

Attachment 4
Test 001-08, 2/29/96

Materials contained in attachment 4

Test data tracking form

Test engineer's notes

~~Test sequence~~

Time-history data plots for:

Conditions B1.39.0928.101-.102

Condition B1.39.0928.103.1

Conditions B1.39.0928.103.6-103.7

Conditions B1.39.0928.105-.111

Conditions B1.39.0928.107.2-107.3

Condition B1.39.0928.108.1

Conditions B1.39.0928.201-.203

Condition B1.39.0928.201.1

Conditions B1.39.0928.205-.210

Condition B1.39.0928.209.1

FLIGHT TEST DATA SHEET

IMPORTANT: DO NOT USE BLUE INK AS IT WILL NOT REPRODUCE FROM THE ORIGINAL

TAPE ON	08:01:29	TAPE ON	
	08:05:50	20° L	Roller, 50 pounds Force
	06:40	20° R	Roller, 50 pounds Force
	08:07:00	Neutral	
		Note:	A 125 Kts pilot pressure is required on the rudder feel computer to simulate the same pedal force as a -300 model. There is a leak in the SAFT Val and they are fixing it now
NOTE:	Since the main & secondary actuators have been removed so many times Measurement Abi 3022 437 & 3022 434 (The Torque Tube Position) are very questionable.		
TAPE OFF	08:30:01		
TAPE ON	08:36:12		
NOTE:	We will run the test without the 125 Kts		
B1.39.0928.101	08:39:47	A & B ON	
	08:40:22	125 Kts	
	08:44:45	20° L R	62 lbs force
	08:46:15	20° R R	50 lbs force
B1.39.0928.101	08:47:30	Begin	Note: We don't have 125 Kts but we will press on anyway.
	08:48:11	End	
B1.39.0928.102	08:49:16	Begin, Duell, $\pm 3^\circ$ R, 0.3 Hz	
	09:00	End	
B1.39.0928.103	08:51:10	Begin Duell $\pm 1^\circ$ R, 0.3 Hz	
	08:51:45	Begin Manual Sweep of Pedals	
	08:52:43	End Manual Sweep of Pedals	
B1.39.0928.103.1	08:54:35	Input Duell	Note: the duell stopped halfway thru and
	08:54:48	Manual Sweep	.103 so we repeated it for .103.1...
		End	
B1.39.0928.103.2	08:57:00	Hardover	
	08:57:29	End (Invalid)	

SHEET 1 of 4	TITLE 737-200 Rudder Sys	MODEL
RECORDER D. Nagesh	Ground Testing	AIRPLANE
TEST NO. 001-08	BOEING	DOC. NO.
DATE 2/29/96		PAGE

-LIGHT TEST DATA SHEET

IMPORTANT: DO NOT USE BLUE INK AS IT WILL NOT REPRODUCE FROM THE ORIGINAL

Bl. 39.0928.103.3	08:59:15	Handover (Invalid)		
	08:59:40	End		
Bl. 39.0928.103.4	—	Handover (Invalid)		
Bl. 39.0928.103.5	09:01:45	Handover (Invalid)		
	09:02:25	End		
	09:02:30	Begin Pedal Sweep		
	09:02:05	End		
Bl. 39.0928.103.6	09:07:35	Handover / Rudder Sweep (- Hand)		
	09:08:11	End (Good one)		
Bl. 39.0928.103.7	09:10:25	Handover / Rudder Sweep (+ Hand)		
	09:10:57	End (Good one)		
Bl. 39.0928.104	09:11:25	Engines are installed on Rudder T.E.		
Bl. 39.0928.105	09:14:03	B & Standby Rudder (Hyd) Pressure		
	1:14:30	Rudder Pedal Cycle		
	09:14:54	End		
Bl. 39.0928.106	09:15:45	Begin $\pm 3^\circ$ & R, 0.3 Hz Dwell		
	09:16:20	End		
Bl. 39.0928.107	09:17:10	Begin $\pm 1^\circ$ & R, 0.3 Hz Dwell / Manual Sweep		
	09:17:45	End		
Bl. 39.0928.107.1	09:18:45	Handover L / Rudder Sweep (+ Hand)		
	09:19:35	End		
Bl. 39.0928.107.2	09:21:59	Handover L / Rudder Sweep (+ Hand)		
	09:22:40	End		
Bl. 39.0928.107.3	09:23:06	Handover R / Rudder Sweep (- Hand)		
	09:23:56	End		
Bl. 39.0928.108	09:24:45	A, B, & Standby		
	09:25:11	Begin sweep		
	09:25:37	End		
Bl. 39.0928.108.1	09:34:25	Begin Handover sweep		
	09:34:42	End		
Bl. 39.0928.109	09:35:40	Begin Dwell, 3.0° & R, 0.3 Hz		
	09:36:15	End		
Bl. 39.0928.110	09:38:16	Begin Dwell, 1.0° & R, 0.3 Hz		
	1:38:30	Manual Sweep		
	1:38:45	End Sweep		
	09:39:00	End Dwell		

SHEET 2 OF 4	TITLE 737-200 Rudder Sys	MODEL
RECORDER P. Nagesh	Ground Test	AIRPLANE
TEST NO. 101-08	BOEING	DOC. NO.
DATE 2/29/96		PAGE

FLIGHT TEST DATA SHEET

IMPORTANT: DO NOT USE BLUE INK AS IT WILL NOT REPRODUCE FROM THE ORIGINAL

		09:39:51	Standby Sys Only
B1.39.0928.111		09:42:05	Begin Pedal Sweep
		09:42:27	End
		09:44:41	Cycle Rudder
		09:45:45	Hyds OFF
TAPE OFF		09:46:00	
TAPE ON		15:43:00	
		15:43:22	L Rudder (Standby Hyd Only)
		15:43:30	R Rudder
		15:43:45	Cycles of Rudder
		15:46:23	A&R ON
		15:50:30	Inert 20°dn & Hold
		15:51:13	19.7° @ 77 pounds
		15:52:20	-19.4° @ -66 pounds
B1.39.0928.201		15:54:45	Begin Sweep
		15:55:10	End
B1.39.0928.201.1		15:57:15	Slow Pedal Sweep
		15:57:45	End
			A&R Hyds ON
		15:58:57	19.8° @ 68 lbs
		15:59:26	-19.1° @ -52 lbs
		15:59:36	Neutral
B1.39.0928.202		16:00:30	Begin Dwell $\pm 3^\circ$ @ 0.3 Hz
		16:01:10	End
B1.39.0928.203		16:02:10	Begin Dwell $\pm 1^\circ$ @ 0.3 Hz
		16:02:23	Manual Sweep
		16:02:50	End Manual Sweep
		16:03:10	End Dwell

SHEET 3 OF 4
 RECORDER D. Nagel
 TEST NO. 001-08
 DATE 2/29/96

TITLE 737-200 Rudder Sys
 Ground Testing
BOEING

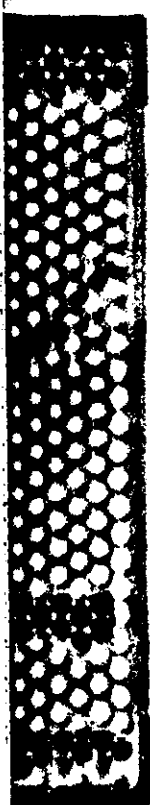
MODEL
 AIRPLANE
 DOC. NO.
 PAGE

FLIGHT TEST DATA SHEET

IMPORTANT: DO NOT USE BLUE INK AS IT WILL NOT REPRODUCE FROM THE ORIGINAL

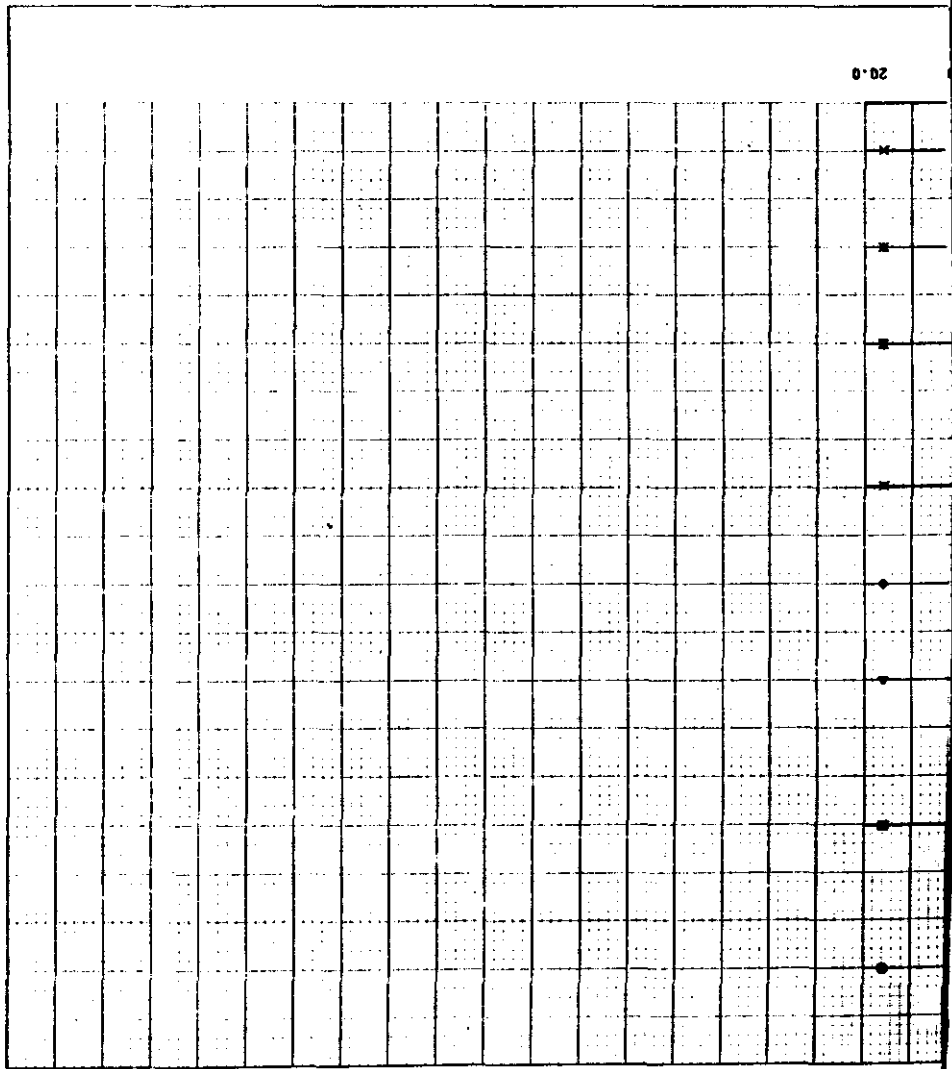
RL 39.0928 .204	16:03:52	Air Load (Rangers) are applied)	
RL 39.0928 .205	16:05:38	R & Standby	
	:07:25	Begin Manual Sweep	
	16:07:42		
RL 39.0928 .206	16:09:10	Begin 3° Dwell @ 0.3 Hz	
	16:09:50	End	
RL 39.0928 .207	16:11:10	Begin 1° Dwell @ 0.3 Hz	
	1:11:18	Begin Manual Sweep	
	1:11:—	End Manual Sweep	
	16:11:50	End Dwell	
RL 39.0928 .208	16:14:00	A & B Standby	
	16:14:15	Begin Manual Sweep	
	16:14:34	End Manual Sweep	
RL 39.0928 .209	16:15:56	Begin 3° Dwell @ 0.3 Hz	
		End Dwell	
RL 39.0928 .209.1	16:17:36	Begin 3° Dwell	3K - 3.1 K gauge pressure
	16:18:10	End Dwell	
RL 39.0928 .210	16:19:20	Begin 1° Dwell @ 0.3 Hz	
	16:19:42	Begin Manual Sweep	
	16:20:03	End Manual Sweep	
	16:20:20	End Dwell	
TAPE OFF	16:24:00		

SHEET 4 OF 4		TITLE 737-200 Rudder Sys	MODEL
RECORDER 0000 D. Nage		Ground Test	AIRPLANE
TEST NO. 001-03	51.1	BOEING	DOC. NO.
DATE 3/29/96			PAGE



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CALC		REVISED		TIME HISTORY PLOT		PG309	
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APR				TEST 001-08 TEST DATE 02/29/96		B1-39-0928	
APR				THE BOEING COMPANY		PAGE	

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737-200, PG309, RUDDER SYSTEM GROUND TESTING



