Massachusetts Institute of Technology
Charles Stark Draper Laboratory
Cambridge, Massachusetts

MEMO

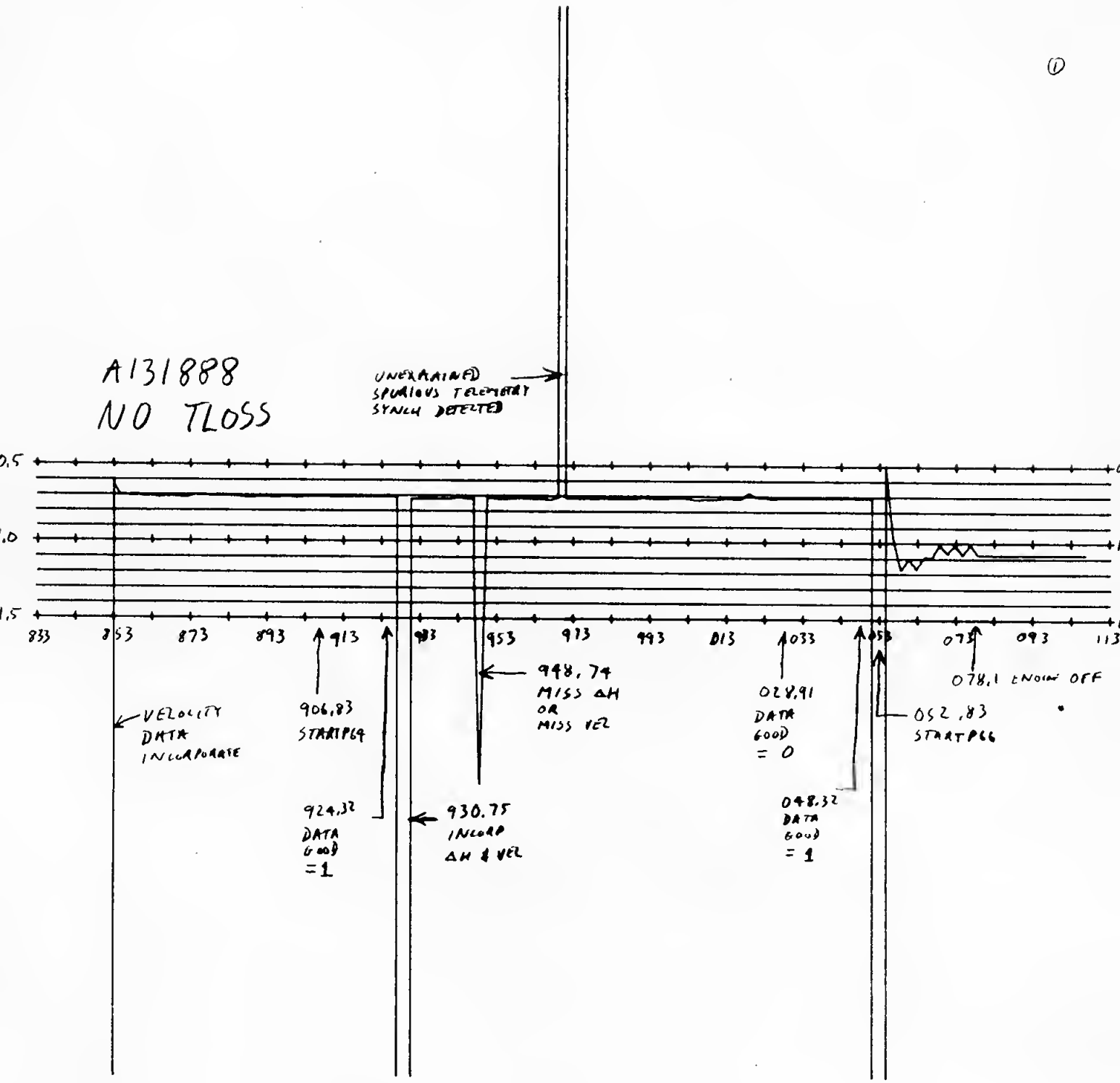
TO: Distribution
FROM: A. Klumpp
DATE: 6 April 1970

During the Apollo 13 descent, there will be a new real-time plot for monitoring computer activity or time loss (TLOSS). This memo contains plots which show how the new real-time monitor plot should look for various values of TLOSS. These are plots of the time relative to PIPTIME of the radar velocity reading, versus time. The ordinate is calculated as word 5 minus word 7 of the descent telemetry, adding two if the difference is negative. The enclosed plots start just before acquisition of velocity data, and show the various events responsible for the anomolous behaviour of the plots. Also included herein are the corresponding plots of the VAC, CORESET, and WAITLIST activity.

Distribution

Jim Alphin
Floyd Bennett
Willis Bolt
Jack Garman
Tom Gibson
John Jurgensen
Tom Moore
Will Presley
Tom Price
H. D. Reed (Dave)
LUMINARY Distribution List at MIT

