APOLLO 11	
LM TIMELINE BOOK	
PART NO	S/N
SKB32100080-388	1001

UNDOCKED TO SEP

+30 USE ACTIVATION & C.O.
C/L TO 5 MIN BEFORE UNDOCK
V77E
V62E
V48 21102
P47
404,405,406-COPY, LOAD ZEROES
470 R-ZERO

+35 UNDOCK (100:15)
NULL 470
P00
AOS D/B-MIN
100 YAW LT 60° (ATT CONT P&R - MODE CONT)
PITCH UP 110° (ATT CONT R&Y - MODE CONT)
FDAI (0,305,0)
V83 SET ORDEAL
VERIFY TRACKING LT-ON, THEN OFF

+40 ✓ S BD P 123 Y -40
VERIFY COMM, AUTO TRACK
PCM-HI
BIOMED-RIGHT
YAW 360° FOR INSPECTION ATT CONT P&R
MODE CONT
V76E

+45 GUID CONT - PGNS
LM ACTIVE STATION KEEP (CAMERAS)
HELMETS & GLOVES - OFF (OPT)

+50

+50 P00, UPDATA LINK - DATA
(S.V., TARGETING, PIPA BIAS,
& PADS FOR DOI, PDI,
PDI +12)
UPDATA LINK - OFF

+55 232+00600;233+00250 224+(60267)
404 (-13495)
405 (-00032)
406 (-77455)
464+00500,465+00195 225+(58148)
616+0 226+(70312)
623+0 227+(-50051)
231+(56919)

+0 CSM SEP (100:40)

SEP TO DOI

+0 SEP (102:40) TTCA (CDR)-DISABLE
CB LR-CLOSE, CK TEMP (50°-70°)
RATE ERR MON-LDG RDR/CMPTR
X-PNTRS-HI MULT, TM SW-H/H
LDG ANT-DES, MODE SEL-LR
RDR TEST - LDG
TEST MON-ALT/VEL XMTR (2.1-5.0),AGC
RECORD TM H/H
V63E, N12 OPT CODE, V22E, 2E, PRO
N66 SLANT RANGE, ANT POSIT, PRO

+5 N67 V_X V_Y V_Z ✓
V34E, LDG ANT - AUTO, V60E ✓
V63E, N12 OPT CODE, V22E, 2E, PRO ✓
LDG ANT-DES (✓522 ALARM), THEN AUTO ✓
V34E, RDR TEST OFF ✓
CB LR - OPEN ✓
UPDATA LINK-DATA (CSM S.V.), OFF ✓
V47E, 414+1, 414R+0, 400+3, 400R+0
V83, SET ORDEAL, 317R,440R,277R

+10 DEADBAND - MIN,400+2,507+0
SS AGS-AUTO, ✓ERROR NEEDLE, ATT HOLD
100 P-30 TARGET PGNS FOR DOI, N33 TIG,
+54 N81 ΔVX, ΔVY, ΔVZ: N42 HA, HP, ΔVT:
N45 M, TFI, MGA: RESET ET UP
PRO, P00
V76
CB RR(2) CLOSE, CHECK TEMP (10°-50)
V63, TM-R/R
RR-SLEW. MANUAL LOCK-ON
RR-LGC

+15 VHF A XMTR - VOICE/RNG
B XMTR - OFF
COMPARE LGC, TM, CSM VHF, CMC-RECORD

V34E, 400+0
V41N72E (+00000 TRUN, +28300 SHFT)
CB RR (2) - OPEN, V44

+20

+20 P52 OPT3
CB(11) AC BUS A-AOT LAMP CLOSE
AOT - DETENT F/0.0°
1st STAR 25
2nd STAR 33
N05 ANG DIFF 00003
PRO
N93 TORQUING ANG
X -00293
Y -00209
Z -00044

+25 PRO
N25
PRO TO PICAPAIR N15
3rd STAR

+30 DETENT CL (5)
CB(11) AC BUS A-AOT LAMP-OPEN LOS
101 V34E
INSTALL AOT SUN FILTER
PGNS MODE CONT - ATT HOLD
P00, V77

+35 CHECK DPS, APS, RCS, EPS,
CYCLE CWEA CB
THROT CONT-MAN/CDR
TTCA(BOTH) - THROTTLE (MIN)
DEADBAND - MIN
PRPLNT QTY - DES 1
DON HELMETS & GLOVES

+40

+40

+45 P40,N18(0,294,0),N86 AUTO MNVR

+50 CB (11) EPS: INV 1-CLOSE
TM SW-R/RDOT, MODE SEL-PGNS
V47, 414+1, 414R+0
S-BD 90,0 SLEW. THEN P+213 Y+27
OMNI-AFT, PCM-LO
VHF A XMTR-VOICE

+53 B XMTR-DATA
V83,317R, 440R

+54 N20E, V40E, 400+3, 400R+0, 277R
400+1

+55 PRO
410+5, LOAD ΔV
411R+0, 407R+0.