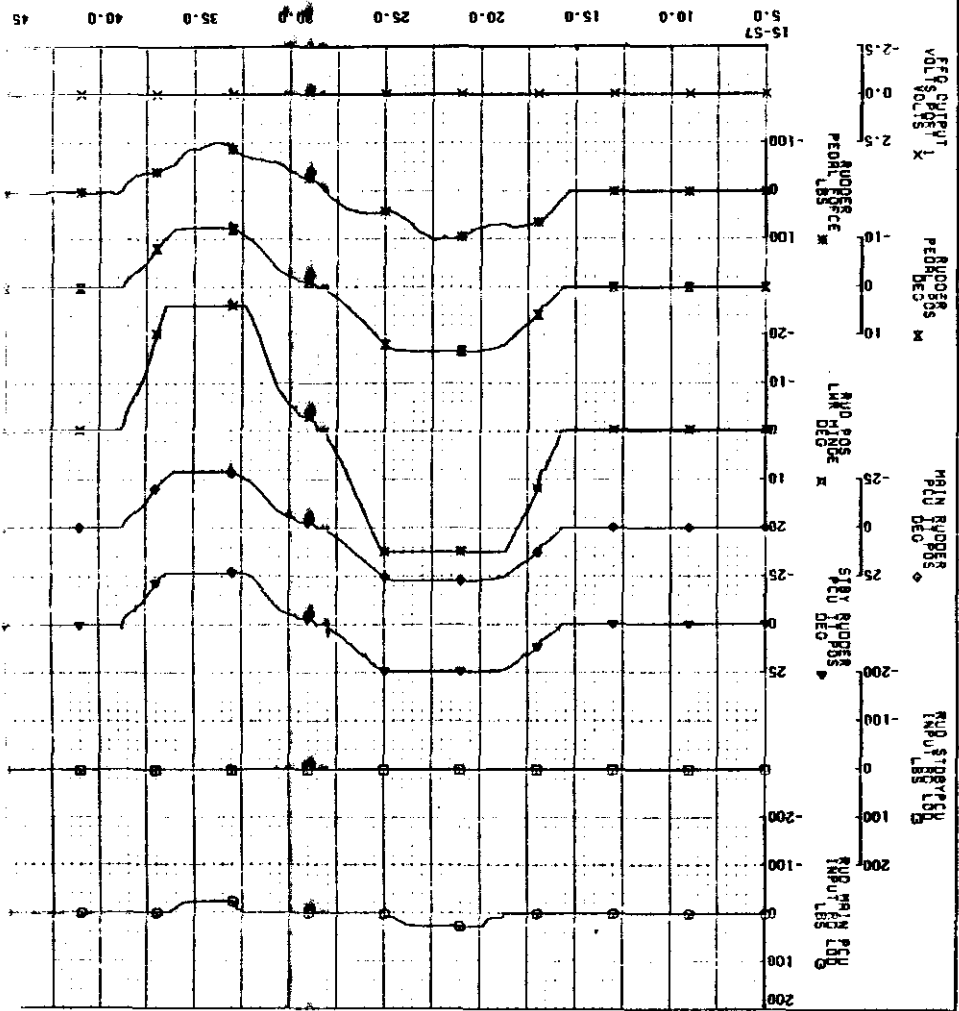
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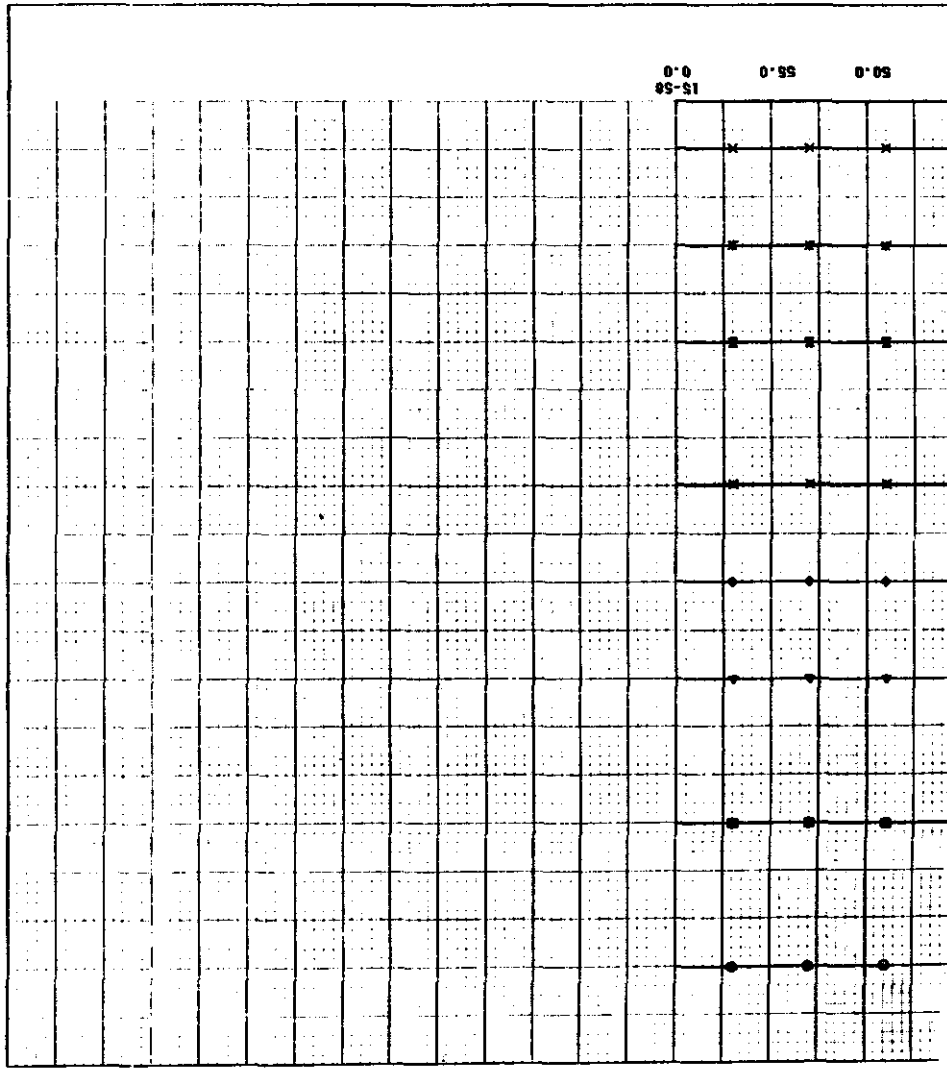
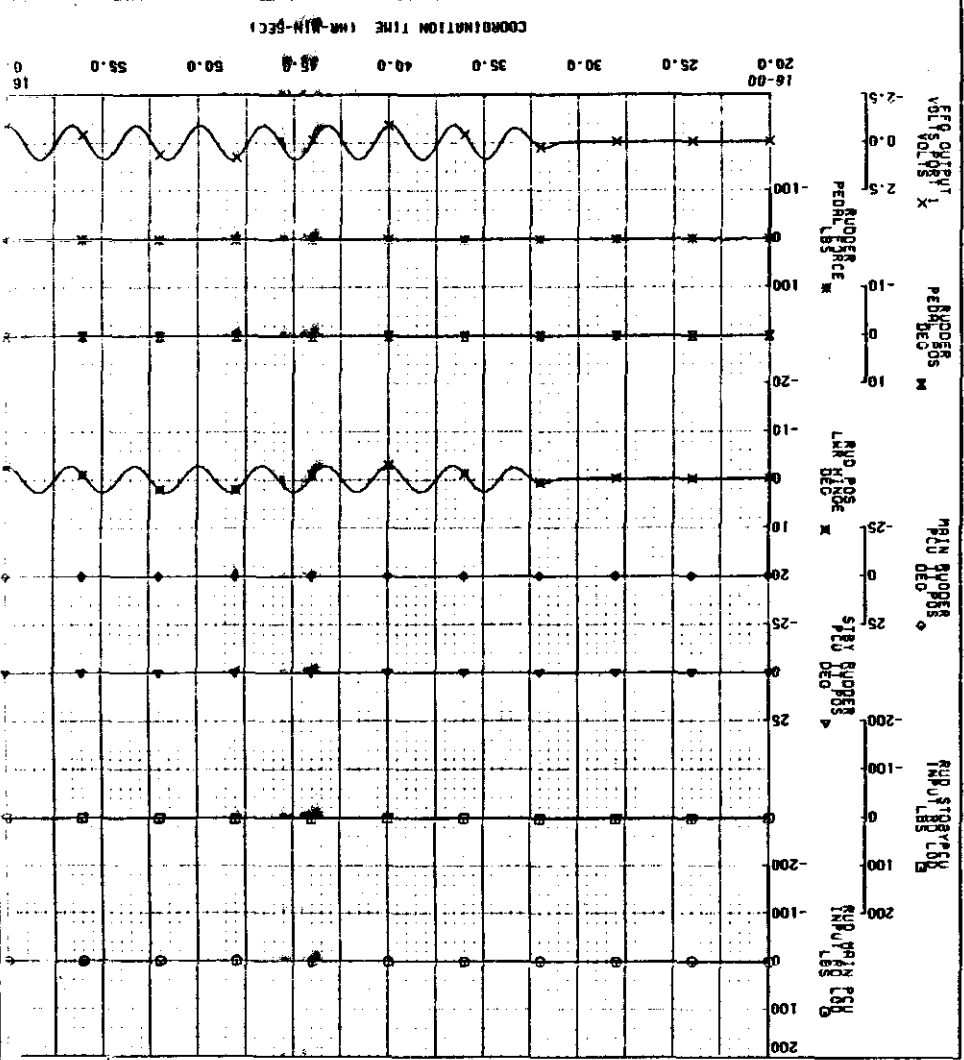
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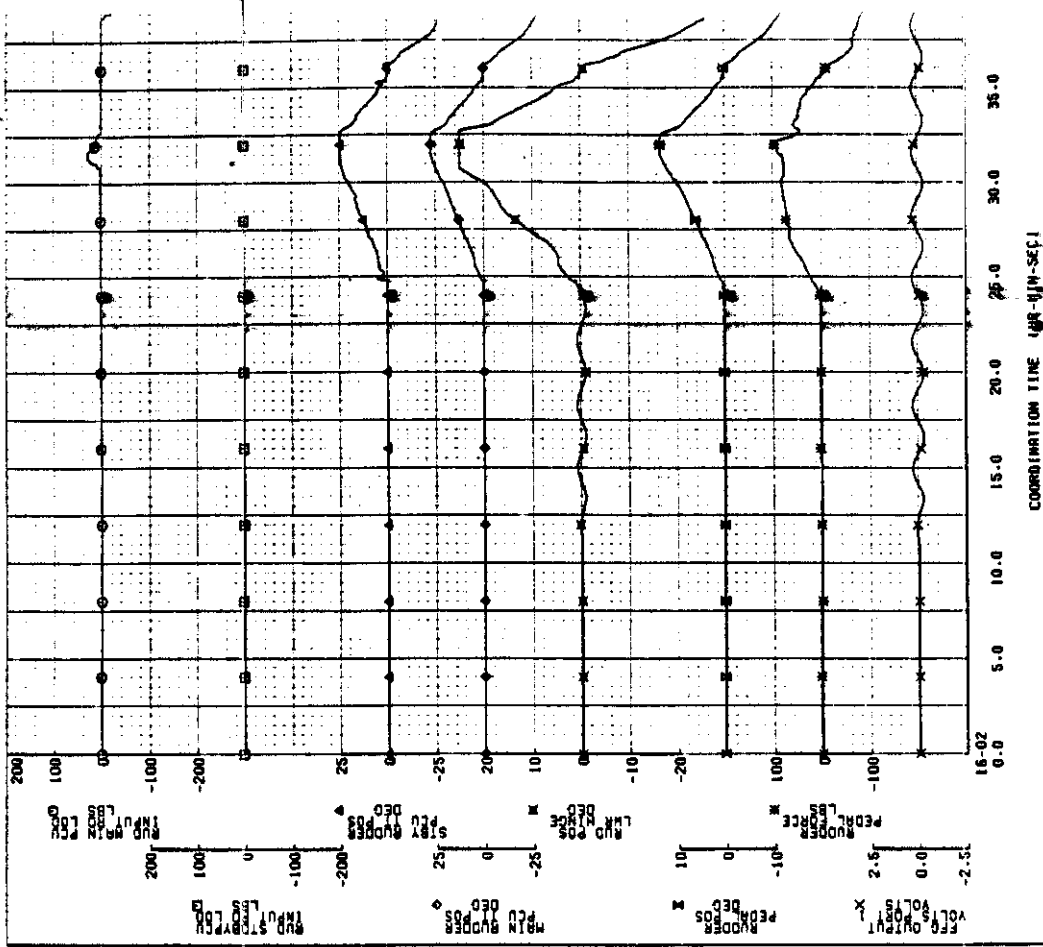
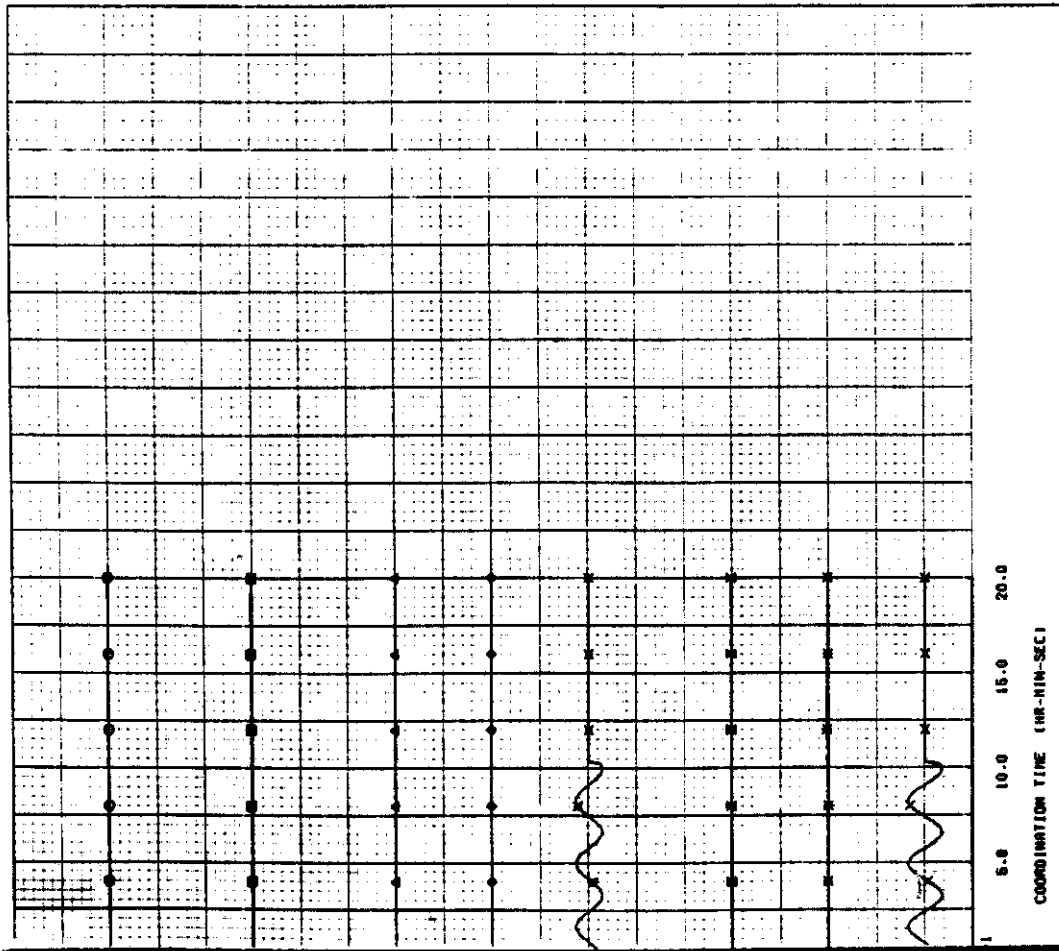
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RPR		TEST 001-08	TEST DATE 02/28/96	81.39.0928	81.39.0928
RPR		TIME BOEING COMPANY	PAGE		

COORDINATION TIME (HR-MIN-SEC)



03/05/96 1622	REC CALL 9169	737-200 RUDDER GRND TEST	737-200	PG309
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APR				PAGE

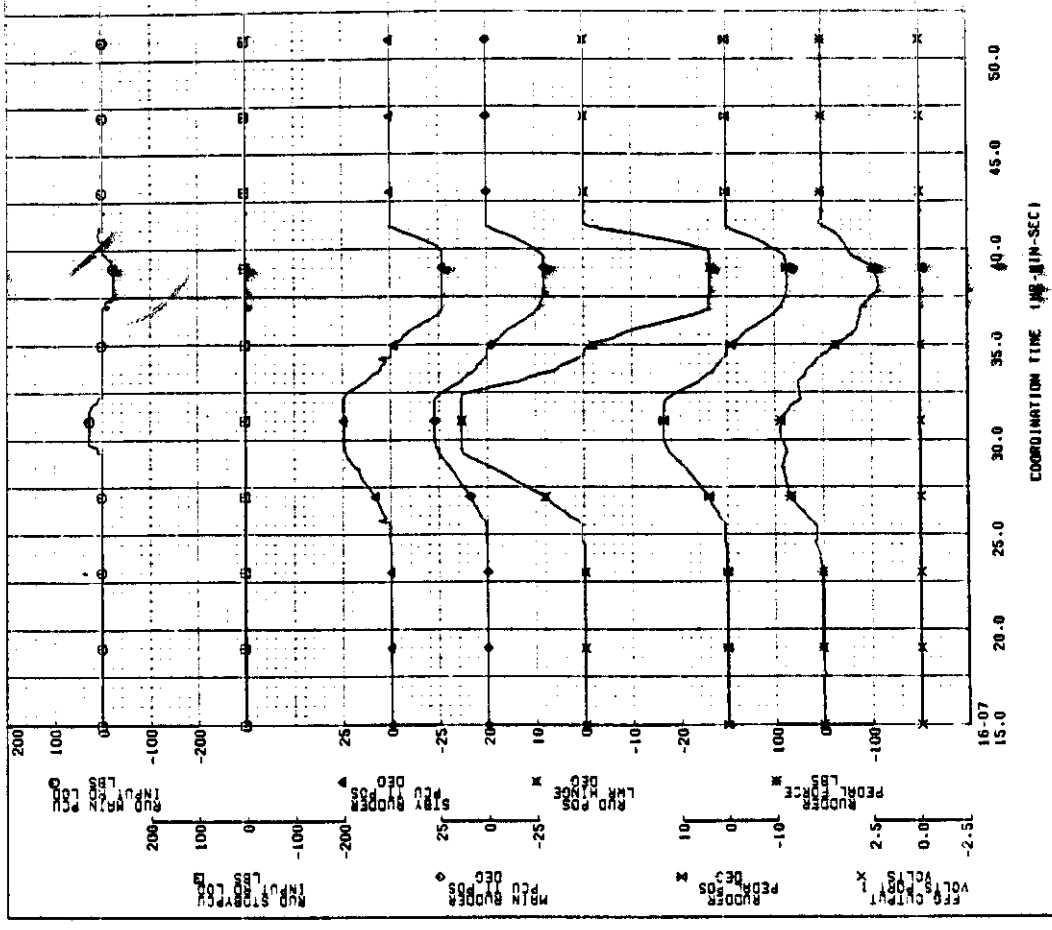
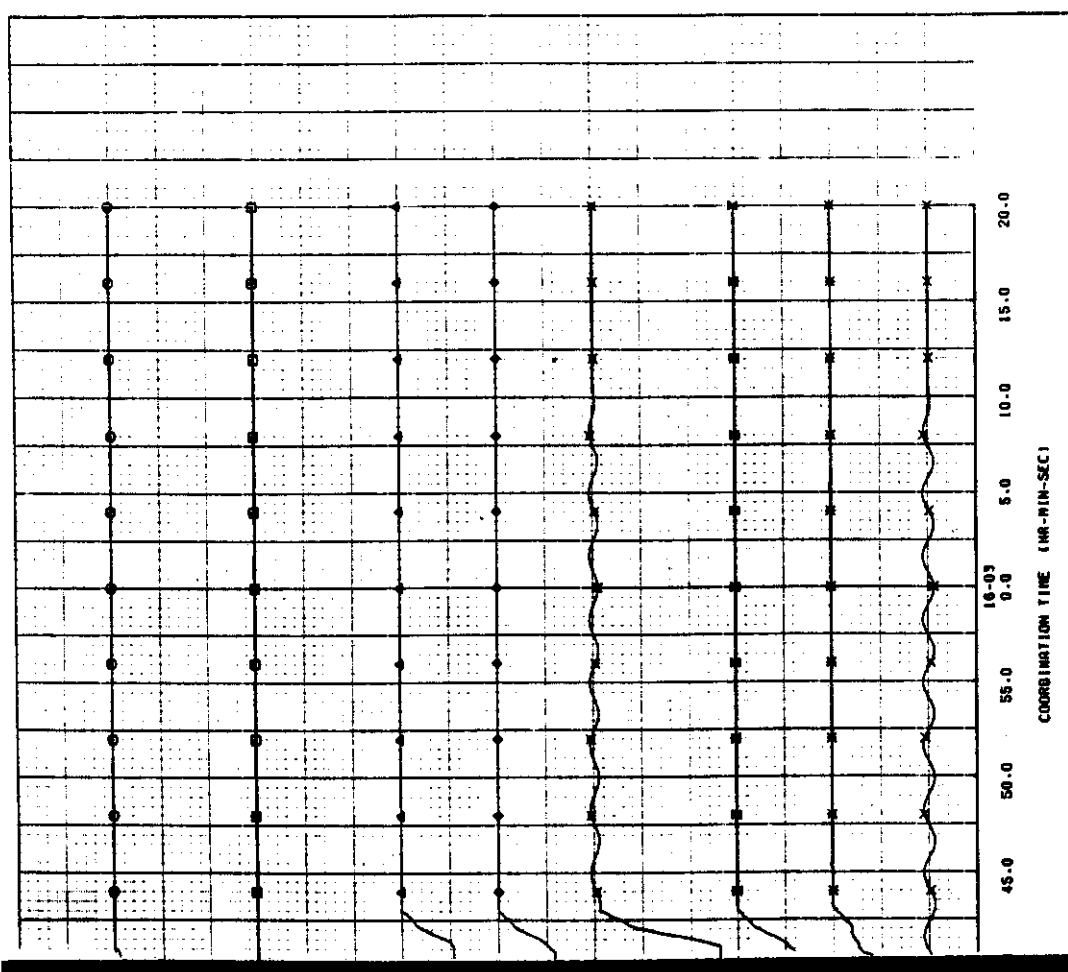




