref. Transfer List: Items 702,712,713,715	POST EVA RECONFIG AND TRANSFER TO SHUTTLE (EVA, AIRLOCK CONFIG) Temp stow EMUs in Middeck. Will install on FD12. Ref. MSG 142 Ref. Transfer List: Items 702,712,713,715	
	EXERCISE			
21:00	1.136 NODE 3 MTL PUMP PACKAGE ASSEMBLY(PPA) LAUNCH BRACKET REMOVAL (ASSY OPS, ACT&C/O)			
22:00		ISS A/L TOOL STOW Ref. MSG 139 Ref. MSG 146	ISS A/L TOOL STOW Ref. MSG 139 Ref. MSG 146	
23:00	TRANSFER OPS Ref. Transfer List & MSG 138			
00:00				

STS ATT: BIAS-XLV-ZVV; REBOOST; BIAS-XLV-ZVV

STS-130 FD11

GMT Date 02/18 (049) | W | TDRSE | Z | D/N | ORB | MET Day 010 | STS ATT | CDR ZAMKA | PLT VIRTS | MS1 HIRE | Notes

00:00 — 01:00 — 02:00 — 03:00 — 04:00

10:00 — 11:00 — 12:00 — 13:00

159 — 160 — 161

BIAS-XLV-ZVV

CDR ZAMKA

CWC FILL (ORB OPS, CWC OPS)
Init Fill #7, Ref. MSG 027

N2 REPRESS TERM (On MCC GO) C

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

CWC FILL (ORB OPS, CWC OPS)
Perform FILL TERMINATION

CWC TRANSFER
Transfer CWC to ISS

FLIGHT DIRECTOR CONFERENCE

PRIVATE MEDICAL CONFERENCE
L9 PAYLOAD STATION A/G (two) - OFF
Perform via A/G2

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

C N2 REPRESS USING P/L N2 VLVS
(ORB OPS, ECLS) on MCC GO,
perform Steps 8-13
MCC will TMBU S/W FDA in Step 13
Work the ()s for all steps performed
After Step 13 on MCC GO,
M010W 14.7 CAB REG INLET SYS 2 vlv-OP

SLEEP

PLT VIRTS

EXERCISE

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)
√ILLUMINATORS OFF - ALL

SLEEP

MS1 HIRE

TRANSFER OPS
Ref. Transfer List & MSG 138

TRANSFER TAGUP
Coordinate with transfer counterpart

TRANSFER BRIEF
Call down status to MCC

PRE-SLEEP ACTIVITY
(ORB OPS, CREW SYS)

SLEEP

CREW WAKE AT 10/11:30

13

3-122

FLT PLN/130/FLT

STS-130 FD11

GMT Date 02/18 (049) | W | TDRS E | TDRS Z | DO/N | ORB | MET Day 010 | STS ATI

MS2 ROBINSON | MS3 PATRICK | MS4 BEHNKEN | Notes

00:00 — TRANSFER OPS
Ref. Transfer List & MSG 138

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

GLACIER STATUS CHECK (ASSY OPS,CC)
PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)

10:00 — 159

01:00

11:00 — BIAS-XLV-ZVV

02:00 — 160

12:00

03:00 — 161

CREW WAKE AT 10/11:30

13:00 — SLEEP | SLEEP | SLEEP

04:00

Good morning Endeavour. Outstanding work yesterday with the EVA and opening the Cupola's view to the world. We're looking forward to a great day today.

YOUR CURRENT ORBIT IS: 188 X 180 NM

NOTAMS: TWO CHANGES (DELETED ESN AND ADDED DOV)

EDW -	TEMP RWY IN USE. PERM RWY CLOSED FOR CONSTRUCTION.
EDW -	LAKEBED RWYS RED.
NOR -	LAKEBED RWYS USABLE. DRYING OUT.
FOK -	CLOSED.
WAL-	CLOSED.
DOV -	**RWY 32 RWY END LIGHTS OUT OF SERVICE.**
ZZA -	ARRESTING NET INSTALLED 40M FROM END OF RWY 30L.
GUA -	RWY 06L/24R RWY END LIGHTS OUT OF SERVICE.
PTN -	CLOSED FOR RUNWAY CONSTRUCTION.
IKF -	NOT USABLE. NO AGREEMENT.
BEN -	NOT RECOMMENDED/NOT SUPPORTED.

NEXT 2 PLS OPPORTUNITIES:

EDT22R	ORB 157 – 9/21:48	SKC	7	240/3P5
EDT22R	ORB 172 –10/20:35	BKN200	7	230/8P12

OMS TANK FAIL CAPABILITY:

L OMS FAILS: NO
R OMS FAILS: NO

LEAKING OMS PRPLT BURN:

L OMS LEAK: ALWAYS BURN RETROGRADE
R OMS LEAK: ALWAYS BURN RETROGRADE

OMS QUANTITIES(%)

L OMS	OX = 30.2	R OMS	OX = 31.4
	FU = 29.9		FU = 31.2

Subtract interconnect counter for current OMS quantities.

DELTA V AVAILABLE:

OMS	322 FPS
ARCS (TOTAL ABOVE QTY1)	40 FPS
TOTAL IN THE AFT	362 FPS
ARCS (TOTAL ABOVE QTY2)	74 FPS
FRCS (ABOVE QTY 1)	12 FPS
AFT QTY 1	75 %
AFT QTY 2	37 %

THERE ARE NO FAILURE/IMPACT/WORK AROUNDS FOR TODAY.

END OF PAGE 2 OF 2, MSG 135

Contents:

Timeline Procedures:

MYCO-ISS SAMPLE-CLCT
MYCO-STS-SAMPLE CLCT
MYCO-20A-MELFI INS
LIOH-CAN-RELOCATE
TOCA RMV
CEVIS-H/W-RMV
CEVIS-H/W-INSTL
**WRS DEMATES
WRS 1 RACK XFER
WRS 2 RACK XFER
**WRS 1 RK UMBIL MATE
WRS 2 RK UMBIL MATE
**CUP CORNER PANEL T/S
NOD3D5-RACK-PREP
CRAB RMV/STOW
T2-TOOL-FIT-CHECK
WHC DEMATE
WHC RACK XFER
WHC MATE
**OGS RACK UMBIL DMATE
**OGS RACK XFER
OGS RACK UMBIL MATE
EHS-RAM-DEPLOY
**RWS-BUMPER-INSTL
**RWS-BOOT-INSTALL
N3-WHC-HYG-CVR-INSTL
OGS-QD-CNCT
OGS-H2 SNSR-CNCT
N3-UIP-CLSOUT-INSTL
** MT-PPA LR-RMV
FIREPORT-UPDATE

ESA Timeline Procedures:

None

JAXA Timeline Procedures:
None

Tasklist Procedures:
BCAT3-CRYSTAL-CHECK
WHC-KTO-REPLACE
WHC-ЕДВ-У-R&R
PWD-BEV ADPTR-R&R

JAXA Tasklist Procedures:
None

ESA Tasklist Procedures:
None

Timeline Procedures:

MYCO-ISS SAMPLE-CLCT **MYCO-STS-SAMPLE CLCT** **MYCO-20A-MELFI INS**						
2.003 MYCO BODY SAMPLE COLLECTION **2.014 MELFI Insertion of Sample Into Box Module-IMS Generic**						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**LAB1S2_B1**	Dewar ASE Pouch	03298	03J	MEFDAP03J	
2		White Gloves	03291-1	Any	Any	
3	**LAB1S2** (at MELFI 2)	Coldplate/Wireway Cover	03000	-	-	
4	**Temp Stowed FD10**	Myco Kit [QTY:3]	MK-1	001 002 003	MYC01001N MYC01002N MYC01003N	Soichi TJ Kay

Type: Restow			IMS Plan: No			
5	**LAB1S2** MELFI-2 Dewar 4, Tray B, Sec 3-4.	MYCO Kit	MK-1	001	MYC01001N	Soichi
6		MYCO Kit [QTY:2]	MK-1	002 003	MYC01002N MYC01003N	TJ Kay

LIOH-CAN-RELOCATE						
22-0745 LIOH CAN RELOCATE						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD1S4_D2**	LiOH	MC621-0008-0409/SV755510-4	Any STS-130/20A Can	-	**REPORT** Can #
Type: Restow						
2	**NOD1P4_B2** 1.0 CTB: Post-Fire Kit, 1 of 2, S/N 1009, B/C 002303J	LiOH	MC621-0008-0409/SV755510-4	-	-	

TOCA RMV						
22-0586 Total Organic Carbon Analyzer: TOCA – Uninstall from Water Recovery System 2 (WRS2) Rack						
Type: Restow						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD3F1**	TOCA	SEG52101388-301	1001	2TCA14J	
2		TOCA Water Sample Hose	SEG52101727-301	1001	00100649J	
3		LAB TOCA N2 Hose	683-63488-1	000001	00094163H	

CEVIS-H/W-RMV
CEVIS-H/W-INSTL

2.1.885 CEVIS - DISCONNECTING CEVIS FROM RACK
2.1.800 CEVIS-Connecting CEVIS to Rack

Type: Standard

#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	**LAB1P3_D2**	CEVIS Accessory Kit	SEG46116009-301	-	CHCCES02J	
2		CEVIS Isolator Kit	SEG46116012-301	-	00015648J	

****WRS DEMATES**
WRS 1 RACK XFER
WRS 2 RACK XFER
****WRS 1 RK UMBIL MATE**
WRS 2 RK UMBIL MATE

1.150 WRS-1 & WRS-2 RACK TRANSFER LAB TO NOD3

Type: Standard

#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	**COL1F3**	Empty 3.0 CTB	SEG33111840-303	Any	Any	**Report S/N to MCC-H**
2	**LAB1D5** 0.5 CTB: WRS Caps&Plugs Potable Water Refill Purge Adap, S/N 1379, B/C CTB00284J	Ziplock: WRS Pwr/Data Caps	-	-	-	
3		Ziplock: WRS Process Water Caps/Plugs	-	-	-	
4		Ziplock: WRS2 Waste Water Caps/Plugs	-	-	-	
5		Ziplock: WRS1 O2 Caps/Plugs	-	-	-	
6		Ziplock: WRS1 Potable Water Caps/Plugs	-	-	-	
7		Ziplock: WRS TCS Caps/Plugs	-	-	-	
8		QD Plug [QTY: 4]	683-16348-813	-	-	

9		Ziplock "QD Caps and Plugs For ECLSS Urine Processor Assy Maintenance Only (for tox level 2 fluid lines)"	-	-	-	
10	**LAB1P2** 0.5 CTB, S/N 1221, B/C 010402J	Regen ECLSS Tox-2 PPE Kit	SEG42103702-302	1002	CHCCPK02J	
11		Surgical Mask	503R	-	-	
12		Safety Goggles	SS104M	-	-	
13		Silver Shield Gloves	8210	-	-	
14	**NOD1D4**	6” Long, 3/8” Hex Head, 3/8” Drive		-	-	
15		5/16” Socket, 1/4” Drive		-	-	
16		(40-200 in-lbs) Trq Wrench, 3/8” Drive				
17		5/32” Hex Head, 3/8” Drive				
18	**Pregathered Toolset “Jeff” or “TV”**	9/16” Socket, 3/8” Drive				
19		Ratchet, 1/4” Drive				
20		Adjustable Joint Pliers, Straight Jaw				
21		Ratchet, 3/8” Drive				
22		Wire Cutters				
23		Static Wrist Tether				
Type: Restow						
24	**Temp Stow NOD3**	3.0 CTB: WRS and OGS Lab Mod Kit Jumpers	SEG33111840-303	-	-	
25		Ziplock: WRS Pwr/Data Caps	-	-	-	**REPORT QTY left in bag**
26		Ziplock: WRS Process Water Caps/Plugs	-	-	-	**REPORT QTY left in bag**
27		Ziplock: WRS2 Waste Water Caps/Plugs	-	-	-	**REPORT QTY left in bag**
28		Ziplock: WRS1 O2 Caps/Plugs	-	-	-	**REPORT QTY left in bag**
29		Ziplock: WRS1 Potable Water Caps/Plugs	-	-	-	**REPORT QTY left in bag**

30		Ziplock: WRS TCS Caps/Plugs	-	-	-	**REPORT QTY left in bag**
31		Temporary OGS/WRS-2 Rack Power Jumper (W5124)	683-95124-1	000001	00058643H	
32		WRS2 - WRS1 120V Pwr Jumper (W5130)	683-95130-1	000001	00056685H	
33		WRS1 J6 - WRS2 J7 Pwr/Data Jumper (W5131)	683-95131-1	000001	00056686H	
34		WRS1 J7 - WRS2 J8 Pwr/Data Jumper (W5132)	683-95132-1	000001	00056687H	
35		WRS-1 J8 - WRS-2 J9 Data Jumper (W5133)	683-95133-1	000001	00056643H	
36		WRS-2 Rack 1553A Jumper (W5127)	683-95127-1	000001	00056683H	
37		WRS-2 Rack 1553B Jumper (W5128)	683-95128-1	000001	00056684H	
38		WRS-2 Rack Data Jumper (W5129)	683-95129-1	000001	00056642H	
39		WRS-1 Rack Data Cable (W5120)	683-95120-1	000001	00056677H	
40		WRS-1 Rack 1553A Jumper (W5125)	683-95125-1	000001	00056640H	
41		WRS-1 Rack 1553B Jumper (W5126)	683-95126-1	000001	00056641H	
42		WRS Process Water A Jumper	683-63461-15	-	-	
43		WRS Process Water B Jumper	683-63461-16	-	-	
44		WRS Process Water C Jumper	683-63461-17	-	-	
45		WRS Process Water D Jumper	683-63461-18	-	-	
46		WRS-2 Waste Water Jumper	683-63461-14	000001	00060108H	
47		WRS-1 MTL Return Jumper	683-63495-1	000001	00060103H	
48		WRS-1 MTL Supply Jumper	683-63461-10	000001	00060102H	
49		WRS-2 MTL Return Jumper	683-63461-13	000001	00060107H	

50		WRS-2 MTL Supply Jumper	683-63461-12	000001	00060106H	
51		WRS-1 Potable Water Jumper	683-63461-11	000001	00060104H	
52		WRS Jumper Support Bracket	683-64400-1	000001	00060127H	
53		WRS Closeout Assembly - Seat Track Bracket [Qty 2]	683-64400-3	000001	00070794H	

**CUP CORNER PANEL T/S						
22-0765 CUPOLA CORNER PANEL INTERFERENCE WORKAROUND						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**Temp Stow NOD3A2**	Corner Panel [QTY: 1]	1210CU311-403	-	-	
2		Corner Panel [QTY: 2]	1210CU323-403	-	-	
3		Corner Panel [QTY: 1]	1210CU327-403	-	-	
4	**NOD1D4_G1** 1.0 CTB, S/N 1096, B/C 004090J	Screw Extractor Master Kit	SJG33116581-301	1002	00042533J	
5		1/8” Cobalt Drill Bit	SJG33115397-504	-	-	
6		5/16" Cobalt Drill Bit	SJG33115397-501	-	-	
7	**NOD1D4**	#2 Phillips Head Driver, 3/8” Drive	-	-	-	
8		6" Long, 3/16" Ball Tip Hex Head, 3/8" Drive	-	-	-	
9		Large File Set	-	-	-	
10		Center Punch	-	-	-	
11		Dead Blow Ballpeen Hammer	-	-	-	
12		5/16” Hex Head, 3/8” Drive	-	-	-	
13	**Pregathered Toolset “Jeff” or “TV”**	3/16" Hex Head, 1/4" Drive	-	-	-	
14		Ratchet, 1/4" Drive	-	-	-	
15		Ratchet, 3/8" Drive	-	-	-	
16		1/4” to 3/8” Adapter	-	-	-	
17		Driver Handle, 1/4" Drive	-	-	-	
18		5/32" Hex Head, 1/4" Drive	-	-	-	

19		3/8" Socket, 1/4" Drive	-	-	-	
20		4" Ext, 1/4" Drive	-	-	-	
21		4" Common Tip Screwdriver	-	-	-	
Type: Restow						
22	**NOD1P2** 3.0 CTB: Node 3 Vestibule Outfitting kit (VOK), S/N 1048, B/C 004233J	0.5 CTB: NOD3 Uninstalled Hardware	SEG33111836-303	1065	003947J	
23		Ziplock: “NOD3-Cupola Alignment Guides”	-	-	-	
24		Alignment Guides	-	-	-	
25		Ziplock: “NOD3 Nadir RTLs ”	-	-	-	
26		RTLs	-	-	-	
27		Ziplock: “NOD3-Cupola Capture Latch Assemblies”	-	-	-	
28		CLA	-	-	-	
29		Fasteners	-	-	-	
30		Ziplock: “NOD3-Cupola Vestibule Closeout Brackets”	-	-	-	
31		Closeout Brackets	-	-	-	
32		P-Clamp	-	-	-	
33		Fasteners	-	-	-	
34		Ziplock: “NOD3-Cupola Vestibule P-Clamps”.	-	-	-	
35		P-Clamps	-	-	-	
36		Ziplock: “NOD3 NADIR Center Disk Cover Standoff Bracket -- Loose Parts”	-	-	-	
37		Center Disk Cover Standoff Bracket	-	-	-	

NOD3D5-RACK-PREP						
1.142 PREPARE NODE 3 FOR RACK INSTALLATION ON 20A						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**COL1O4_B2** 0.5 CTB: KBAR/ARIS UMBILICALS, S/N 1096, B/C 006545J	Ziplock w/ K-Bar, Left items	-	-	-	
2		K-BAR Capture Fitting, Left	683-62201-27	**Any**	-	**Report S/N to MCC-H**
3		Ziplock w/ K-Bar, Right items	-	-	-	
4		K-BAR Capture Fitting, Right	683-62201-28	**Any**	-	**Report S/N to MCC-H**
5	**NOD1D4**	5/32” Hex Head, 3/8” Drive	-	-	-	
6		(10-50 in-lbs) Trq Wrench, 1/4” Drive	-	-	-	
7	**Pregathered Toolset “Jeff” or “TV”**	Ratchet, 1/4” Drive	-	-	-	

CRAB RMV/STOW						
2.1.885 CEVIS - DISCONNECTING CEVIS FROM RACK						
Type: Restow						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**Deploy Crew Pref**	CEVIS Rack Attachment Brackets [QTY: 4]	683-99542	-	-	Can be used as crew restraint and mobility aids as desired.

