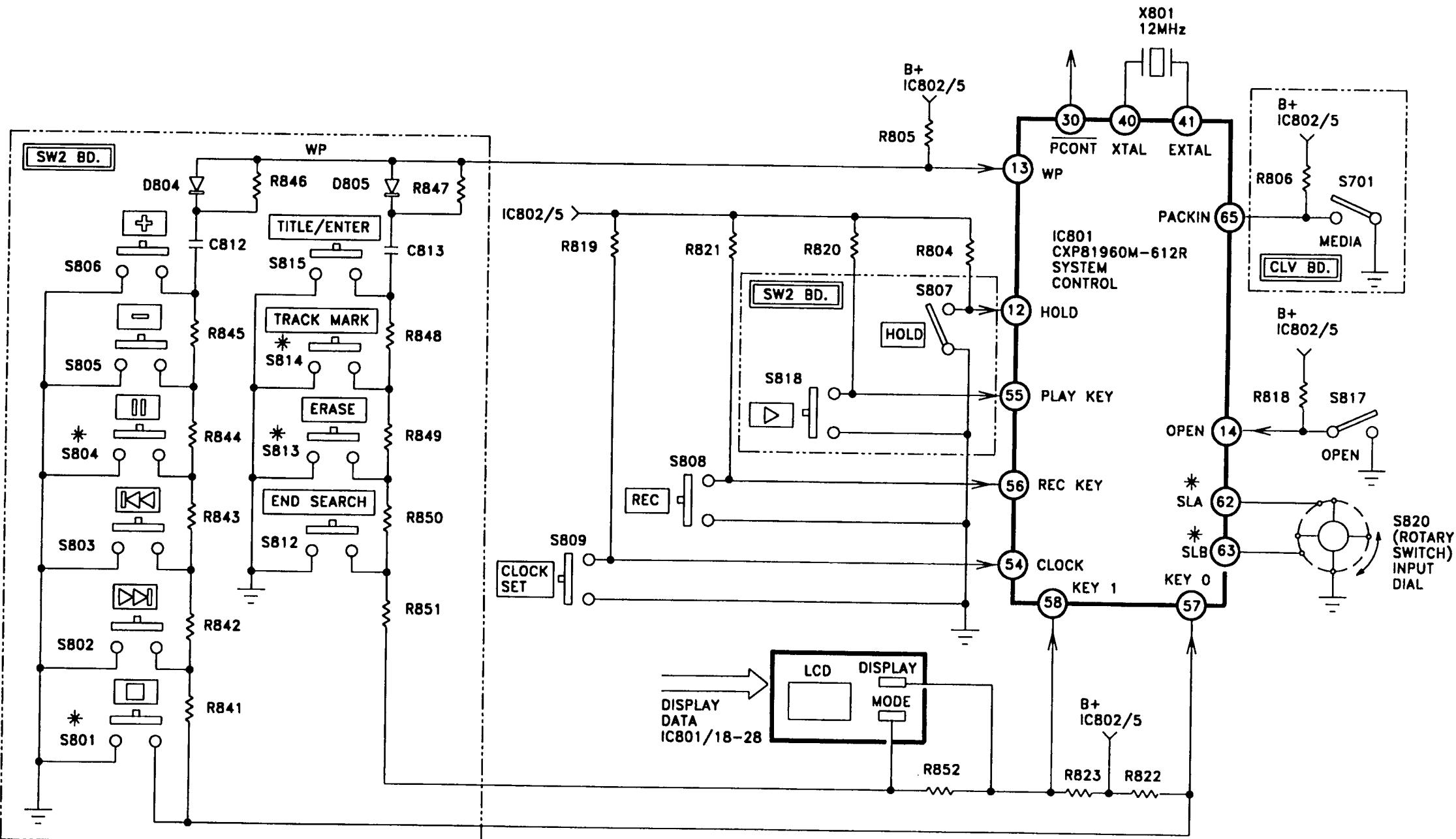


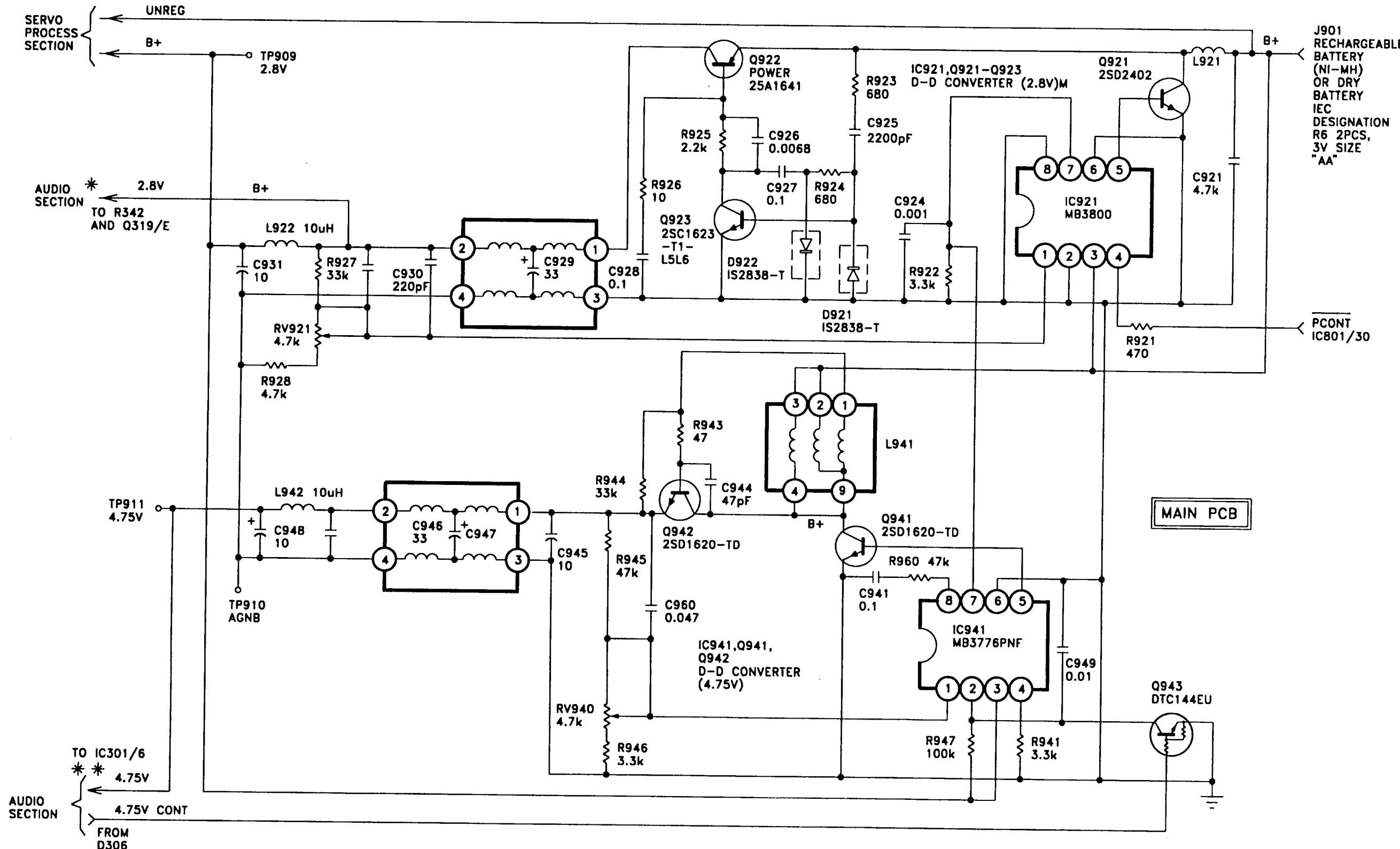
POWER DETECTION & CHARGE CONTROL