-4:00 ✓DPS CONFIG CARD
V77E
-1:00 MASTER ARM-ON
-:35 ENG ARM - DES
500P
-0:00 DOI (101:38:48) +15s THROTTLE UP 40%
ENG ARM, MASTER ARM - OFF
TTCA (CDR) - ENABL/JETS, NULL VGX

DOI TO PDI

SR 101 +41

+0 DOI(101:38:48) +15s THROTTLE UP 40%
ENG ARM. MASTER ARM - OFF
TTCA (CDR)-JETS & ENABLE, NULL VGX, VGZ
POO MODE CONT (PGNS)-ATT HOLD
PITCHDOWN, P=195, POINT AT CSM
410+0, 407+0
V82E
PRPLNT QTY MON - OFF
IF AGS ΔVGX >2.0:
CB RR(2) - CLOSE, RR MODE - LGC
V95, TTCA(CDR) - DISABLE

+5 MAN LOCK-ON, P20
400+2
MODE CONT (PGNS) - ATT HOLD
V76, AGS AUTO, ✓ERROR NEEDLES, ATT HOLD
POO, V63
VHF A XMTR - VOICE/RNG
B XMTR - OFF
COMPARE RANGE WITH CSM

+10 V34, CB RR(2) - OPEN
400+0
V25 N07E, 110E, 40E, E
TRACK LIGHT-OFF

+15 P30 TGT PGNS FOR PDI+12 ABORT:
N33 TIG
N81 ΔVX, ΔVY, ΔVZ
N42, HA, HP, ΔVT
N45 M, TFI, MGA
PRO
PITCH DWN TO 125° (P52 PITCH)

+20
16 MM/HCEX
SET CAMERA (4,500, INF) 6 FPS
SOURCE

+20 YAW LEFT 180°, FACE RETRO
V77E
V83E SET ORDEAL

COAS TO OVHD WINDOW

P52 OPT 3
F 50 25, E
F 01 70, V21E, 00546E
PRO, F 50 18, PRO (AUTO MNVR)
V76E

+25 V06N20E, ENTER ON MARK
RECORD R_2
N22E, RECORD R_2
V34E PITCH TO FDAI 180, 285, 0

+30 SELECT INV 1, ✓INV 1
CB AELD(2) - CLOSE
CB ABORT STAGE (2) - CLOSE
CYCLE CWEA CB
RESET ENG STOP PB
SET WINDOW BARS
THROT CONT-AUTO
ACA/4 JET (CDR) - ENABLE
TTCA (CDR)-ENABLE
BOTH TTCA-THROTTLE, MIN

+35 BATS 5&6 NORM FEED - ON
CB RR(2) - CLOSE
CHECK DPS, APS, RCS, ECS, EPS
P20 MODE II LOCK-ON
N18, R, P, Y, ENTR, ✓MAIN LOBE
RR-AUTO TRACK, V56E, POO
P63
N61 TGO, TFI, CR
N33 TIG
RESET ET UP
N25 00014 FINE ALIGN
ENTR-BYPASS ALIGN
N18 R, P, Y (180, 287, 0)

+40 PRPLNT QTY MON - DES 1

+40 S-BD OMNI-AFT, ACQUIRE MSFN
✓SB P +219 Y +30
AOS 102:16 VERIFY COMM, AUTO TRACK
PCM - HI
UPDATA LINK - VOICE BU
BIOMED LEFT
DOI POST BURN REPORT
HELMETS AND GLOVES ON
SUIT GAS DIVERTER - EGRESS
CABIN REGS A&B - EGRESS

+45 MODE CONT (PGNS) - AUTO
AUTO MNVR
ALT, ATT, POS CHECKS

+50 V47, 414+1, 414R+0
240+(231 RLS)
262-00150
254+0767.2(TLAND)
V83E, 317R, 440R

+52 OHW ⨯34°

+54 N20E, V40E, 400+3, 400R+0
CONFIRM NO CDU TRANSIENTS
400+1, 433R VI
PRO

+55 CB LR - CLOSE

+56 PRO-FINAL TRIM
ENTR, N62 VI, TFI, ΔVM, ✓DET
✓DPS CONFIG CARD,
GO/NO GO

+57 ALT, ATT CHECK
SEQ CAMR - ON
V77E

-:35 ENG ARM - DES:

-:07.5 ULLAGE

-0:00 PDI (102:35:13)

+0:05 DES ENG CMD OVRD - ON

SOURCE
DATE JUNE 19, 1969 REV G JULY 1, 1969

PDI THRU TD +3 MIN

(DES $O_2 \approx 91$

ENG ARM - DES
IGNITION
DES ENG CMD OVRD - ON
TTCA - UP @ 26 SEC
V21 N01 E
1252 E
2462 E
WAIT 3 SEC
TTCA - 10%

12.9
LPD ALT CHK -10.7
8.4
TM - H/H DOT

LPD POS CHK
YAW RT 174° -9 +18
SBD P -14 Y +12
✓ ED BATTS
V16 N68 E
V57E - ENABLE LR

THROTTLE DOWN

EVAL MAN CONT

(CHAN) θ	TFI	VI	(H MAX) -HDOT	(Δ H) H	DPS
(7)	-0:35				
286	0:00	5560.0	4.3	48800	95
	0:05				
285	0:30	5500.0	4.8	48700	95
(10)					
279	1:00	5200.0	14.0	48400	89
275	1:30	4900.0	21.0	47900	84
(16)					
271	2:00	4600.0	30.0	47100	79
268	2:30	4300.0	40.0	46100	74
(19)					
267	3:00	4000.0	53.0	44700	68
264	3:30	3600.0	67.0	42900	63
				(17500)	
82	4:00	3300.0	80.0	40700	58
80	4:30	2900.0	95.0	38000	53
				(17500)	
78	5:00	2600.0	109.0	34800	47
76	5:30	2200.0	122.0	31200	42
				(17500)	
72	6:00	1800.0	123.0	27500	37
				(14000)	
68	6:30	1400.0	114.0	24300	32
			(427.0)	(10500)	
63	7:00	1200.0	143.0	20200	29
			(368.0)	(8750)	
60	7:30	1000.0	157.0	16200	25