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CHECK		TEST DATE 02/29/96	81-39-0928
APR		THE BOEING COMPANY	PADE

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737-200, PG309, RUDDER SYSTEM GROUND TESTING

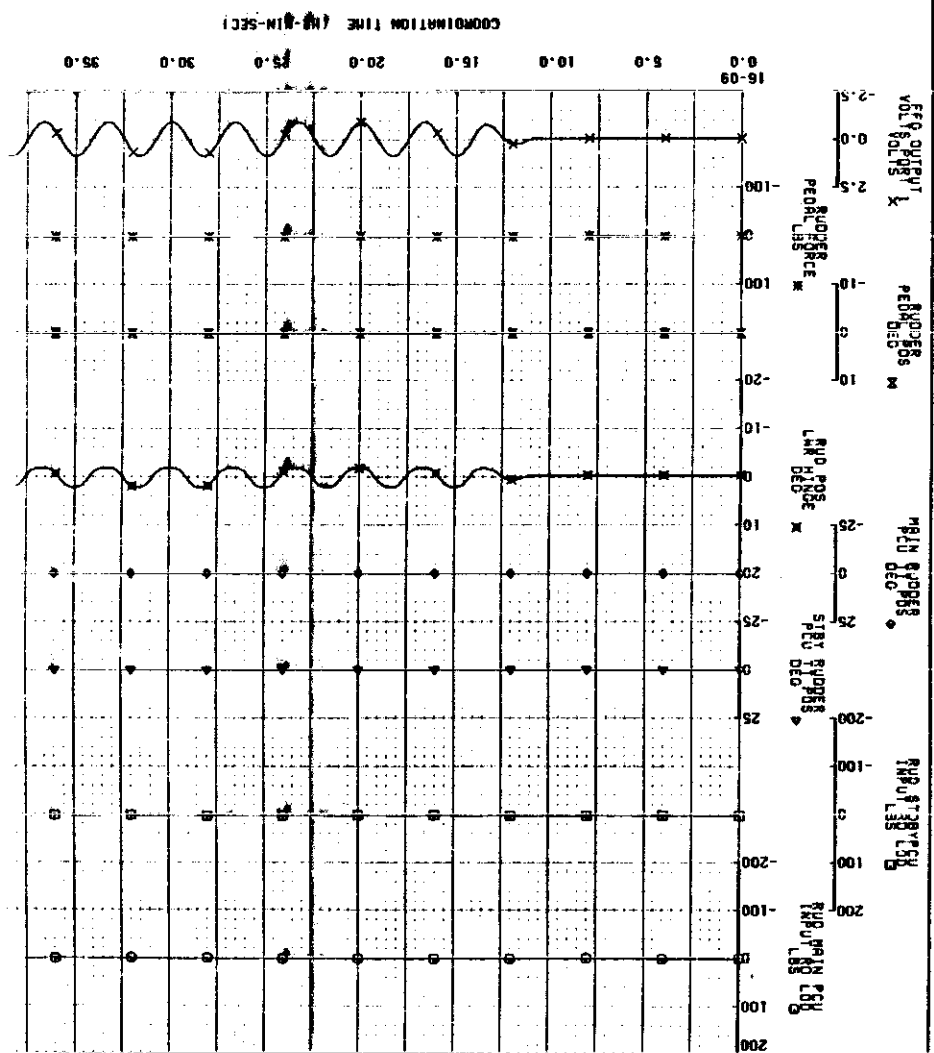
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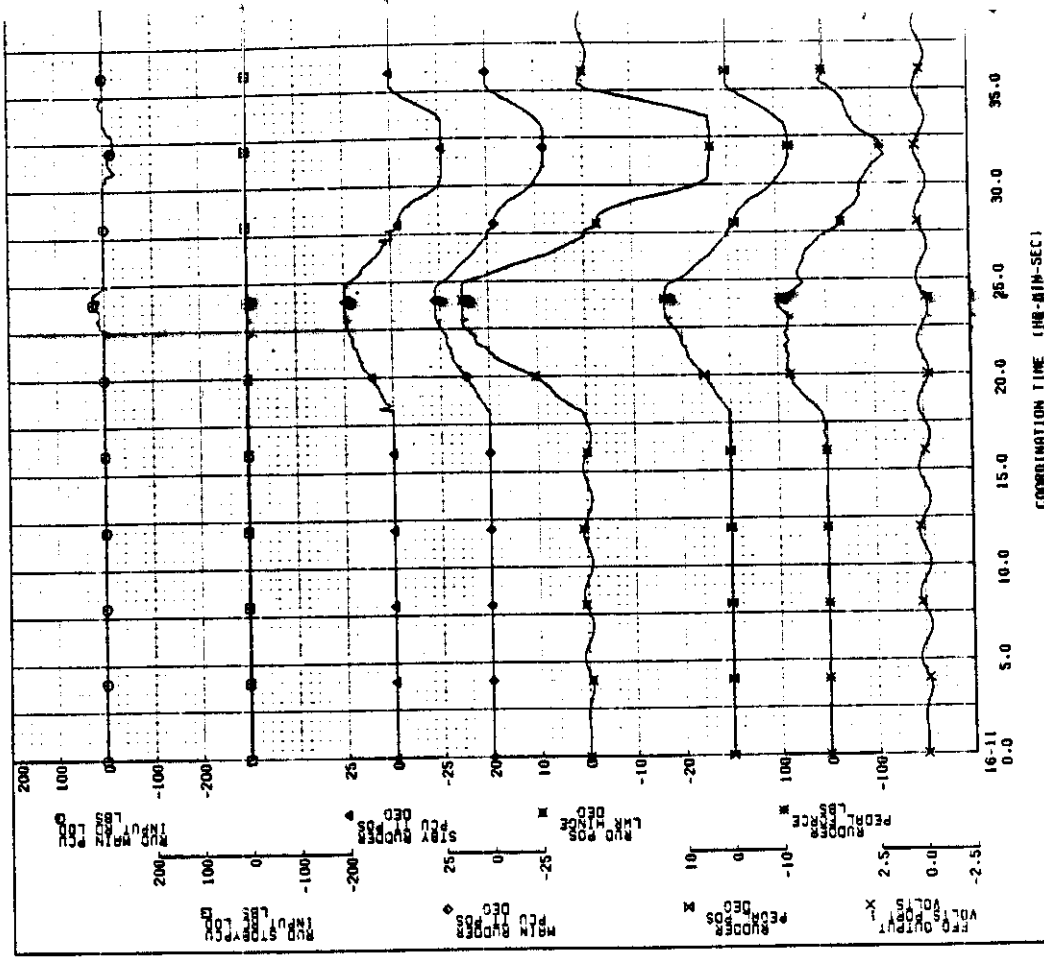
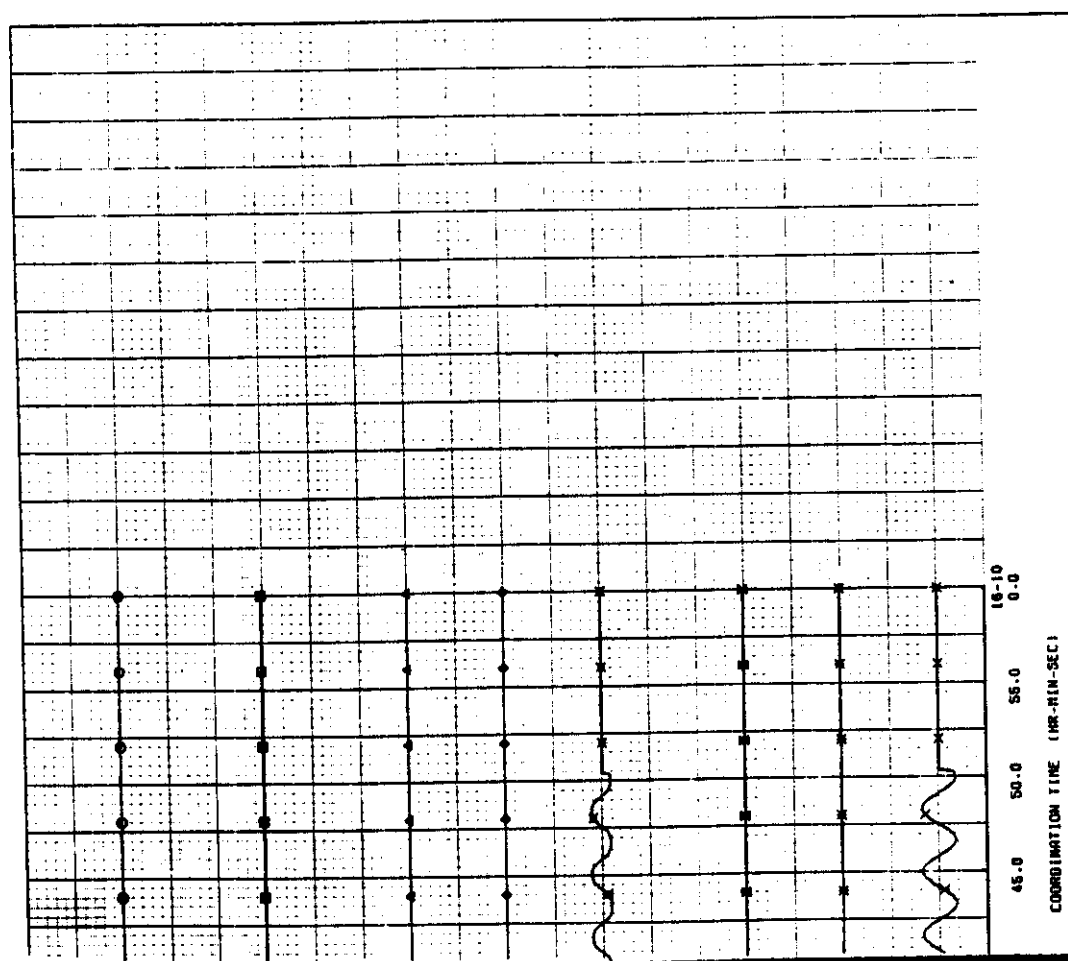
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APR		TEST DATE 02/29/96	81.39.0928
APR		THE BOEING COMPANY	PAGE

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737-200, PG309, RUDDER SYSTEM GROUND TESTING

737-200, PG309, RUDDER SYSTEM GROUND TESTING

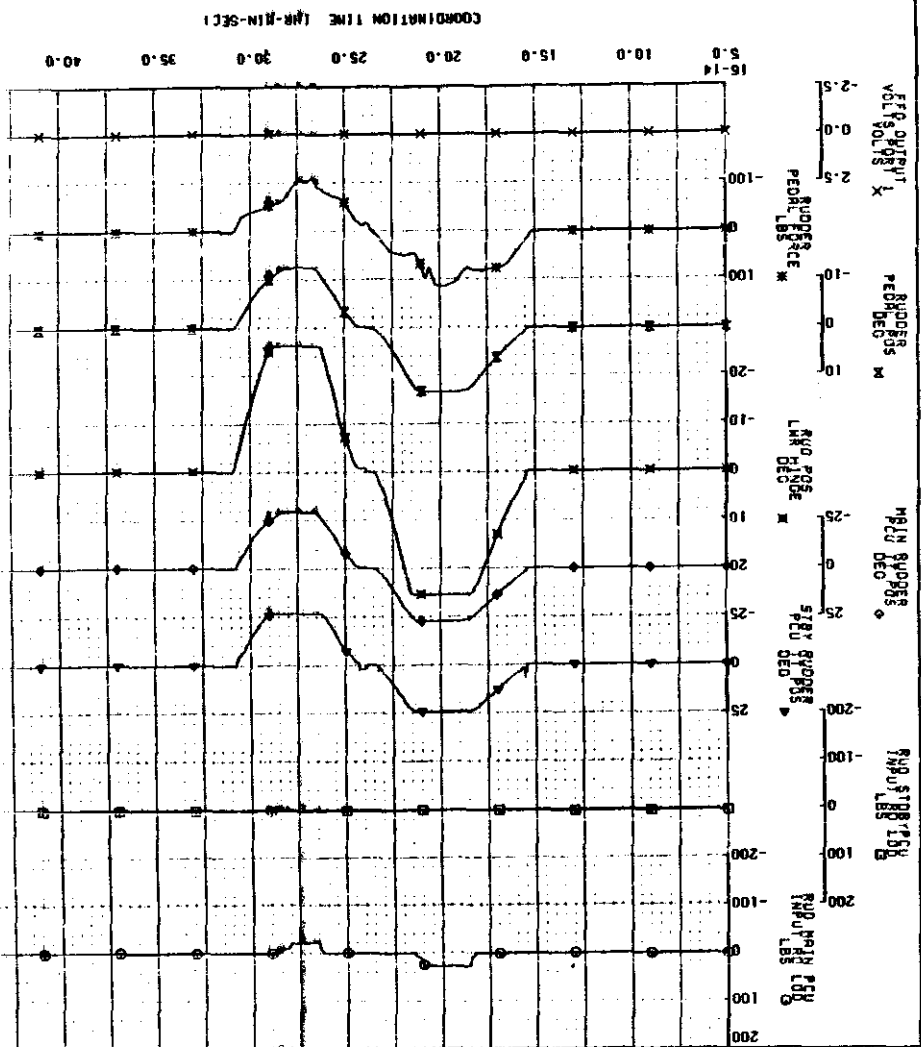
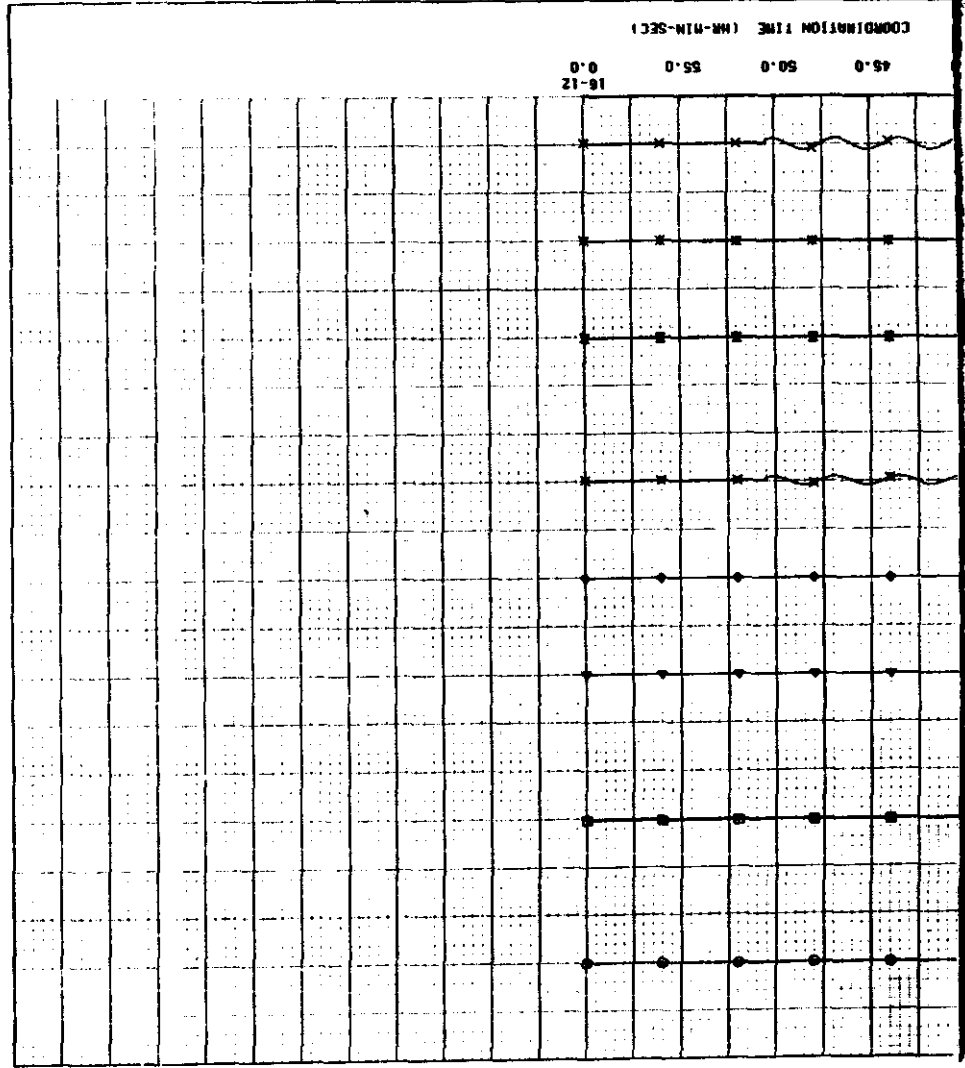
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UJC