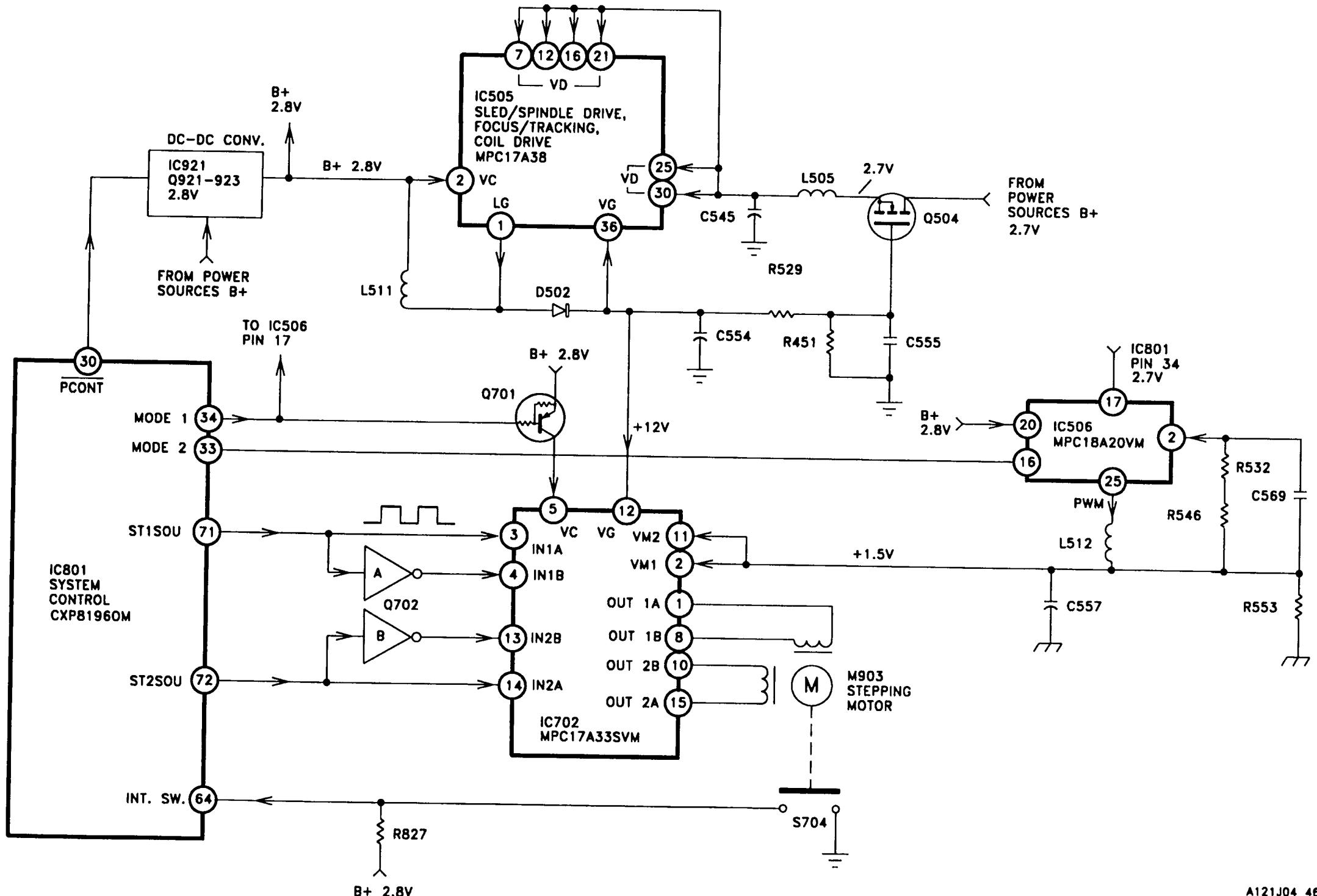
NOTE: SWITCHES MARKED BY *
DO NOT ACTIVATE WAKE MODE
ALL OTHERS DO

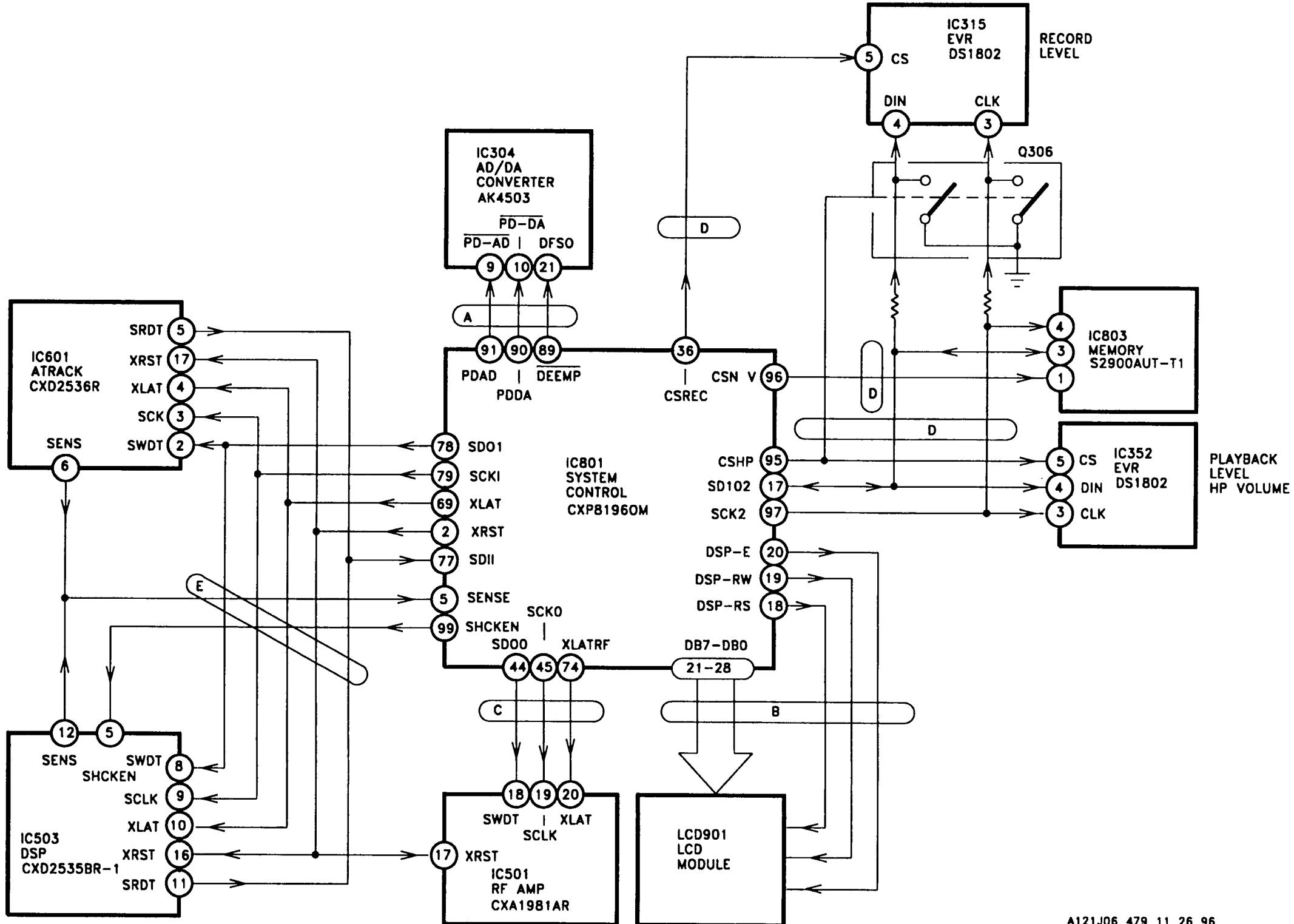
POWER ON KEY-INPUT

A121J03 469 11 15 96



J901
RECHARGEABLE
BATTERY
(NI-MH)
OR DRY
BATTERY
IEC
DESIGNATION
R6 2PCS,
3V SIZE
"AA"