T2-TOOL-FIT-CHECK						
22-0700 TREADMILL 2 –SNUBBER ARM FASTENER TOOL FIT CHECK						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD1D4**	3/8” L-Wrench	SKG33117562-796	-	-	

WHC DEMATE
WHC RACK XFER
WHC MATE

1.146 WHC Rack Transfer - LAB1P2 to NOD3F4
1.333 WHC RACK UMBILICAL MATE

Type: Standard

#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	**LAB1P2** 0.5 CTB, S/N 1221, B/C 010402J	Regen ECLSS Tox-2 PPE Kit	SEG42103702-302	1002	CHCCPK02J	
2		Surgical Mask	503R	-	-	
3		Safety Goggles	SS104M	-	-	
4		Silver Shield Gloves	8210	-	-	
5	**LAB1P2 WHC Rack UIP**	Ziplock “WHC Urine Jumper Bag”	-	-	-	
6	**NOD3F1** 2.0 CTB: INSTALLATION H/W 1, S/N 1092, B/C 010680J	NOD3 WHC Flush Water Adapter Mod Kit	683-99396-1	000001	-	
7		NOD3 WHC Flush Water Adapter	683-99395-1	000001	-	
8		IMS Label	683-99224-10	-	-	
9		4" Teflon Tape	CHR-C	-	-	
10	**NOD1D4**	(40-200 in-lbs) Trq Wrench, 3/8" Drive	SEG33117289-302	M213569	-	
11		6" Long, 3/8" Hex Head Driver, 3/8" Drive	SKG33117562-751	-	-	
12		5" Long, 3/8" Ball Tip Hex Head, 3/8" Drive	SEG33109848-309	-	-	
13	**Pregathered Toolset “Jeff” or “TV”**	9/16" Socket, 3/8" Drive	SKG33117562-731	-	-	
14		Ratchet, 3/8" Drive	SKG33117562-938	-	-	
15		Wire Cutters	SKG33117562-926	-	-	
16		Adjustable Joint Pliers, Straight Jaw	SKG33117562-945	-	-	
17		Static Wrist Tether	SKG33117562-335	-	-	

Type: Restow						
18	**COL1O4_B2** 0.5 CTB: KBAR/ARIS UMBILICALS, S/N 1096, B/C 006545J	K-BAR Assy, Left	683-62201-33	-	-	**Report S/N to MCC-H**
19		K-BAR Assy, Right	683-62201-34	-	-	**Report S/N to MCC-H**
20	**LAB1P2** Standoff Area	WHC Urine Jumper	683-63461-25	000001	00085696H	Routed through standoff.Remains in standoff.
21		WHC Flush Water Jumper	683-63461-26	000001	00085695H	Routed through standoff. Removed during OGS Rack Xfer.
22	**NOD3F4 UIP**	Ziplock: WHC Pwr/Data Caps	-	-	-	
23		Caps [QTY: 4]	-	-	-	
24		Ziplock: WHC Urine Caps	-	-	-	
25		Caps [QTY: 2]	-	-	-	
26		Ziplock: WHC Potable H2O Caps	-	-	-	
27		Caps [QTY: 2]	-	-	-	
28	**Temp Stow NOD3**	3.0 CTB: WRS and OGS Lab Mod Kit Jumpers	SEG33111840-303	-	-	Created during WRS Rack Xfers
29		Ziplock Labeled “WHC Power/Data Jumpers”	-	-	-	Created in WHC RACK XFER
30		WHC Power Jumper	683-99134-1	000001	00085697H	
31		WHC Data Jumper	683-99135-1	000001	00085698H	

****OGS RACK UMBIL DMATE**
****OGS RACK XFER**
OGS RACK UMBIL MATE

22-0752 1.154 OGS RACK TRANSFER LAB1P1 TO NOD3A5
1.325 OGS UMBILICAL MATE

Type: Standard

#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	**LAB1P1 stowage area inside rack** 0.5 CTB: OGS Hardware, S/N 1349, B/C 010530J	Ziplock: OGS Jumper Electrical Plugs	-	-	-	
2		Ziplock: OGS Jumper Fluid Plugs	-	-	-	
3		Ziplock: Node 3 Miscellaneous	-	-	-	
4		WHC/OGS Potable Water QD Caps	-	-	-	
5	**Temp stowed NOD3**	3.0 CTB: WRS and OGS Lab Mod Kit Jumpers	SEG33111840-303	-	-	Created during WRS Rack Xfers
6		OGS Waste Water Jumper (ACTEX Hose)	683-63461-7	000001	00060099H	Removed during OGS Umbilical Demate and used during OGS Umbilcal mate in Node 3.
7	**NOD1D4**	5/32" Hex Head, 3/8" Drive	-	-	-	
8		5/16" Socket, 1/4" Drive	-	-	-	
9		Driver Handle, 3/8” Drive	-	-	-	
10		6” Long, 3/8” Hex Head, 3/8” Drive	-	-	-	
11		(5-35 in-lbs) Trq Driver, 1/4" Drive	-	-	-	
12	**Pregathered Toolset “Jeff” or “TV”**	Ratchet, 3/8" Drive	-	-	-	
13		9/16" Socket, 3/8" Drive	-	-	-	
14		Ratchet, 1/4" Drive	-	-	-	
15		6" Ext, 1/4" Drive	-	-	-	
16		Wire Cutters	-	-	-	
17		Adjustable Joint Pliers, Straight Jaw	-	-	-	
18		Static Wrist Tether	-	-	-	

Type: Restow						
19	**JLP1S1** Water Delivery ORU, OGS Feedwater Adapter Hose	OGS Feed Water Jumper	683-63461-8	000001	00060100H	OGS Feed Water Jumper gets mated to the WDS in step 16.4 of the transfer.
20	**NOD3O1**	3.0 CTB: WRS and OGS Lab Mod Kit Jumpers	SEG33111840-303	-	-	Created during WRS Rack Xfers
21		WHC Flush Water Jumper	683-63461-26	000001	00085695H	
22		OGS Waste Water Jumper (Green Flex Hose)	683-63461-7	000001	00060099H	
23		OGS Rack Data Jumper	683-95136-1	000001	00056690H	
24		OGS Rack Pri Pwr Jumper	683-95134-1	000001	00056688H	
25		OGS Rack Sec Pwr Jumper	683-95135-1	000001	00056689H	
26		OGS MTL Supply Jumper	683-63461-4	000001	00060096H	
27		OGS MTL Return Jumper	683-63461-5	000001	00060097H	
28		OGS Nitrogen Jumper	683-63461-6	000001	00060098H	
29		OGS H2/N2 Vent Jumper	683-63461-9	000001	00060101H	
30	**NOD3A5** 0.5 CTB: OGS Hardware, S/N 1349, B/C 010530J	Ziplock Bag: OGS Jumper Fluid Plugs	-	-	-	
31		Plugs	-	-	-	**REPORT QTY**
32		Ziplock Bag: OGS Jumper Electrical Plugs	-	-	-	
33		Plugs	-	-	-	**REPORT QTY**
34	**NOD1P2** 3.0 CTB: Node 3 Vestibule Outfitting kit (VOK), S/N 1048, B/C 004233J	0.5 CTB: NOD3 Uninstalled Hardware	SEG33111836-303	1065	003947J	
35		Ziplock: Node 3 Miscellaneous	-	-	-	
36		Connector Support Bracket [QTY: 2]	-	-	-	
37		Fasteners [QTY: 8]	-	-	-	

EHS-RAM-DEPLOY						
22-0582 3.119 RADIATION AREA MONITOR DOSIMETERS						
Type: Standard			IMS Plan: No			
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**LAB1D6** 1.0 CTB: CHeCS Hardware, S/N 1166, B/C 004160J	Radiation Area Monitor Hardware Ziplock Bag	-	-	-	
2		Ziplock	-	-	-	
3		Radiation Area Monitor [QTY:24]	SEZ33111519-313	2356-2379	-	24 blue monitors. To be deployed per procedure.
4		Radiation Area Subpack Assy	SEG46116951-606	-	-	Contains 2 subpack assy
5		New RAM Location Subpack [QTY:2]	SEG46116951-605	-	EHS00013J EHS00035J	Each New RAM Location Subpack contains one New Radiation Area Monitor
6		Radiation Area Monitor [QTY:2]	SEZ33111519-313	2380 2381	-	
Type: Restow			IMS Plan: No			
7	**Transfer List Return Item #726**	Radiation Area Monitor Hardware Ziplock Bag	-	-	-	
8		Radiation Area Monitor [QTY:25]	SEZ 33111519-313	2291-2315	-	25 white monitors. Collected from various locations in ISS per procedure.

**RWS-BUMPER-INSTL						
1.176 RWS VIDEO MONITOR ORU BUMPER INSTALLATION						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD3A2** 2.0 CTB: RWS/CREW PREF, S/N 1087, B/C 010675J	RWS Monitor Bumper Kit [QTY: 3]	843442-551	**Any**	-	**Report S/N to MCC-H**
2		Corner Bumper [QTY: 2 each kit]	842836-551	-	-	
3		3” Long “Loop” Velcro [QTY: 2 each kit]	2538251-7002	-	-	
4		1” Square “Loop” Velcro [QTY: 2 each kit]	2538251-7002	-	-	
5		Connector Bumper [QTY: 2 each kit]	842837-551	-	-	

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**RWS-BOOT-INSTALL						
22-0638 7.2.711 ROTATION HAND CONTROLLER FABRIC BOOT INSTALLATION						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD3A2** 2.0 CTB: RWS/CREW PREF, S/N 1087, B/C 010675J	EMC Boot Kit	204215-551	**Any**	-	**Report S/N to MCC-H**
2		Contact Strip	204213-501	-	-	
3		Upper Clamp	204212-501	-	-	
4		Fabric Boot	204216-501	-	-	
5		Lower Clamp	204214-501	-	-	
6	**NOD1D4**	5/64" Hex Head, 1/4" Drive	SKG33117562-737	-	-	
7		1/8" Hex Head, 1/4" Drive	SKG33117562-740	-	-	
8		(10-50 in-lbs) Trq Wrench, 1/4" Drive	SEG33112395-301	M206422	-	
9		Static Wrist Tether	SKG33117562-335	-	-	
10	**Pregathered Toolset “Jeff” or “TV”**	Driver Handle, 1/4" Drive	SKG33117562-941	-	-	

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N3-WHC-HYG-CVR-INSTL						
22-0750 WHC Node 3 Hygiene Covers Install						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**JLP1P2_B1**	АСУ Panel Cover	SK683-99217-10	-	-	
2		Front Control Panel Cover	SK683-99217-11	-	-	
3		AV3 Power Switch Cover	SK683-99217-12	-	-	
Type: Restow						
4	**JLP1P2_B1**	Ziplock Bag	-	-	-	Removed Hygiene Covers
5		АСУ Panel Cover	683-99217-4	-	BCC00098J	
6		WHC Front Panel Cover	683-99217-6	-	-	
7		AV3 Power Switch Cover	683-99217-7	-	BCC00100J	
8		WHC UOP Cover	683-99217-8	-	BCC00099J	
9		Ziplock Bag	-	-	-	Left over magnets from cover install
10		WHC Hygiene Cover Magnets	-	-	-	

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OGS-QD-CNCT OGS-H2 SNSR-CNCT						
1.912 OGA Activation **22-0751 6.1.901 HYDROGEN SENSOR R&R - OGS RACK**						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD1O4_G**	Hydrogen Sensor ORU	SV826167-1	1005	ARSOH2S5M	
2	**NOD1D4**	(40-200 in-lb) Trq Wrench, 1/4" Drive	-	-	-	
3	**Pregathered Toolset "Jeff" or "TV"**	6" Ext, 1/4" Drive	-	-	-	
4		3/8" Socket, 1/4" Drive	-	-	-	
5		Ratchet, 1/4" Drive	-	-	-	
6		Static Wrist Tether	-	-	-	
Type: Restow						
7	**NOD1O4_G**	Hydrogen Sensor ORU	SV826167-1	1003	ARSOH2S5M	

N3-UIP-CLSOUT-INSTL						
22-0749 NOD3 UIP CLOSEOUT INSTALLATION						
Type: Standard						
#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	NOD1D2	Ziplock: NOD3 Rack Closout	-	-	-	
2		NOD3A5 OGS Rack Closeout	96M35015-1	001	-	
3		NOD3A4 ARS Rack Closeout	96M35016-1	001	-	
4		NOD3D5 WRS1 Rack Closeout	96M35017-1	001	-	
5		NOD3D4 WRS2 Rack Closeout	96M35018-1	001	-	

** MT-PPA LR-RMV						
1.136 NODE 3 MTL PUMP PACKAGE ASSEMBLY (PPA) LAUNCH BRACKET REMOVAL						
Type: Standard						
#	LOCATION	ITEM NAME	P/N	S/N	B/C	Notes
1	NOD1D4	5/16" Combination Wrench	SKG33117562-328	-	-	
2		5/16" Socket, 1/4" Drive	SKG33117562-697	-	-	
3		1/2" Socket, 1/4" Drive	SKG33117562-702	-	-	
4		2" Ext, 1/4" Drive	SKG33117562-763	-	-	
5		10" Ext, 1/4" Drive	SKG33117562-766	-	-	
6		Inspection Mirror	SKG33117562-923	-	-	
7	Pregathered Toolset "Jeff" or "TV"	5/32" Hex Head, 1/4" Drive	SKG33117562-742	-	-	
8		3/16" Hex Head, 1/4" Drive	SKG33117562-743	-	-	
9		4" Ext, 1/4" Drive	SKG33117562-764	-	-	
10		6" Ext, 1/4" Drive	SKG33117562-765	-	-	
11		Ratchet, 1/4" Drive	SKG33117562-939	-	-	
12		Driver Handle, 1/4" Drive	SKG33117562-941	-	-	

Type: Restow						
13	**NOD1P2** 3.0 CTB: Node 3 Vestibule Outfitting kit (VOK), S/N 1048, B/C 004233J	0.5 CTB: NOD3 Uninstalled Hardware	SEG33111836-303	1065	003947J	
14		Ziplock: Node 3 Closeout Panel Launch Bolts	-	-	-	
15		Launch Bolts [QTY: 20]	-	-	-	
16		24" X 24" Ziplock	-	-	-	**LABEL** "AVM Blocking Spacers"
17		U-Shaped AVM Blocking Device Spacer [QTY:2]	N2-DR-OHB 01.21.20.013	-	-	Brackets
18		Small AVM Blocking Device Spacer [QTY:2]	N2-DR-OHB-01.21.20.012	-	-	
19		Large AVM Blocking Device Spacer[QTY:2]	N2-DR-OHB-01.21.20.011	-	-	
20	**NOD3D1**	Shear Frame Assembly	1740ND205	-	-	
21		Diagonal Frame Assembly	1740ND205	-	-	

FIREPORT-UPDATE						
22-0760: Fireport Label Updates						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**NOD1D2** 1.0 CTB: ISS HW #2, S/N 1338, B/C CTB00004J	Ziplock: Rack Fireport Labels. Install Only AFTER Rack Transfer	-	-	-	

ESA Timeline Procedures:
None

JAXA Timeline Procedures:
None

Tasklist Procedures:

BCAT3-CRYSTAL-CHECK						
2.034 BCAT-4 CRYSTAL CHECK FOR SAMPLES 8,9, and 10						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**LAB1O7 Rack Front**	BCAT-3 Slow Growth Sample Module	67041FSM2200	-	00030426L	
2	**LAB1O4_J1** 0.5 CTB BCAT S/N 1240, B/C 010421J	LED Mini Maglight	60107MFA2017	-	00105256L	
3		1.5V Battery Size AA	528-41350-3	-	-	(if required)

WHC-KTO-REPLACE						
2.305 WHC [KTO] R&R						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**FGB Panel 220** or **FGB Floor** or **NOD1O2**	Solid Waste Container – Body (aka KTO Body)	11Φ615.8720A55-20	257 263 264 265 272 275 278 282 304 307 308 309 310 325	- 00112722J 00112724J 00112735J 00116316J 00116313J 00116302J 00116311J 00112744J 00112738J - 00112746J 00112748J 00112736J	This is the list of available KTO Bodies. **REPORT S/N and B/C**
2		Solid Waste Container – Lid (aka KTO Bottom)	11Φ615.8720A55-10	257 258 263	00098427R 00098428R 00112721J	This is the list of available KTO Lids. **REPORT S/N and B/C**

				265 272 274 275 278 282 307 308 309 310 325	00112733J 00098472R 00098474R 00098475R 00098438R 00098442R 00112737J - 00112745J 00112747J -	
3	**LAB1D1**	Solid Waste Container – Body (aka KTO Body)	11Φ615.8720A55-20	305	00112730J	Prepositioned for Install
4		Solid Waste Container – Lid (aka KTO Bottom)	11Φ615.8720A55-10	276	00098436R	
5	**NOD1D4**	Ratchet, 1/4" Drive	SKG33117562-939	-	-	
6		10 mm 6 Pt Socket, 1/4" Drive	SKG33117562-657	-	-	
7		(10-50 in-lbs) Trq Wrench, 1/4" Drive	SEG33112395-301	M206422	-	
Type: Restow						
8	**LAB1S1** TeSS	Solid Waste Container – Body (aka KTO Body)	11Φ615.8720A55-20	-	-	**REPORT S/N and B/C**
9		Solid Waste Container – Lid (aka KTO Bottom)	11Φ615.8720A55-10	-	-	

WHC-ЕДВ-У-R&R						
2.302 WHC ЕДВ R&R						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**LAB1P2** 0.5 CTB S/N 1221, B/C 010402J	Regen ECLSS Tox-2 PPE KIT	SEG42103702-302	1002	CHCCPK02J	
2		Safety Goggles	16644-00000	-	-	
3		Silver Shield Gloves	SSG/10	-	-	
4		Dust Mask	9211	-	-	

5	**Temp Stowed near LAB1P4**	ЕДВ Крышка (EDV Lid)	11Ф615.8711-180A15-1	934	00116325J	Emptied FD10 (GMT 48) during WRS-RFTA-FILL
6		ЕДВ Корпус (EDV Bucket)	11Ф615.8711-120A15-1	458	00116318J	
Type: Restow						
7	**LAB1S1**	ЕДВ Крышка (EDV Lid)	11Ф615.8711-180A15-1	931	00116326J	
8		ЕДВ Корпус (EDV Bucket)	11Ф615.8711-120A15-1	455	00116319J	

PWD-BEV ADPTR-R&R						
22-0309 PWD Beverage Adapter Modification and Install						
Type: Standard						
#	**LOCATION**	**ITEM NAME**	**P/N**	**S/N**	**B/C**	**Notes**
1	**LAB1O4_D1**	PWD Beverage Adapter	SEG33120333-302	1002	-	
2	**NOD1D4**	Ratchet, 1/4” Drive	SKG33117562-939	-	-	
3		5/32” Hex Head, 1/4” Drive	SKG33117562-742	-	-	
Type: Restow						
4	**LAB1O4_D1**	PWD Beverage Adapter	SEG33120333-301	-	-	

JAXA Tasklist Procedures:
None

ESA Tasklist Procedures:
None

Good morning Kay, Terry, & Steve,

You are doing very well on transfer overall, and are now 74 percent complete! Today, there are several hours of transfer scheduled. There are no Transfer List change pages this morning. In your choreography, we have listed all the open items that can be completed today. If you complete all of these open items, you will only have the following open items for hatch closure day; the last 5 MLE bags, the water kit items and a few TBD late-additions. In order for us to finalize what TBD items will be transferred, we need to know how much space we have to work with. That is why we are asking the two questions below.