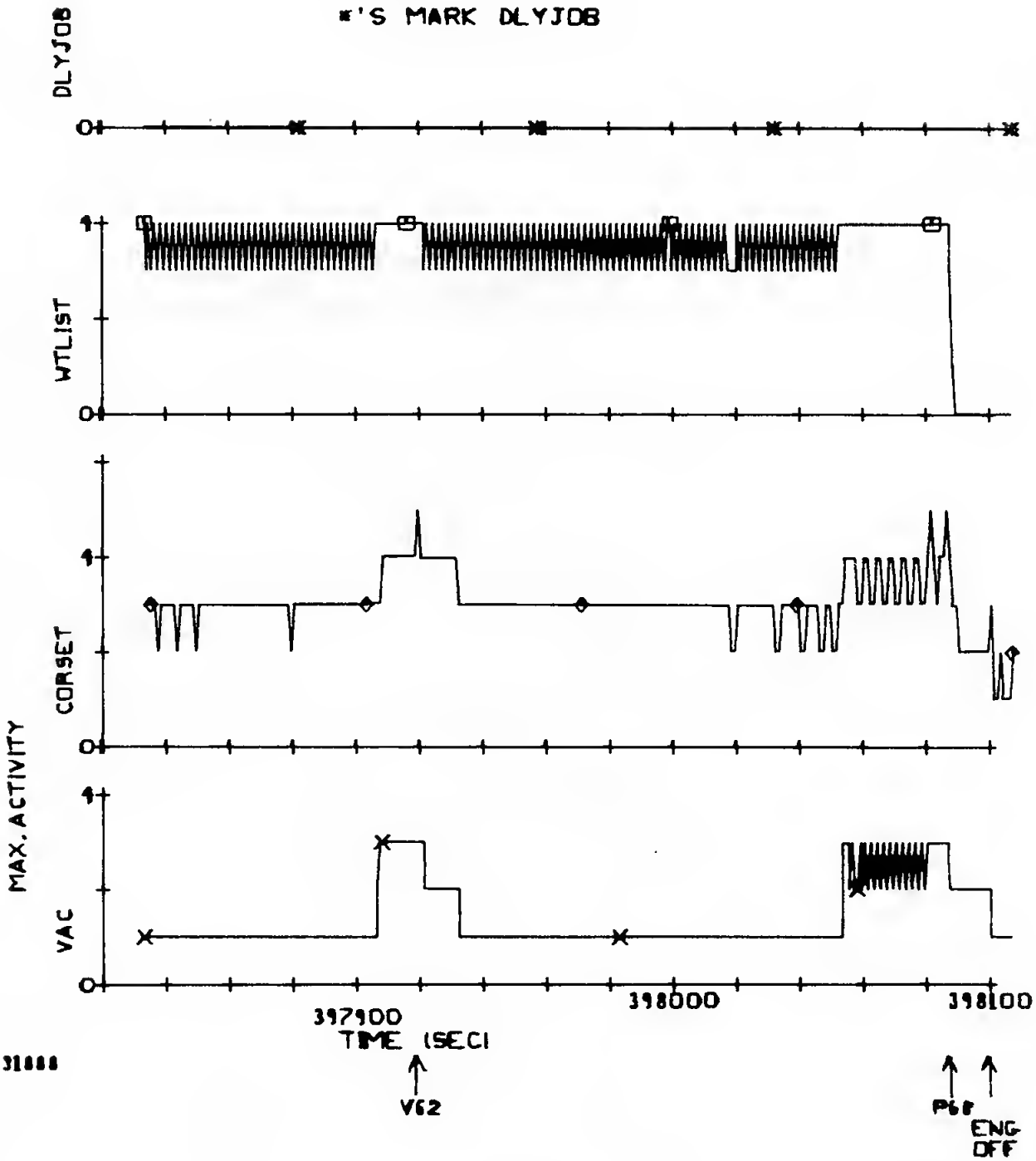
A131888
NO TLOSS



AGC ACTIVITY

X'S MARK VAC
o'S MARK CORSET
□'S MARK WTLIST
*'S MARK DLYJOB

A131888
No Tags

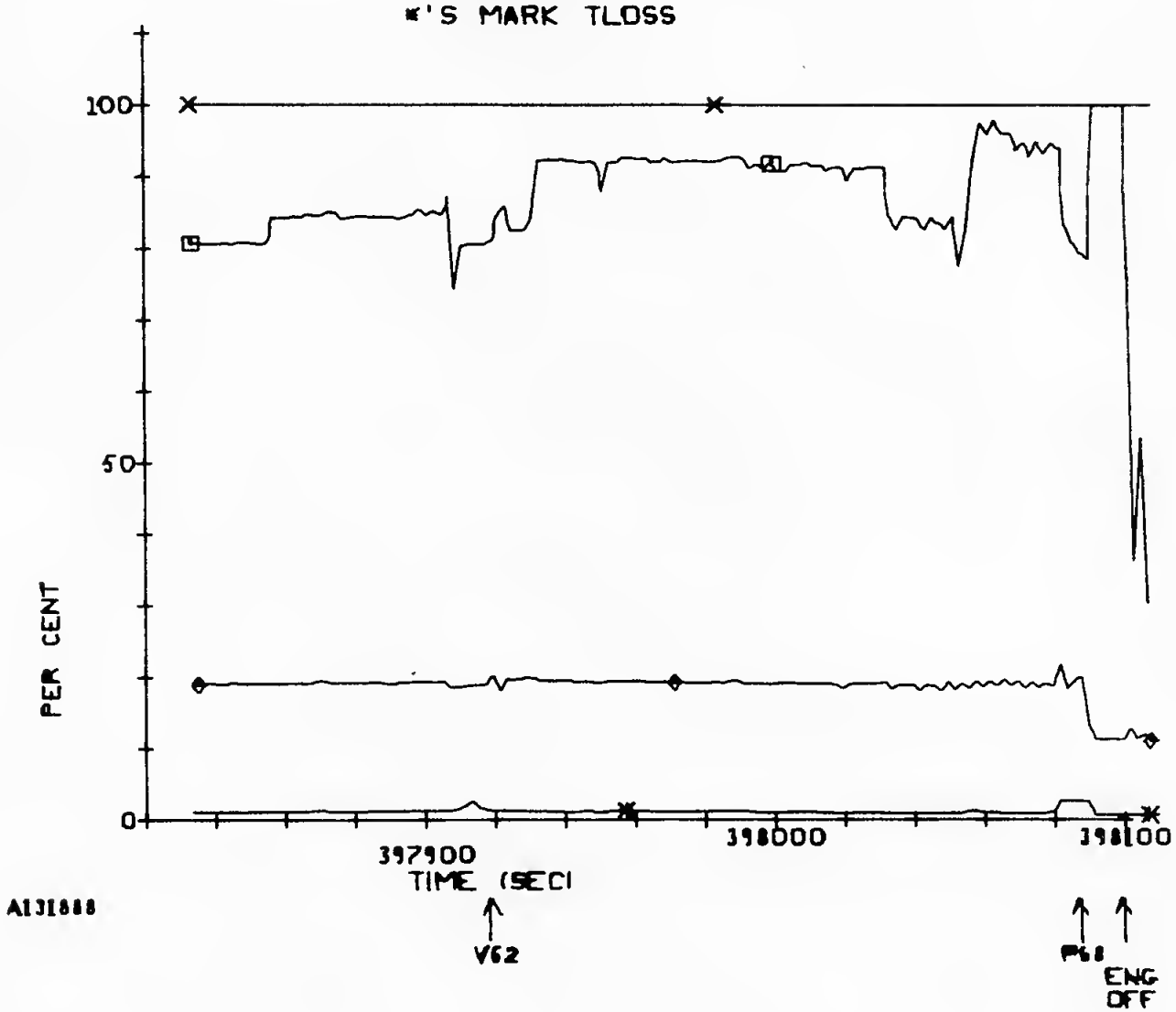


(3)