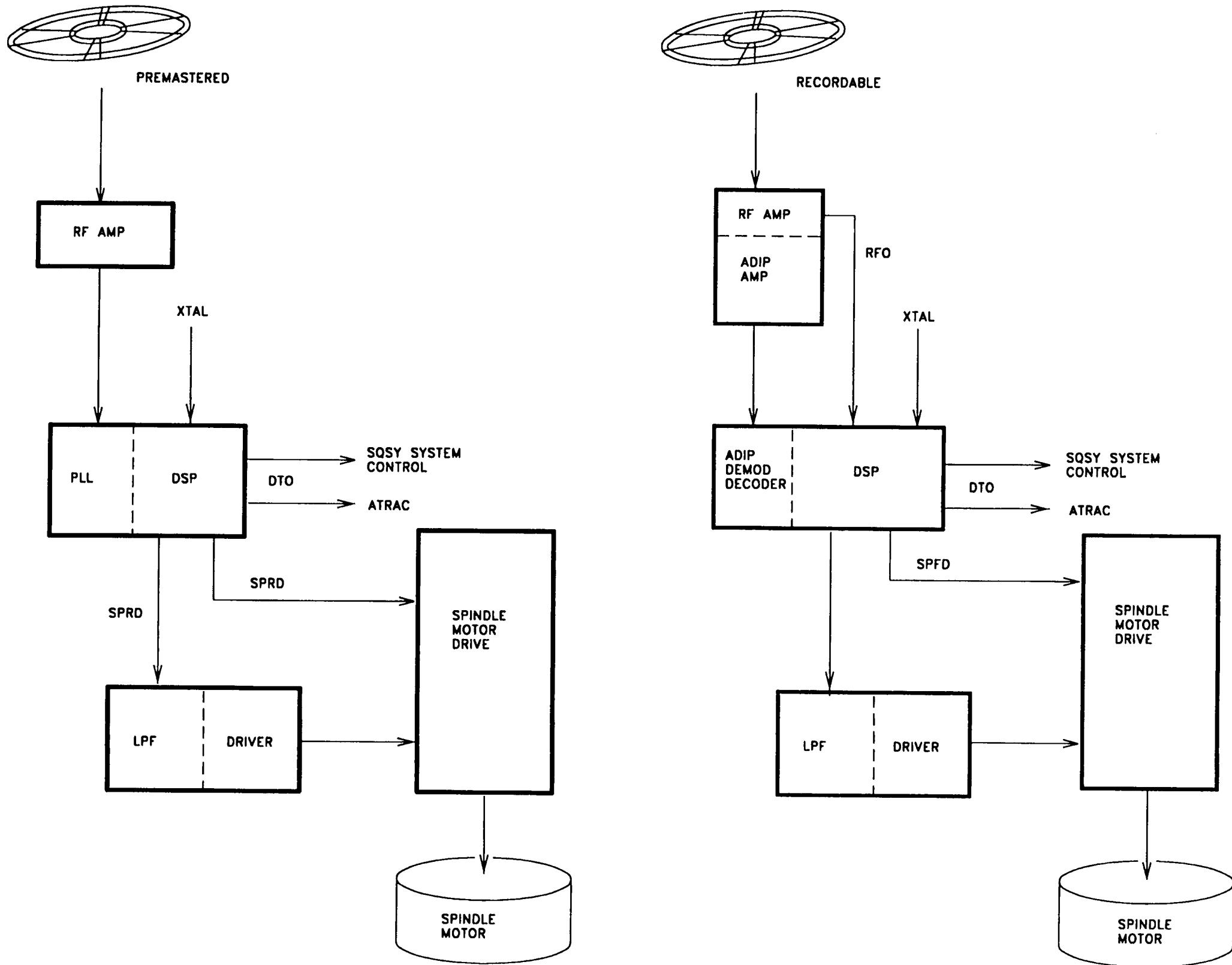
A121J06 479 11 26 96

COMMUNICATIONS

Communications Table

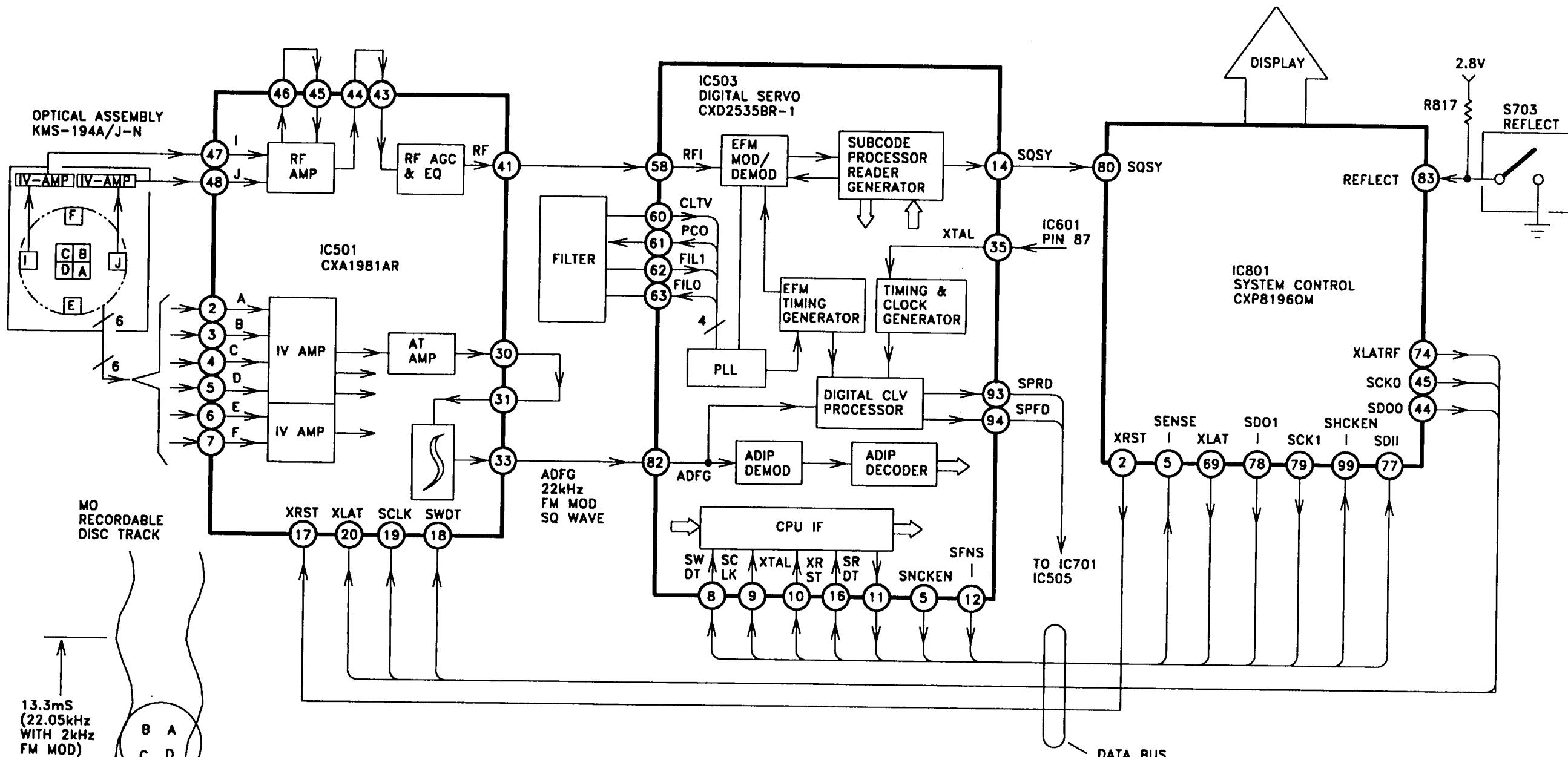
COMMUNICATIONS TABLE IC801 (DC IN)			
GROUP A	STOP	PLAY	RECORD
PIN 89 DEEMP	H	H (L during deemphasis playback)	H
PIN 90 PDDA	L	H	H
PIN 91 PDAD	L	L	H
GROUP B	STOP	PLAY	RECORD
PIN 18 DSP-RS	3v with negative going pulses		
PIN 19 DSP-RW	0v with positive going pulses		
PIN 20 DSP-E	0V with positive going pulses		
PINS 21-28 DB0 - DB7	3V with negative going pulses 0V with positive going pulses		
GROUP C	STOP	PLAY	RECORD
PIN 44 SDO0	L	1V DC with 3V P-P single burst of data	1V DC with 3V P-P bursts of data
PIN 45 SCK0	2V	3V with a single burst of negative going data	3V with negative going bursts of data
PIN 74 XLATRF	2V	3V with a single negative going pulse	3V with negative going bursts of data