The Transfer List Excel file, FD11_Transfer_List_STS130.xls, is located on the KFX machine in **C:\OCA-up\transfer** (and available via the **PGSC homepage**).

For ISS, the Transfer List Excel file, FD11_Transfer_List_STS130.xls, is located in **K:\OCA-up\transfer**.

<u>Questions for Kay (please call down answers in your morning transfer time)</u>

1. Please check Bag 406 (3.0 CTB) and let us know about how much space is still available. Do you think an additional CTB would fit in this bag?
2. We are assessing the return of the Node 3 Closeout Panel Launch Bolts but space is becoming limited. Would you be willing to use an empty food locker for returning these?

<u>FD11 Choreography</u>

- Bob: Transfer SAFER to shuttle per SAFER XFER activity (Item 714)
- Nick & Bob: Transfer EVA items to shuttle per EVA RECONFIG & XFER activity (Items 702, 712, 713, and 715)
- XFER OPS:
    - Item 740: Please verify this sample transfer is complete. You are looking for a Fluid Sample Bag with barcode ending in 96016J. We believe it is in Return Bag 404 (currently at NOD2D2), inside an ITCS Sample Return ziplock s/n 1007.
    - These items may be done based on previous activities/calls, please verify:
        - Old CDRA bed (Item 608)
        - PWR CTB with foam (Item 725) (may have been done on FD04)
    - Transfer returning RFTA (Item 732)
    - Per FD08 Transfer Brief, please check on whether item 611 is complete
    - Final stow of Pre-Treat tank, already on MDDK (Item 723)
    - Relocate entry garments (Item 38)
    - Transfer Return to Houston Imagery ziplock if ready (Item 727)
    - Continue other available return items (Item 404, 406, 610, 902)

Have a great day!

- The 20A Transfer Team

20A Transfer Choreography

FD12

- Jeff: Transfer returning blood sample per BLD STW activity (Item 704)
- TJ: Transfer returning saliva sample per SLV STW activity (Item 728)
- Steve: Transfer AFD PCS per AFT PCS XFER activity (Item 39)
- Steve: Transfer SSC back to ISS during SSC RETURN activity (Item 804)
- Soichi: Transfer returning RAMs to shuttle per RAM INSTALL activity (Item 726)
- Soichi: Transfer DCBs to shuttle per DCB-TRANSFER activity (Item 709 and 710)
- XFER OPS:
    - Complete water hardware transfers (Items 24, 25, 801, 729, and 735)
    - Transfer remaining 5 MLE bags (Items 408 and 701)

5 MLE Bag Plan (9 total)

- Bags B & H: to Columbus for temp stow (as needed)
- Bag F: to Columbus permanently (return prepacked 5 MLE in its place)
- Bags C, D & E: remain on shuttle for unpacking/repacking
- Bag A: contains UPA DA, temp stow in JEM for FD04
- Bags G & I: handled via EVA procedures (G will be temp stowed in Node 1)

22-0738: STS-130/20A EVA Restow & 19A Tool Config

OVERVIEW: This message is designed to restow the tools deployed for the 20A EVAs and configure for the 19A EVAs.

PROCEDURE:

1. **Perform** STS-130 EVA CHECKLIST: FS 8 -16 CREW TETHER INSPECTIONS, Parts 1 and 2 only for all Waist and Safety tethers and D-ring extenders
2. **Perform** STS-130 EVA CHECKLIST: FS 8 - 22 BRT INSPECTION for all used BRTs
3. **CONFIRM** that there is a D-Ring Extender on A/L D-Ring.
4. **REMOVE** all tethers from all bags and MWS and **STOW** them on the tether staging area. Also **TEMP STOW** any wire ties you conside re-usable for 19A.
5. **MOVE** any items inside the "**20A Tools EVA 1**", "**20A Tools EVA 2**", "**20A Tools EVA 3**" mesh bags, crewlock bags, and deployed ORU bags into the "**Done Tools**" mesh bag.
6. **REMOVE** labels from Crewlock Bags.
7. **RELABEL** an empty mesh bag: **"19A Tools".**
8. **COMPLETE** Tables A - H.
9. **REPORT** to MCC-H when activity is complete, the requested S/N information, and any deltas.

Table A: Configure EV1 MWS

Item #	☑	Location	Item	QTY	P/N	S/N	B/C	Final Location	Notes
1		**EV1**	MWS Baseplate [Modular Baseplate Assembly]	1	SEG33110490-303	1001	00008735J	**EV1**	
2			MWS T-Bar	1	SEG33110493-305	1030	00018621J		
3			Small EVA Trash Bag	1	SEG33106678-301	1006	-		**CONFIRM** empty & zipped up.
4			Swing Arm Assy, RH	1	SEG33110491-307	1004	-		
5			PGT	1	GE1557000	-	-		**REPORT** large ID # to MCC-H.
6			7/16 x 6" Wobble	1	SEG33106931-301	1019	004343J		
7			Body Restraint Tether [BRT Assembly]	1	SEG33110400-309	1017	-		
8		**A/L1D2** Tether Staging Area	Eq Hk RET [Sm-Sm]	3	SEG33106164-381	-	-		**Use Red RETs** **STOW** 1 on the BRT, 1 on the T-Bar, and use one to connect the PGT to the swing arm.
9			Eq Hk RET w/Pip Pin	1	SEG33106164-383	-	-		**Use Red RETs** **STOW** on the T-Bar.
10			Adjustable Equipment Tether [Sm-Sm]	2	SEG33106945-307	-	-		**STOW** directly on the T-Bar.

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11		**Temp Stowed** (used for 20A) or **A/L1O0** Ziplock	Wire Ties [Short]	5	SDG33108130-001	-	-	**EV1**	**STOW** (don't configure) 2 wire ties on BRT and 3 on the T-bar.

EV1:

- ◻ MWS - (Item #1)
  - ◻ T-Bar - (Item #2)
    - ◻ RET (eq-eq) - (Item #8)
    - ◻ RET w/PIP Pin - (Item #9)
    - ◻ Adj Equip Tether (2) - (Item #10)
    - ◻ Wire Tie (3) - (Item #11)
    - ◻ Small EVA Trash Bag - (Item #3)
  - ◻ Swing Arm (R) - (Item #4)
    - ◻ RET (eq-eq) - (Item #8)
      - ◻ PGT w/6-in ext - (Item #5 & #6)
  - ◻ BRT (L) - (Item #7)
    - ◻ RET (eq-eq) - (Item #8)
    - ◻ Wire Tie (2) - (Item #11)

REPORT any additional items found to MCC-H.

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Table B: Configure EV2 MWS

Item #	☑	Location	Item	QTY	P/N	S/N	B/C	Final Location	Notes
12		**EV2**	MWS Baseplate [Modular Baseplate Assembly]	1	SEG33110490-303	1002	-	**EV2**	
13			MWS T-Bar	1	SEG33110493-305	1006	-		
14			Small EVA Trash Bag	1	SEG33106678-301	1007	-		**CONFIRM** empty & zipped up.
15			PMA3 Connector Cap	1	NZGL-PPC-N-25-R	P603	-	**N1P2 Node 3 Uninstalled Hardware**	Place in ziplock bag and label "PMA3 connector cap". **Stow** in Half CTB 1065, inside 3.0 CTB 1048 labeled Node 3 uninstalled hardware
16			Swing Arm Assy, RH	1	SEG33110491-307	1003	-		
17			PGT	1	GE1557000	-	-		**REPORT** large ID # to MCC-H.
18			7/16 x 6" Wobble	1	SEG33106931-301	1007	-		
19			Body Restraint Tether [BRT Assembly]	1	SEG33110400-309	1021	-		

20		**A/L1D2** Tether Staging Area	Eq Hk RET [Sm-Sm]	2	SEG33106164-381	-	-	**EV2**	**Use Red RETs** **STOW** 1 on the BRT and 1 on T-Bar.
21			Eq Hk RET w/Pip Pin	2	SEG33106164-383	-	-		**Use Red RETs** **STOW** one on the T-Bar and use one to attach the PGT to the Swing Arm.
22			Adjustable Equipment Tether [Sm-Sm]	1	SEG33106945-307	-	-		**STOW** 1 directly on the T-Bar.
23		**Temp Stowed** (used for 20A) or **A/L1O0** Ziplock	Wire Ties [Short]	4	SDG33108130-001	-	-		**STOW** (don't configure) 2 wire ties on BRT and 2 on the T-bar.

EV2:

- MWS - (Item #12)
  - T-Bar - (Item #13)
    - RET (eq-eq) - (Item #19)
    - RET w/PIP Pin - (Item #20)
    - Adj Equip Tether - (Item #21)
    - Wire Tie (2) - (Item #22)
    - Small EVA Trash Bag - (Item #14)
  - Swing Arm (R) - (Item #15)
    - RET w/PIP Pin - (Item #20)
      - PGT w/6-in ext - (Item #16 & #17)
  - BRT (L) - (Item #18)
    - RET (eq-eq) - (Item #19)
    - Wire Tie (2) - (Item #22)

REPORT any additional items found to MCC-H.

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Table C: Configure Crewlock Bag #1

Item #	☑	Location	Item	QTY	P/N	S/N	B/C	Final Location	Notes
24		**A/L1D2** Tether Staging Area	Lg-Eq RET [Lg-Sm]	1	SEG33106164-385	-	-	**Crewlock Deployed**	**Use Red RET**.
25		**A/L Crewlock**	Crewlock EVA Bag #1	1	SEG33111751-301	1001	-		**STOW** on Lg-Eq RET.
26		**A/L1D2** Tether Staging Area	Adjustable Equipment Tether [Sm-Sm]	4	SEG33106945-307	-	-	**Crewlock Deployed** Crewlock Bag #1	**STOW 4** on the outside of Crewlock Bag #1
27			Safety Tether 55ft	1	SEG33106674-307	-	-		**REPORT** large ID # used to MCC-H. **STOW** one on the outside of Crewlock Bag #1.
28			Eq Hk RET [Sm-Sm]	1	SEG33106164-381	-	-		**Use Red RET.** **STOW** inside Crewlock Bag #1 for cameras.
29		**A/L1O0** 1.0 CTB: EVA Miscellaneous Tools #2, S/N 1161, B/C 004155J	Round Scoop	1	SEG33107677-301	-	-		**STOW** inside Crewlock Bag #1 for MPAC/SEED.

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30		**A/L Deployed** (Mesh Bag: Done Tools)	EVA Ratchet	1	SEG33106927-303	1015	-	**Crewlock Deployed** Crewlock Bag #1	**STOW** inside Crewlock Bag #1 on Int RET. Verify no Palm Wheel.
31			7/16 x 2" Rigid	1	SEG33106930-301	1008	-		**STOW** on EVA Ratchet on Int RET.
32		**A/L Crewlock** Staging Bag	Pry Bar	1	SDG33106924-001	1004	00001199J		**STOW** inside Crewlock Bag #1 on Int RET.
33		**A/L1O0** 1.0 CTB: EVA Miscellaneous Tools #2, S/N 1161, B/C 004155J	EVA Ratchet	1	SEG33106927-303	1012	-		**STOW** inside Crewlock Bag #1 on Int RET. See next line for 2" socket install **Report** s/n of Palm Wheel and stow in 1.0 CB 1161.
34			7/16 x 2" Rigid	1	SEG33106930-301	1006	-		**STOW** on EVA Ratchet on Int RET.
35			Round Torque Multiplier	1	SEG33106260-301	1002	-		**STOW** inside Crewlock Bag #1
36			7/16" Socket Flush Round Torque Multiplier	1	SDG33107087-003	1012	-		**STOW** inside Crewlock Bag #1 on Round Torque Multiplier.
37		**A/L1D2** Tether Staging Area	Adjustable Fuse Tether [Fish Stringer]	1	SED39127200-705	-	-		**STOW** inside Crewlock Bag #1.
38		**A/L1D2** 1.0 CTB: Unique EVA Tools, S/N 1022, B/C 002317J	NH3 QD Cap	2	1F45580-1	314 315	-		**STOW** inside Crewlock Bag #1 on Fish Stringer.
39			NH3 QD Cap	2	1F45580-501	Any	-		**STOW** inside Crewlock Bag #1 on Fish Stringer.

Crewlock Bag #1:

- ◻ RET (Lg-sm) - (Item #23)
  - ◻ C/L bag - (Item #24)
    - ◻ Adj Tether (outside – tie down) (2) - (Item #25)
    - ◻ RET (sm-sm) - (Item #27)
    - ◻ Adj Tether (outside – MPAC/SEED) - (Item #25)
    - ◻ Adj Tether (outside – MPAC/SEED) - (Item #25)
      - ◻ Round Scoop - (Item #28)
    - ◻ 55-ft Safety Tether - (Item #26)
    - ◻ Ratchet (No Palm Wheel) (Int RET #1) - (Item #29)
      - ◻ 7/16-2-in rigid ext - (Item #30)
    - ◻ Round TM (Int RET #2) - (Item #33)
      - ◻ 7/16-in Flush Socket - (Item #34)
    - ◻ Prybar (Int RET #3) - (Item #31)
    - ◻ Ratchet (No Palm Wheel) (Int RET #4) - (Item #35)
      - ◻ 7/16-2-in rigid ext - (Item #32)
    - ◻ Fish Stringer - (Item #36)
      - ◻ 1/4-in Fluid Caps (2) - (Item #37)
      - ◻ 1/2-in Fluid Caps (2) - (Item #38)

REPORT any additional items found to MCC-H.

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Table D: Configure Large ORU Bag

Item #	☑	Location	Item	QTY	P/N	S/N	B/C	Final Location	Notes
40		**A/L Deployed**	ORU Transfer Bag Large	1	SEG33114494-307	1002	00008707J	**Crewlock Deployed**	
41		**A/L1D2** Tether Staging Area	Safety Tether 55ft	1	SEG33106674-307	-	-		**REPORT** large ID # used to MCC-H. **STOW** in Large ORU Bag.
42			Eq Hk RET [Sm-Sm]	2	SEG33106164-381	-	-		**Use Red RETs** **STOW** in Large ORU Bag.
43			Adjustable Equipment Tether [Sm-Sm]	1	SEG33106945-307	-	-		**STOW o**n outside of Large ORU Bag.
44			Lg-Eq RET [Lg-Sm]	1	SEG33106164-385	-	-		**Use Red RET**. **STOW** on outside of Large ORU Bag.

Large ORU Bag:

- ◻ RET (Lg-sm) - (Item #43)
  - ◻ Large ORU bag - (Item #39)
    - ◻ Adj Tether (outside – tie down) (Lower Right Loop)
    - ◻ RET (sm-sm) - (Item #41)
    - ◻ RET (sm-sm) - (Item #42)
    - ◻ 55-ft Safety Tether (Attach inside - ERCM outside) - (Item #40)

REPORT any additional items found to MCC-H.

Table E: Confirm Staging Bag Config

Item #	☑	Location	Item	QTY	P/N	S/N	B/C	Final Location	Notes
45		**A/L Crewlock** Staging Bag	Adjustable Fuse Tether [Fish Stringer]	1	SED39127200-705	1011	-	**A/L Crewlock** Staging Bag	
46			Tape and Velcro Caddy	1	SED33104207-301	1005	-		
47			PGT	1	GE1557000	-	-		**REPORT** large ID # to MCC-H.
48			7/16 x 6" Wobble	1	SEG33106931-301	1018	-		
49			EVA Ratchet	1	SEG33106927-303	1012	-		
50			7/16 x 9" Rigid	1	SEG33106930-305	1013	001956J		
51			HAMMER	1	SEG33106917-301	1001	-		
52			Adjustable Fuse Tether [Fish Stringer]	1	SED39127200-705	1032	-		
53			Connector Cleaner Tool Kit	1	SJG33111630-301	1010	-		
54			Pin Straightener Assy	1	SEG33106913-301	1001	001948J		
55			PROBE	1	SEG33106923-701	1001	-		
56			MMWS Key Strap Assembly	1	SEG33110812-301	1008	00008653J		
57			Wire Tie Caddy Assy	1	SEG33111586-301	1005	-		**CONFIRM** that this caddy contains 9 wire ties.
58			Needle Nose Pliers	1	SEG33106921-301	1007	-		

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59		**A/L Crewlock** Staging Bag	WIF Adapter	1	SEG33106863-309	1015		**A/L Crewlock** Staging Bag	
60			Vise Grip Pliers	1	SEG33106922-301	1001	-		
61			Safety Tether 55ft	1	SEG33106674-307	-	-	**A/L1D2** Tether Staging Area	**REPORT** large ID # to MCC-H.
62		**A/L1D2** Tether Staging Area	Safety Tether 85ft	1	SED33116109-307	-	-	**A/L Crewlock** Staging Bag	**REPORT** large ID # to MCC-H.
63			Eq Hk RET [Sm-Sm]	1	SEG33106164-381	-	-		
64		**A/L1D2** 1.0 CTB: Unique EVA Tools, S/N 1022, B/C 002317J	BRS Tool	1	SEG33113644-305	1001	-		
65		**A/L1O0** 1.0 CTB: EVA Miscellaneous Tools #2, S/N 1161, B/C 004155J	Cheater Bar	1	SEG33106926-301	1002	-		
66		**A/L Deployed** (Mesh Bag: Done Tools)	LDTD Tether	1	SEG33113860-301	-	-		**REPORT** s/n to MCC-H
67		**A/L1O0** 1.0 CTB: EVA Miscellaneous Tools #2, S/N 1161, B/C 004155J	Right Angle Drive	1	SEG33106925-305	1009	-		

Staging Bag:

- ◻ Fish Stringer - (Item #44)
  - ◻ Wire Tie Caddy (Hook #1) - (Item #56)
  - ◻ Velcro/Tape Caddy (Hook #2) - (Item #45)
  - ◻ PGT (Hook #3) - (Item #46)
    - ◻ 7/16 (wobble) Socket-6 ext - (Item #47)
  - ◻ Vise Grips (Hook #4) - (Item #59)
  - ◻ Ratchet Wrench (Hook #5) - (Item #48)
    - ◻ 7/16 (rigid) Socket-9 ext - (Item #49)
  - ◻ Needle Nose Pliers (Hook #6) - (Item #57)
  - ◻ Spare WIF Adapter (Hook #7) - (Item #58)
  - ◻ Spare 85-ft Safety Tether - (Item #61)
- ◻ Fish Stringer - (Item #51)
  - ◻ Connector Cleaner Tool Kit (Hook #1) - (Item #52)
  - ◻ Pin Straightener Assy (Hook #2) - (Item #53)
  - ◻ Probe w/Sheath (Hook #3) - (Item #54)
  - ◻ Hammer (Hook #4) - (Item #50)
  - ◻ Cheater Bar (Hook #5) - (Item #64)
  - ◻ BRS Pin Tool (Hook #7) - (Item #63)
  - ◻ MWS Key Strap Assy (on Wire tie, to strap) - (Item #56)
  - ◻ Long Duration Tie-Down Tether - (Item #64)
- ◻ RET (sm-sm) - (Item #62)
  - ◻ Right Angle Drive - (Item #66)

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REPORT any additional items found to MCC-H.