V16 N68 E
P64
LDG ANT - HOVER

P64 + 15 SEC:
NO THROTTLE DN-ABORT

SBD P +17 Y -14

223+00020 @ 2K

PGNS MODE CONT-
ATT HOLD

P65
P66

X-PNTR-LO MULT

TOUCHDOWN

ENG STOP - PUSH
ACA - OUT OF DETENT
MODE CONTROL (BOTH) - AUTO
DES ENG CMD OVRD - OFF
ENG ARM - OFF
413+1
~~223+00307~~ 414+2
ASC FEED 2 (2) - CLOSE

θ	TFI	VI		(H MAX) -HDOT	H	HOR	DPS
57	8:00	700.0		157.0	11500	60	22
47	8:30	500.0		139.0	7000	49	19
		TR-LPI		(186.0)			
43	8:44	99	60	112.0	5000	45	18
				(163.0)			
40	8:54	99	56	95.0	4000	42	17
				(136.0)			
36	9:06	98	52	76.0	3000	38	16
				(104.0)			
31	9:22	82	47	55.0	2000	33	15
				(63.0)			
24	9:44	61	39	32.0	1000	25	13
				(35.0)			
18	10:06	40	33	16.0	500	18	12
				(29.0)			
16	10:14	32	31	12.0	400	16	11
				(21.0)			
13	10:26	20	31	7.0	300	13	10
				(12.0)			
9	10:48	0	43	3.0	200	9	9
2	11:26			3.0	100	2	7
2	11:42			3.0	50	2	6

NO STAY

ABORT STAGE - PUSH
ENG ARM - ASC
ENG STOP - RESET
ENG START - PUSH
MODE CONTROL (2) - AUTO

TD +3 THRU T2 ABORT

THRUSTER PAIR ISOL VLV(8) - OPEN
MAIN SOV (2) - OPEN
CRSFD - CLOSE SBD PITCH 49 YAW -35
ASC FEED 1 (2) - OPEN
MASTER ARM - ON
DES VENT - FIRE
MASTER ARM - OFF
14:00 OXID VENT - OPEN

15:00 NOMINAL T 1, ABORT TIME
CB(11) PGNS: LDG RDR - OPEN
AOT - FWD
SLEW RR TO +X AXIS
AOT - CL
CB(11) PGNS: RNDZ RDR - OPEN
AC BUS A: RNDZ RDR - OPEN

V37E68E
N43 LAT, LONG , ALT
PRO
ENG STOP-RESET

16:00 V37E12E
N33 TIG (PDI + 23 MIN)
N76 V HOR, V VERT, CROSS RNG
N74 TFI, YAW, PITCH RESET DET

V47E, 414+1, 414R+0,
V40 N20E, 400+3, 400R+0

400 + 1
225 + K
226=225
410 + 0

MODE SEL - PGNS

PRPLNT QTY MON - OFF
PRPLNT TEMP PRESS MON - ASC
ASC HE MON - CYCLE
O2/H2O QTY MON - ASC 1, 2

STAY/NO STAY

19:30 NO STAY

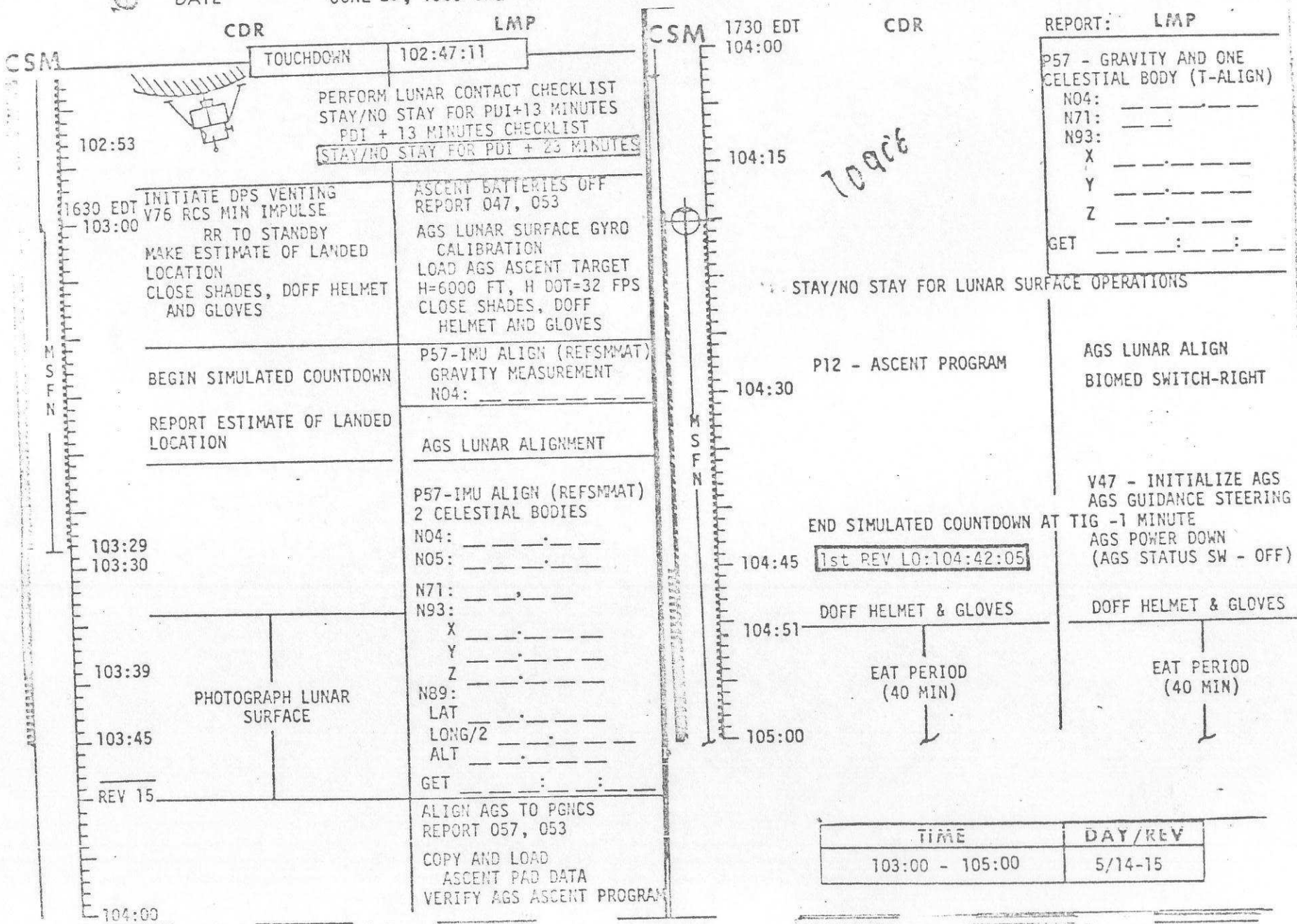
-2:00 BAT 1,3 - OFF
DES H2O - CLOSE
SELECT ASC H2O TANK
DES O2 - CLOSE
ASC 1 O2 - OPEN
CABIN REPRESS - CLOSE
ASC HE SEL - BOTH
MASTER ARM - ON
ASC HE PRESS - FIRE
ASC HE REGS 1,2 - OPEN
ASC FEED 2 (2) - OPEN
MAIN SOV(2)-CLOSE
CRSFD - OPEN
CB RR (2) - CLOSE, RR-LGC