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APR				THE GOEING COMPANY		PAGE	

FURMAT I
737-200. PC309. RUDDER SYSTEM GROUND TESTING



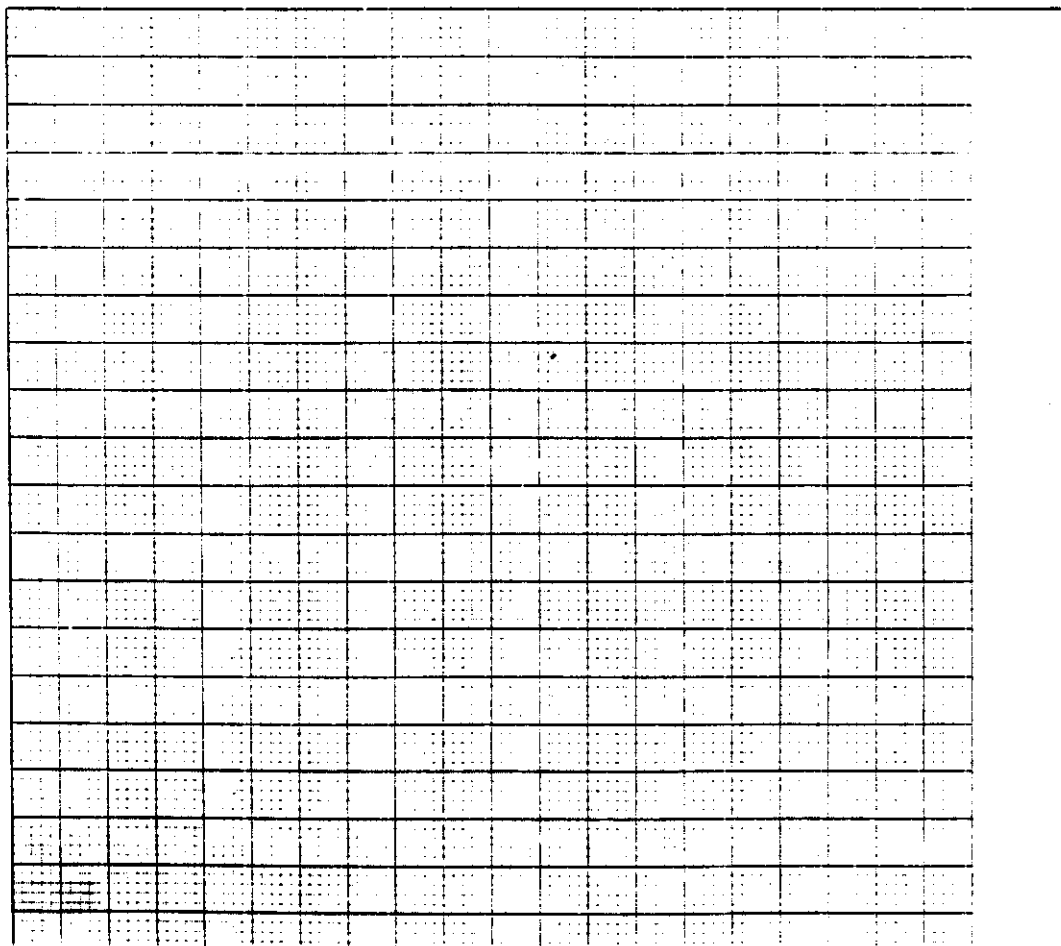
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APR		TIME BOEING COMPANY			
APR					

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737-200, PG309, RUDDER SYSTEM GROUND TESTING

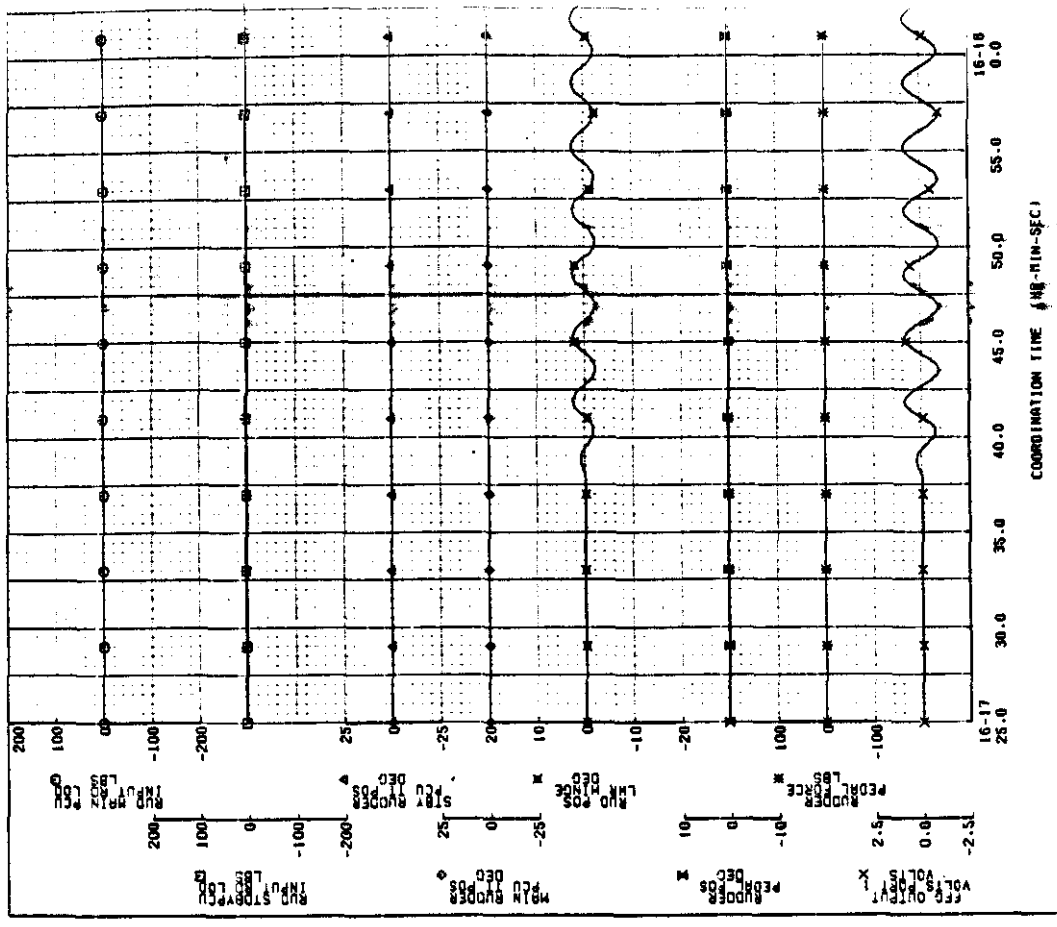
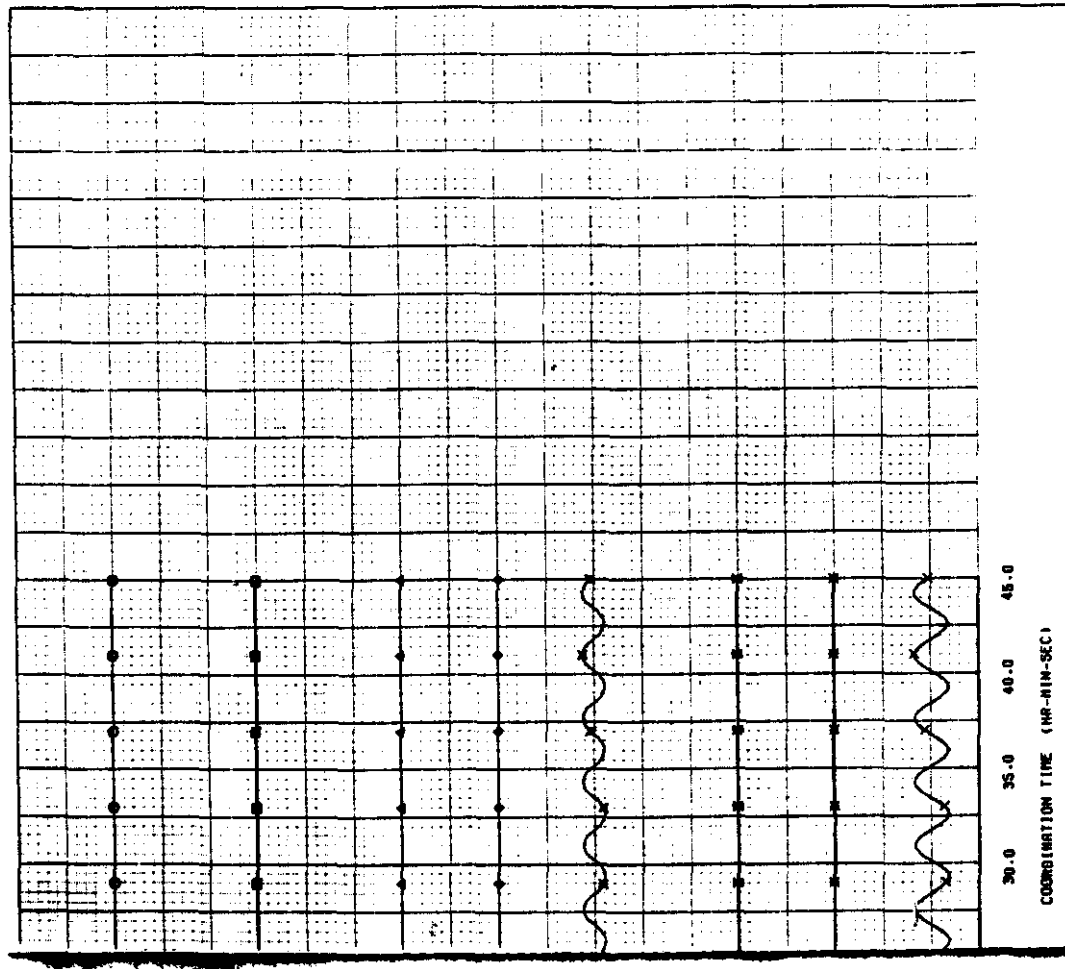


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	APPR		TIME BOEING COMPANY		81-39-0928
	APR		PAGE		

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737-200, PC309, RUDDER SYSTEM GROUND TESTING



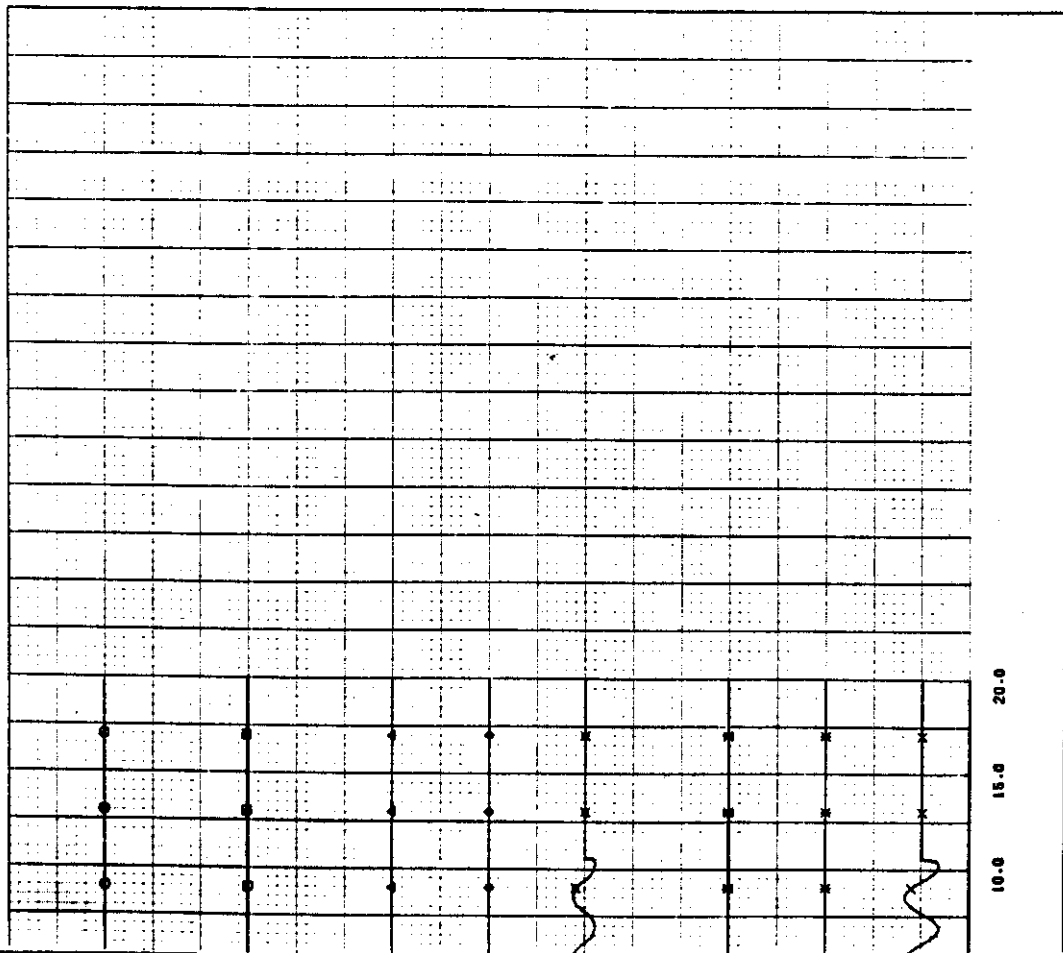
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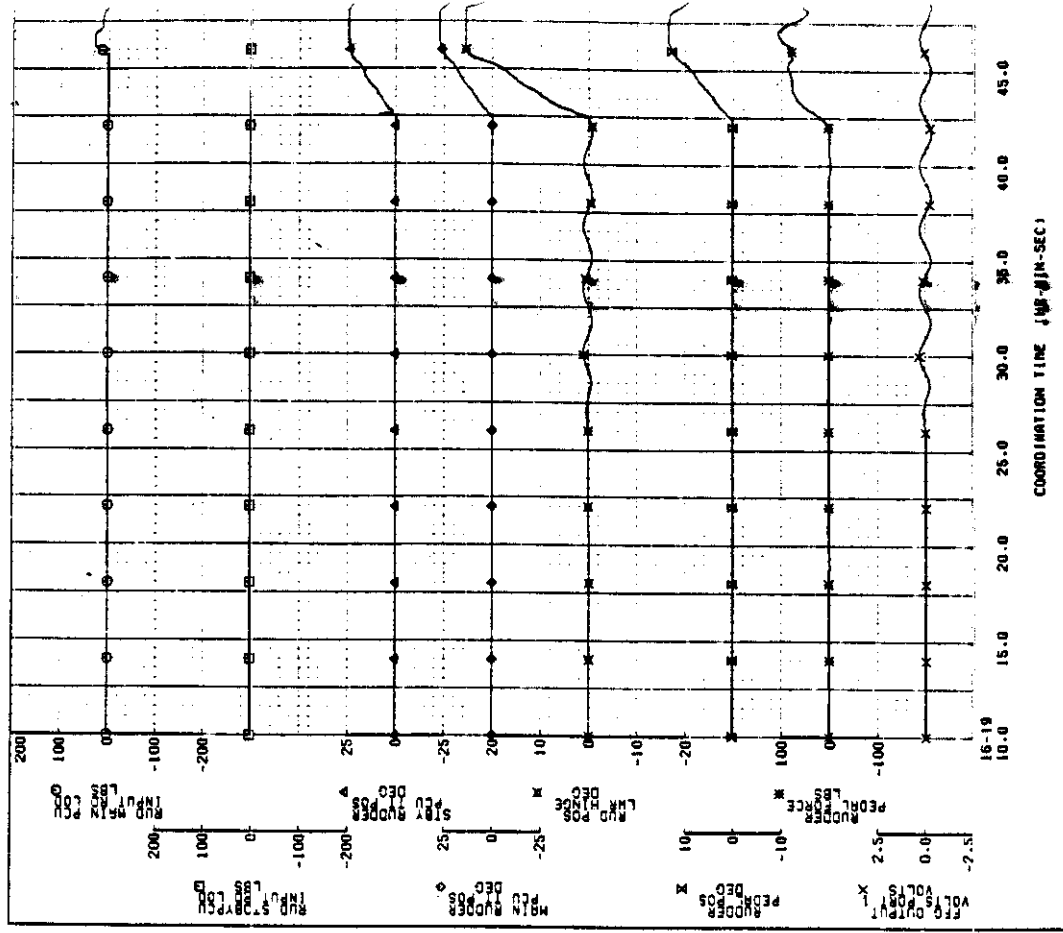
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APR				THE BOEING COMPANY		PAGE	