DUTY CYCLE

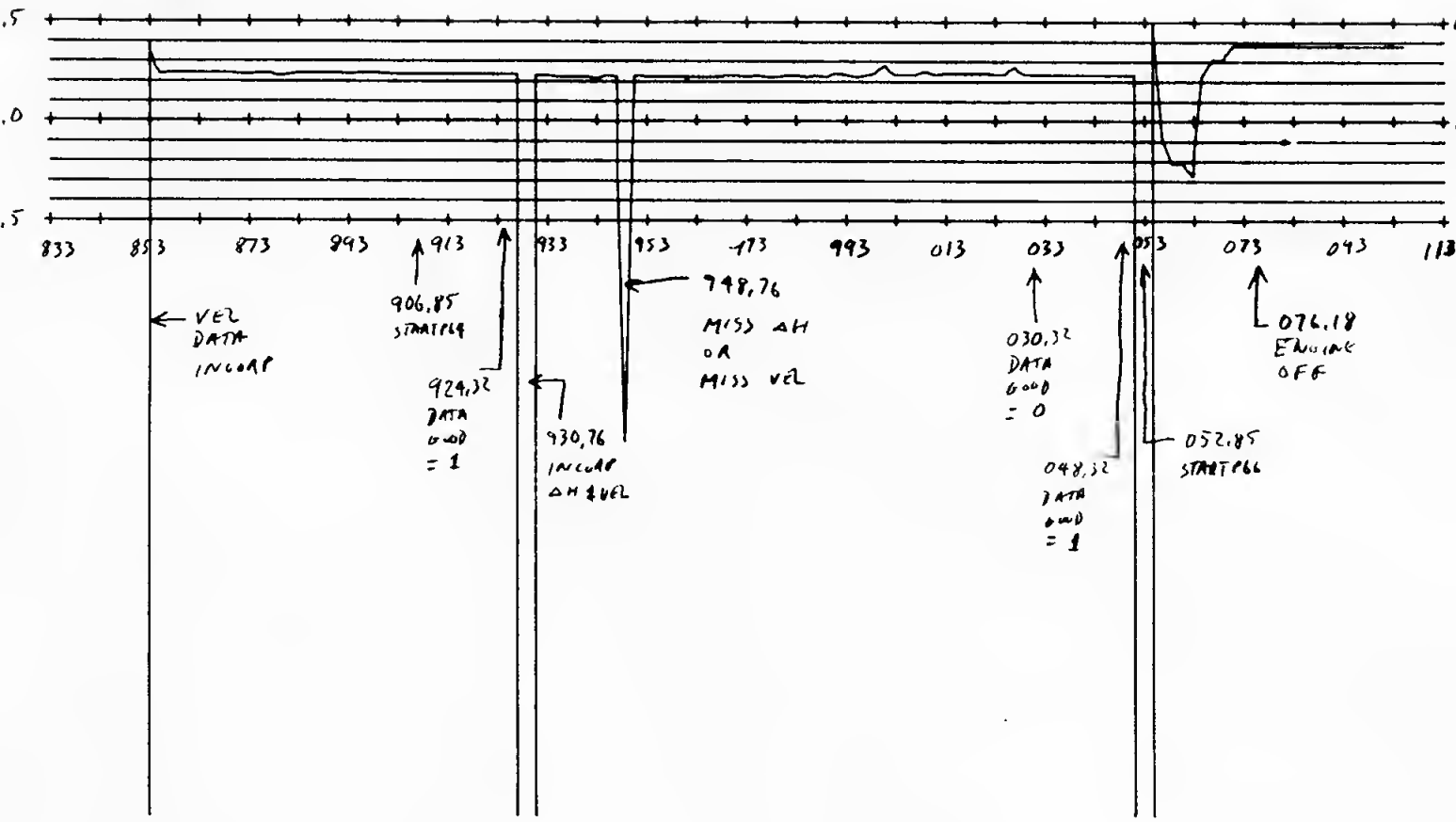
X'S MARK 100 PC
◇'S MARK TRUPT
□'S MARK TJOB
✱'S MARK TLOSS