Table F: Confirm IV Bag Config

Item #	☑	Location	Item	QTY	P/N	S/N	B/C	Final Location	Notes
68		**A/L Crewlock** IV Bag	ISS Contamination Detection Kit	1	SJG39136050-302	1001	-	**A/L Crewlock** IV Bag	**CONFIRM** contents and configuration of IV Bag. Black RETs stay in this bag (not for EVA).
69			Towel [Wrapped with short wire tie]	2	-	-	-		
70			Eq Hk RET [Sm-Sm]	1	SEG33106164-381	4062	-		
71			SAFER Hand Controller Mount [DCM Plug]	1	SV1006962-2	'00004	00051187J		
72			SAFER Hand Controller Mount [DCM Plug]	1	SV1006962-2	'00007	00059995J		
73			Eq Hk RET [Sm-Sm]	1	SEG33106164-381	4063	-		
74			ISS GP Caddy	1	SEG33113531-301	1008	-		
75			Adjustable Thermal Mitten	1	0106-811540-03	'022	EMUG15J		
76			Adjustable Thermal Mitten	1	0106-811540-04	'022	EMUA16J		
77			ISS GP Caddy	1	SEG33113531-301	1010	-		
78			Adjustable Thermal Mitten	1	0106-811540-03	'023	EMUG19J		
79			Adjustable Thermal Mitten	1	0106-811540-04	'023	EMUG20J		
80			Eq Hk RET [Sm-Sm]	1	SEG33106164-381	4073	-		
81			Socket Caddy Assy	1	SEG33106938-301	1011	-		
82			1/2 x 8" Wobble	1	SEG33108423-301	1004	-		
83			7/16 x 6" Wobble	1	SEG33106931-301	1014	-		
84			Ammonia Contamination Cue Card						

IV Bag:

- ☐ Ammonia Contamination Cue Card - (Item #83)
- ☐ 2 - Towels - (Item #68)
- ☐ Contamination Detection Kit - (Item #67)
- ☐ RET (sm-sm, black) - (Item #69)
  - ☐ 2 - DCM Plug - (Item #70 & 71)
- ☐ RET (sm-sm, black) - (Item #72)
  - ☐ 2 - GP Caddy - (Item #73 & #76)
    - ☐ 2 - Adjustable Thermal Mittens - (Item #74, #75, #77, & #78)
- ☐ RET (sm-sm, black) - (Item #79)
  - ☐ Socket Caddy - (Item #80)
    - ☐ 1/2-in Socket-8 ext - (Item #81)
    - ☐ 7/16 (wobble) Socket-6 ext - (spare) (Item #82)

REPORT any additional items found to MCC-H.

Table G: Configure 19A EVA tools Mesh Bag

Item #	☑	Location	Item	QTY	P/N	S/N	B/C	Final Location	Notes
85		**NOD1D2**	Mesh Bag	1	SKD13101494-305	-	-	**Crewlock Deployed**	**Label** "19A EVA tools "
86		**A/L1O0** 1.0 CTB: EVA Miscellaneous Tools #2, S/N 1161, B/C 004155J	1/4"X1/2" Allen Driver [MMOD Shield T-Handle (Short)]	1	SED39127091-301	1003	00001995J	**Crewlock Deployed** Mesh Bag: 19A EVA tools	
87			Socket Caddy Assy	2	SEG33106938-301	1001 1010	001945J		
88			5/8 x 7.8" Rigid	1	SEG33106934-301	1002	-		**Stow** in Socket Caddy S/N 1001.
89		**A/L Deployed** (Mesh Bag: Done Tools)	SQUARE SCOOP	1	SEG33106330-301	1001	004281J		
90		**A/L1O0** 1.0 CTB: EVA Miscellaneous Tools #1, S/N 1075, B/C 004069J	Worksite Interface Adapter	1	SEG33106863-309	1013	-		
91		**EV1**	Tether Extension Assembly [D-Ring Extender]	2	SEG33112321-701	1006 1001	-		
92		**EV2**	Tether Extension Assembly [D-Ring Extender]	2	SEG33112321-701	1007 1010	-		-

19A Mesh Bag:

- ☐ Mesh Bag - (Item #84)
  - ☐ Short MMOD Shield T-handle - (Item #85)
  - ☐ Socket Caddy - (Item #86)
  - ☐ Socket Caddy - (Item #86)
    - ☐ 5/8 x 7.8-in rigid socket (Center Post) - (Item #87)
  - ☐ Square Scoop - (Item #88)
  - ☐ WIF Adapter - (Item #89)
  - ☐ D-Ring Extender (4) - (Items #90 & #91)

REPORT any additional items found to MCC-H.

Table H: Restow items from 20A Done Tools Mesh Bag and A/L Deployed

Item #	☑	Location	Item	QTY	P/N	S/N	B/C	Final Location	Notes
93		**A/L Deployed**	Wire Ties [Long]	ALL	SDG33108130-003	-	-	**A/L1O0** Ziplock	**RESTOW** all temp stowed wire ties that were not used for the 19A config.
94			Wire Ties [Short]	ALL	SDG33108130-001	-	-	**A/L1O0** Ziplock	
95		**A/L Deployed** (Mesh Bag: Done Tools)	SMALL QD BAIL LEVER	1	SDG33113838-703	1004	-	**A/L1O0** 1.0 CTB: QD Trainer, S/N 1258, B/C 010594J	**CONFRIM** that there are no other Small QD Bail Levers in this CTB.
96			1.0-IN QRT	1	SEG33114616-701	1002	-		**CONFRIM** that there are no other 1.0 Inch QRTs in this CTB.
97			1.0 Inch BDT	1	SEG33114987-301	1001	-		
98			QD AKT	1	SEG33114982-301	1005	-		
99			1 N2 Vent Tool	1	1F98596-1	2	-		**STOW** inside Crewlock Bag #1 on RET.
100			Wire Tie Caddy Assy	1	SEG33111586-301	1003	-	**A/L1O0** 1.0 CTB: MWS Hardware, S/N 1013, B/C 002308J	**CONFIRM** that this caddy contains 9 wire ties.
101			Trash Bag Large	2	SEG33106937-301	1012 1001	-	**A/L1O0** 1.0 CTB: EVA Miscellaneous Tools #1, S/N 1075, B/C 004069J	**CONFIRM** Empty

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102		**A/L Deployed** (Mesh Bag: Done Tools)	~~Plug Protective Cover w Tether Ring~~	~~3~~	-	-	-	**A/L1D2** 1.0 CTB: Unique EVA Tools, S/N 1022, B/C 002317J	~~Inside Ziplock Bag labeled "PMA 3 Heater Cable Cover Protective Caps"~~
103			Connector Cap Size 17	1	1F00918-1	-	-		Inside Ziplock Bag labeled "PMA 3 Heater Cable Cover Protective Caps"
104			1" QD Cap	4	1F45580-505	-	-		
105			1" QD Plug	4	1F45581-505	-	-		
106			Medium ORU Transfer Bag	1	SEG33114494-309	1004	00008694J -	**Crewlock Deployed**	
107			7/16 x 12" Wobble	1	SEG33106932-301	1007	-	**A/L1O0** 1.0 CTB: EVA Miscellaneous Tools #2, S/N 1161, B/C 004155J	
108			7/16 x 18" Wobble	1	SEG33106933-301	1007	-		
109			SQUARE SCOOP	1	SEG33106330-301	1002	004286J		
110			NPV Base Plate	1	220F01107-003	-	-	**NOD1P4_C1** 1.0 CTB: MISC External Hardware, S/N 1445, B/C CTB00135E	
111			MLI Cover [from NPV Base Plate]	1	683-11615-25	-	-		
112			Jumper Bag	1	684-014024-0001	-	-	**COL1D2** 5 MLE Bag F	These items may be deployed loose in the A/L.
113			Cupola MLI	2	3000CN005-801	00001 00002	-		
114			PCBM Contamination Cover	8	683-13603-1 683-13603-2 683-13603-3 683-13603-4	-	-		
115			Adjustable Fuse Tether [Fish Stringer]	2	SED39127200-705	1029 1030	-	**A/L1D2** Tether Staging Area	
116			Crewlock EVA Bag	3	SEG33111751-301	-	-	**A/L Endcone**	

OBJECTIVE:
Install Fabric Boot to Rotation Hand Controller (RHC) on Robotic Workstation (RWS) to protect RHC circuitry from radiation. It is assumed that RWS powerdown has been completed and that RWS powerup can occur after completion of this procedure. Does not include diagnostic steps following RHC reinstall.

LOCATION:
LAB

DURATION:
45 minutes Total Crew Time
- 30 minutes Remove and Install RHC
- 15 minutes Install Fabric Boot

CREW:
One

PARTS:
EMC Boot Kit (P/N 204215-551):
- Contact Strip P/N 204213-501
- Upper Clamp P/N 204212-501,-503,-505
- Fabric Boot P/N 204216-501
- Lower Clamp P/N 204214-501,-503

MATERIALS:
Ziplock Bag

TOOLS:
Digital Camera
ISS IVA Toolbox:
Drawer 2:
- Driver Handle, 1/4" Drive
- 5/64" Hex Head, 1/4" Drive
- 1/8" Hex Head, 1/4" Drive
- (10-50 in-lbs) Trq Wrench, 1/4" Drive

Drawer 5:
- Static Wrist Tether

Figure 1.- Final Configuration of RHC with Fabric Boot Installed.

1. SAFING

1.1 If at LAB1S5

√**MCC-H**
RPCM LAS52A3B_A RPC 18 is open, close cmd inh.

1.2 If at LAB1P5

√**MCC-H**
RPCM LAP51A4A_A RPC 18 is open, close cmd inh.

PCS 1.3 Verify PCS switched to Battery power.

1.4 Powering Down PCS

sel PCSCDS Main

PCSCDS Main Control Panel

sel Commands
sel Shutdown

Verify Shutdown

sel Yes

NOTE
A shutdown nominally powers off the PCS. There are two beeps and scrolling DOS style writing prior to the screen going blank and a final beep. After the final beep, the PCS should be powered off.

At the taskbar on bottom of display
sel Start
sel Shutdown

Shutdown Menu

sel Shutdown

Wait for the screen to go blank and the PCS to beep.

2. REMOVING ROTATION HAND CONTROLLER

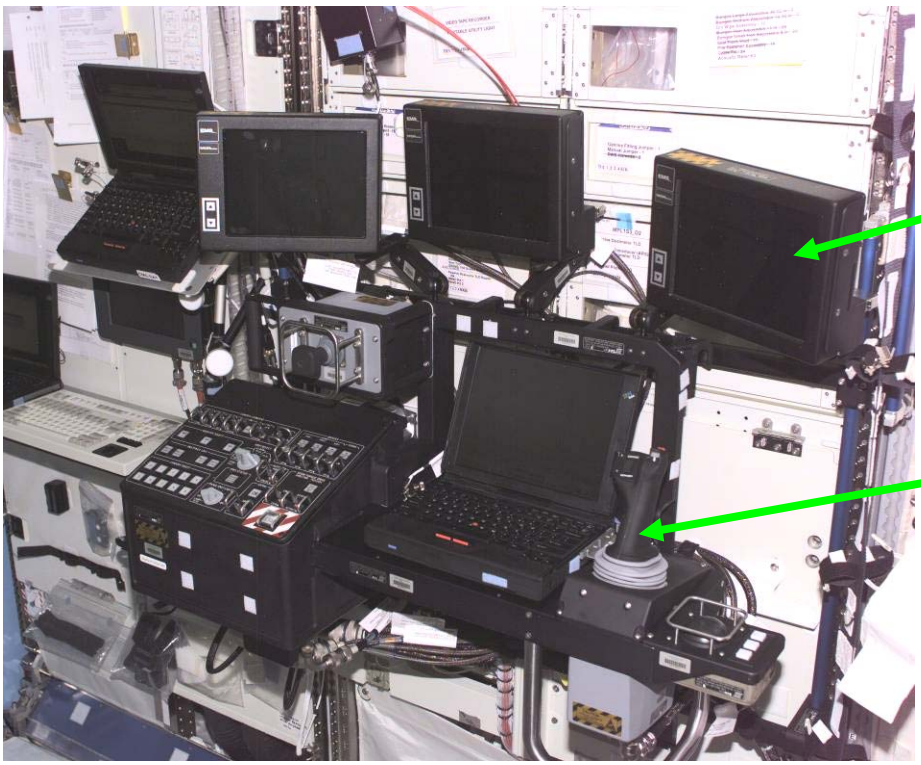


Figure 2.- RWS Video Monitor ORUs.

NOTE
The Rotation Hand Controller must be removed to install the Fabric Boot.

2.1 If required, reposition Right Video Monitor ORU to gain access to Rotation Hand Controller.
Refer to Figure 2.

2.2 Don Static Wrist Tether.
Secure to unpainted, unanodized metal surface.

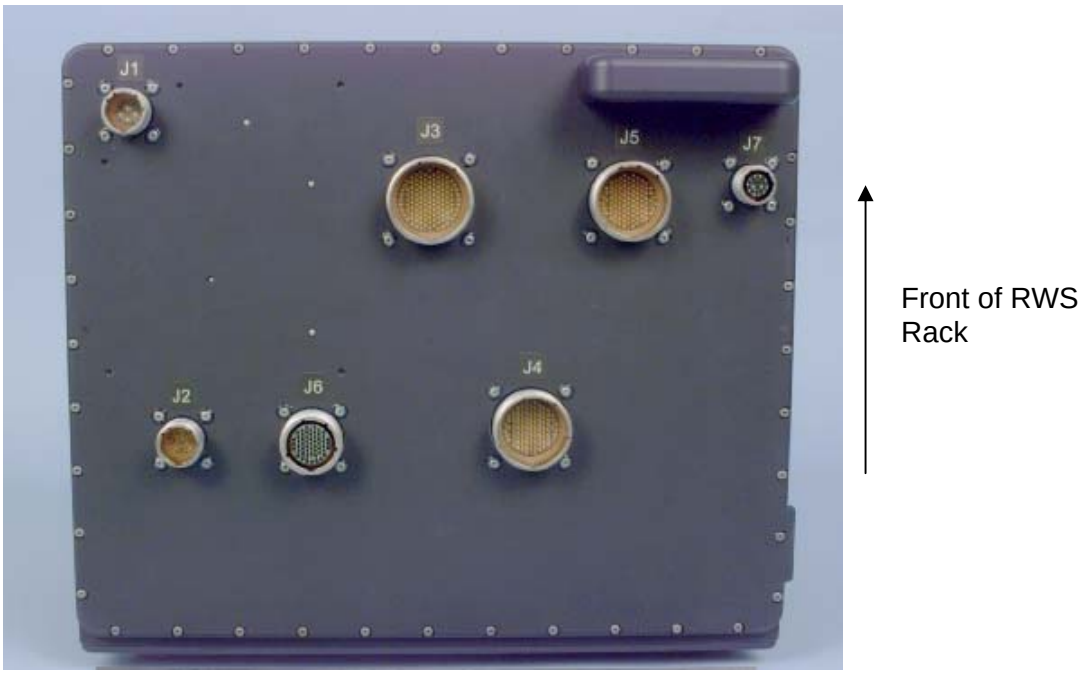


Figure 3.- Bottom View of DCP.

2.3 If at LAB1S5

1J00137-1-P1 ←|→ J1 on DCP
1J00138-1-P2 ←|→ J2 on DCP
W1193-P4 ←|→ J3 on DCP
Refer to Figure 3.

2.4 If at LAB1P5

1J00137-1-P1 ←|→ J1 on DCP
1J00138-1-P2 ←|→ J2 on DCP
W1293-P4 ←|→ J3 on DCP
Refer to Figure 3.

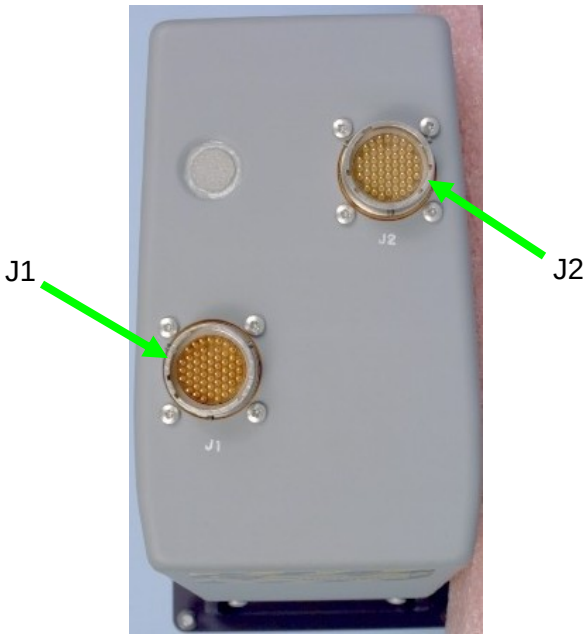


Figure 4.- Bottom Side of Rotation Hand Controller Showing Connectors.

2.5 W01RHP01 ←|→ J1 on Rotation Hand Controller
W01RHP02 ←|→ J2 on Rotation Hand Controller
Refer to Figure 4.

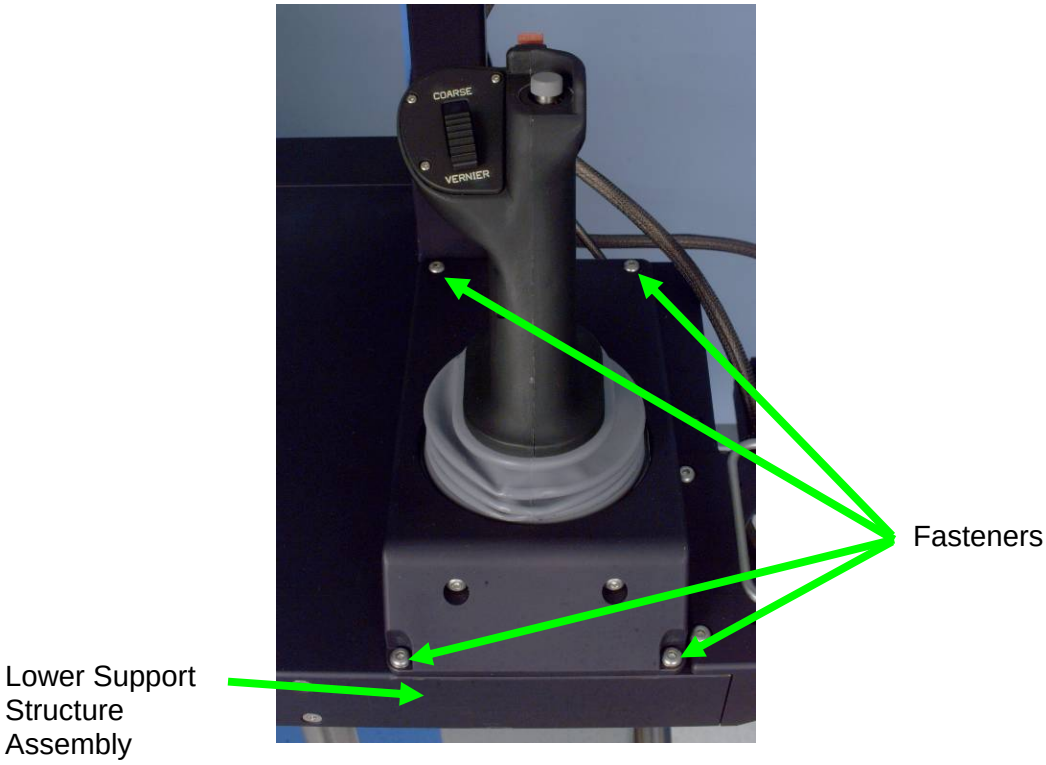


Figure 5.- Rotation Hand Controller Fasteners.