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737-200, PG309, RUDDER SYSTEM GROUND TESTING

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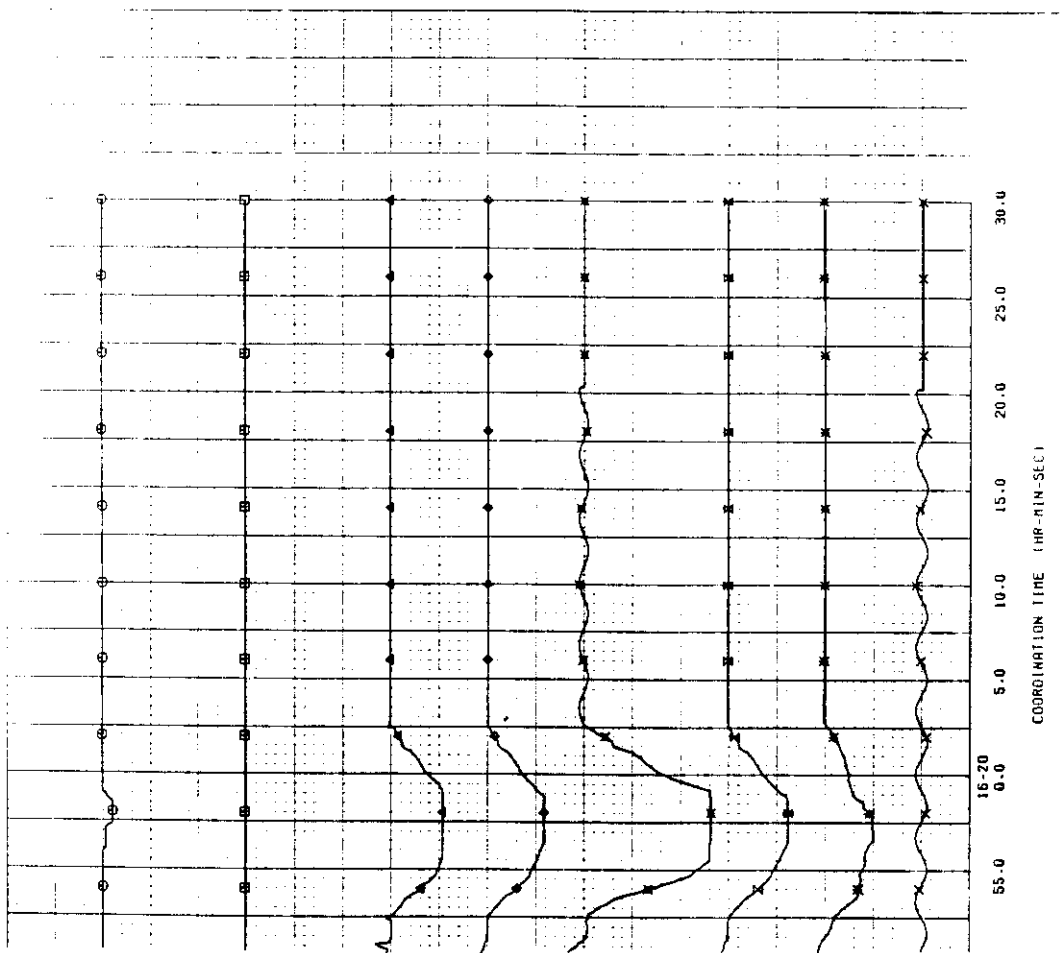


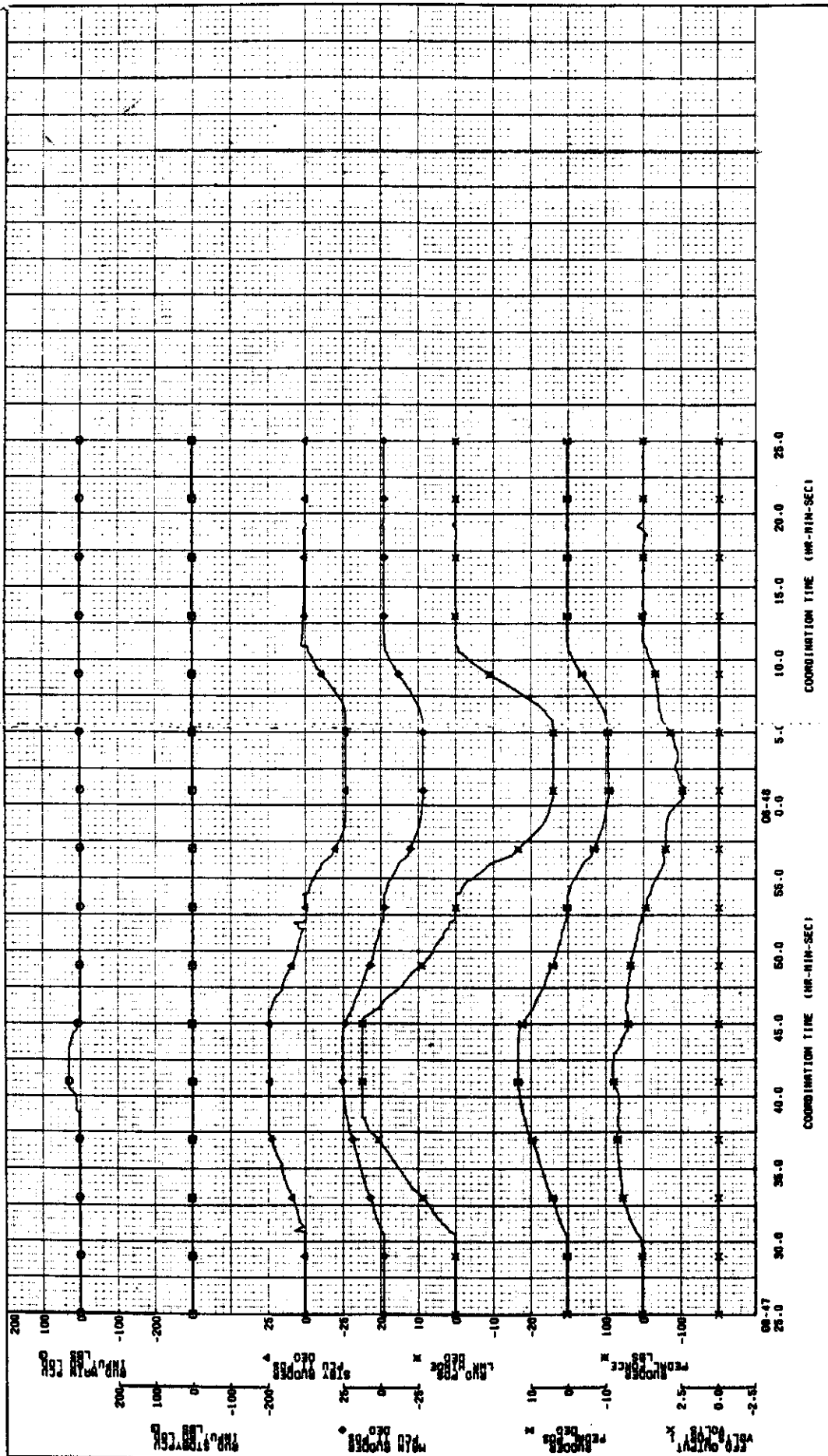
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737-200, PC309, RUDDER SYSTEM GROUND TESTING





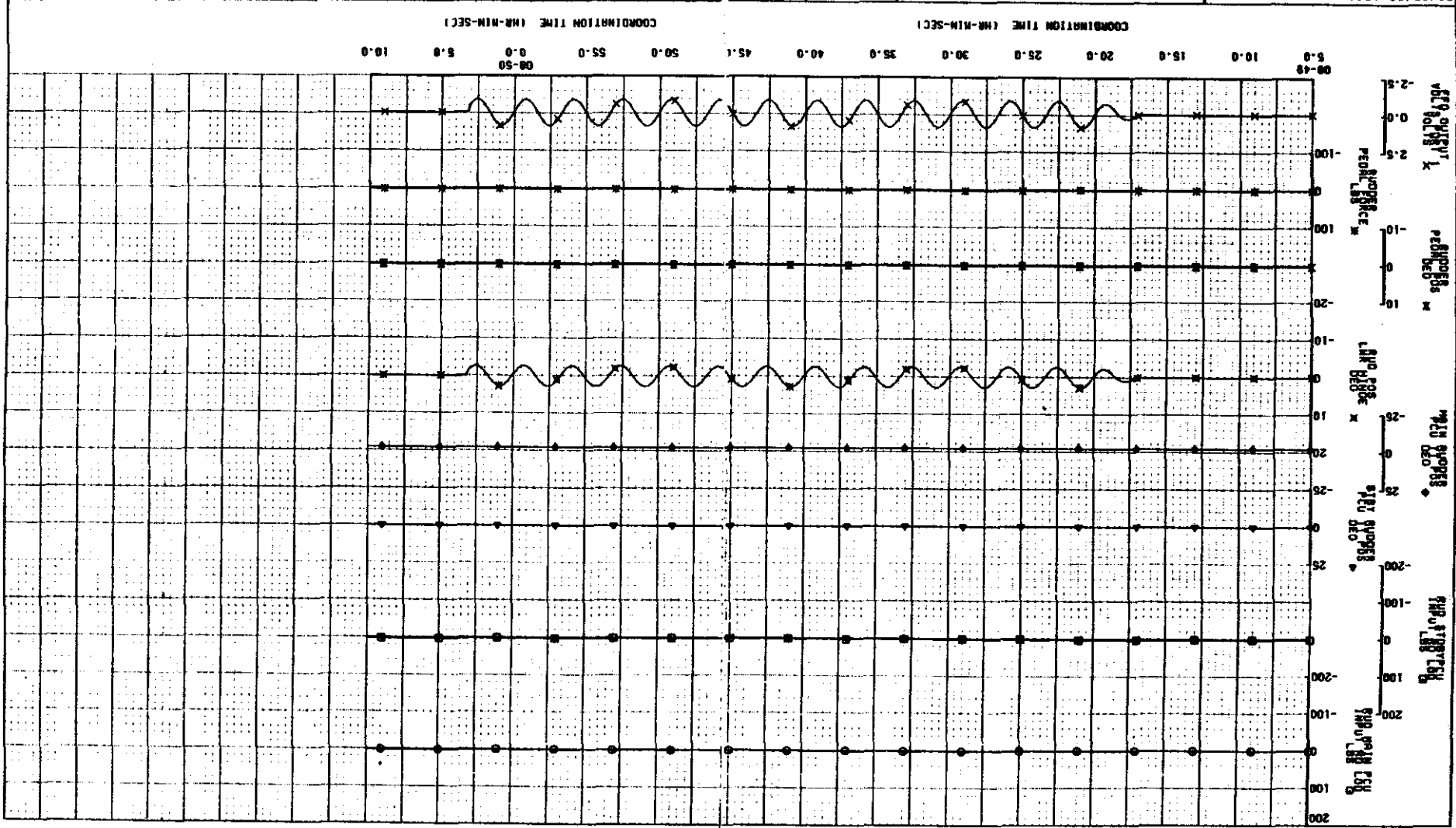
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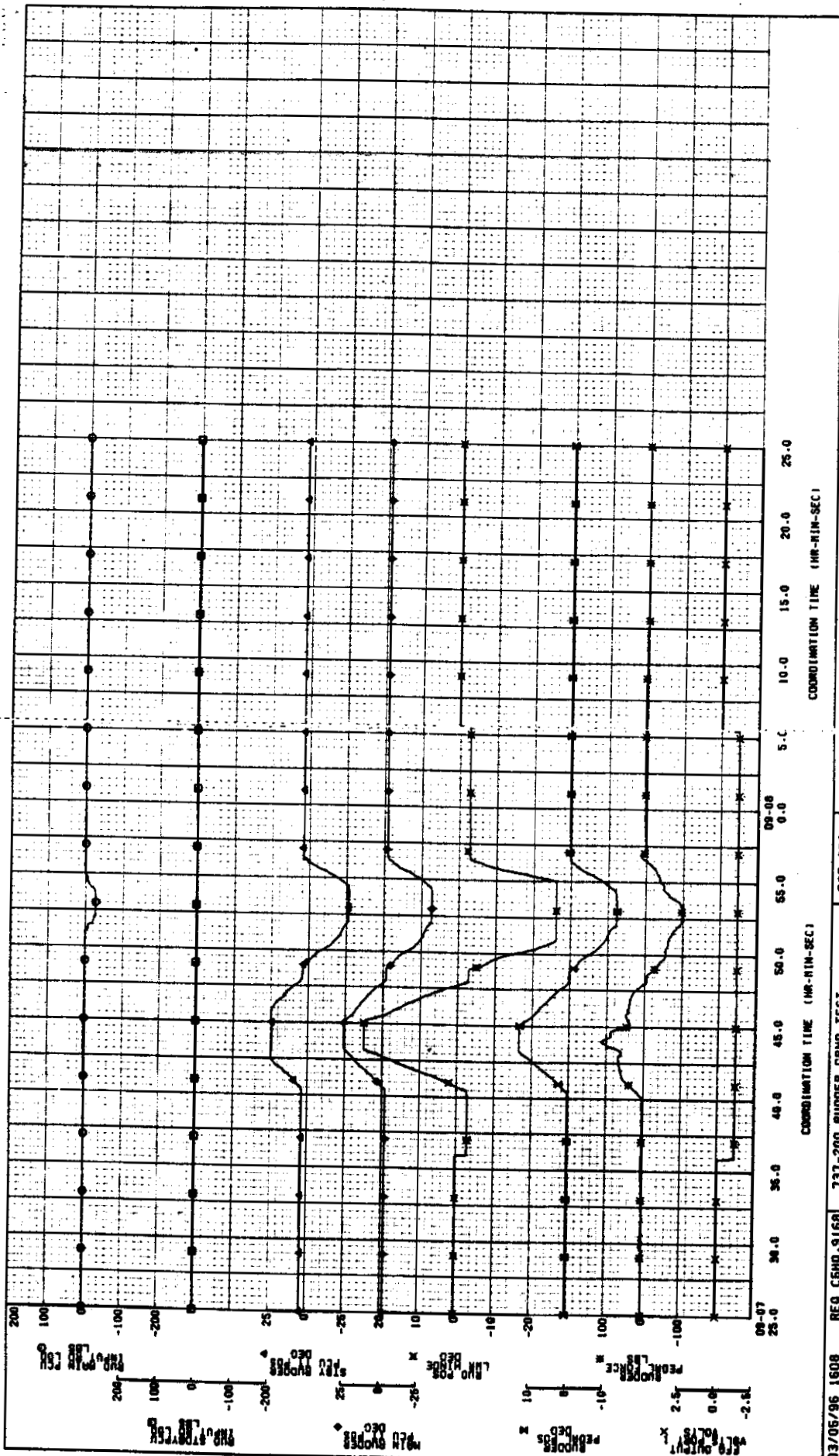
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737-200, PG309, RUDDER SYSTEM GROUND TESTING

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737-200, P0309, RUDDER SYSTEM GROUND TESTING