A131888
NO TLOSS



A131888

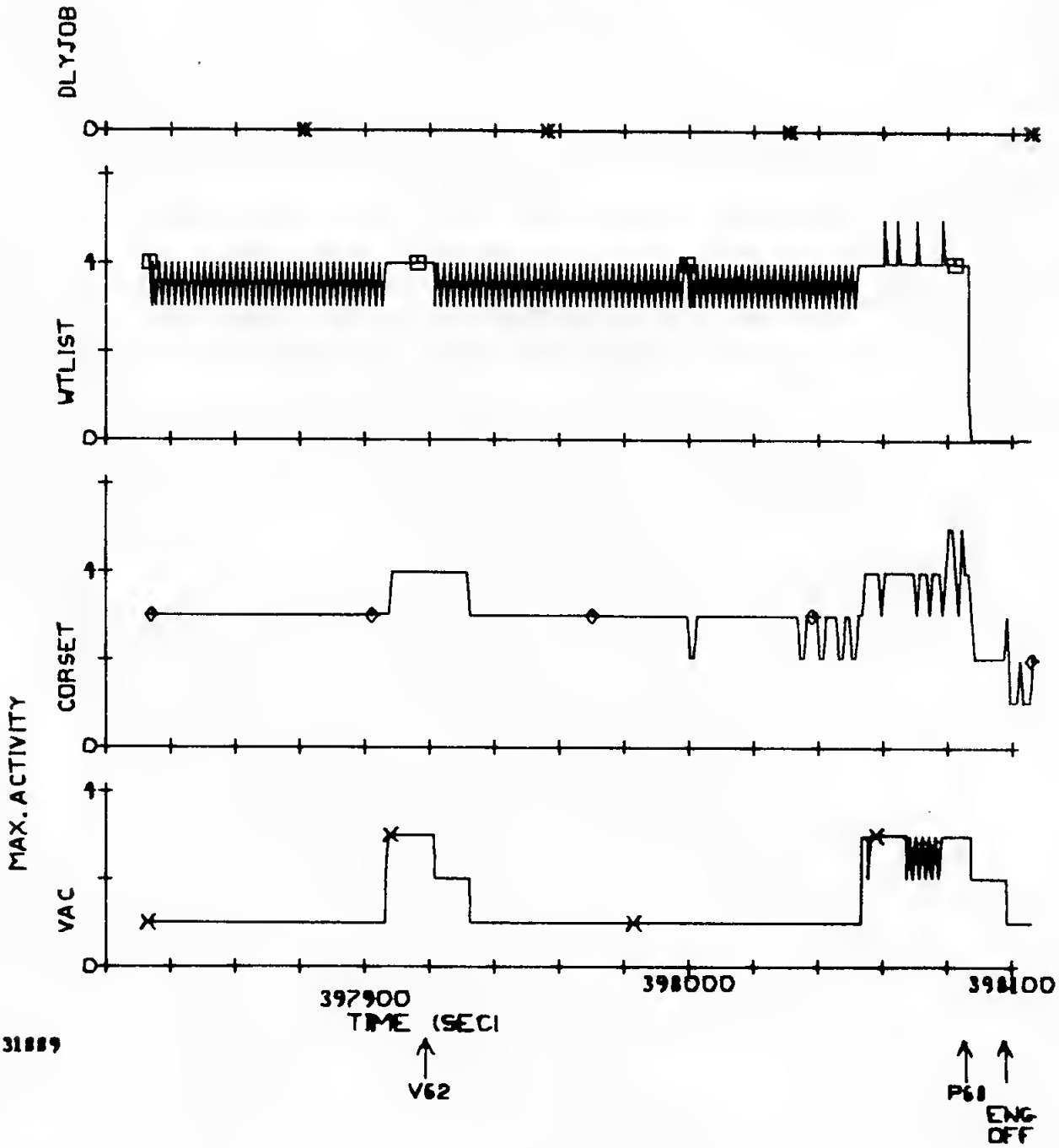
A131889
3.5% TLOSS



AGC ACTIVITY

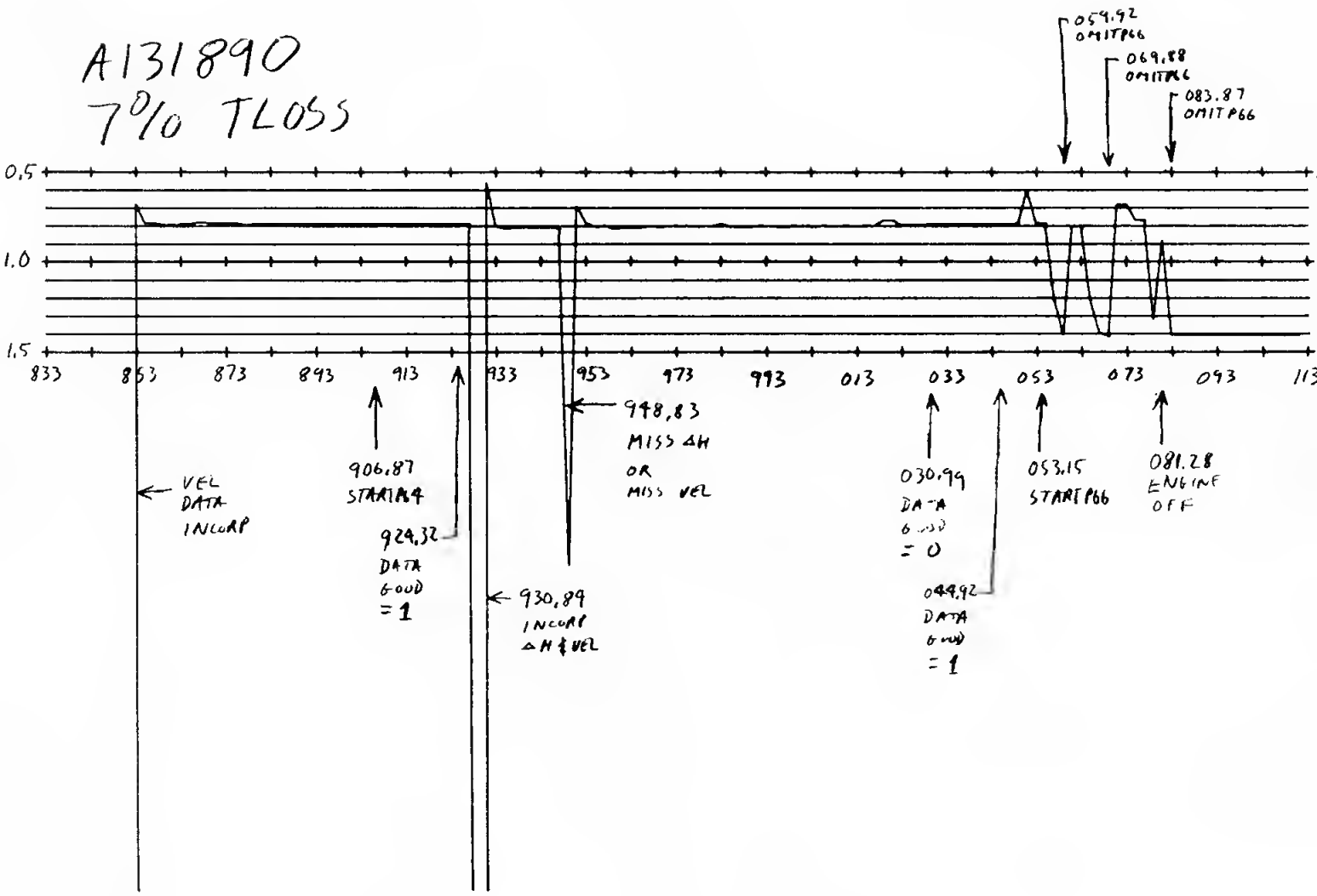
X'S MARK VAC
o'S MARK CORSET
□'S MARK WTLIST
*'S MARK DLYJOB