400+1

-1:00 BAT 2,4 - OFF
CB ASC ECA CONT-CLOSE
DES BAT - DEADFACE
VOLTMETER - 5,6, LMP, CDR

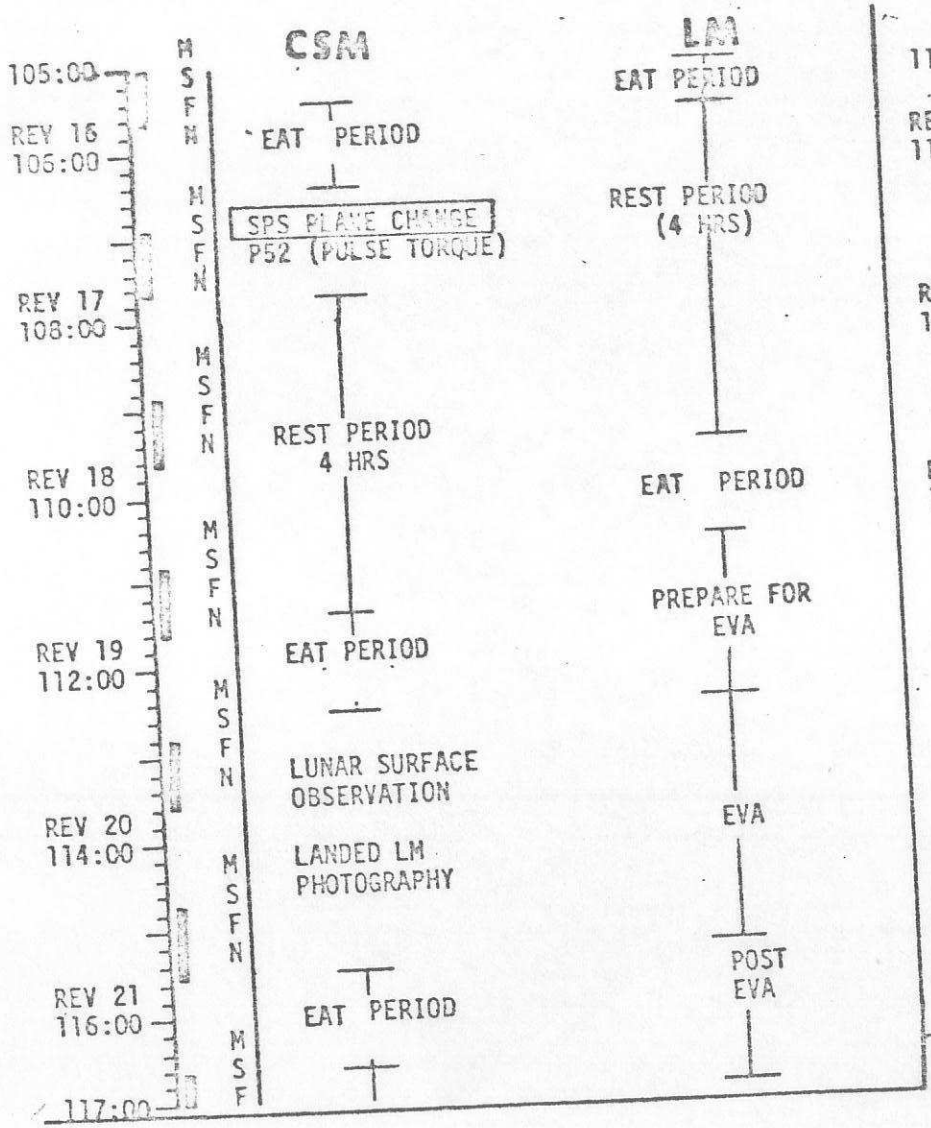
- :05 ABORT STAGE - PUSH
PRO
ENG ARM - ASC
+ :01 ENG START - PUSH