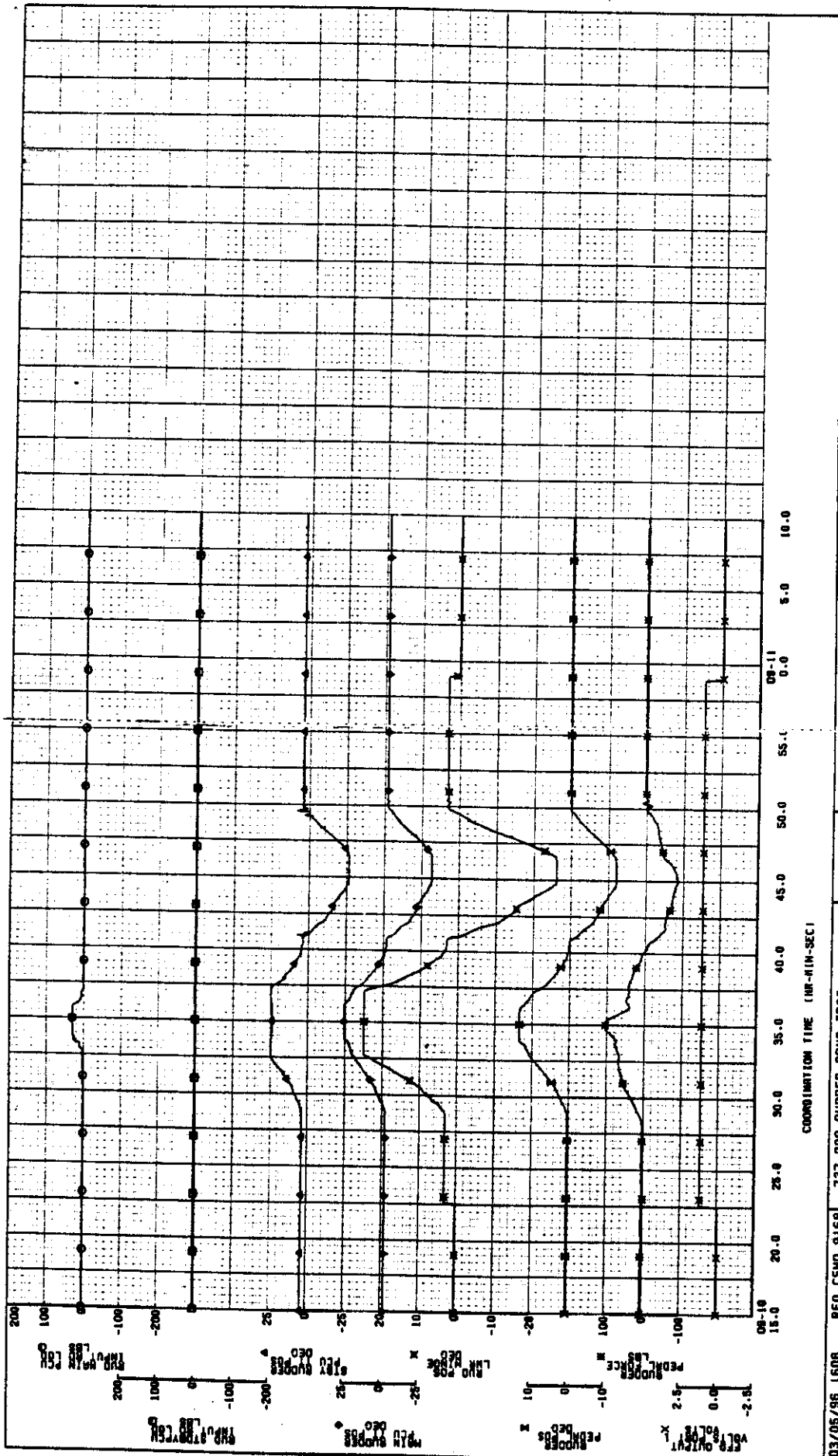
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APR		TIME 001-00 COMPANY		PAGE	





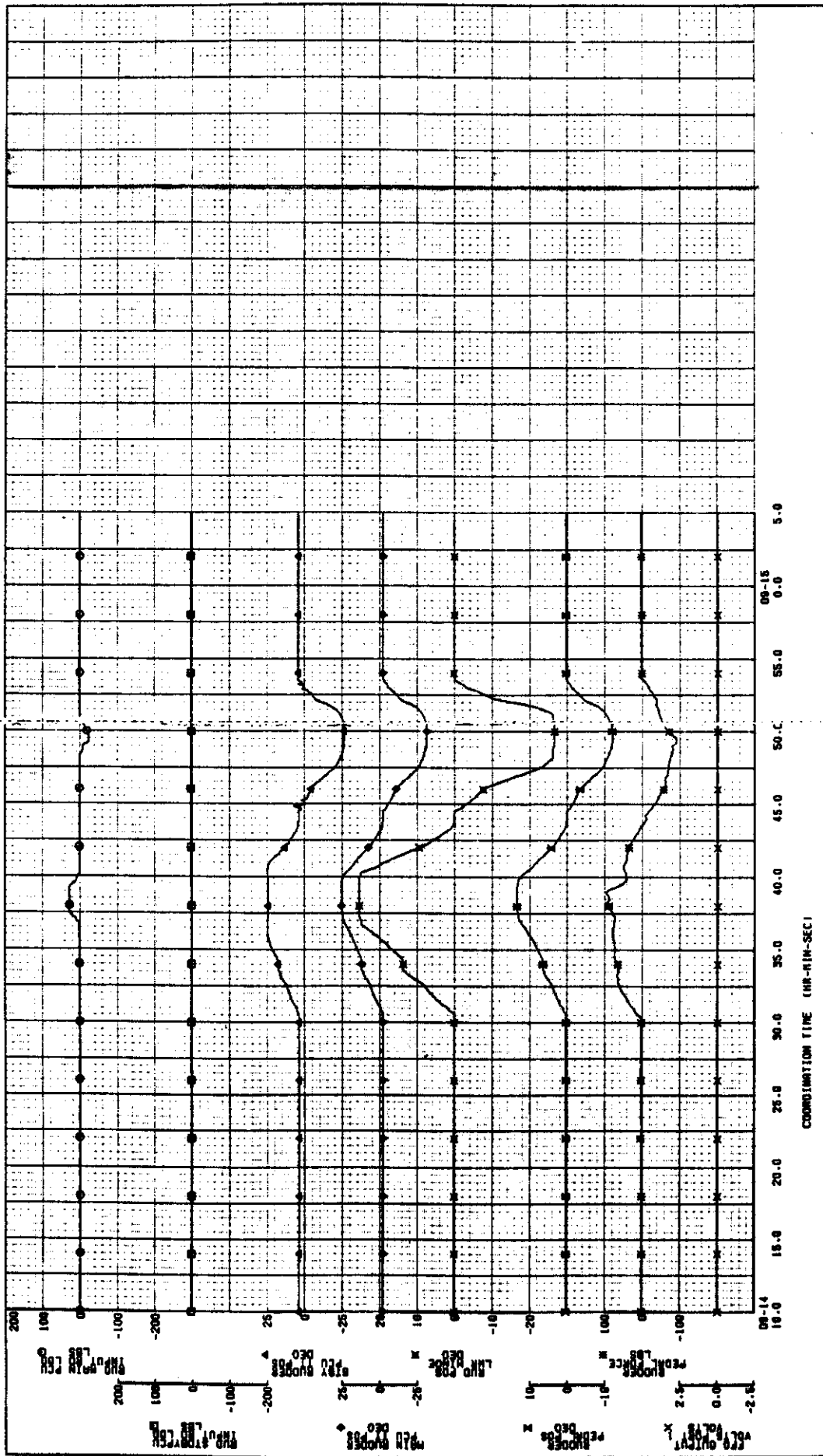
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APR		THE GOING COMPANY	PAGE

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737-200. PC309. RUDDER SYSTEM GROUND TESTING



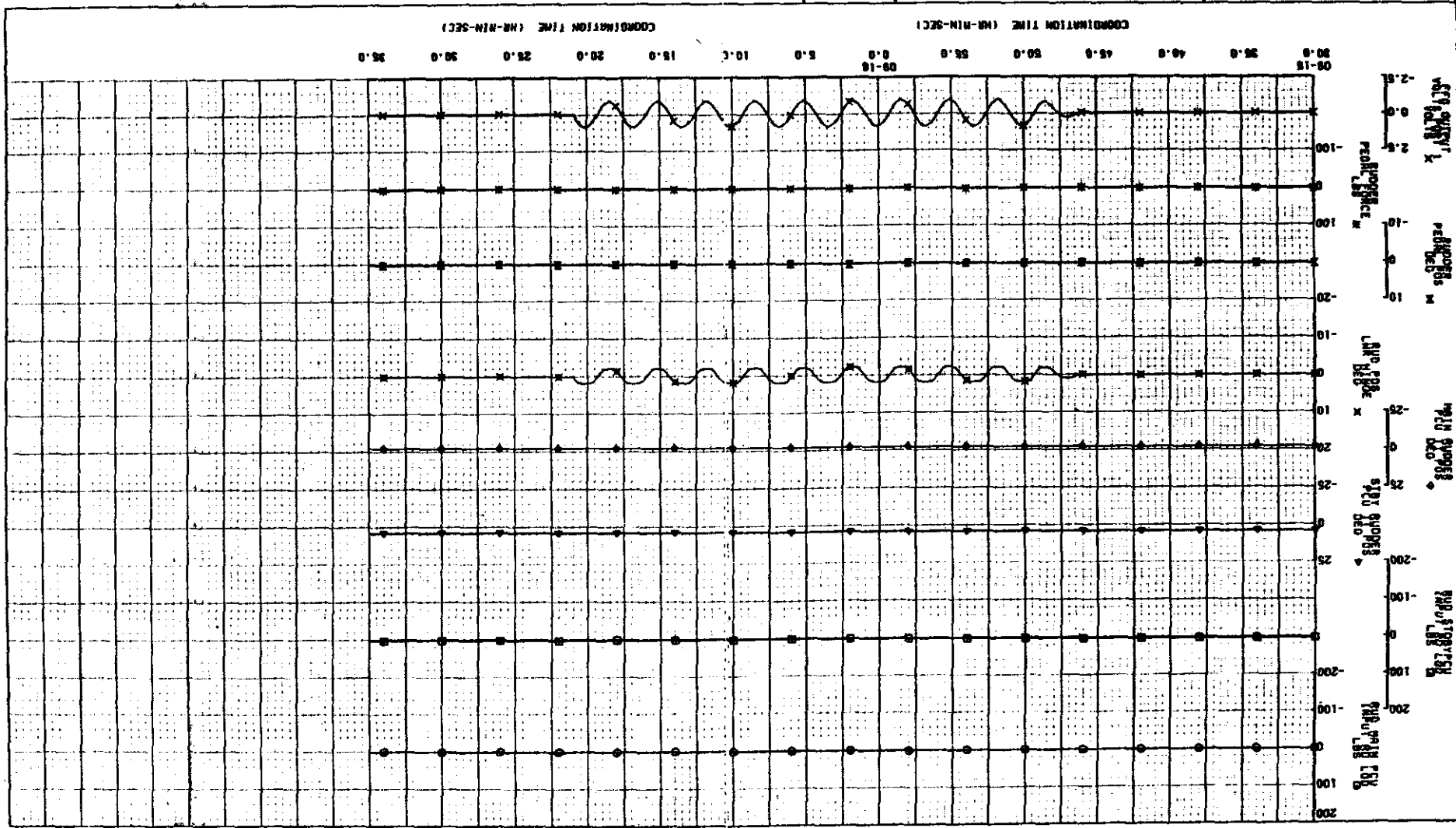
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APR		TEST 001-09 TEST DATE 02/29/96	81.39.0928
APR		THE BOEING COMPANY	PAGE

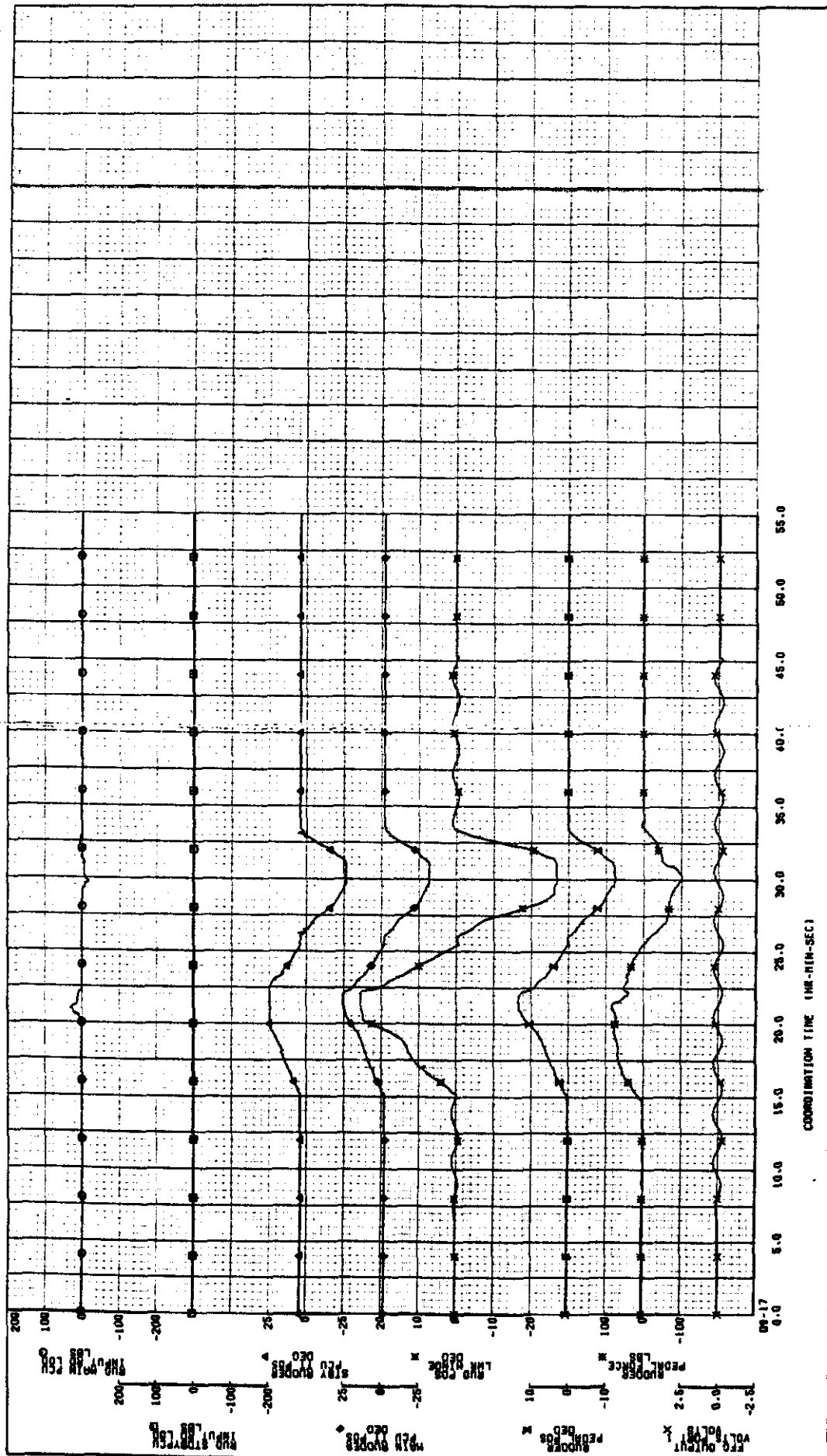
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737-200, PG309, RUDDER SYSTEM GROUND TESTING



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APR		THE BOEING COMPANY	PAGE