2.6 Remove Rotation Hand Controller, fasteners (four) (Driver Handle, 1/4" Drive; 1/8" Hex Head, 1/4" Drive).
Refer to Figure 5.

NOTE
Fasteners securing RHC bezel to housing are non-captive and have associated washers. Care should be taken when removing bezel.

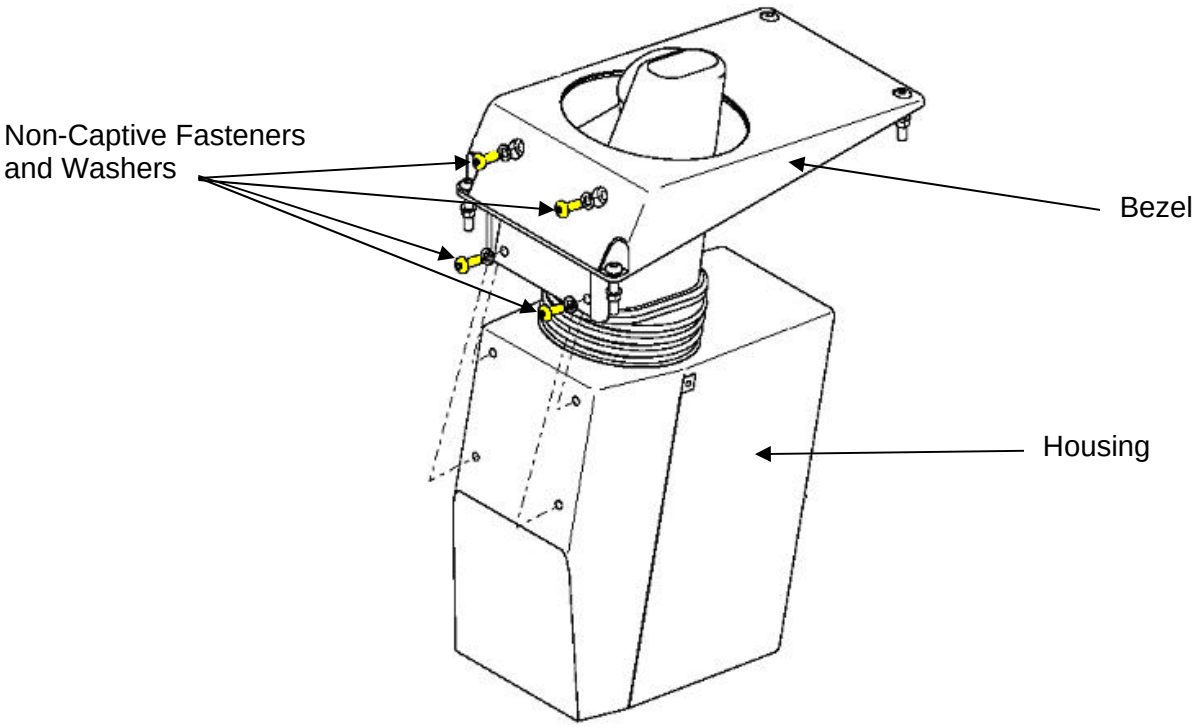


Figure 6.- RHC Bezel Removal.

2.7 Remove non-captive fasteners (four), washers (four) securing RHC bezel to housing and place fasteners (four), washers (four) in Ziplock Bag (Driver Handle, 1/4" Drive; 1/8" Hex Head, 1/4" Drive).
Refer to Figure 6.

3. INSTALLING CONTACT STRIP

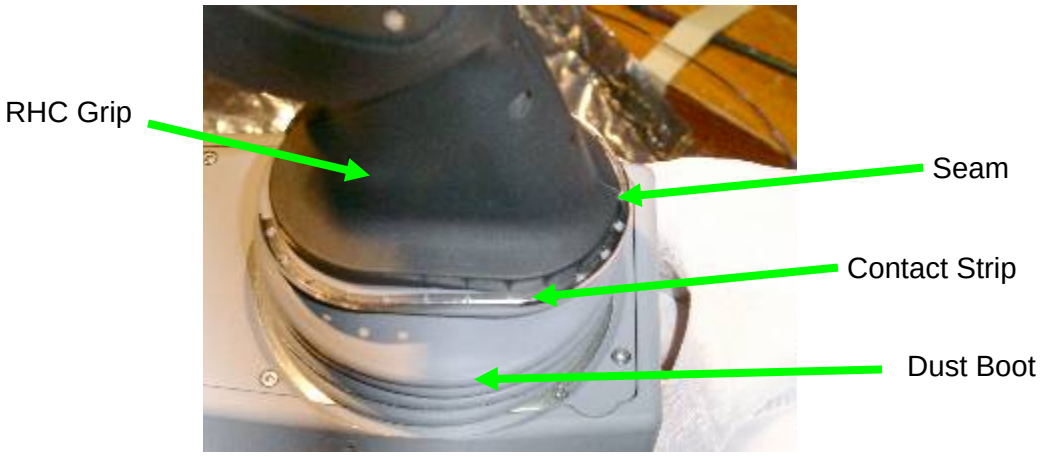


Figure 7.- Contact Strip on RHC.

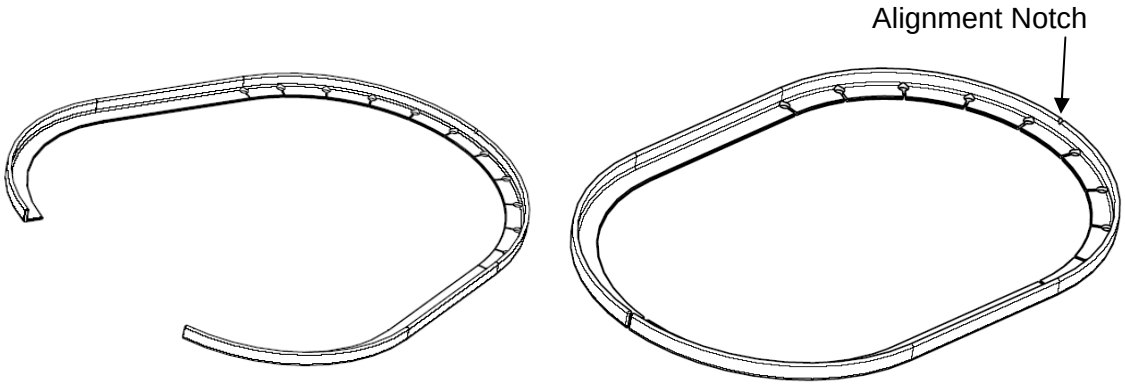


Figure 8.- Contact Strips showing Alignment Notch.

3.1 Place Contact Strip between RHC grip and dust boot.
Insert closed end of Contact Strip first, aligning alignment notch on Contact Strip with seam on RHC Grip and dust boot.
Refer to Figures 7, 8

3.2 Press Contact Strip into place gradually working toward open end.
Refer to Figure 8.

4. INSTALLING UPPER CLAMP AND FABRIC BOOT

NOTE
The Fabric Boot is partially stitched to the Upper Clamp Assembly to minimize the total number of loose parts.

Figure 9.- Fabric Boot and Upper Clamp.

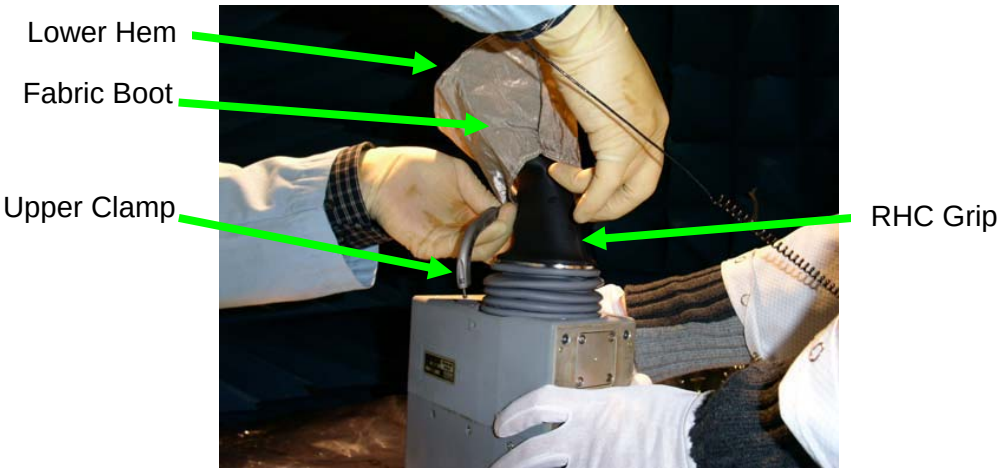


Figure 10.- Fabric Boot and Upper Clamp Placement.

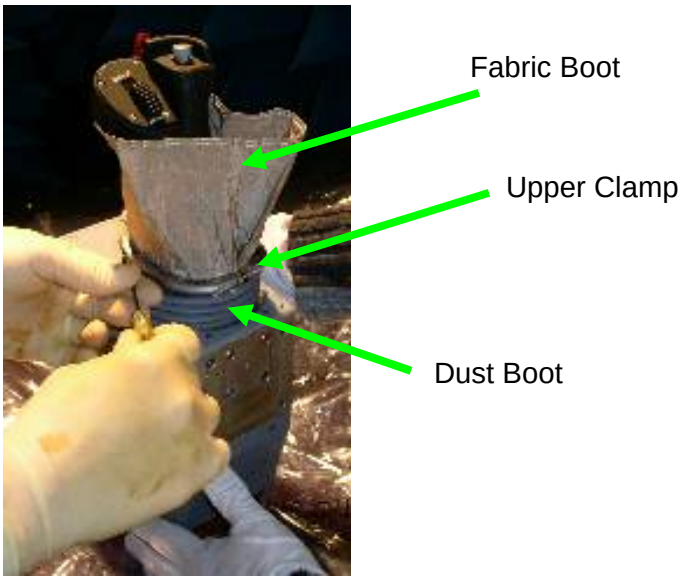


Figure 11.- Upper Clamp Installation.

4.1 Place Fabric Boot (Upper Clamp end first), over RHC grip.
Refer to Figures 9, 10, 11.

4.2 Position Upper Clamp such that Contact Strip sits within inner groove of Upper Clamp.
Ensure lower hem of Fabric Boot at same height around entire perimeter.
Refer to Figures 10,11.

4.3 Alternately tighten fasteners (three) on Upper Clamp (Driver Handle,1/4" Drive, 5/64" Hex Head, 1/4" Drive).
Refer to Figure 11.
Photo document Upper Clamp in configuration similar to Figure 11 (Digital Camera).

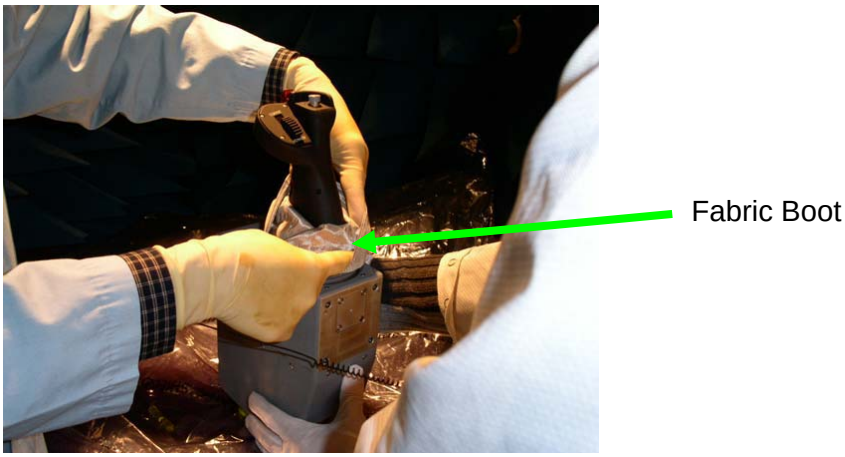


Figure 12.- Fabric Boot Folded Over Dust Boot.

4.4 Fold Fabric Boot down over Upper Clamp to cover entire dust boot. Refer to Figure 12.

5. INSTALLING LOWER CLAMP

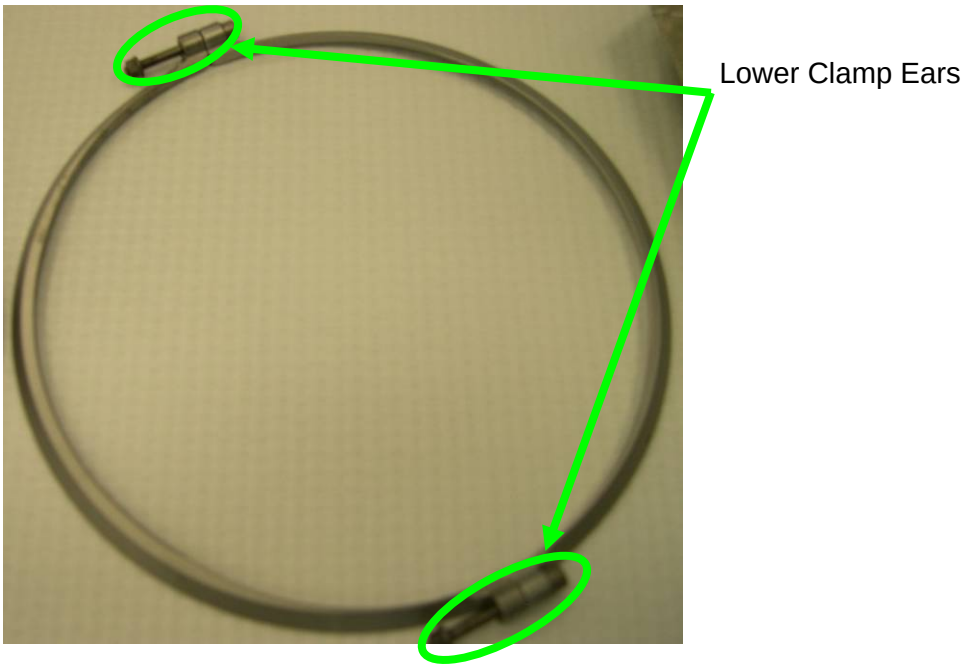


Figure 13.- Lower Clamp.

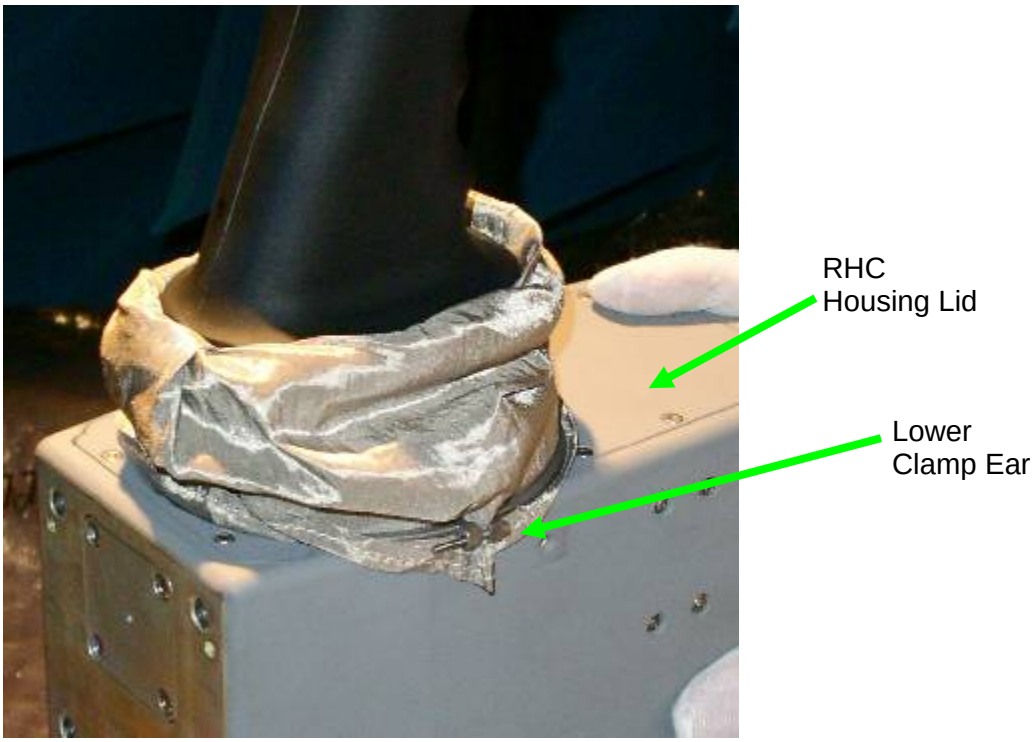


Figure 14.- Newly Installed Fabric Boot.

5.1 Place Lower Clamp (flat edge against RHC Housing Lid) over RHC grip and Fabric Boot with Lower Clamp ears aligned according to Figure 14.
Refer to Figures 13, 14.

5.2 Beginning on either side of RHC, position Lower Clamp so that it is flush with RHC housing lid and gradually work around to opposite side.
Ensure that Fabric Boot lower hem protrudes evenly beneath Lower Clamp around entire perimeter.
Refer to Figure 14.

5.3 Alternately tighten fasteners (two) on Lower Clamp (Driver Handle,1/4" Drive; 5/64" Hex Head, 1/4" Drive).
Push down on Lower Clamp to ensure it is properly seated on RHC housing lid.
Refer to Figure 14.
Photo document newly installed Fabric Boot in configuration similar to Figure 14 (Digital Camera).

6. INSTALLING BEZEL

Figure 15.- Fully Installed Fabric Boot.