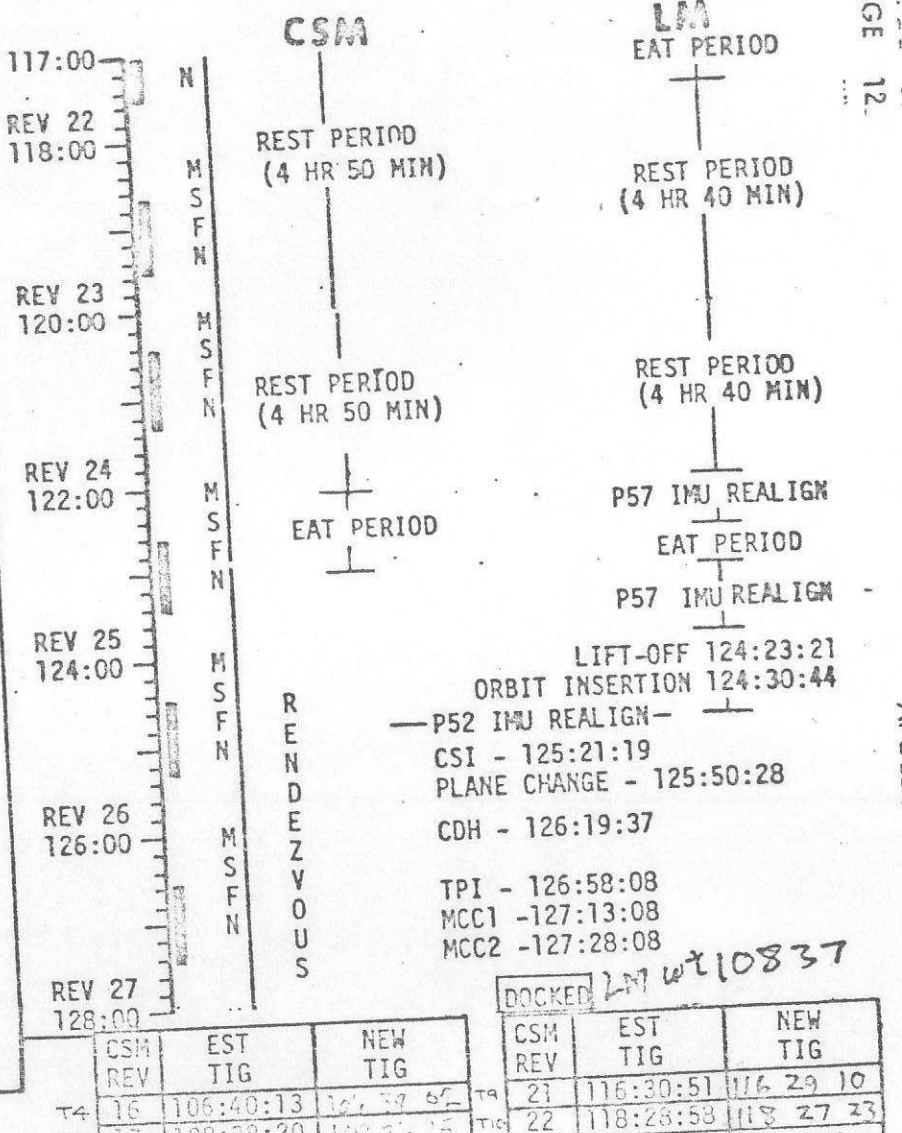
STAY V37E00E GO TO LUNAR SURFACE C/L



TIME	DAY/REV
103:00 - 105:00	5/14-15

LUNAR SURFACE FLIGHT PLAN | PDI-TD+3MIN TD+3-T2ABORT | SEP-DOI DOI-PDI | UNDOCK TO SEP





105:00 — 128:00

	CSM REV	EST TIG	NEW TIG
T4	16	106:40:13	106 39 [illegible]
T5	17	108:38:20	[illegible]
T6	18	110:36:28	[illegible]
T7	19	112:34:35	[illegible]
T8	20	114:32:43	114 30 54

DOCKED LM wt 10837

	CSM REV	EST TIG	NEW TIG
T9	21	116:30:51	116 29 10
T10	22	118:28:58	118 27 23
T11	23	120:27:06	120 25 32
T12	24	122:25:14	122 23 48
T13	25	124:23:21	124 22 02

SOURCE LM TIMELINE BOOK

DATE JUNE 26, 1969-CHG "C"

APOLLO 11 FLIGHT DATA FILE

ASCENT

ABORT STAGE-PUSH
PRO
ENG ARM-ASC
ENG START-PUSH
N63, YAW
PITCH
BAL CPL-OFF

SBD P 134 Y -32
CHANGE 16mm.
FRAME RATE
TO 6 fps.