A131889
3.5% R<5>



A131889

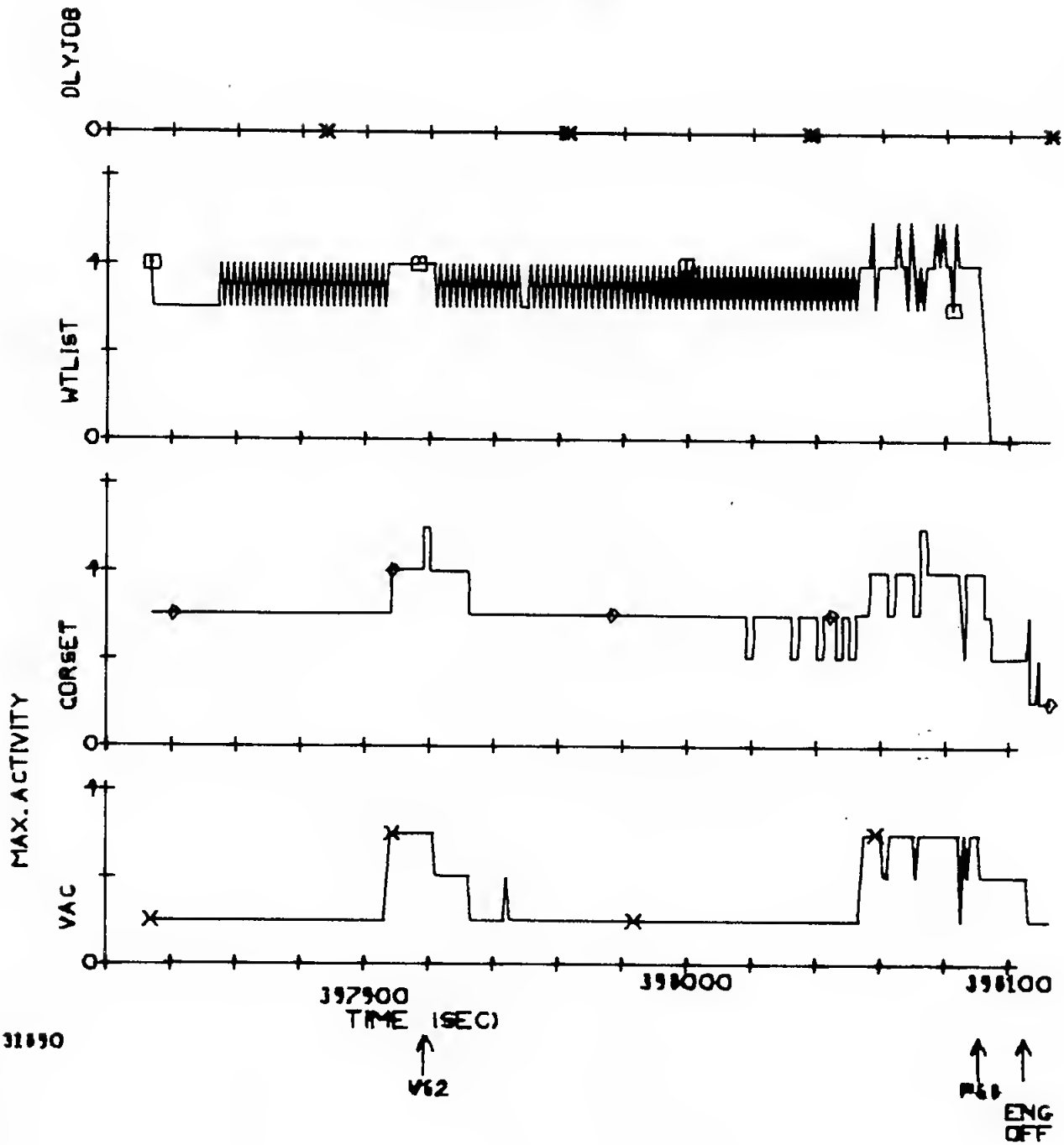
A131890
7% TLOSS



AGC ACTIVITY

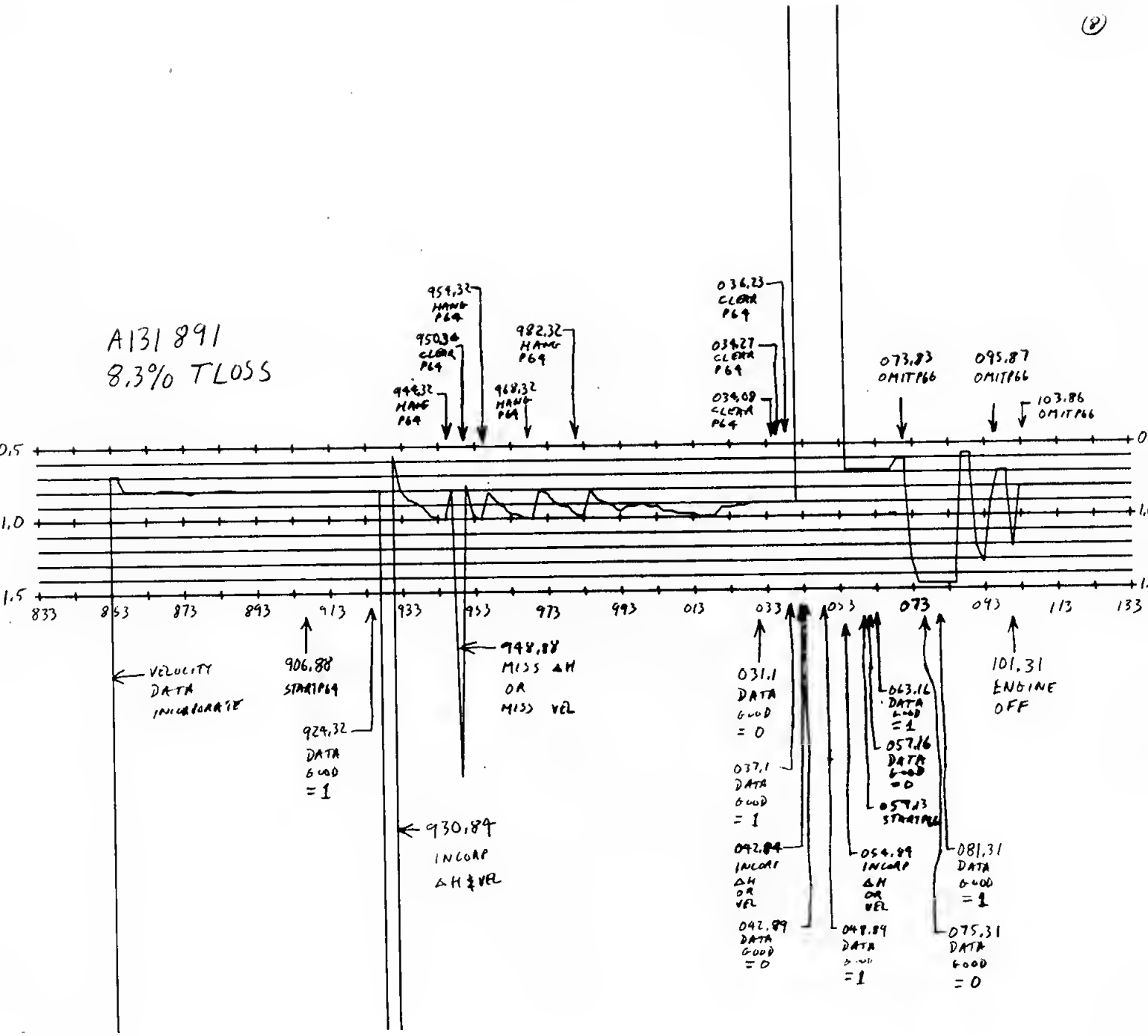
X'S MARK VAC
◇'S MARK CORSET
□'S MARK WTLIST
✱'S MARK DLYJOB