6.1 Deflect Rotation Hand Controller in all axes to ensure full range of unobstructed motion.
If necessary, loosen Lower Clamp and draw out additional fabric.

6.2 Place bezel over RHC grip and Fabric Boot.
Refer to Figure 15.

6.3 Retrieve fasteners and washers from Ziplock Bag.

6.4 Tighten non-captive fasteners (four), washers (four) to secure bezel to RHC housing (Driver Handle,1/4" Drive; 1/8" Hex Head, 1/4" Drive).

7. REPLACING ROTATION HAND CONTROLLER

7.1 Position Rotation Hand Controller on Lower Support Structure Assembly.
Refer to Figure 5.

7.2 Tighten, torque fasteners (four) to 28 in-lbs [Driver Handle, 1/4" Drive; 1/8" Hex Head, 1/4" Drive; (10-50 in-lbs) Trq Wrench, 1/4" Drive].

7.3 W01RHP01 →|← J1 on Rotation Hand Controller
W01RHP02 →|← J2 on Rotation Hand Controller
Refer to Figure 4.

7.4 If at LAB1S5
W1193-P4 →|← J3 on DCP
1J00138-1-P2 →|← J2 on DCP
1J00137-1-P1 →|← J1 on DCP
Refer to Figure 3.

7.5 If at LAB1P5
W1293-P4 →|← J3 on DCP
1J00138-1-P2 →|← J2 on DCP
1J00137-1-P1 →|← J1 on DCP
Refer to Figure 3.

7.6 Doff Static Wrist Tether.

8. CLOSEOUT

8.1 Notify **MCC-H** Go for RWS Powerup.

8.2 If required,
↓ PCS power button → On

8.3 Check for FOD within 1 m area.

8.4 Photo document final configuration (Digital Camera).

8.5 Stow tools, materials.

MSG 141 - MPC-DTV MUX CABLE SWAP OUT

Replace the short (1 meter) backup MPC-DTV MUX cable that is currently installed and connected between the MPC (DATA OUT PORT) and the DTV MUX CH 1 (RX PORT) with the longer (3 meter) MPC –DTV MUX cable. Both cables were originally stowed at the bottom of L10A1 with all other MPC hardware.

Continue to use the Channel 1 RX port on the MUX for all HD events including the FD 14 PAO event. Leave both Channels 0 and 2 rate select switches set to 1 and Channel 1 rate select switch set to 8.

LEFT - 3 meter cable RIGHT - 1 meter cable (backup)

END OF PAGE 1 OF 1, MSG 141

22-0749 (MSG 143) NODE 3 UIP CLOSEOUT INSTALLATION

OBJECTIVE:
Install UIP Closeouts on WRS-1, WRS-2, OGS, and ARS Racks in Node 3.

LOCATION:
NOD3D4, NOD3D5, NOD3A5, NOD3A4

DURATION:
75 minutes (15 minutes per rack, 30 minutes for WRS-2 rack in NOD3D4)

CREW:
One

PARTS:
NOD3A5 OGS Rack Closeout (P/N 96M35015-1, S/N 001)
NOD3A4 ARS Rack Closeout (P/N 96M35016-1, S/N 001)
NOD3D5 WRS1 Rack Closeout (P/N 96M35017-1, S/N 001)
NOD3D4 WRS2 Rack Closeout (P/N 96M35018-1, S/N 001)

MATERIALS:
Gray Tape

TOOLS:
Digital camera

NOTE

1. This procedure can be run as a stand-alone procedure for each individual Rack.

2. All directional references (up, down, left, and right) are with respect to the front face of the Rack (facing the rack)

3. The bottom attachment pieces of the UIP closeout are not being flown and do not need to be installed, and so are colored over in Figure 1.

1. INSTALLING QUARTER TURN FASTENER

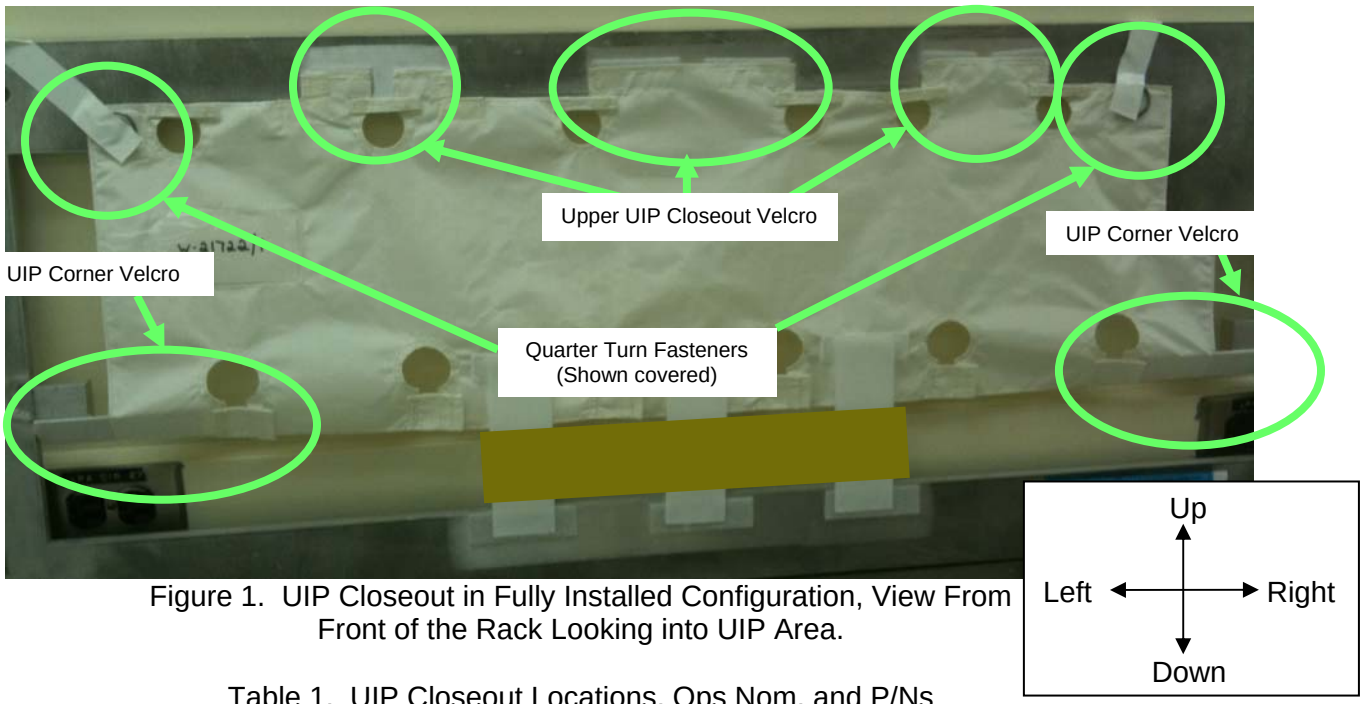


Figure 1. UIP Closeout in Fully Installed Configuration, View From Front of the Rack Looking into UIP Area.

Table 1. UIP Closeout Locations, Ops Nom, and P/Ns

Location **[A]**	Ops Nom **[B]**	P/N **[C]**
NOD3A5	NOD3A5 OGS Rack Closeout	96M35015-1
NOD3A4	NOD3A4 ARS Rack Closeout	96M35016-1
NOD3D5	NOD3D5 WRS1 Rack Closeout	96M35017-1
NOD3D4	NOD3D4 WRS2 Rack Closeout	96M35018-1

[A] 1.1 Install **[B]** UIP Closeout (P/N **[C]**), quarter turn fasteners (two)
Refer to Figure 1.

2. UIP CORNER ENGAGEMENT

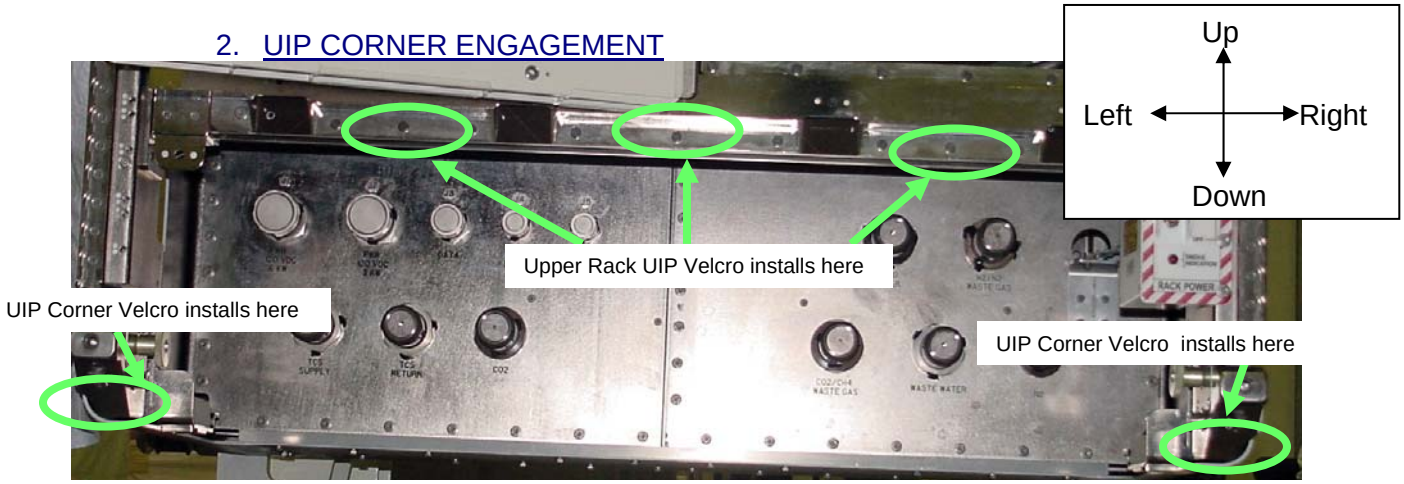


Figure 2. Rack UIP Area Without Closeout Installed.

2.1 Align left UIP Corner Velcro with angled surface below left Lower Launch restraint
Refer to Figures 1 and 2.

2.2 Remove backing from velcro at the left UIP Corner Velcro. Firmly press backing onto angled surface below left Lower Launch Restraint.

2.3 Repeat steps 2.1 and 2.2 for right UIP Corner Velcro.

3. TOP UIP CLOSEOUT ENGAGEMENT

3.1 Align Upper UIP Closeout Velcro with top of rack UIP. Refer to Figures 1 and 2.

3.2 Remove backing from velcro on Upper UIP Closeout Velcro. Firmly press backing onto top of rack UIP.

3.3 If outfitting WRS-2 Rack in NOD3D4 location:
Cover both the front side and back side of Rack UIP Closeout holes not used for routing umbilicals with gray tape.

4. CLOSEOUT

4.1 Photo document newly installed hardware (Digital Camera).

4.2 Check for FOD around work area within 3' radius.

5. CONTINUING OUTFITTING OF REMAINING RACKS

Repeat steps 1 to 3 until all racks in NOD3D4, NOD3D5, NOD3A5, and NOD3A4 are outfitted.

6. POST OUTFITTING

Notify **MCC-H** that Node 3 UIP closeout outfitting activity is complete.

22-0752 (MSG 144) 1.154 OGS RACK TRANSFER LAB TO NODE 3

(ASSY OPS/20A/FIN 2/REAL-TIME) Page 1 of 16 pages

OBJECTIVE:

Transfer Oxygen Generation System (OGS) Rack from LAB1P1 to NOD3A5. This transfer activity demates all Rack umbilicals, releases K-BARs and Pivot Mechanisms, transfers the Rack from the LAB and then structurally attaches the Rack to the Node 3 module. Rack umbilicals will be subsequently remated using a separate procedure.

LOCATION:

Stowed: LAB1P1
Installed: NOD3A5

DURATION:

1 hour, 55 minutes
- 10 minutes - Prep Rack Bay
- 45 minutes - Demate Jumpers
- 30 minutes - Transfer
- 30 minutes - Install in Node 3, Closeout

CREW:

Two (second crewmember required for transfer only)

PARTS:

3.0 CTB labeled “WRS and OGS Lab Mod Kit Jumpers”
Ziplock Bag labeled “Node 3 Miscellaneous”
Ziplock Bag labeled “OGS Jumper Electrical Plugs”
Ziplock Bag labeled “OGS Jumper Fluid Plugs”
Ziplock Bag labeled “WHC/OGS Potable Water QD Caps”
Ziplock Bags (As required to replace Caps/Plugs)
Gray Tape

MATERIALS:

Dry Wipes
AMP Pallet 3, A3 (SEG52101140-301) (if required)
- Povidone Iodine Pads (P/N 08486A7)

TOOLS:

Digital Camera
ISS IVA Toolbox:
Drawer 2:
- Driver Handle, 3/8” Drive
- Ratchet, 3/8" Drive
- 9/16" Socket, 3/8" Drive
- 5/32" Hex Head, 3/8" Drive
- Ratchet, 1/4" Drive
- 6" Ext, 1/4" Drive
- 5/16" Socket, 1/4" Drive
- (5-35 in-lbs) Trq Driver, 1/4" Drive
- (40-200 in-lbs) Trq Wrench, 3/8" Drive

Drawer 3:
- 6" long, 3/8" Hex Head, 3/8" Drive

Drawer 4:
Wire Cutters
Adjustable Joint Pliers, Straight Jaw
Drawer 5:
Static Wrist Tether

NOTE
All directional references (up, down, left, right) are with respect to front face of OGS, as you face Rack, with feet oriented towards the pivot point.

1. SAFING

LAB1P1 1.1 √sw RACK POWER – OFF

PCS 1.2 US Lab: EPS Rack Power: Rack Power 1
Rack Power 1
'Rack LAB1P1'

Verify Switch Position – Off
Verify Switch Avail – Yes
Verify Monitoring Status – Ena

1.3 √**MCC-H** to verify Rack power safing in place:
Either DDCU LA1A or DDCU LA4A converter Off, and
RPCM LA1A4A A RPC 2 Open, Close Cmd Inhibited, and
RPCM LA2B C RPC 3 Open, Close Cmd Inhibited.

1.4 √**MCC-H** to verify system is safed, thermal clock expired, and H2 Vent Valve closed

2. RACK TRANSLATION PREPARATION

NOTE
Umbilicals restrained on Node 3 Standoff need to be released to prevent interference with Rack during installation.

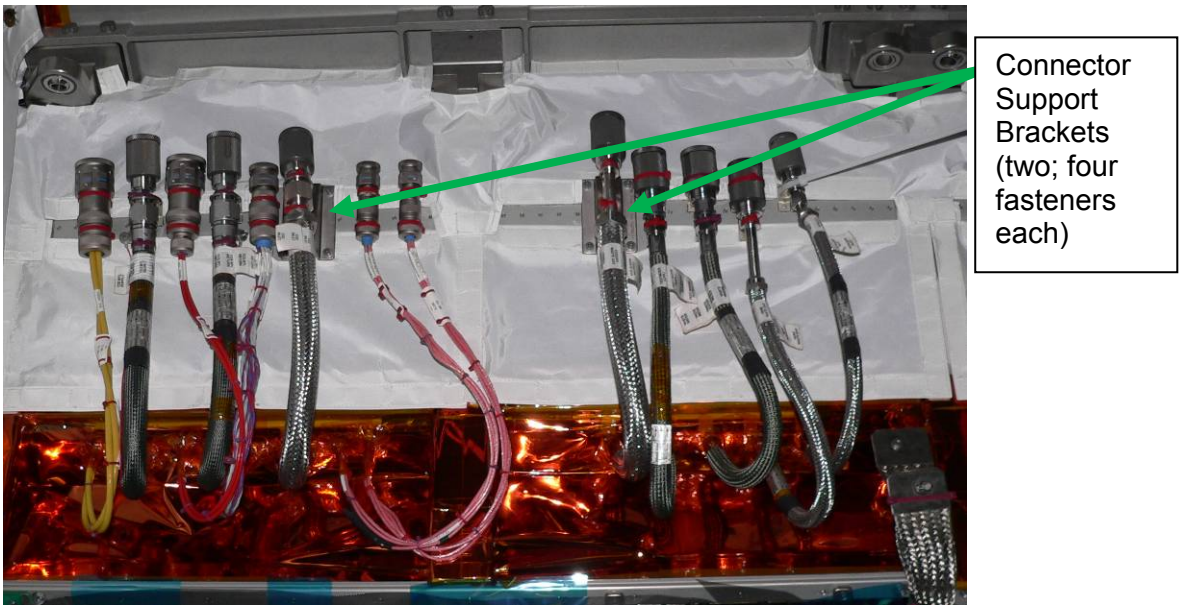


Figure 1.- NOD3A5 Umbilicals in Launch Restraint.

NOD3A5 2.1 Release Umbilicals from Launch Restraints by cutting Zip Ties (two per umbilical; Wire Cutters).
Release Ground Strap by cutting Zip Ties (two).
Refer to Figure 1.

2.2 Remove connector support brackets (two; four fasteners each) (Driver Handle, 3/8" Drive; 5/32" Hex Head).
Stow in Ziplock Bag labeled, "Node 3 Miscellaneous."
Refer to Figure 1.

2.3 √K-BAR Capture Mechanisms installed on Ovhd-Aft standoff.
√ARIS - Pivot Fitting Bottom Left (inside) (P/N 683-61711-31) installed on Aft-Deck standoff.

LAB1P1 2.4 √All unnecessary equipment protruding into rack translation path has been removed, stowed (US LAB, Node 1, Node 3)

2.5 If installed, remove ARIS Microgravity Rack Barrier from Mounting Posts, latches (two).
Unscrew, remove Mounting Posts (two) from Standoff closest to OGS.
Temporarily stow.