GROUP D	STOP	PLAY	RECORD
PIN 17 SDIO2	0V with positive going pulses when VOLUME +/- keys are pressed and Adjustment mode data write.		
PIN 36 CSREC	H	L	3V with negative going pulses when REV/FWD keys are pressed (Manual Rec level)
PIN 95 CSHP	0V with positive going pulses when VOLUME +/- keys are pressed		
PIN 96 CSNV	0V pulses H during Power up and Adjustment mode data write		
PIN 97 SCK2	0V with positive going pulses when VOLUME +/- keys are pressed and Adjustment mode write		
GROUP E	STOP	PLAY	RECORD
PIN 2 XRST	H	H	H
PIN 5 SENSE	3V with negative going pulses		
PIN 69 XLAT	3V with negative going pulses		
PIN 77 SDI1	0V with positive going pulses		
PIN 78 SDO1	3V with negative going pulses		
PIN 79 SCK1	3V with negative going pulses		
PIN 99 SHCKEN	L	L	Toggles from 0V to 3V during Record

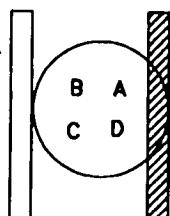


CLV SERVO BLOCK

A121J18 495 1 3 97

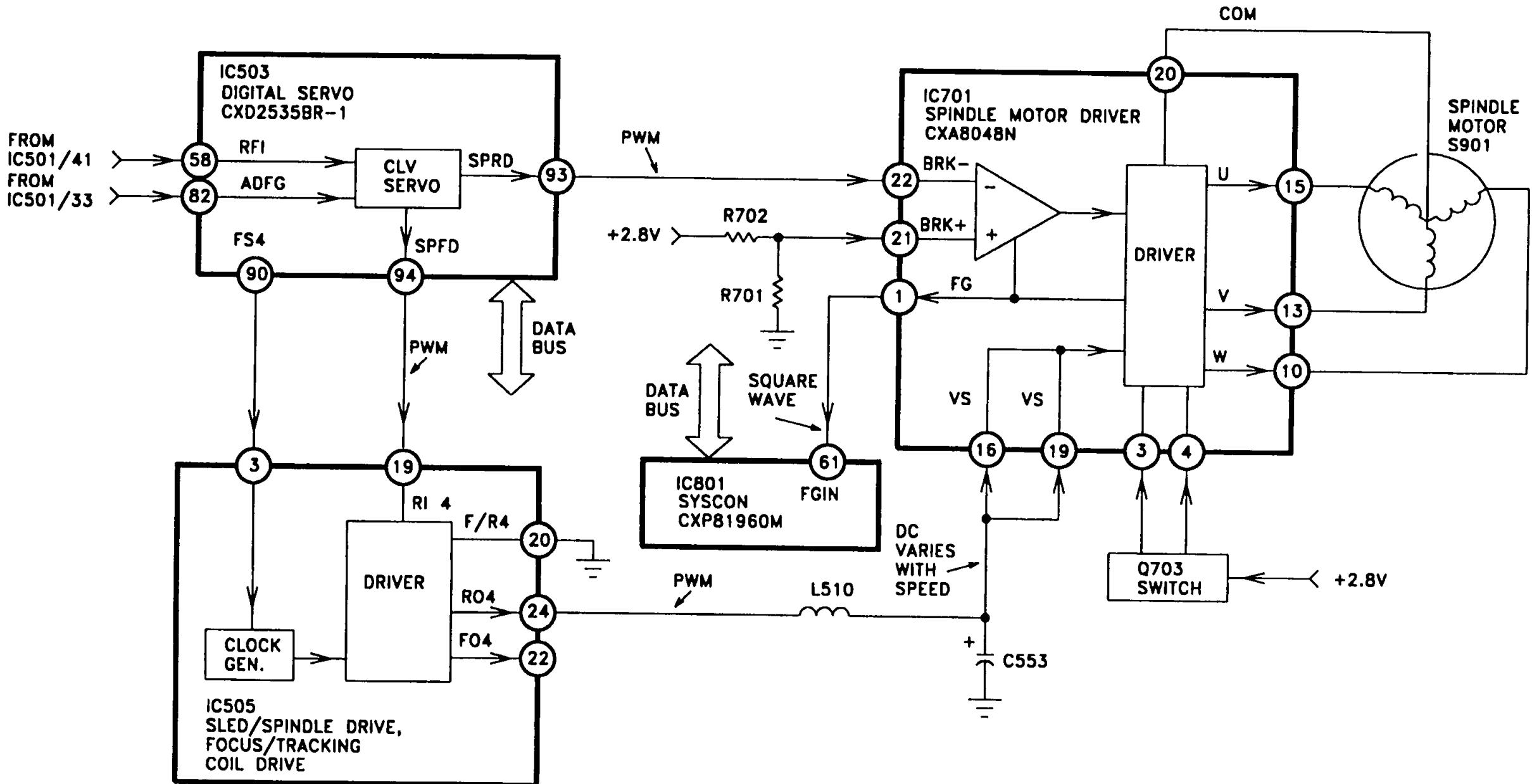


**13.3mS
(22.05kHz
WITH 2kHz
FM MOD)**



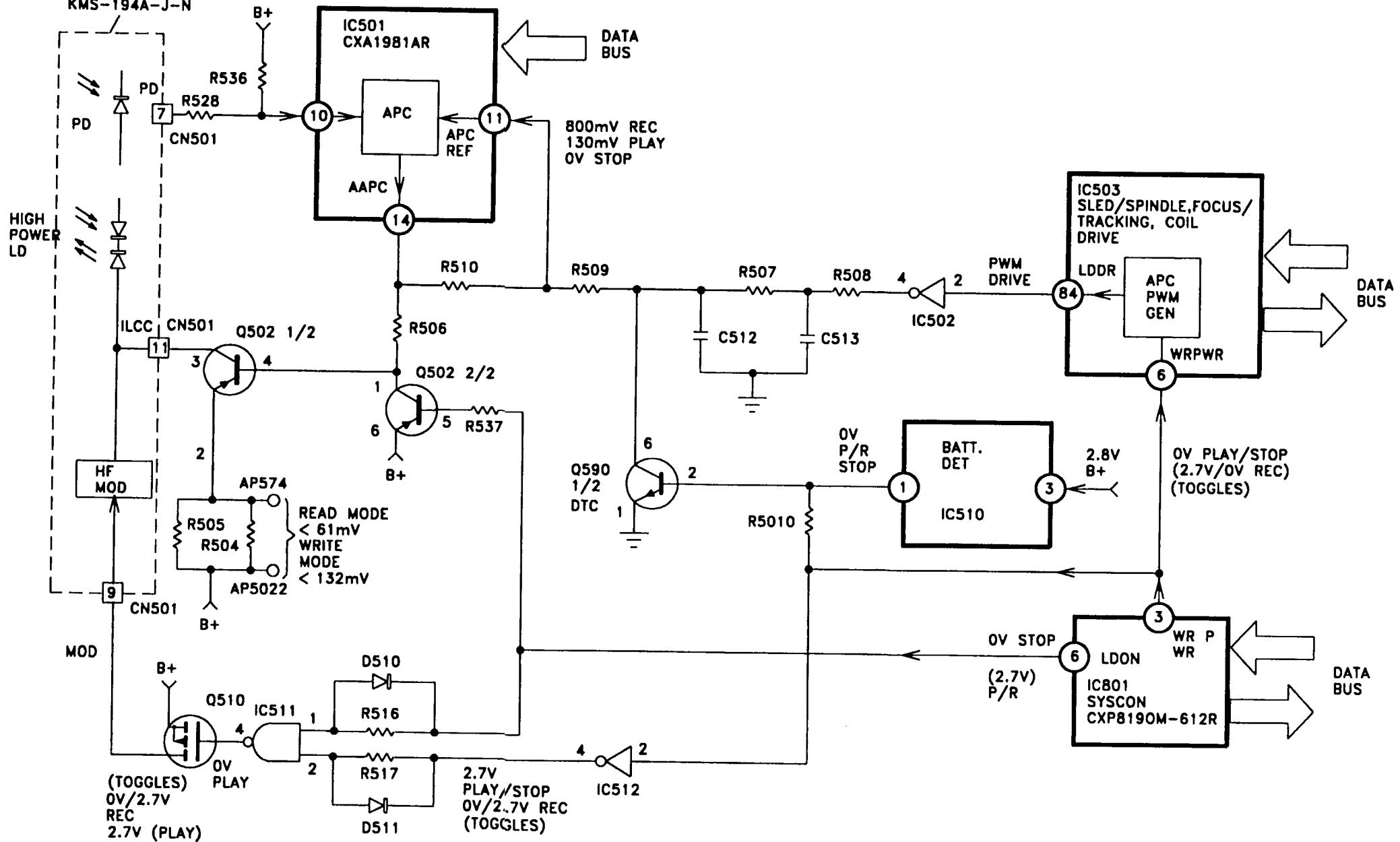
$$\begin{matrix} \{A + D\} \\ \{B + C\} \end{matrix} = \textcircled{-} \quad \begin{matrix} \{A + D\} \\ \{B + C\} \end{matrix} = \textcircled{+}$$