A131890
7% TLOSS



A131890

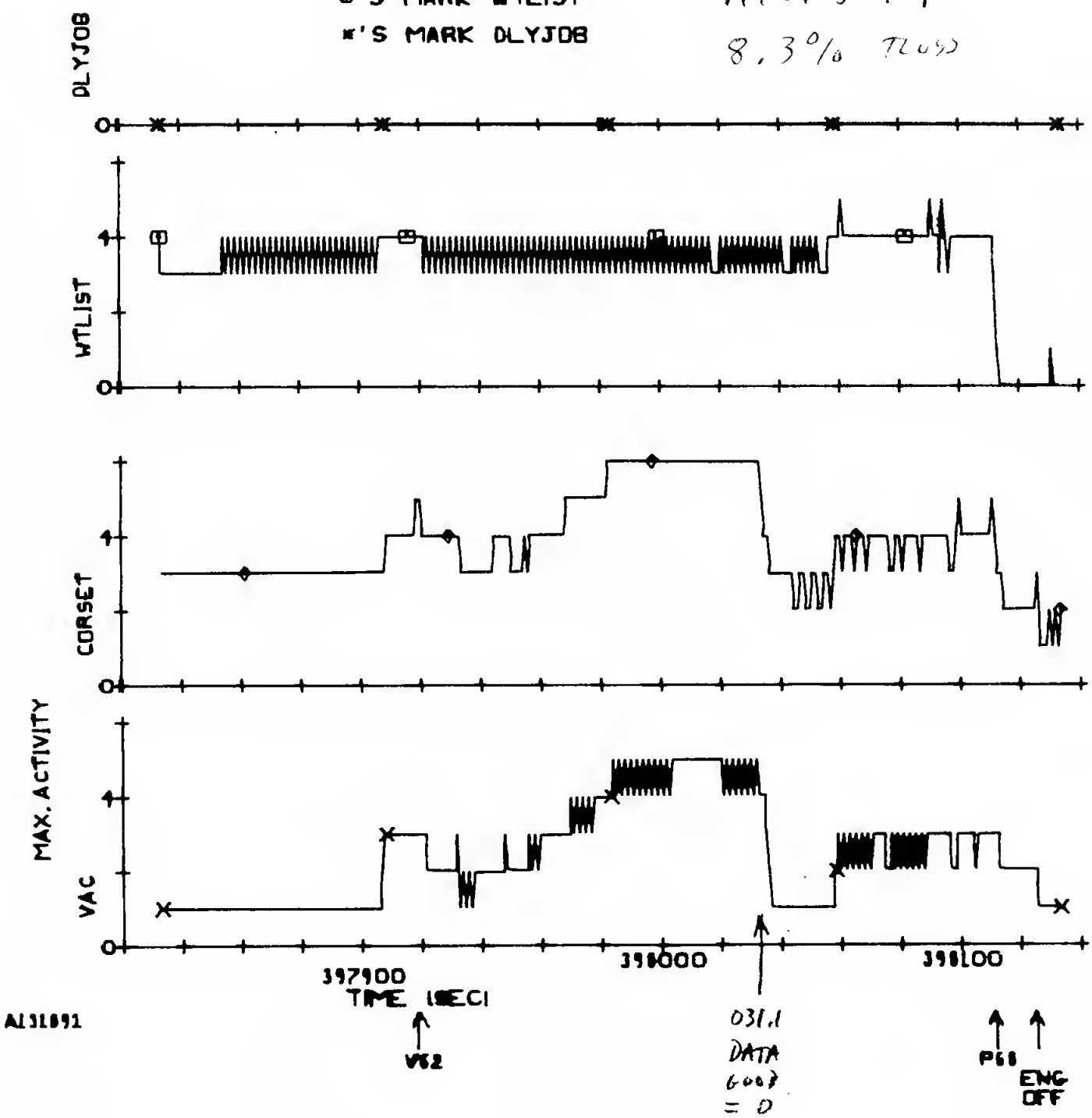
A131 891
8.3% TLOSS



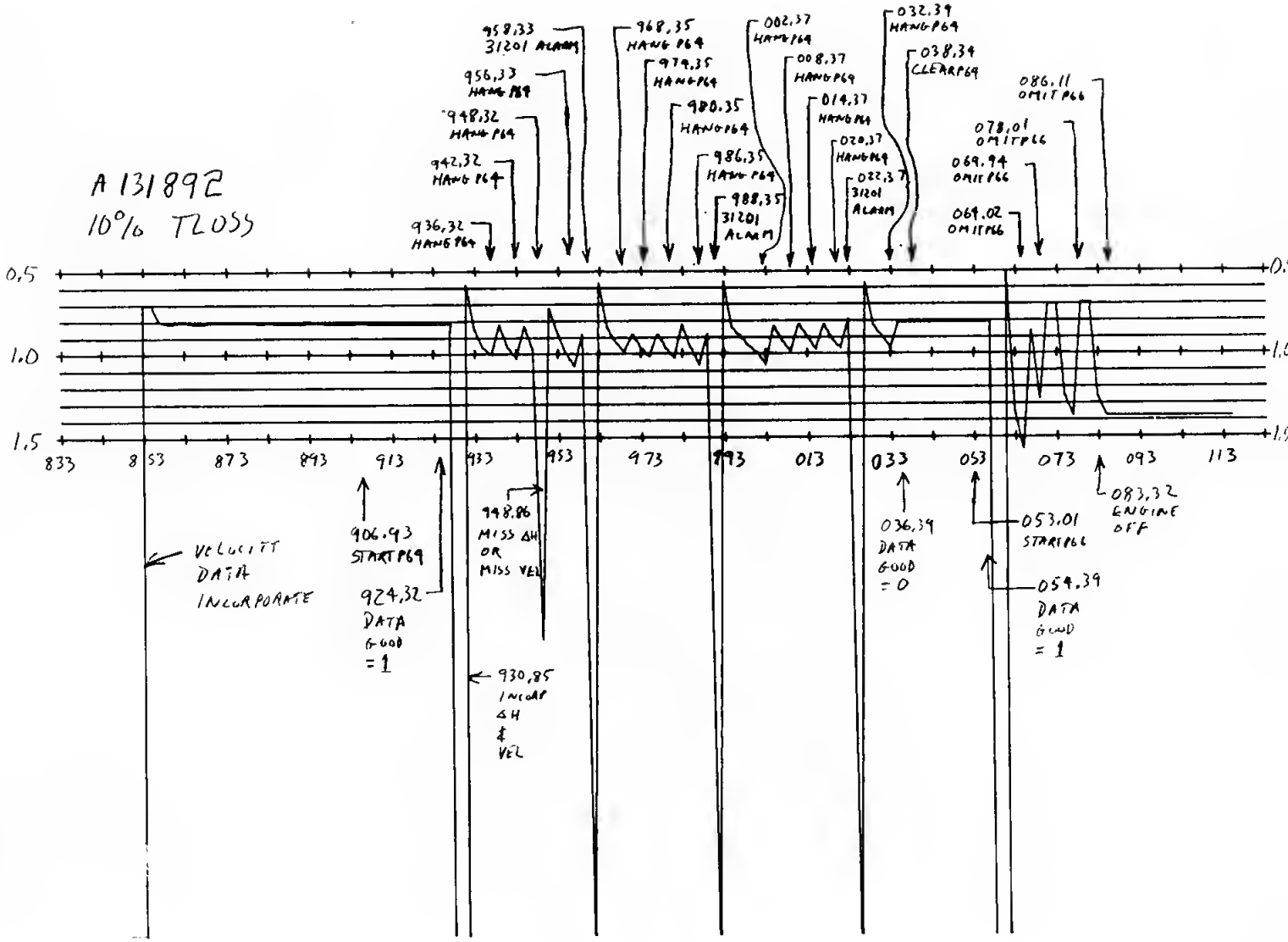
AGC ACTIVITY

X'S MARK VAC
◊'S MARK CORSET
□'S MARK WTLIST
*'S MARK DLYJOB

A131891
8.3% TLOSS



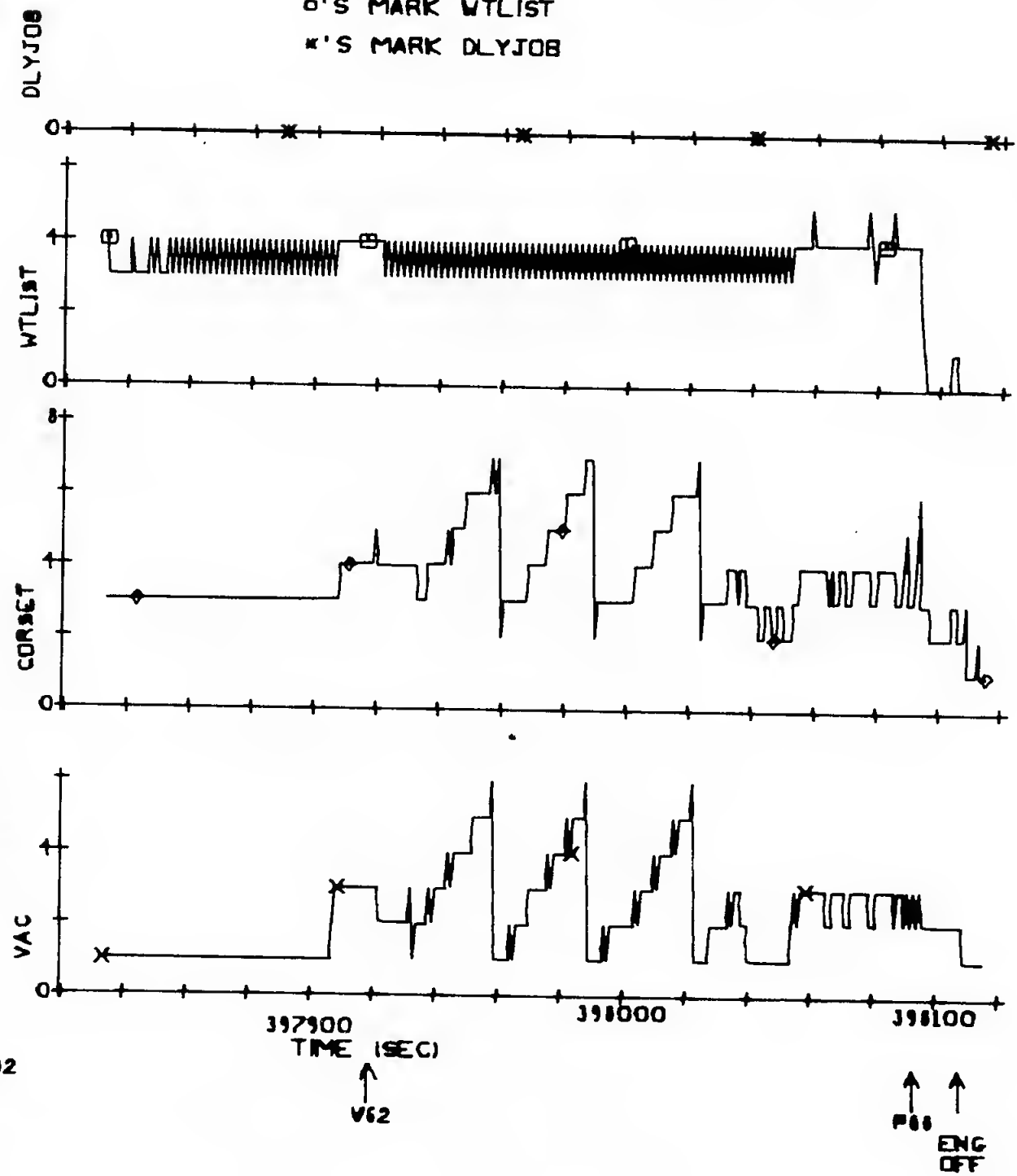
A131891


A 131892
10% TLOSS
0.5
1.0
1.5
833
853
873
893
913
933
953
973
993
013
033
053
073
093
113
958.33 31201 ALARM
956.33 HANG P69
948.32 HANG P69
942.32 HANG P69
936.32 HANG P69
968.35 HANG P69
979.35 HANG P69
980.35 HANG P69
986.35 HANG P69
988.35 31201 ALARM
002.37 HANG P69
008.37 HANG P69
014.37 HANG P69
020.37 HANG P69
022.37 31201 ALARM
032.39 HANG P69
038.39 CLEAR P69
078.01 OMIT P66
069.94 OMIT P66
069.02 OMIT P66
086.11 OMIT P66
VELOCITY DATA INCORPORATE
906.93 START P69
924.32 DATA GOOD = 1
948.86 MISS ΔH OR MISS VEL
930.85 INCORP ΔH & VEL
036.39 DATA GOOD = 0
053.01 START P66
054.39 DATA GOOD = 1
083.32 ENGINE OFF