2.6 Remove any hardware or Handrails from the face of the Rack.

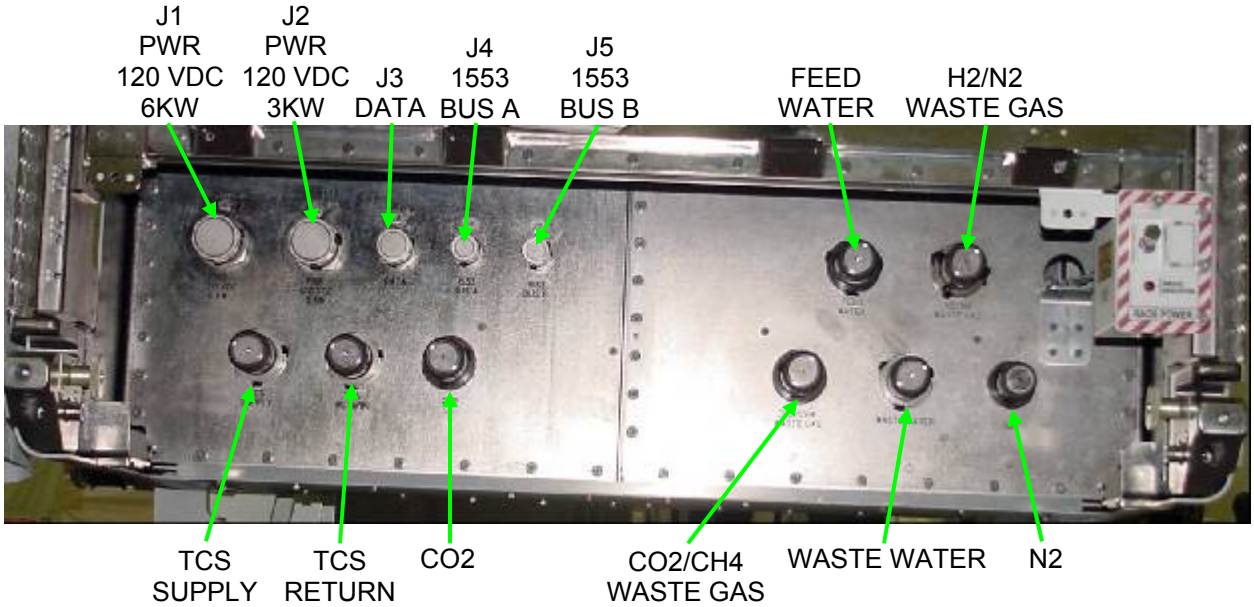


Figure 2.- OGS Rack Utility Interface Panel.

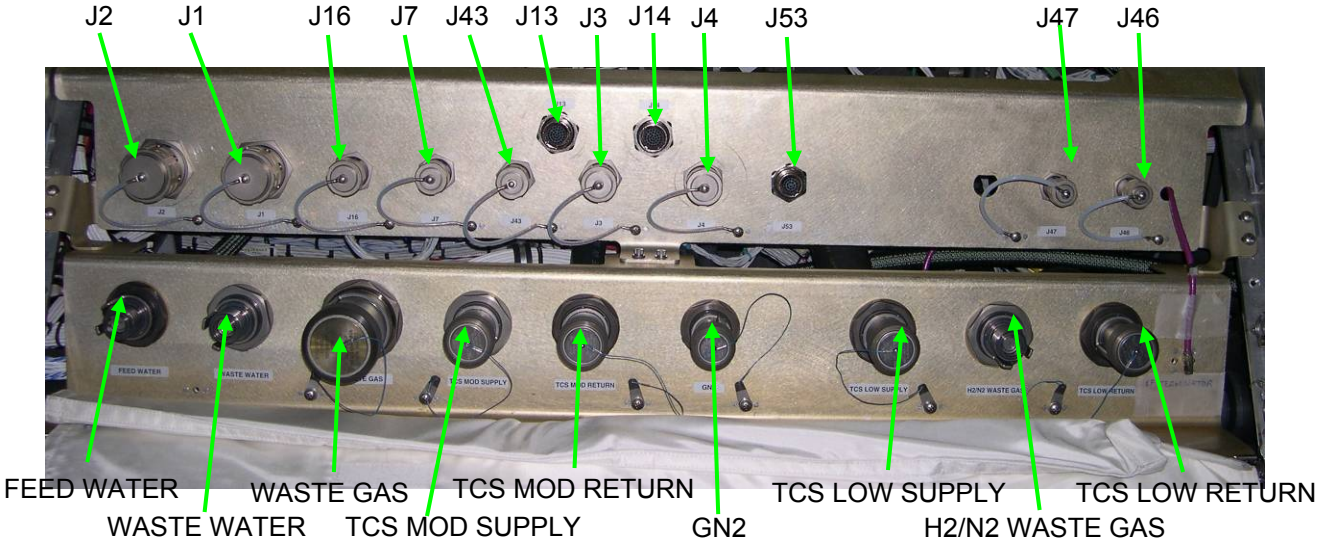


Figure 3.- LAB1P1 Modified Z-Panel.

NOTE
The Feed Water Hose in the Standoff did not fit through the Z-Panel cutout, it was routed around the Z-Panel instead.

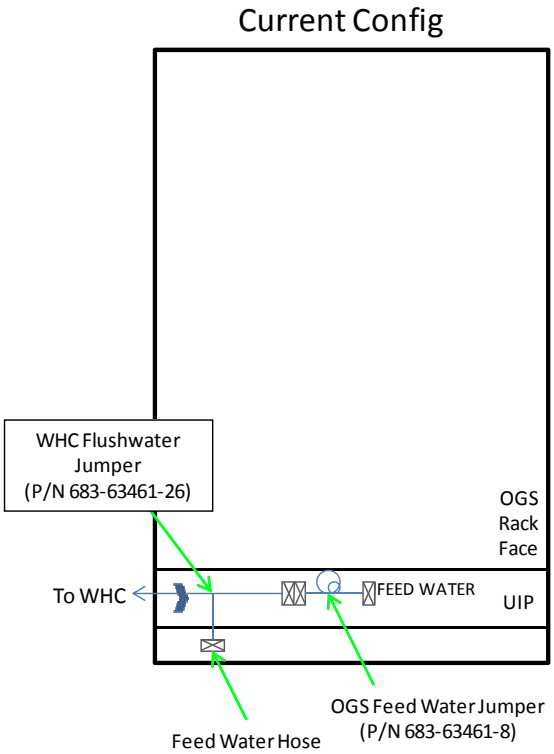


Figure 4.- OGS Water System Connections.

3. DEMATING POTABLE WATER UMBILICALS
Refer to Figures 2 to 4.

3.1 At any point in this procedure, if QD caps or plugs are not available, cover QD with Ziplock Bag and secure with Gray Tape.

LAB1P1 3.2 Remove UIP Closeout from Rack, 1/4 Turn fasteners (two).

WARNING
Contact with the wetted surfaces of the potable water system QDs can lead to contamination and crew illness.

3.3 If contact made with wetted surface of Potable Water QD, clean surface (Povidone Iodine Pads).

3.4 Retrieve Potable Water Plug from PWD:
1/2" QD Plug ←|→ 1/2" QD Cap, tethered to PWD Inlet

NOTE
The OGS Feed Water Jumper will stay with the rack during transfer.

3.5 Demating WHC Flush Water Jumper (Figure 4)

3.5.1 WHC Flush Water Jumper TO: OGS FEED WATER JUMPER ←|→ OGS Feed Water Jumper TO: OGS FEED WATER

1/2" QD Cap, tethered →|← WHC Flush Water Jumper TO: OGS FEED WATER JUMPER

1/2" QD Plug (From Ziplock Bag labeled "WHC/OGS Potable Water QD Caps") →|← OGS Feed Water Jumper TO: OGS FEED WATER

Temporarily secure OGS Feed Water Jumper for rack transfer.

3.5.2 WHC Flush Water Jumper TO: LAB1P1 FEED WATER QD ←|→ FEED WATER HOSE (routed past Z-Panel from Standoff)

1/2" QD Plug (From PWD) →|← WHC Flush Water Jumper labeled TO: LAB1P1 FEED WATER QD

1/2" QD Cap (tethered to Z-Panel) →|← FEED WATER HOSE

3.6 Stow WHC Flush Water Jumper in 3.0 CTB labeled "WRS and OGS Lab Mod Kit Jumpers."

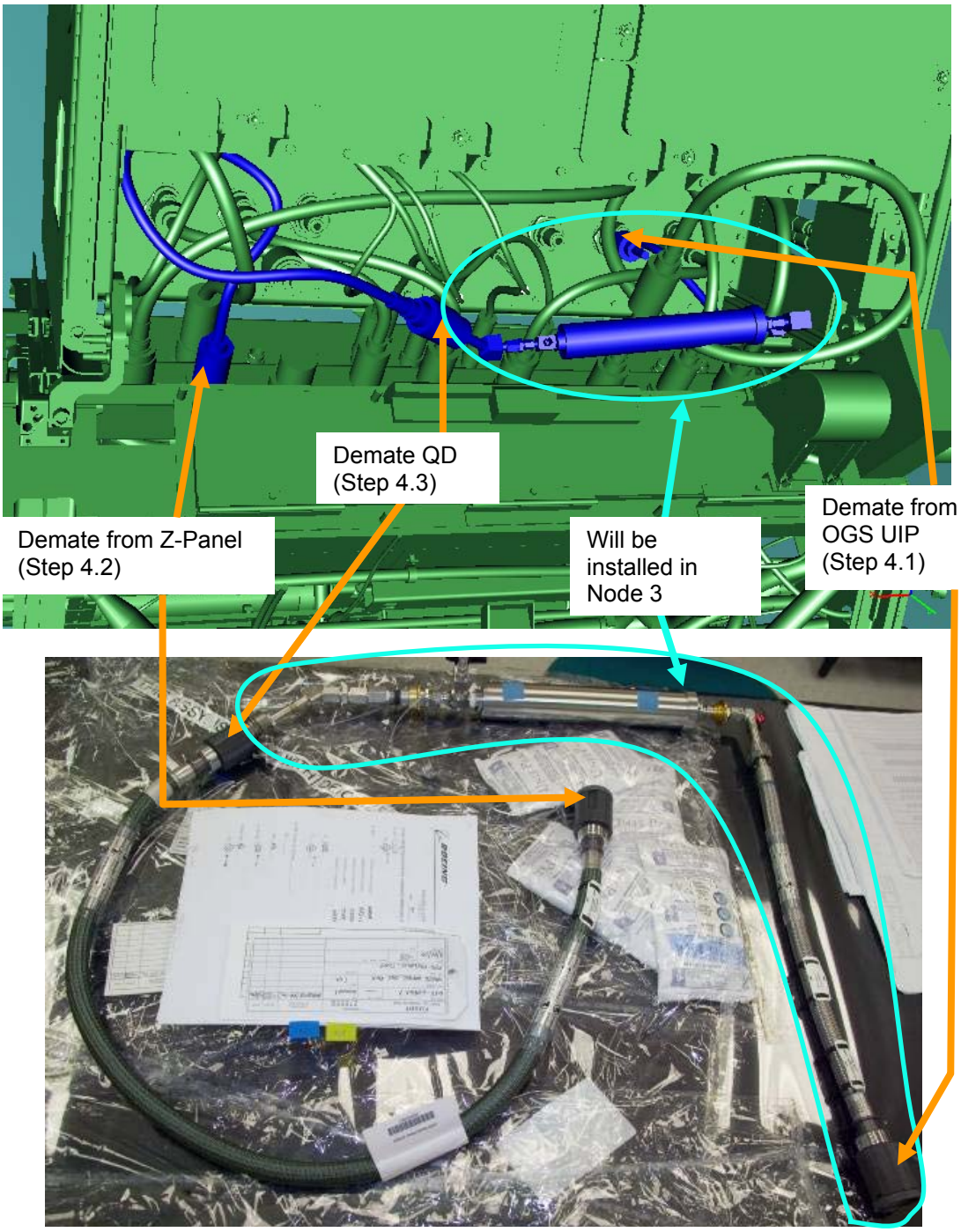


Figure 5.- OGS Waste Water Jumper (P/N 683-63461-7) - Check Valve Not Shown.

4. DEMATING WASTE WATER UMBILICAL
   Refer to Figure 5.

   4.1 OGS Waste Water Jumper labeled TO: OGS Waste Water ←|→ WASTE WATER on Rack UIP

4.2 OGS Waste Water Jumper labeled TO: OGS Waste Water ←|→ WASTE WATER on Z-Panel

4.3 Green flex hose ←|→ metal line

Install plugs from Ziplock Bag "OGS Jumper Fluid Plugs" or tethered to the Z-Panel.

4.4 Stow green flex hose in 3.0 CTB labeled "WRS and OGS Lab Mod Kit Jumpers."

4.5 Temporarily stow remaining portion of OGS Waste Water Jumper (Check Valve, ACTEX filter, and metal-braided hose) for later installation in Node 3.

5. DEMATING REMAINING FLUID UMBILICALS
Refer to Figures 2 and 3.

WARNING
OGS Rack Data Jumper must be removed last to ensure proper operation of Rack Power Switch. Failure to comply could result in electrical shock hazard.

Table 1. OGS Fluid Jumpers

OGS Rack Jumper	P/N	Z-Panel Connector	Rack Connector
OGS MTL Supply Jumper	683-63461-4	TCS MOD SUPPLY	TCS SUPPLY
OGS MTL Return Jumper	683-63461-5	TCS MOD RETURN	TCS RETURN
OGS Nitrogen Jumper	683-63461-6	GN2	N2
OGS H2/N2 Vent Jumper	683-63461-9	H2/N2 WASTE GAS	H2/N2 WASTE GAS

5.1 Remove fluid jumpers, demating both ends.
Refer to Table 1.

5.2 Install caps and plugs from Ziplock Bag "OGS Jumper Fluid Plugs" or tethered to the Z-Panel.

5.3 Stow Jumpers in 3.0 CTB labeled "WRS and OGS Lab Mod Kit Jumpers."

6. DEMATING ELECTRICAL UMBILICALS PART 1
Refer to Figures 2 and 3.

Table 2. OGS Electrical Jumpers

OGS Rack Jumper	P/N	Z-Panel Connector	Rack Connector
OGS Rack Pri Pwr Jumper	683-95134-1	J1	J1 PWR 120 VDC 6KW
OGS Rack Sec Pwr Jumper	683-95135-1	J2	J2 PWR 120 VDC 3KW
OGS Rack 1553A Y-Jumper	683-95112-1	J3 - Do Not Demate J13 - Do Not Demate	J4 1553 BUS A
OGS Rack 1553B Y-Jumper	683-95113-1	J4 - Do Not Demate J14 - Do Not Demate	J5 1553 BUS B

6.1 Don Static Wrist Tether.
Secure to unpainted, unannodized metal surface.

6.2 Demate electrical jumpers, per Table 2.
Do not demate OGS Rack Data Jumper at this time.
Demate 1553 Jumpers from Rack UIP only, leave connected to Z-Panel

6.3 Install electrical caps from Ziplock Bag labeled “OGS Jumper Electrical Plugs.”

6.4 Stow Jumpers in 3.0 CTB labeled “WRS and OGS Lab Mod Kit Jumpers.”

7. DEMATING ELECTRICAL UMBILICALS PART 2

Refer to Figures 2 and 3.

NOTE
RPS Switch Position will show “On” on PCS display when Rack Data Jumper is demated.

Table 3. OGS Electrical Jumper

OGS Rack Jumper	P/N	Z-Panel Connector	Rack Connector
OGS Rack Data Jumper	683-95136-1	J43 J53	J3

7.1 Demate OGS Rack Data Jumper, demating both ends.
Refer to Table 3.

7.2 Install electrical caps from Ziplock Bag labeled “OGS Jumper Electrical Plugs.”

7.3 Doff Static Wrist Tether.

7.4 Stow OGS Rack Data Jumper in 3.0 CTB labeled “WRS and OGS Lab Mod Kit Jumpers.”
Temporarily stow CTB.

8. SAFING AND REMOVING SMOKE DETECTOR

MCC-H/ PCS

8.1 Deactivating and Safing Smoke Detector

LAB Fire Display
‘Smoke Detectors’

sel PD1

LAB1 PD1Smoke Detector
‘Monitoring’

cmd Inh

√Status – Inhibited

sel RPCM_LA1B_H_RPC_03

RPCM_LA1B_H_RPC_03

cmd RPC Position – Open (Verify – Op)
cmd Close Cmd – Inhibit (Verify – Inh)

LAB1PD1

8.2 Removing Smoke Detector

8.2.1 P1-W3360 ←|→ J1

8.2.2 Remove Fasteners (four) securing Smoke Detector Bracket to Standoff (Ratchet, 1/4" Drive; 6" Ext, 1/4" Drive; 5/16" Socket, 1/4" Drive).

8.2.3 Cover connector plug, jack (small Ziplock Bag, Gray Tape).

8.2.4 Temporarily stow.

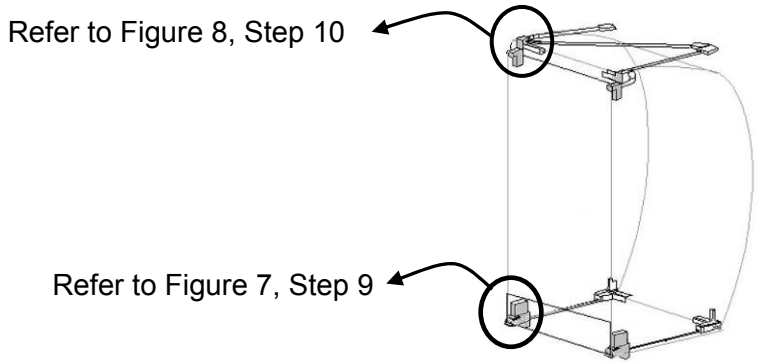


Figure 6.- Location of Rack Restraint Hardware.

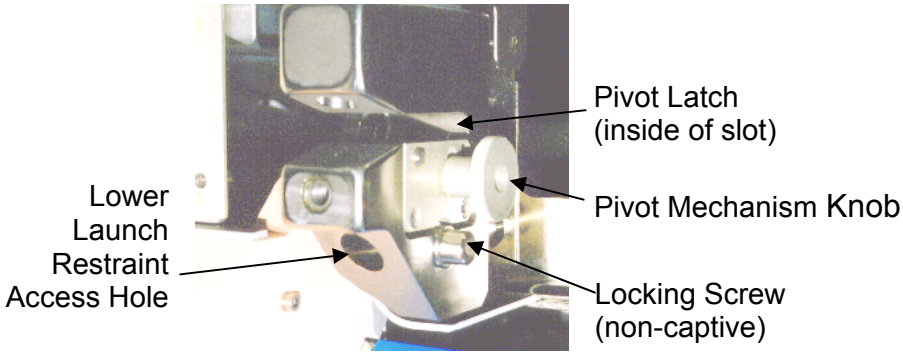


Figure 7.- Lower Launch Restraint, Left Side.

9. PIVOT MECHANISM KNOB DISENGAGEMENT
   Refer to Figures 6 and 7.

   9.1 Loosen Pivot Mechanism Knob one turn.
   Snug in down position so Rack is free to lift off Pivot Fitting.

   9.2 Repeat disengagement for opposite side.

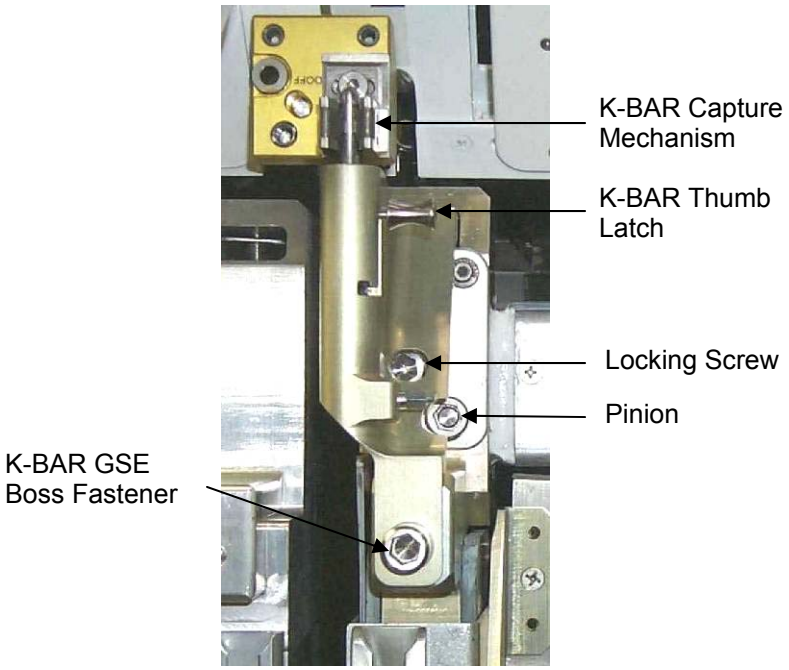


Figure 8.- K-BAR Shown Installed, Left Side.