N76E VH Vv ΔR
V16 N77 E

N85 E, 500R
TM-R, R DOT

200 FPS MAIN SOV(2)-OPEN
ASC FEED2(2) - CLOSE
50 FPS ENG ARM - OFF
0 FPS ABORT STAGE-RESET
ENG STOP RESET
MODE CONT (2)-ATT HOLD
BAL CPL-ON
END APS CARD ATT TRANSL - 2 JETS
ΔVX NULL, KEY REL
VI, HDOT, H
PRO, AV-S
V82E, 315R, 403R, 313R
ENT PRO
P[illegible]-AUTO-TRACK
[illegible]-CLOSE

PITCH	CHN	TFI	VI	H DOT	H
		-0:05			
		0:00	15.0	0	0
		0:10	50.0	55.0	300
308	39	0:30	200.0	90.0	1800
305	37	1:00	400.0	125.0	5000
302	35	1:30	700.0	150.0	9200
299	33	2:00	1000.0	170.0	14000
296	31	2:30	1400.0	185.0	19300
292	29	3:00	1700.0	190.0	24900
289	27	3:30	2100.0	190.0	30600
285	24	4:00	2400.0	185.0	36300
281	22	4:30	2900.0	175.0	41600
277	19	5:00	3300.0	155.0	46700
273	16	5:30	3700.0	135.0	51000
269	13	6:00	4200.0	110.0	54800
265	10	6:30	4700.0	80.0	57500
260	7	7:00	5300.0	50.0	59500
		7:14	5540.0	32.0	60150

MANUAL ASCENT
CONFIGURATION-NOMINAL EXCEPT
MODE CONT-ATT HOLD
PROFILE-NOMINAL EXCEPT
4-STEP FOR DIRECT MODE.
BAL CPL-OFF AFTER PITCH
8-BALL 4-STEP:
:20 PITCH DN TO 300°
3:15 285
5:15 270
7:00 255

CHN 4-STEP
:15 PITCH DN TO 37
1:14 32
3:26 25
5:24 11

ASC QTY LITE-MAIN SOV(2)-OPEN
ASC FEED2(2) - CLOSE
BURN TO PROP DEPLETION

MONITOR
PGNS AGS
06 63 VI, H, H 500 VGX
16 77 TGO, VY 367 H
16 85 VGX, VGY, VGZ 433 VI

INSERTION THRU CSI

60

TIME	RANGE	RDOT
INS	262.4	-448.7
1+00	257.9	-444.8
2+00	253.6	-440.5
3+00	249.2	-435.5
4+00	245.0	-430.0
5+00	240.8	-424.0
6+00	236.6	-417.4
7+00	232.5	-410.4
8+00	228.5	-402.9
9+00	224.6	-394.9
10+00	220.7	-386.5

55

162

INSERTION (124:30:39)

50 P00, RECORD RDOT/R
V48, 1 (2) 1002, V63, RR-LGC, V34
ATT TRANSL-2JETS (4JETS)
V41N72 (+00000,+28300)
CB RR(2)-OPEN, V44
TTCA (BOTH)-DISABLE, 417+1
47 ACA 4JET (BOTH)-DISABLE RDOT
INV 2, CB INV 1-OPEN
EXT LTG-TRACK
P52 OPT3 STOP 16MM CAMERA
CB AOT LAMP CLOSE
45 AOT-DETENT F/0.0°, V76 RDOT ⟩R
SS 1st STAR_____
124 2nd STAR_____
+37
410+1 TGT CSI
373 TIG CSI
275 TIG TPI
42 605 COTAN ⊖ + 00777 RDOT
416+1 1/2 PERIOD
623+0 ZERO YAW
451+0 Y DOT
40 616+00007 RDOT ⟩R

40 N05 ANG DIFF RDOT ⟩R
PRO
N93 TORQUING ANG
X_____
Y_____
Z_____
PRO, GET
37 N25 RDOT
PRO TO PICAPAIR N15
3rd STAR_____
DETENT CL
VHF ANT-FWD
35 CB AOT LAMP-OPEN RDOT ⟩R
V34E
V48 1(2) 1012
CB RR (2)-CLOSE
V95
V67 (+10000,+00100,+00015)
P20, AUTO MNVR
32 V80, M=1, V67 RDOT
P32, TARGET CSI

30 CHART RDOT RDOT ⟩R
V47, 414+1, 414R+0
400+3, 400R+0
V83, SET ORDEAL, 317R
440R, 277R
27 310 ΔT CSI RDOT
SET ET
400+2

25 RDOT ⟩R

22 M=10, V32 RDOT

20 CHART RDOT RDOT ⟩R

20 CHART RDOT RDOT ⟩R

17 CHECK SYSTEMS RDOT

15 V90 OBTAIN CSM YDOT RDOT ⟩R

12 PRO-FINAL COMP RDOT
N81-LOAD CSM YDOT
267 VG CSI
402R ∠H
372R ∠T CSI-CD
371R ∠VG CDH
263R Y DOT
LOS S BD 90, 0; SLEW
125 THEN P-13 Y +17
+10 OMNI-AFT
10 CHART RDOT/R RDOT ⟩R

PCM-HI
V47, 414+1, 414R+0
400+3, 400R+0
V83, SET ORDEAL, 317R
440R, 277R
PCM-LO
P41, N86
5 410+5, LOAD ΔV
407+0
ΔV'S TO CSM
502R
TTCA (CDR)-ENABLE