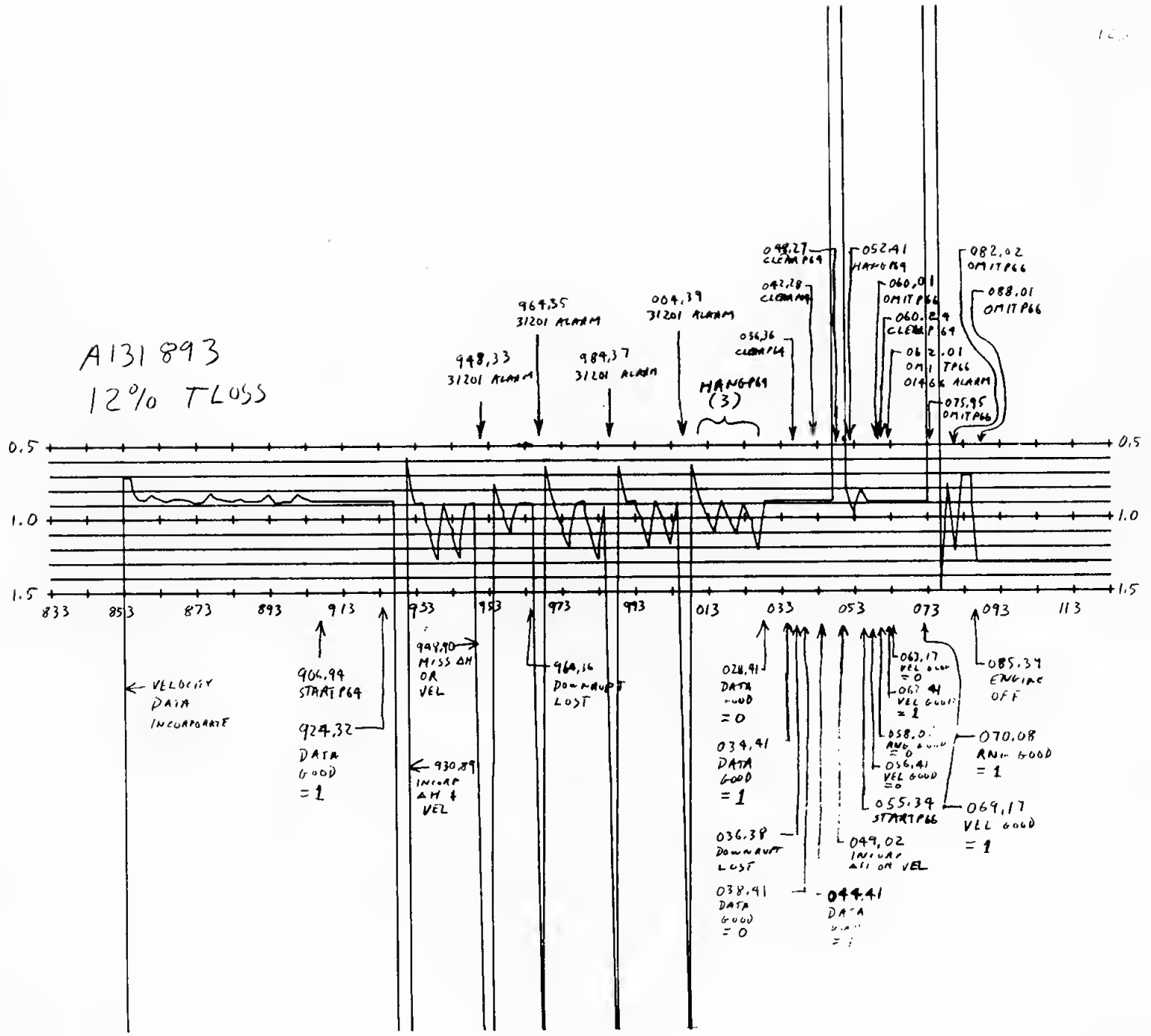
AGC ACTIVITY

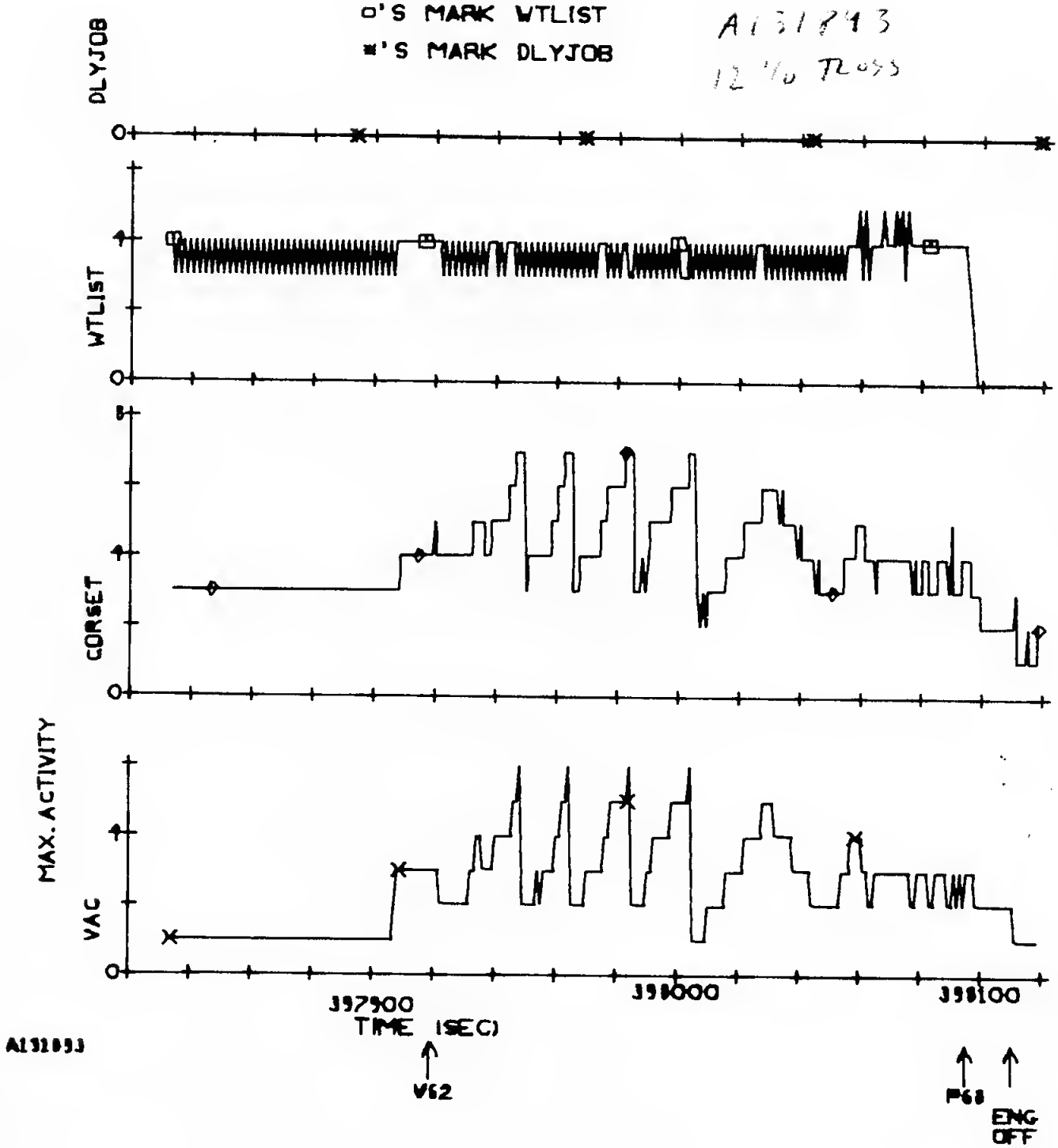
X'S MARK VAC
◇'S MARK CORSET
□'S MARK WTLIST
*'S MARK DLYJOB

A131892
10% Noise



A131892


A131893
12% TLOSS
948,33
31201 ALARM
964,35
31201 ALARM
984,37
31201 ALARM
004,39
31201 ALARM
HANG P64
(3)
036,36
CLEAR P64
042,28
CLEAR P64
048,27
CLEAR P64
052,41
HANG P64
060,01
OMIT P66
060,24
CLEAR P64
062,01
OMIT P66
014,66 ALARM
075,95
OMIT P66
082,02
OMIT P66
088,01
OMIT P66
0.5
1.0
1.5
833
853
873
893
913
933
953
973
993
013
033
053
073
093
113
VELOCITY DATA INCORPORATE
906,94
START P64
924,32
DATA GOOD = 1
948,90
MISS ΔH OR VEL
930,89
INCORP ΔH & VEL
964,16
DOWNRUPT LOST
028,41
DATA GOOD = 0
034,41
DATA GOOD = 1
036,38
DOWNRUPT LOST
038,41
DATA GOOD = 0
044,41
049,02
INCORP ΔH OR VEL
055,34
START P66
056,41
VEL GOOD = 0
063,17
VEL GOOD = 0
067,41
VEL GOOD = 1
070,08
RNG GOOD = 1
069,17
VEL GOOD = 1
085,39
ENGINE OFF


AGC ACTIVITY
X'S MARK VAC
◇'S MARK CORSET
□'S MARK WTLIST
*'S MARK DLYJOB
A131843
12 % TROSS
DLYJOB
WTLIST
CORSET
MAX. ACTIVITY
VAC
0
4
8
397900
398000
398100
TIME (SEC)
V62
P68
ENG OFF
A131893