10. K-BAR DISENGAGEMENT
Refer to Figures 6 and 8.

10.1 Disengage Rack K-BAR Thumb Latches (two) from Standoff.

10.2 Rotate Rack down to a controlled stop.

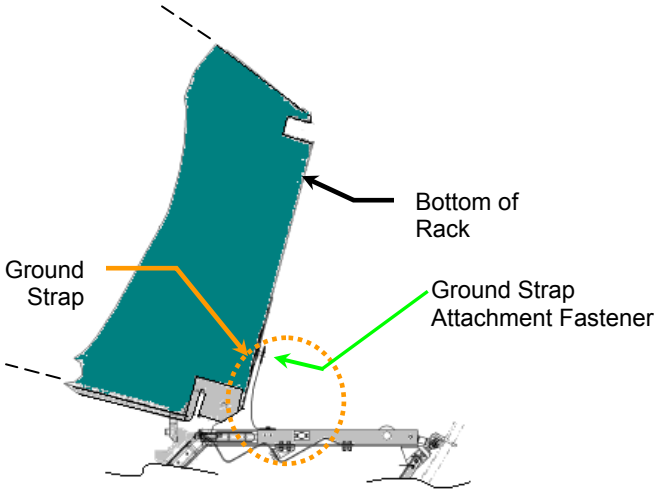


Figure 9.- Side View of Rotated Rack, Showing Rack Ground Strap Location.

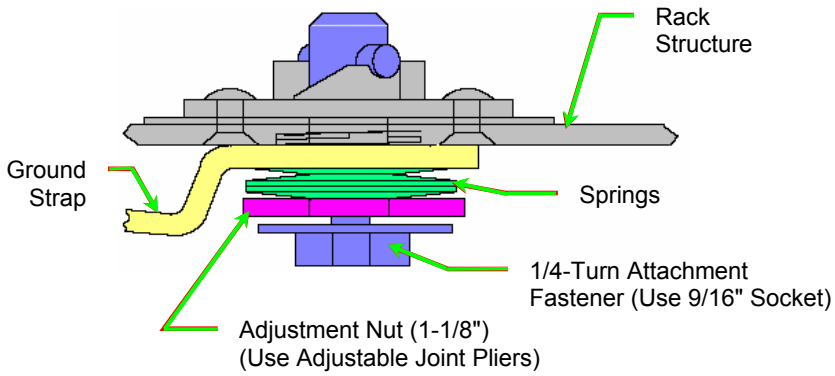


Figure 10.- Rack Ground Strap Cross Section.

11. REMOVING GROUND STRAP
Refer to Figures 9 and 10.

11.1 Fully retract Adjustment Nut ↶ towards head of Attachment Fastener (Adjustable Joint Pliers, Straight Jaw).

11.2 Ground Strap ←|→ Rack, 1/4-Turn Attachment Fastener (Ratchet, 3/8" Drive; 9/16" Socket, 3/8" Drive).

11.3 Stow Ground Strap into Standoff location.

12. TRANSFERRING OGS TO NODE 3

12.1 Lift Rack off of Pivot Fittings.

12.2 Loosen Mechanism Knobs one turn so they are free to move. Refer to Figure 7.

12.3 Remove ARIS - Pivot Fitting Bottom Right (outside) (P/N 683-61711-34) from lower standoff (Ratchet, 3/8" Drive; 6" Long, 3/8" Hex Head, 3/8" Drive)

12.4 Transfer OGS Rack and Pivot Fitting to NOD3A5.

12.5 Install, torque ARIS - Pivot Fitting Bottom Right (outside), fastener (one) to 150 in-lbs [Ratchet, 3/8" Drive; 6" Long, 3/8" Hex Head; (40-200 in-lbs) Trq Wrench, 3/8" Drive].

NOD3A5 12.6 With Node 3 Umbilicals routed toward the front of the rack, align Rack onto Standoff until Rack Pivot Latches engage standoff Pivot Fittings.
Keep Rack rotated down.

12.7 Tighten both Pivot Mechanism Knobs in latched, up position.

13. INSTALLING GROUND STRAP

13.1 Inspect Ground Strap contact surfaces for debris, clean if required (Dry Wipes).

13.2 Fully retract Adjustment Nut ↶ (towards head of Attachment Fastener), by hand.
Refer to Figure 9.

13.3 Ground Strap →|← Rack, 1/4-Turn Attachment Fastener (Ratchet, 3/8" Drive; 9/16" Socket, 3/8" Drive).
Refer to Figures 9 and 10.

13.4 Snug Adjustment Nut ↷, until firm against Springs.

13.5 Tighten Adjustment Nut an additional 1/2 to 3/4 turn ↷ (Adjustable Joint Pliers, Straight Jaw).

13.6 Photo document installed Ground Strap (Digital Camera).

14. FINAL INSTALLATION

14.1 √Rack rotation path is unobstructed

14.2 K-BAR Thumb Latches (two) → up position
Refer to Figure 8.

Figure 11.- K-BAR Capture Mechanism.

14.3 Slowly rotate Rack up to a controlled stop.
Engage Rack K-BAR Thumb Latches (two) in K-BAR Capture Mechanism located on upper Standoff.

```
*******************************************************************************
*  If K-BAR does not align with Capture Mechanism:
*  |  Loosen Adjustment Fastener (Ratchet, 3/8" Drive; 5/32" Hex
*  |    Head, 3/8" Drive).
*  |  Slide capture clip left or right, as required to engage K-BAR.
*  |  Once K-BAR engaged, re-tighten Adjustment Fastener
*  |    (Ratchet, 3/8" Drive; 5/32" Hex Head, 3/8" Drive).
*
*  Refer to Figure 11.
*******************************************************************************
```

15. REINSTALLING SMOKE DETECTOR

LAB1PD1 15.1 Remove Ziplock Bag, Gray Tape, from connectors.

15.2 P1-W3360 →|← J1

15.3 Install Smoke Detector Bracket on standoff, fasteners (four) (Ratchet, 1/4" Drive; 6" Ext, 1/4" Drive; 5/16" Socket, 1/4" Drive).

15.4 Tighten, torque Fasteners (four) to 22 in-lbs [Ratchet, 1/4" Drive; 6" Ext, 1/4" Drive; 5/16" Socket, 1/4" Drive; (5-35 in-lbs) Trq Driver, 1/4" Drive].

16. POST TRANSFER

16.1 Notify **MCC-H** smoke detector installed.

NOD3A5 16.2 Photo document OGS in Node 3 and LAB1P1 Z-Panel (Digital Camera).

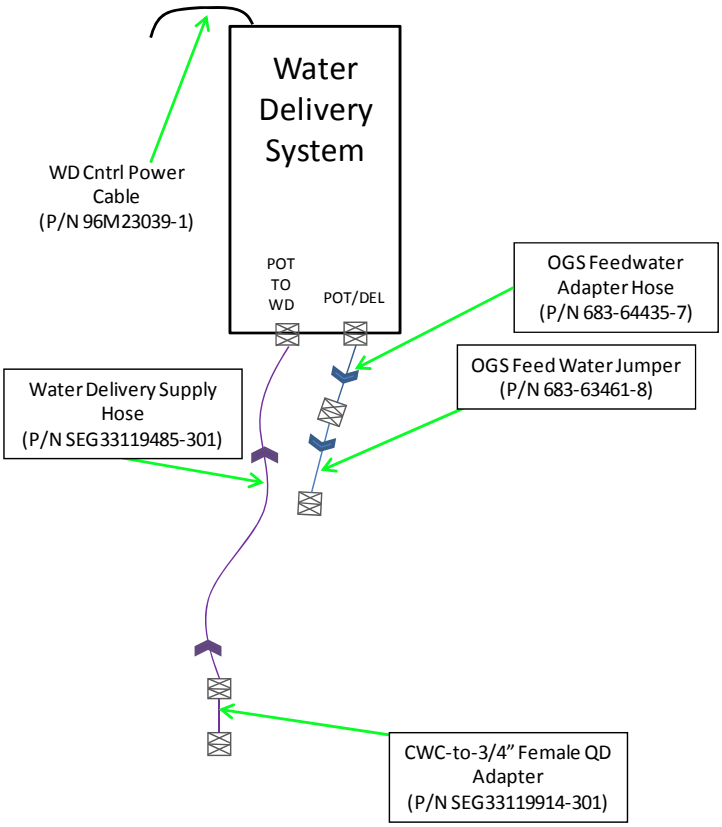


Figure 12.- WDS Stowage Configuration.

NOTE
The OGS Feed Water Jumper will now be demated from the rack and stowed with the Water Delivery System (WDS).

16.3 On **MCC-H** GO:
OGS Feed Water Jumper ←|→ FEED WATER on OGS Rack
Refer to Figure 4.

16.4 √**MCC-H** for stowage location of Water Delivery System (WDS).
WDS 1/2" QD Cap, tethered ←|→ OGS Feedwater Adapter Hose
OGS Feed Water Jumper →|← OGS Feedwater Adapter Hose
Secure hoses to Water Delivery System.
Refer to Figure 12.

16.5 If removed in step 2.5, install Mounting Posts (two) on Standoff closest to OGS.
Install ARIS Microgravity Rack Barrier on Mounting Posts, latches (two).

16.6 Notify **MCC-H** transfer activity complete.
Stow tools, materials, parts.

Table 4. Restow Table

OpNom	P/N
WHC Flush Water Jumper	683-63461-26
OGS Rack Data Jumper	683-95136-1
OGS Rack Pri Pwr Jumper	683-95134-1
OGS Rack Sec Pwr Jumper	683-95135-1
OGS MTL Supply Jumper	683-63461-4
OGS MTL Return Jumper	683-63461-5
OGS Nitrogen Jumper	683-63461-6
OGS H2/N2 Vent Jumper	683-63461-9
OGS Waste Water Jumper (Green Flex Hose)	683-63461-7
OGS Waste Water Jumper (ACTEX Hose)	
OGS Feed Water Jumper	683-63461-8

TDRS	AOS	LOS	Delta (min)	Notes
W-171	9/23:47	10/00:13	26	
E-275	10/01:11	10/01:21	10	Gimbal flip at 01:20; Analog only
W-171	10/01:27	10/01:54	27	

Note: Please notify MCC-H 10 minutes prior to the event to allow for ground network configuration.

END OF PAGE 1 OF 1, MSG 145

Bob, Nick, and Steve,

Amazing job on all three of your EVAs. The team is thrilled with the tremendous work you performed. Thank you for making us all look so good.

1. You can expect a new POST EVA RECONFIG AND TRANSFER PROCEDURE for you to work from due to all the suit items changing around and several task items being added/deleted as well. Ref Msg 142 (22-0758).

2. The engineering team met to discuss Bob's report of water droplets in the helmet for EMU 3005. It was decided that the water was a product of nominal sublimator carryover as seen during ground testing - meaning that the slurper doesn't quite remove all the water in the sublimator, and the excess carries over into the vent loop. They are discussing ways of drying out the vent loop, but consider the EMU operating nominally and it will stay on ISS.

3. EVA ISS A/L TOOL STOW ref. Msg 139 (22-0738):

    - Currently have 2.0 hours for MS3 and MS4 on FD11 and 2.5 hours for MS3, MS4, and FE6 on FD12.
    - Since the ISS crew likes to be present for any hardware stowage, we would like you to start on the following steps in the 20A EVA Tool Restow & 19A Tool Config.xls:
        - Steps 1 thru 7
        - Step 8, Tables A thru G only
        - You can leave Step 8 Table H and step 9 for FD12 when TJ is there

4. Due to an LOS, we missed the Torque and Turns for OIH 0612. Can you voice those down for us?

FD11 REBOOST - VRCS, CONFIG 3

NOTE

Allow 5 min between establishing
reboost attitude and reboost start time
for DAP accelerations to converge.
Steps 1-2 may be performed prior to
completion of maneuver to reboost attitude.

1. Select Reboost Configuration

   GNC 20 DAP CONFIG

   REBOOST CFG – ITEM 8 + 3 EXEC
   INTVL – ITEM 9 + 2 EXEC

2. Set up Future Reboost

   GNC UNIV PTG

   DURATION – ITEM 27 + 0 + 3 3 + 0 EXEC
   START TIME – ITEM 1 + 9 + 2 2 + 1 7 + 0 EXEC

   RBST – ITEM 25 EXEC (FUT-*****)

3. Select appropriate Reboost Rotation DAP
   When in attitude and prior to START TIME,

C3 DAP: A11/AUTO/VERN

NOTE

Reboost can be aborted with an
Item 26 on UNIV PTG or by
Selecting FREE on the DAP

4. Post Reboost Configuration

C3 DAP: A12/AUTO/VERN

Return to FLIGHT PLAN Attitude

130

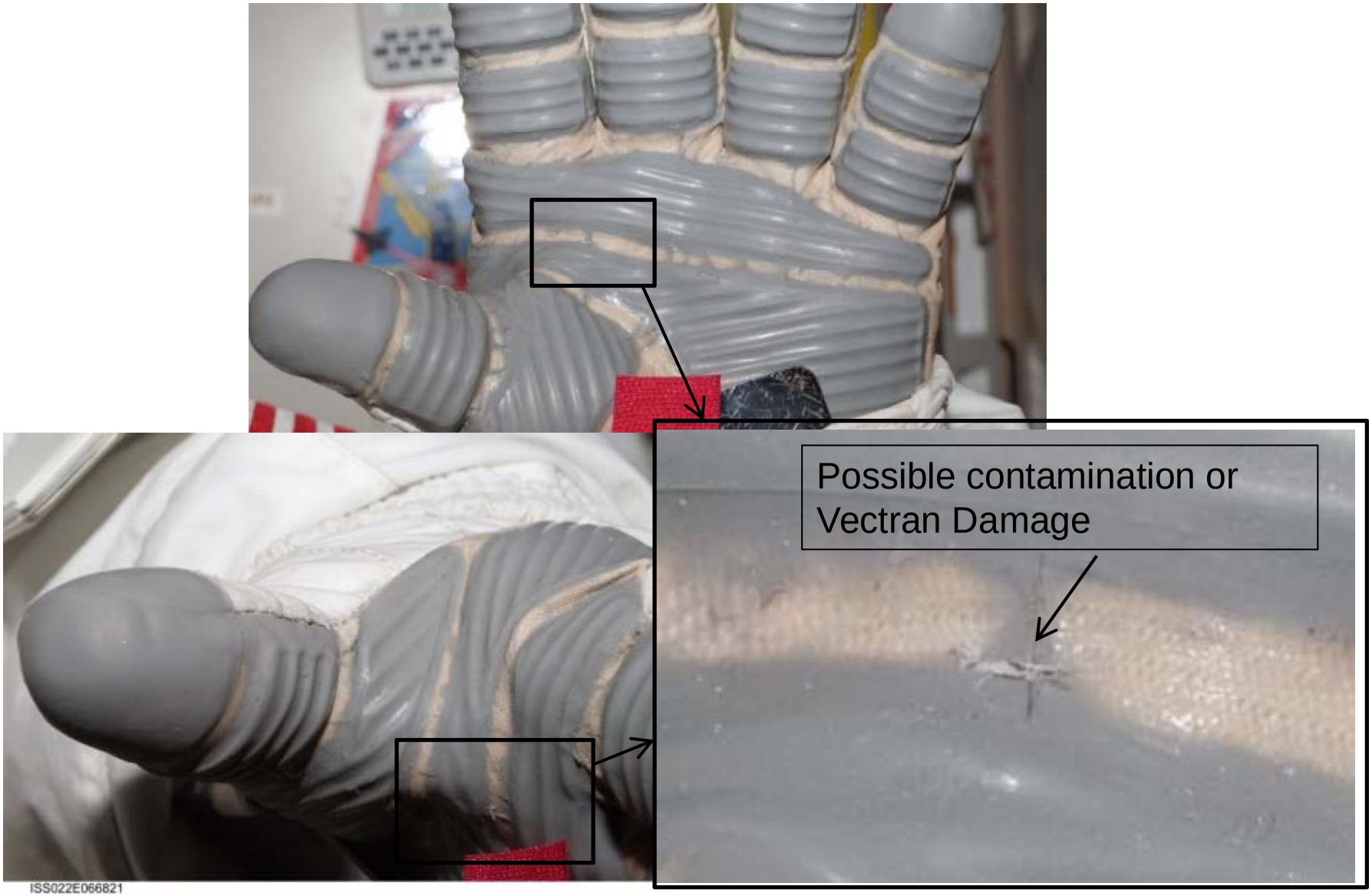
FLIGHT DAY 3 DOCKING
ORBITER with ISS
CO2 ABSORBER REPLACEMENT
(6 crewmembers/Single Shift/FD 10-18)

FLIGHT DAY	POS A	POS B	CK CMPLT
POST FD10	"	"	EVA3
PRE FD10	19	"	
POST FD11	"	“	Extra Docked Day
PRE FD11	“	13	
POST FD12	“	“	
MID FD12	STS-128 ___	STS-128 ___	ODS HATCH CL
PRE FD12	“	"	
POST FD13	STS-128 ___	STS-128 ___*	UNDOCK
PRE FD13	"	STS-128 ___	
POST FD14	STS-128 ___*	STS-128 ___	
PRE FD14	33	"	
POST FD15	34	35*	EOM
PRE FD15	"	36	
POST FD16	37*	38	EOM+1
PRE FD16	39	"	
POST FD17	40*	41	EOM+2
PRE FD17	14	"	
POST FD18	17	31	EOM+3

*Re-bag and seal LiOH cans w/ Gray Tape and stow.

NOTE

This card is specifically used for the STS-130 mission with the orbiter conducting single shift ops with a shuttle crew size of 6 and an ISS crew size of 5. Changeout scheme reflects FD3 docking with ISS, Vozdukh and CDRA (activated in dual-bed mode) during docked ops, and undocking on FD13. ODS hatch closure will be worked the night before undocking.

STS-130 Post EVA#3 EV1 Left Glove

Area of interest to target for inspection and possible photo