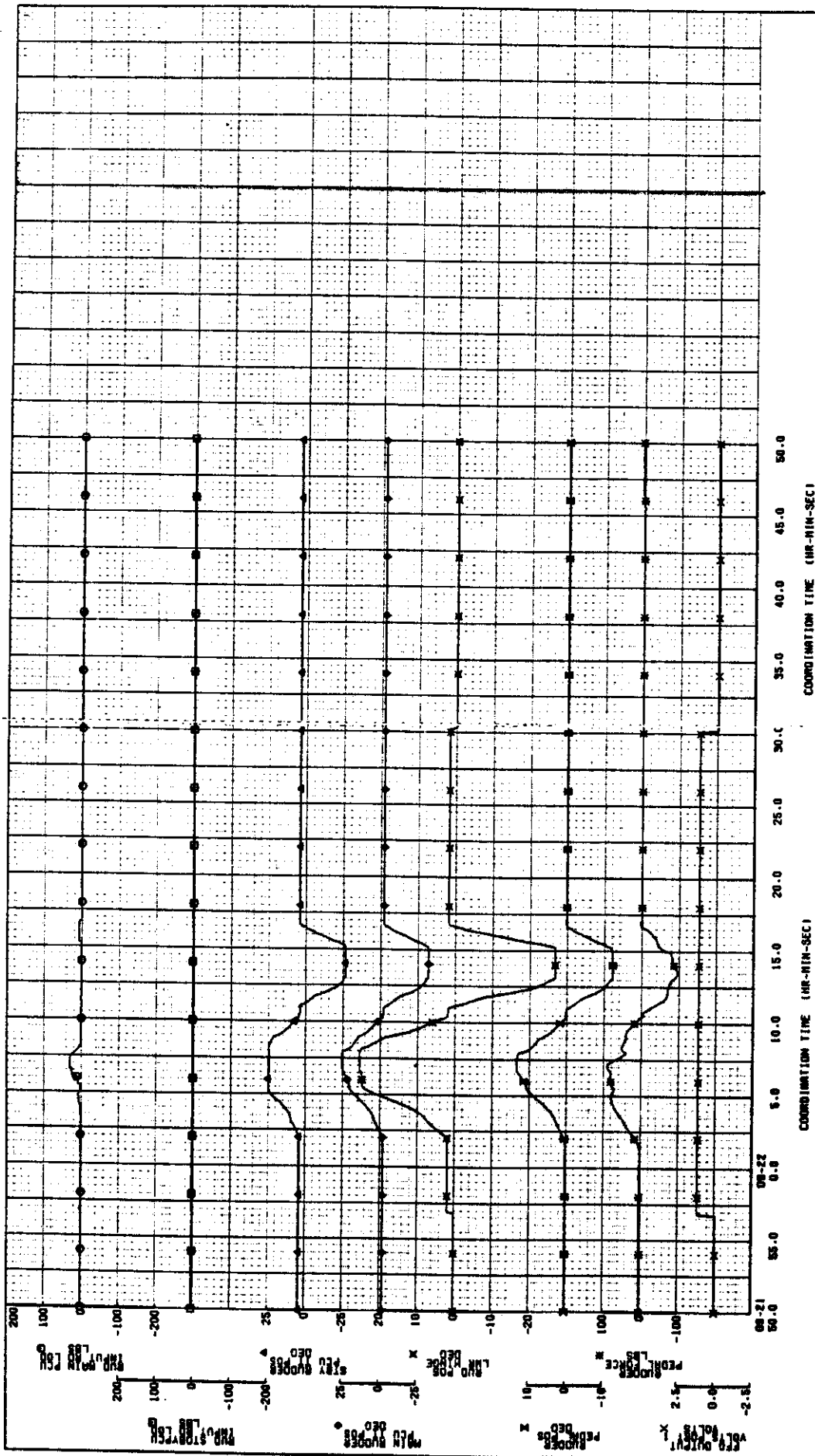
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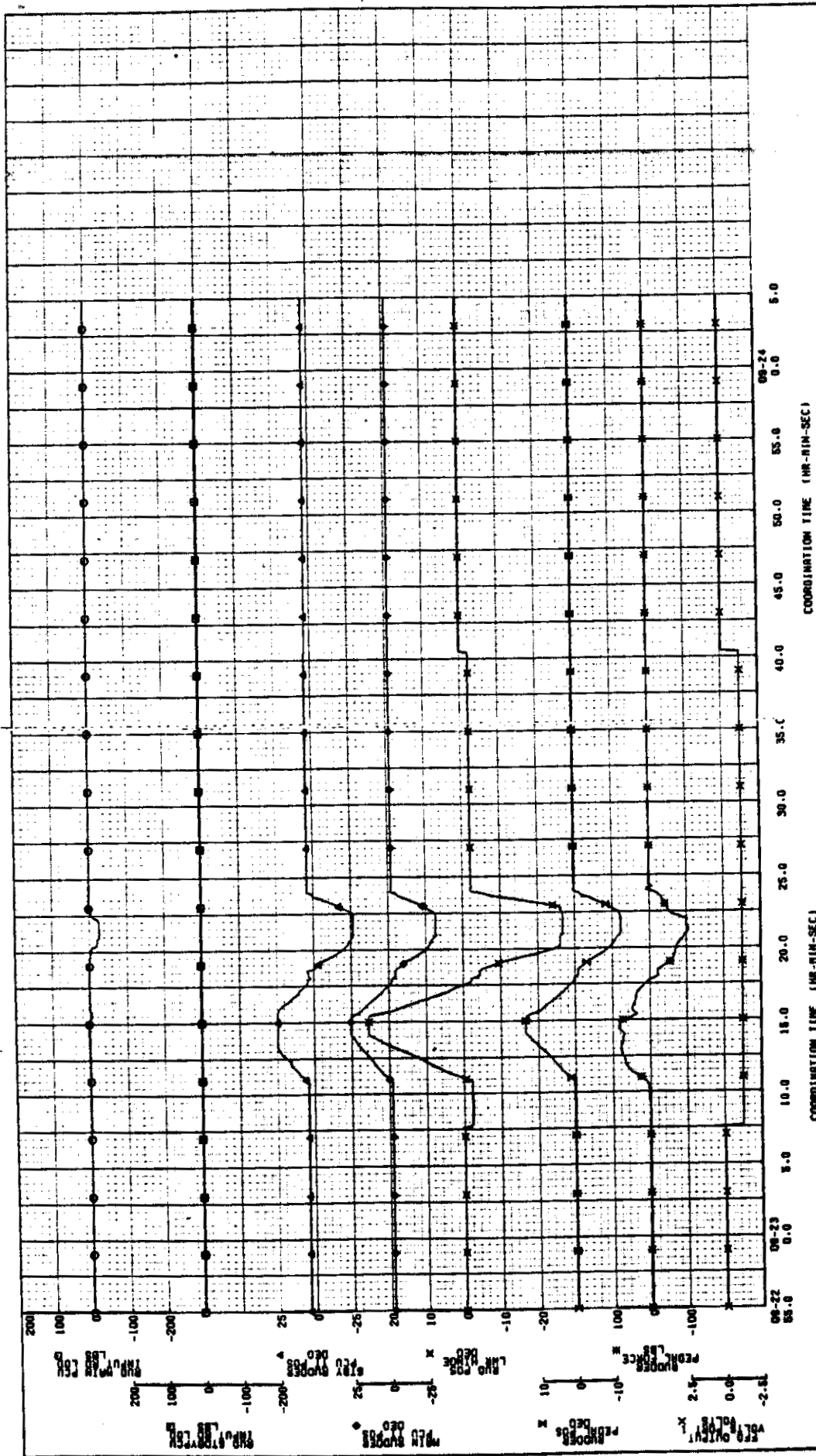
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RFR		TEST 001-08 TEST DATE 02/29/96	81.39.0928
RFR		THE GOING COMPANY	PAGE

FORMAT 1
737-200. PG309. RUDDER SYSTEM GROUND TESTING



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737-200, PG309, RUDDER SYSTEM GROUND TESTING

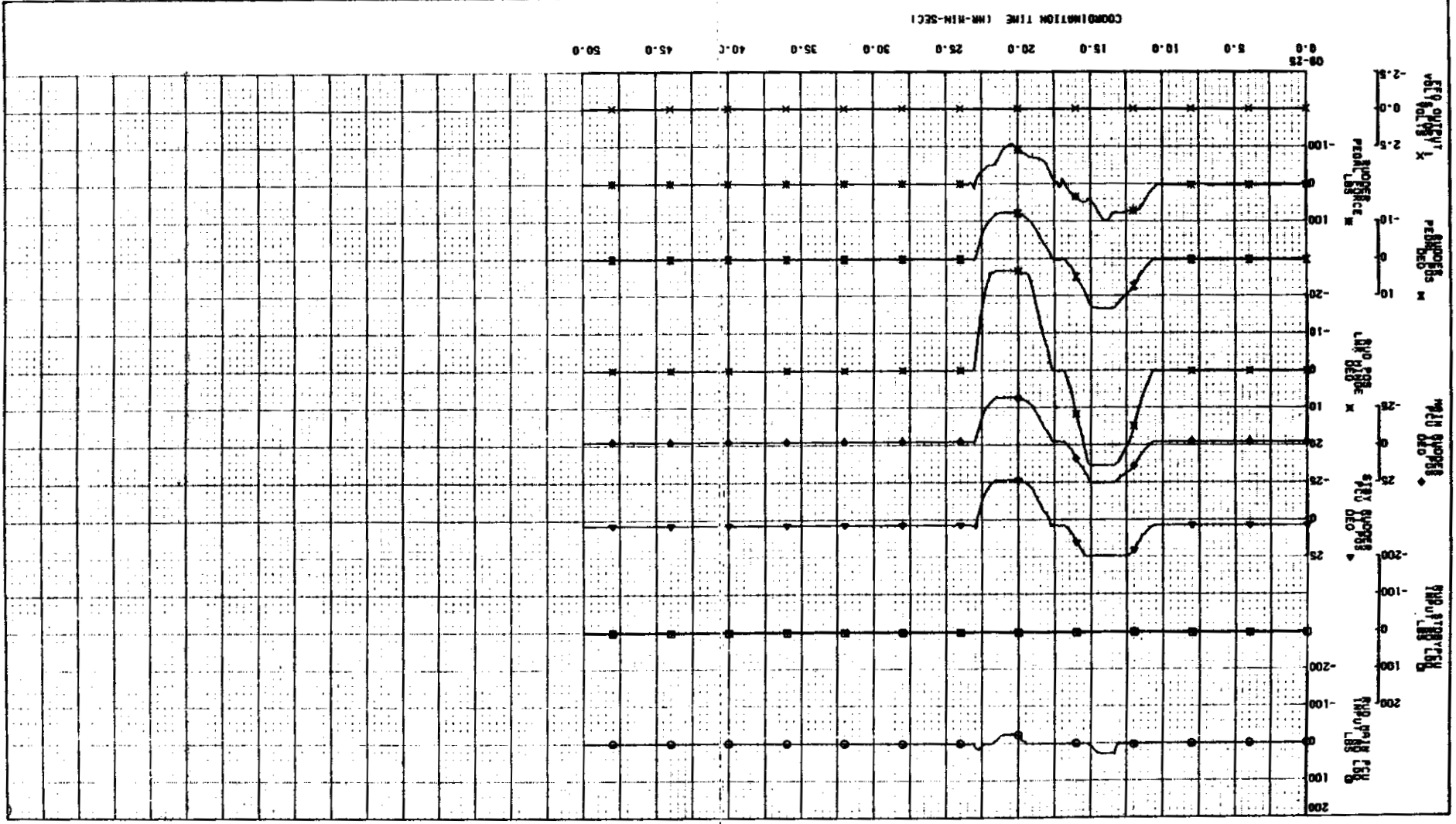


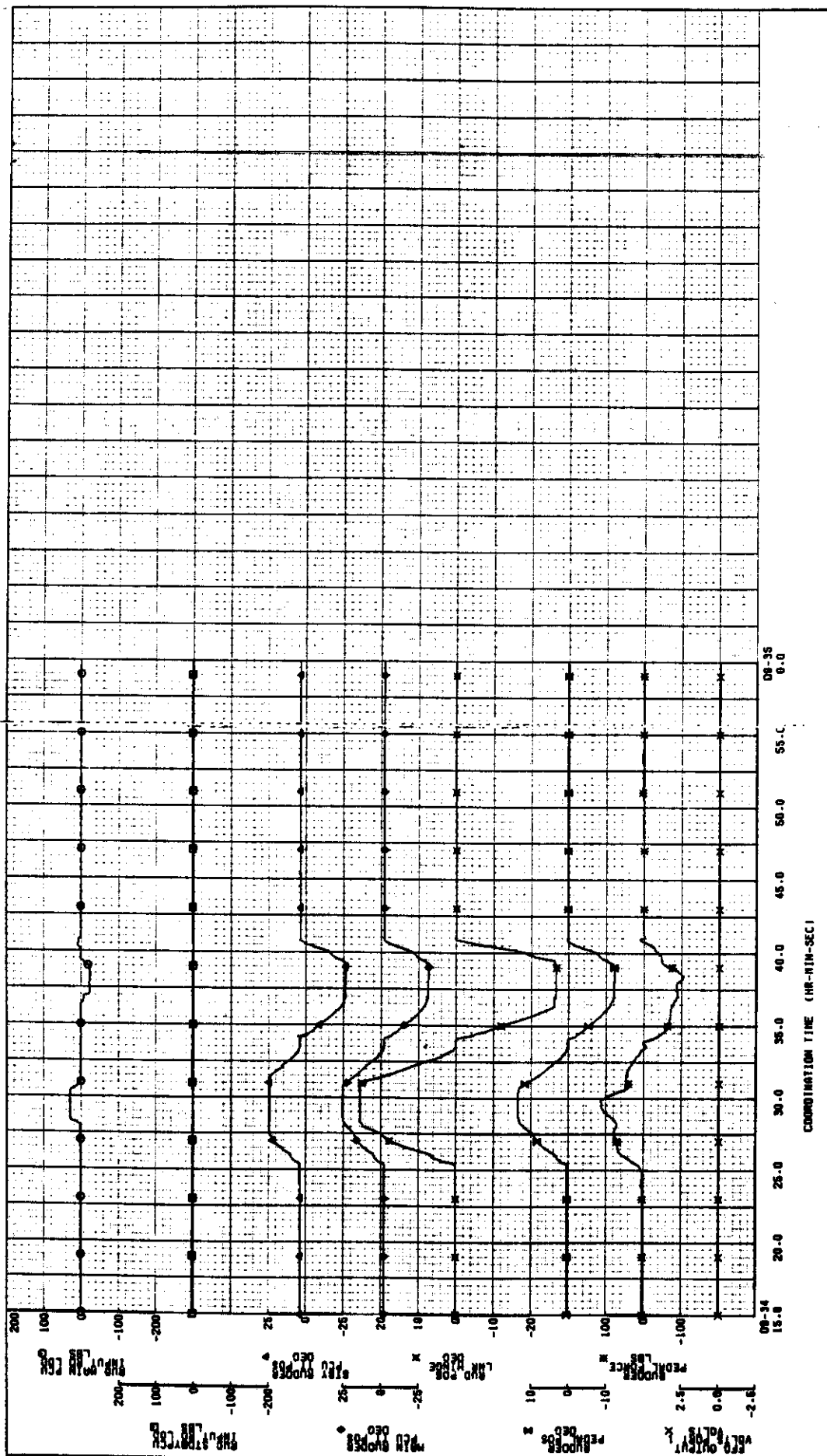
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APP		TEST DATE		02/29/96		PAGE	
APP		TIME		001-00		THE BOEING COMPANY	

FORMAT 1
737-200, P0309, RUDDER SYSTEM GROUND TESTING

737-200, PG309, RUDDER SYSTEM GROUND TESTING

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CALC	REVISED DATE	TIME HISTORY PLOT	737-200
CHECK		CONDITION NO. 81.39.0928.108	
APR		TEST 001-08 TEST DATE 02/29/96	81.39.0928
APR		THE BOEING COMPANY	PAGE