DB MIN
DEFLECT ACA
MODE CONT(AGS)-
ATT HOLD
ATT CONT(3)-
MODE CONT
400+0

:30 V77, MODE CONT-ATT HOLD
:05 407+1, 502R
:00 CSI (125:21:20)
NULL RESIDUALS
TTCA (CDR)-DISABLE

INSERTION-CSI | CSI-CDH | LUNAR SURFACE FLIGHT PLAN | PDI-TD+3MIN | TD+3-T2ABORT | SEP-DOI | DOI-PDI | UNDOCK TO SEP

CSI THRU CDH

60 CSI (125:21:20)
NULL RESIDUALS
TTCA (CDR)-DISABLE
V76, MODE CONT-AUTO
400+2, 417+1

DB MAX
ATT CONT-PULSE
MODE CONT(AGS)-
AUTO
400+2
310R SET ET

SR 125 +26 P33 TARGET CDH
V82E

55 CDH TIME TO CSM RDOT }R
410+2 TGT CDH

52 M=4 RDOT
V67 (+02000,+00020,+00005)

50 RDOT }R
M=3, V32

47 V90, LOAD CDH-30 RDOT
OBTAIN CSM YDOT

45 RDOT }R

42 M=10, V32 RDOT

40 RDOT }R

40 RDOT }R
V34
P30

36 CHART RDOT RDOT
V90 LOAD CDH-30

35 OBTAIN CSM YDOT }R
P41
410+5 LOAD ΔV
407+0

DB MIN
DEFLECT ACA
MODE CONT(AGS)-
ATT HOLD
ATT CONT(3)-
MODE CONT
400+0

32 TTCA (CDR)-ENABLE
:30 V77, MODE CONT-ATT HOLD
:05 407+1, 501R

30 PLANE CHANGE (125:49:40)
TTCA(CDR)-DISABLE
V76,MODE CONT-AUTO
P33 TARGET CDH
417+1

DB MAX
ATT CONT-PULSE
MODE CONT(AGS)-
AUTO
400+2, 410+2
373R, 310R
477R, 402R
450R 452R

27 RDOT

25 RDOT }R
M=4, V93

23 CHART RDOT RDOT
AOS 125 +57 VS BD P-13 Y +17
OMNI-FWD
VERIFY COMM, AUTO TRACK
PCM-HI
BIOMED-RT

20 M=5, V32 RDOT }R

20 M=5, V32 RDOT }R

17 CHECK SYSTEMS RDOT

15 V90 OBTAIN CSM YDOT RDOT }R

12 PRO FINAL COMP RDOT
N81 LOAD CSM YDOT

10 CHART RDOT RDOT }R
V47, 414+1, 414R+0
400+3, 400R+0
V83, SET ORDEAL, 317R
440R, 277R

P41 N86
5 410+5
407+0 LOAD ΔV's
502R
TTCA (CDR)-ENABLE

DB MIN
DEFLECT ACA
MODE CONT(AGS)
ATT HOLD
ATT CONT(3)-
MODE CONT
400+0

:30 V77, MODE CONT-ATT HOLD
:05 407+1, 502R

0 CDH (126:19:40)
NULL RESIDUALS,
TTCA (CDR)-DISABLE

SOURCE
DATE JUNE 19, 1969
REV "I" July 3, 1969

CDH THRU TPI

40

CDH (126:19:40)
NULL RESIDUALS
TTCA(CDR)-DISABLE
V76, MODE CONT-AUTO
400+2, 417+1
P34 TGT CDH

DB MAX
ATT CONT-PULSE
MODE CONT(AGS)
AUTO
400+2

35 CHART RDOT — RDOT ⟩R
V82E

32 M=4, V93 — RDOT

30 — RDOT ⟩R
M=3, V32

410+3 TPI SRCH
27 307+04300 ΔT TRNFR — RDOT