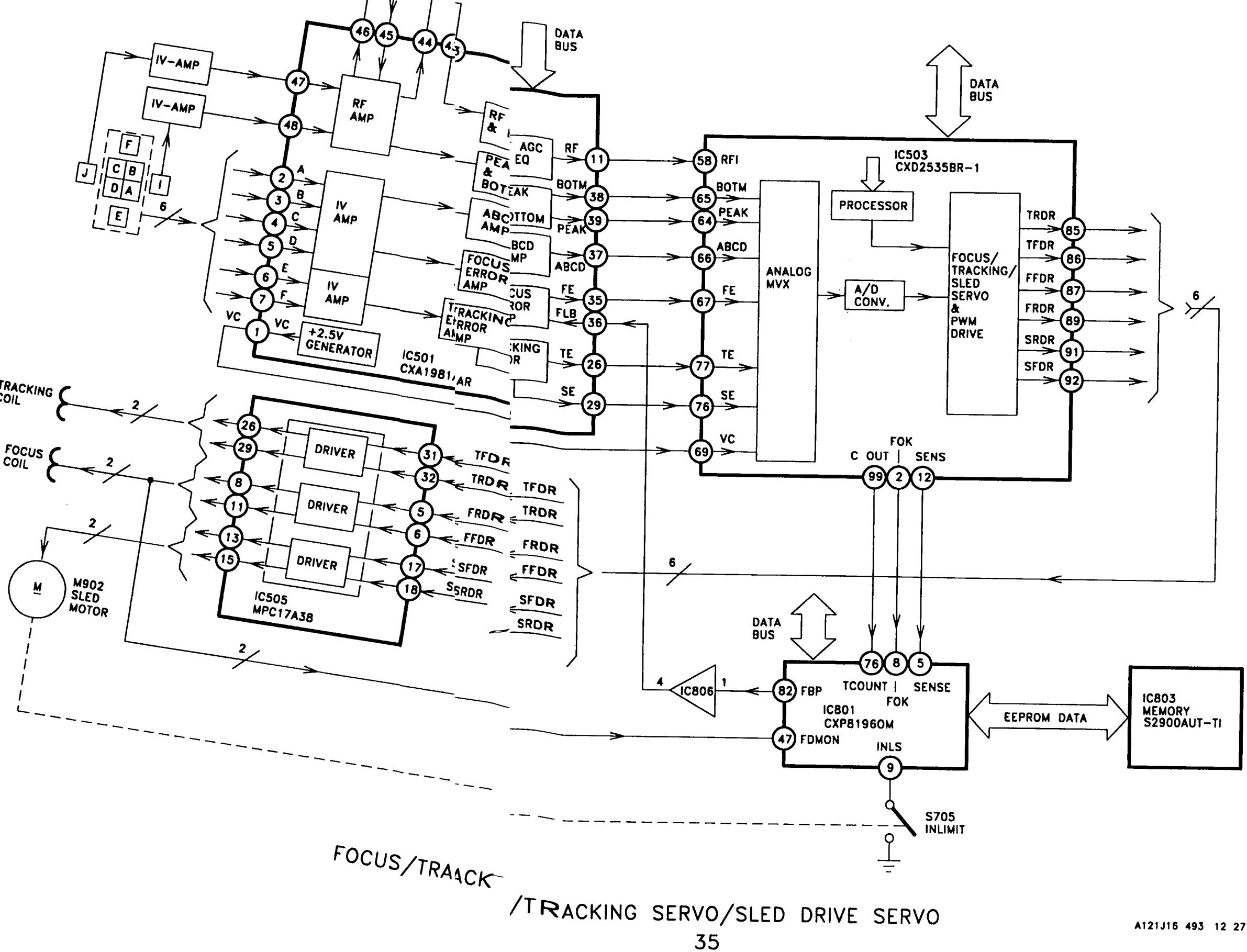
CLV SERVO

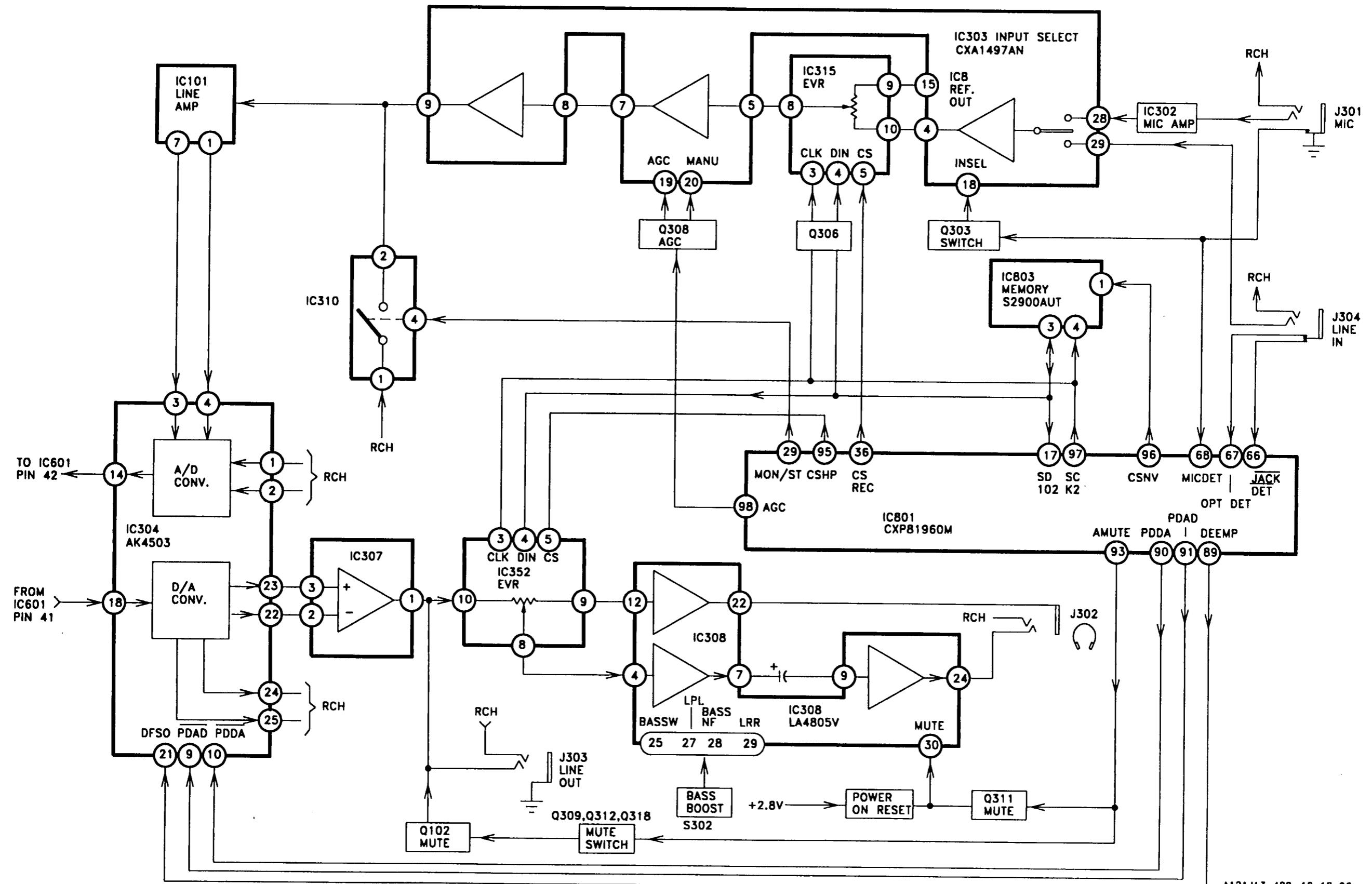