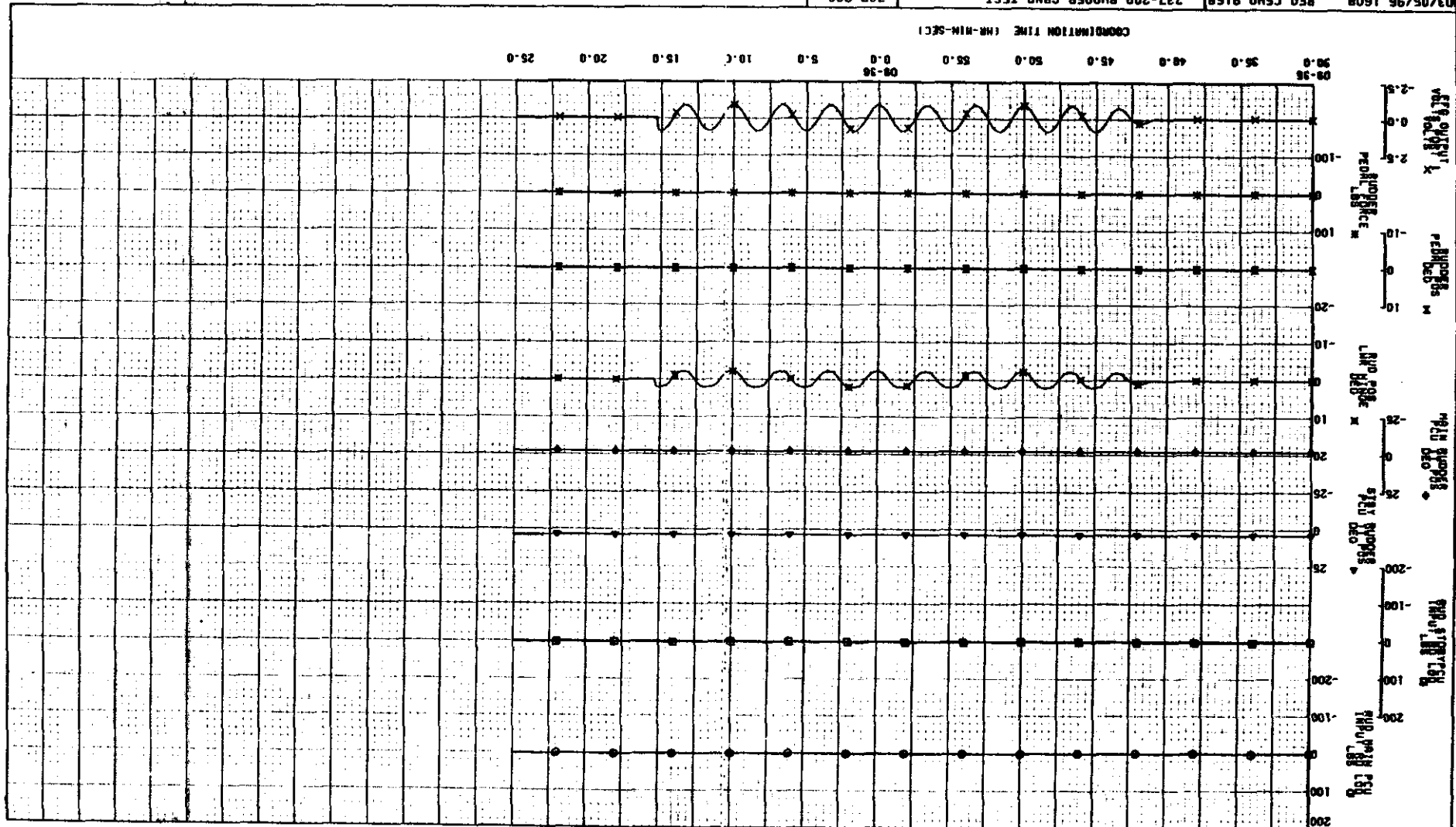


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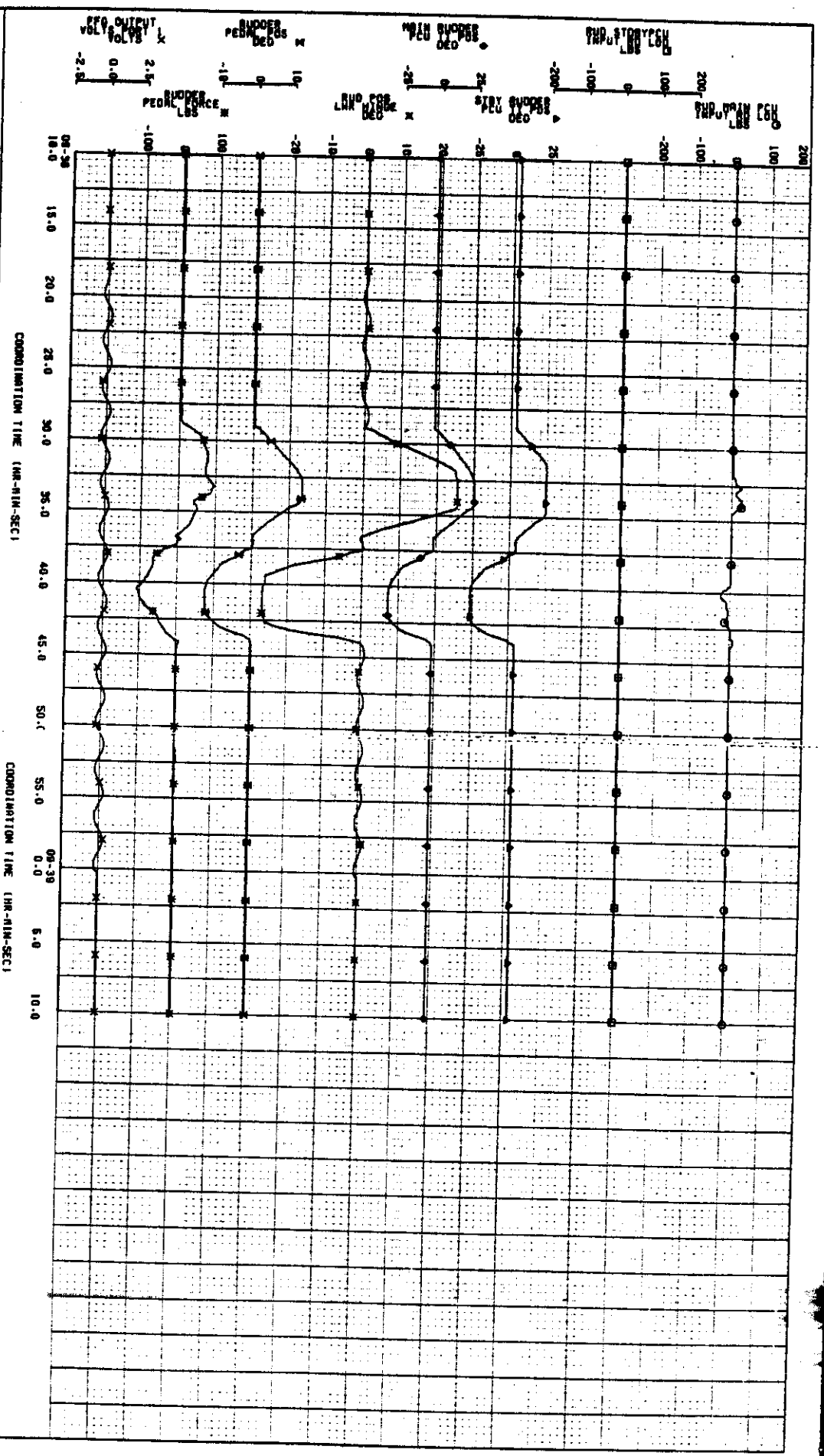
737-200, PG309, RUDDER SYSTEM GROUND TESTING

03/05/96 1608 REG CSHQ-9160		737-200 RUDDER CRND TEST		TIME HISTORY PLOT		PG309	
CALC	REVISD DATE	CONDITION NO. 81.39.0928.109		TEST DATE 02/29/96		81.39.0928	
CHECK		TEST 001-08		TIME BOEING COMPANY		PAGE	

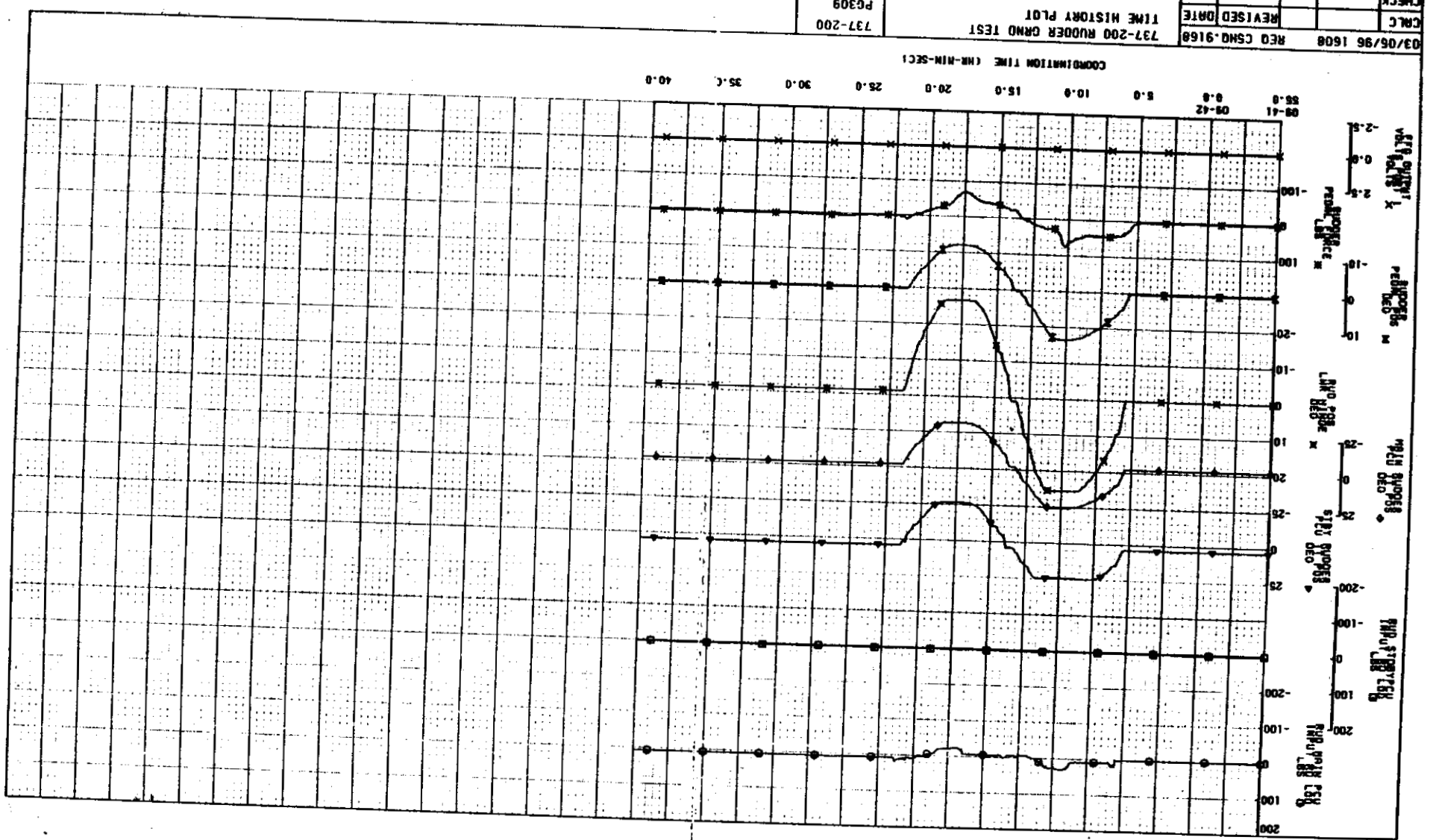


FORM 1
737-200, PG309, RUDDER SYSTEM GROUND TESTING

03/06/96 1608		REQ CNO. 9168		737-200 RUDDER GRND TEST	
CALC		REVISED DATE		TIME HISTORY PLOT	
CHECK				737-200	
APR				PG309	
APR				CONDITION NO. B1.39.0928-110	
				TEST 001-08 TEST DATE 02/29/96	
				B1.39.0928	
				TIME BEING COMPANY	
				PRICE	



03/05/96 1608	REC CSNO 9168	737-200 RUOGER GRND TEST	TIME HISTORY PLOT	CONDITION NO. 81.39.0928.111	TEST 001-08 TEST DATE 02/29/96	81.39.0928
CRC	REVISED DATE	737-200	PG309	81.39.0928	81.39.0928	81.39.0928
CHECK						
RPR						
RPR						
FORMAT 1						



SCHEDULED TESTING

T.T. #	Test Item Title
B1.39.0928	737-200 STANDBY RUDDER ACTUATOR FAILURE GROUND TEST - B

PURPOSE OF TEST

Jams of the standby rudder PCU control valve lever will be introduced on the ground. The resulting rudder control system operational characteristics will be investigated with various initial conditions and subsequent yaw damper, rudder pedal, and rudder trim inputs. The intent is to allow evaluation of these characteristics with an actual airplane's flight control system compliance, backlash, control valve flow, and pressure gains.

TEST PARAMETERS

- ☐ Hydraulic Power - Supplied to the A & B systems.
- ☐ Electrical Power - ON
- ☐ Nose wheel Steering - Disabled (either install nose gear steering lockout pin in nose gear steering depressurization valve per maintenance manual 32-00-01, or pull the nose gear air/ground circuit breaker on the P-6 panel).

TEST CONDITIONS

CONDITIONS .001 THRU .021 HAVE BEEN PREVIOUSLY COMPLETED AND ARE OPTIONAL

Rigging Check and Functional Test

Condition No.	Operation
☐ B1.39.0928.001	Perform various rigging checks of the rudder control system. Note rudder control cable rig loads, rig pin fit, PCU force fit, and control surface alignment with the index mark.
☐ .002	Disable the nose wheel steering.
☐ .003	Perform rudder system functional testing, paragraphs 5.0 through 5.11, of document D6-17554:27-21:0003B.
☐ .004	Turn A and B hydraulic systems ON with 3000 psi, pressurize the tail, and set the rudder trim to zero.
☐ .005	Confirm that the yaw damper is OFF.
☐ .006	Note instrumentation data with the rudder pedals centered.
☐ .007	Note instrumentation data with full left pedal.
☐ .008	Note instrumentation data with full right pedal.

Instrument Verification

Condition No.

Operation

- ~~001.39.0929.009~~ With the rudder pedal in its detent, apply full left rudder trim. Note instrumentation.
- ☐.010 With the rudder pedal in its detent, apply full right rudder trim. Note instrumentation.
- ☐.011 Turn OFF all hydraulic power, cycle the flight controls to bleed pressure, and set all FLT CTRL switches to OFF.
- ☐.012 Remove the Standby Rudder PCU input rod.
- ☐.013 Remove the Rudder Feel unit input rods from the rudder torque tube.
- ☐.014 Perform a slow rudder pedal cycle with no hydraulic power. Note the response of the Main Rudder PCU rod force.
- ☐.015 Connect the Standby Rudder PCU input rod.
- ☐.016 Remove the Main PCU rudder input rod.
- ☐.017 Using the blocking tool, Jam the Standby Rudder PCU Valve lever at a ± 0.0 degree input arm position.
- ☐.018 Slowly apply rudder pedal force. Note the response of the Standby Rudder PCU rod force.
- ☐.019 Connect the Main PCU input rod.
- ☐.020 Connect the Rudder Feel unit input rod.
- ☐.021 Conduct other verification tests as requested by Engineering.

Baseline Testing - Production Standby PCU Shaft and Bearing

- ~~A production Rudder Standby PCU with a production PCU input shaft and bearing will be installed.~~
- Set the Hydraulic System as noted.
- Perform noted conditions.

Condition No.	Hyd Pressure	Operation
☐ B1.39.0928.101	A & B	Cycle the rudder pedals through full deflection and note the system response.
☐ .102	A & B	Input a ± 3.0 degree yaw damper command at 0.3 Hz. Record the system response.
☐ .103	A & B	Input a ± 1.0 degree Yaw Damper Command at 0.3 Hz. Cycle the rudder pedals through full displacement during the frequency input. Record system response.
☐ .104	----	Confirm a simulated airload has been applied to the rudder trailing edge.
☐ .105	B & Stby	Cycle the rudder pedals through full deflection and note the system response.
☐ .106	B & Stby	Input a ± 3.0 degree yaw damper command at 0.3 Hz. Record the system response.
☐ .107	B & Stby	Input a ± 1.0 degree Yaw Damper Command at 0.3 Hz. Cycle the rudder pedals through full displacement during the frequency input. Record system response.
☐ .108	A,B & Stby	Cycle the rudder pedals through full deflection and note the system response.
☐ .109	A,B & Stby	Input a ± 3.0 degree yaw damper command at 0.3 Hz. Record the system response.
☐ .110	A,B & Stby	Input a ± 1.0 degree yaw damper command at 0.3 Hz. Cycle the rudder pedals through full displacement during the frequency input. Record the system response.

-RECONFIGURE A/P-FOR NTSB BEARING JAMS-

System Effects with a Standby Rudder PCU Input Shaft Provided by the NTSB

- ~~A Standby Rudder PCU Input Shaft and bearing provided by the NTSB will be installed.~~
- Set the Hydraulic System as noted.
- Perform noted conditions.

<u>Condition No.</u>	<u>Hyd Pressure</u>	<u>Operation</u>
□B1.39.0928.201	A & B	Cycle the rudder pedals through full deflection and note the system response.
□.202	A & B	Input a ± 3.0 degree yaw damper command at 0.3 Hz. Record the system response.
□.203	A & B	Input a ± 1.0 degree Yaw Damper Command at 0.3 Hz. Cycle the rudder pedals through full displacement during the frequency input. Record system response.
□.204	----	Confirm a simulated airload has been applied to the rudder trailing edge.
□.205	B & Stby	Cycle the rudder pedals through full deflection and note the system response.
□.206	B & Stby	Input a ± 3.0 degree yaw damper command at 0.3 Hz. Record the system response.
□.207	B & Stby	Input a ± 1.0 degree Yaw Damper Command at 0.3 Hz. Cycle the rudder pedals through full displacement during the frequency input. Record system response.
□.208	A, B & Stby	Cycle the rudder pedals through full deflection and note the system response.
□.209	A, B & Stby	Input a ± 3.0 degree yaw damper command at 0.3 Hz. Record the system response.
□.210	A, B & Stby	Input a ± 1.0 degree Yaw Damper Command at 0.3 Hz. Cycle the rudder pedals through full displacement during the frequency input. Record system response.