310+02600 TFI TPI

25 CHART RDOT — RDOT ⟩R
303 θ TPI
SS 267R ΔV TPI
126 371R ΔV TPI+ΔV TPF
+35

M=10, V32
22 — RDOT

20 — RDOT ⟩R

20 — RDOT ⟩R

17 CHECK SYSTEMS — RDOT

15 CHART RDOT, RANGE — RDOT ⟩R
COPY ET

310+01300
303R θ TPI

12 PRO-FINAL COMP — RDOT
TIG TO CSM
N81, LOAD CSM-YDOT, √ET
V47, 414+1, 414+0
10 400+3, 400R+0 — RDOT ⟩R

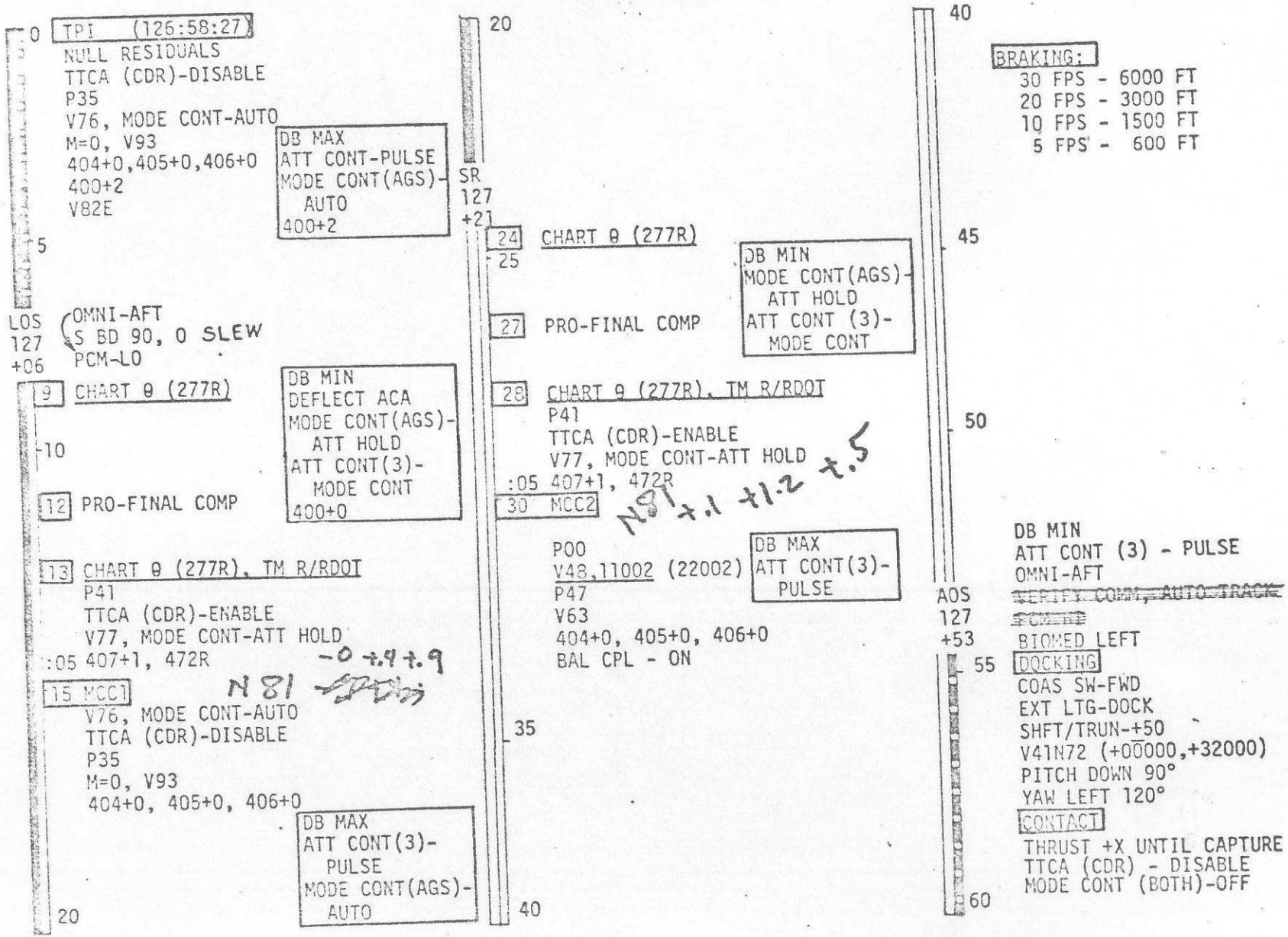
MODE CONT-ATT HOLD
9 CHART θ 277R
404+0, 405+0, 406+0
310+00800, 303R θ
410+4 TPI TRNFR
267R ΔV TPI
371R ΔV TPI + TPF, 373R TIG TPI
P41 N86

5 CHART θ (277R), TM R/RDOT
410+5 LOAD V's
407+0,
502R
TTCA (CDR)-ENABLE

DB MIN
DEFLECT ACA
MODE CONT(AGS)
ATT HOLD
ATT CONT(3)-
MODE CONT
400+0

:30 V77, MODE CONT-ATT HOLD
:05 407+1, 4722
:00 TPI (126:58:27)

:00 TPI (126:58:27)
NULL RESIDUALS
TTCA (CDR)-DISABLE


0
TPI (126:58:27)
NULL RESIDUALS
TTCA (CDR)-DISABLE
P35
V76, MODE CONT-AUTO
M=0, V93
404+0,405+0,406+0
400+2
V82E
DB MAX
ATT CONT-PULSE
MODE CONT(AGS)-
AUTO
400+2
5
LOS
127
+06
OMNI-AFT
S BD 90, 0 SLEW
PCM-LO
9 CHART 8 (277R)
DB MIN
DEFLECT ACA
MODE CONT(AGS)-
ATT HOLD
ATT CONT(3)-
MODE CONT
400+0
10
12 PRO-FINAL COMP
13 CHART 8 (277R), TM R/RDOI
P41
TTCA (CDR)-ENABLE
V77, MODE CONT-ATT HOLD
:05 407+1, 472R
15 MCC1
V76, MODE CONT-AUTO
TTCA (CDR)-DISABLE
P35
M=0, V93
404+0, 405+0, 406+0
DB MAX
ATT CONT(3)-
PULSE
MODE CONT(AGS)-
AUTO
20
20
SR
127
+21
24 CHART 8 (277R)
25
27 PRO-FINAL COMP
DB MIN
MODE CONT(AGS)-
ATT HOLD
ATT CONT (3)-
MODE CONT
28 CHART 8 (277R), TM R/RDOI
P41
TTCA (CDR)-ENABLE
V77, MODE CONT-ATT HOLD
:05 407+1, 472R
30 MCC2
P00
V48,11002 (22002)
P47
V63
404+0, 405+0, 406+0
BAL CPL - ON
DB MAX
ATT CONT(3)-
PULSE
35
40
40
BRAKING:
30 FPS - 6000 FT
20 FPS - 3000 FT
10 FPS - 1500 FT
5 FPS - 600 FT
45
50
AOS
127
+53
55
DB MIN
ATT CONT (3) - PULSE
OMNI-AFT
~~VERIFY COMM, AUTO TRACK~~
~~SC CNTL~~
BIOMED LEFT
DOCKING
COAS SW-FWD
EXT LTG-DOCK
SHFT/TRUN-+50
V41N72 (+00000,+32000)
PITCH DOWN 90°
YAW LEFT 120°
CONTACT
THRUST +X UNTIL CAPTURE
TTCA (CDR) - DISABLE
MODE CONT (BOTH)-OFF
60