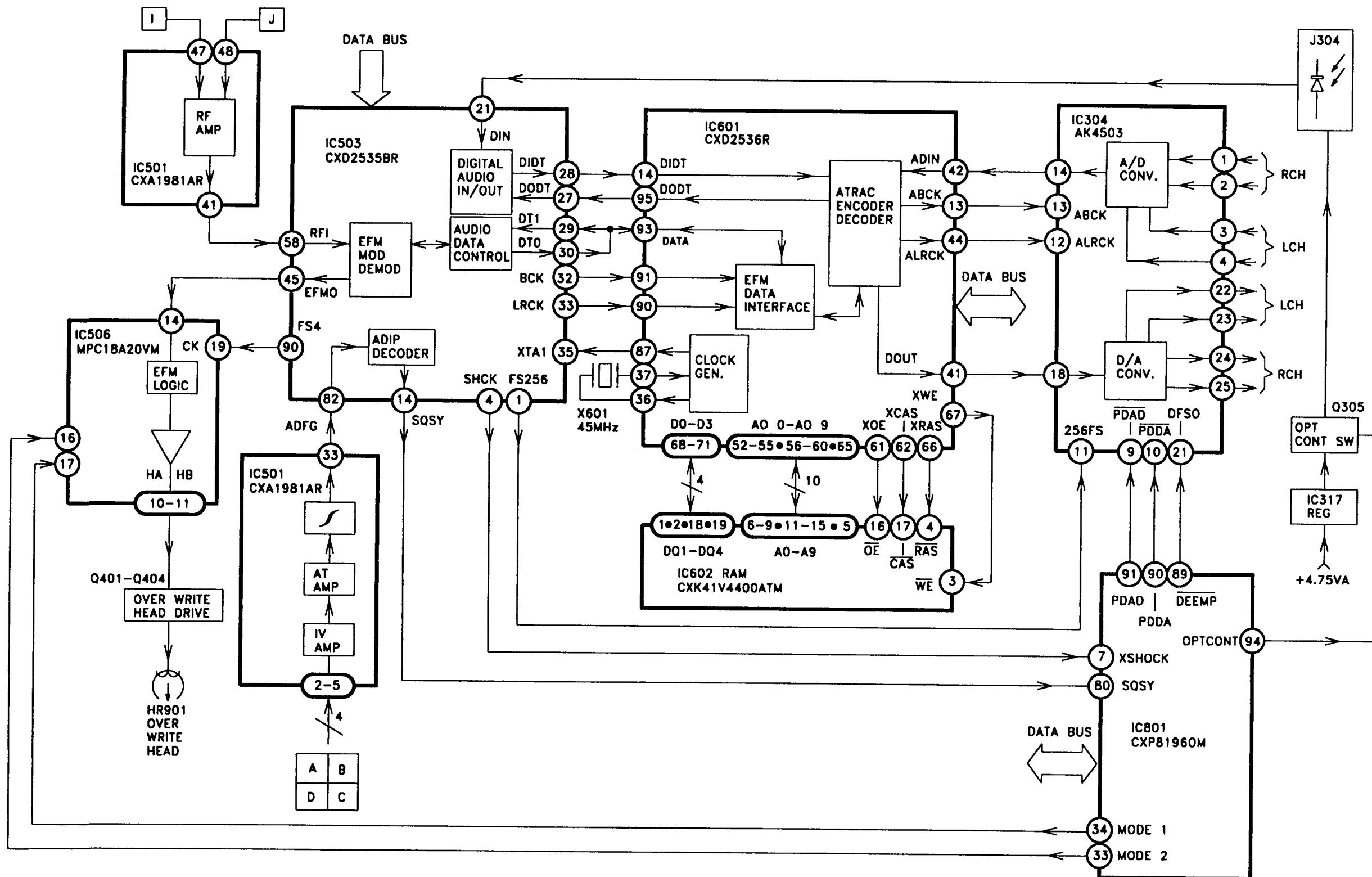
CLV SERVO DRIVE

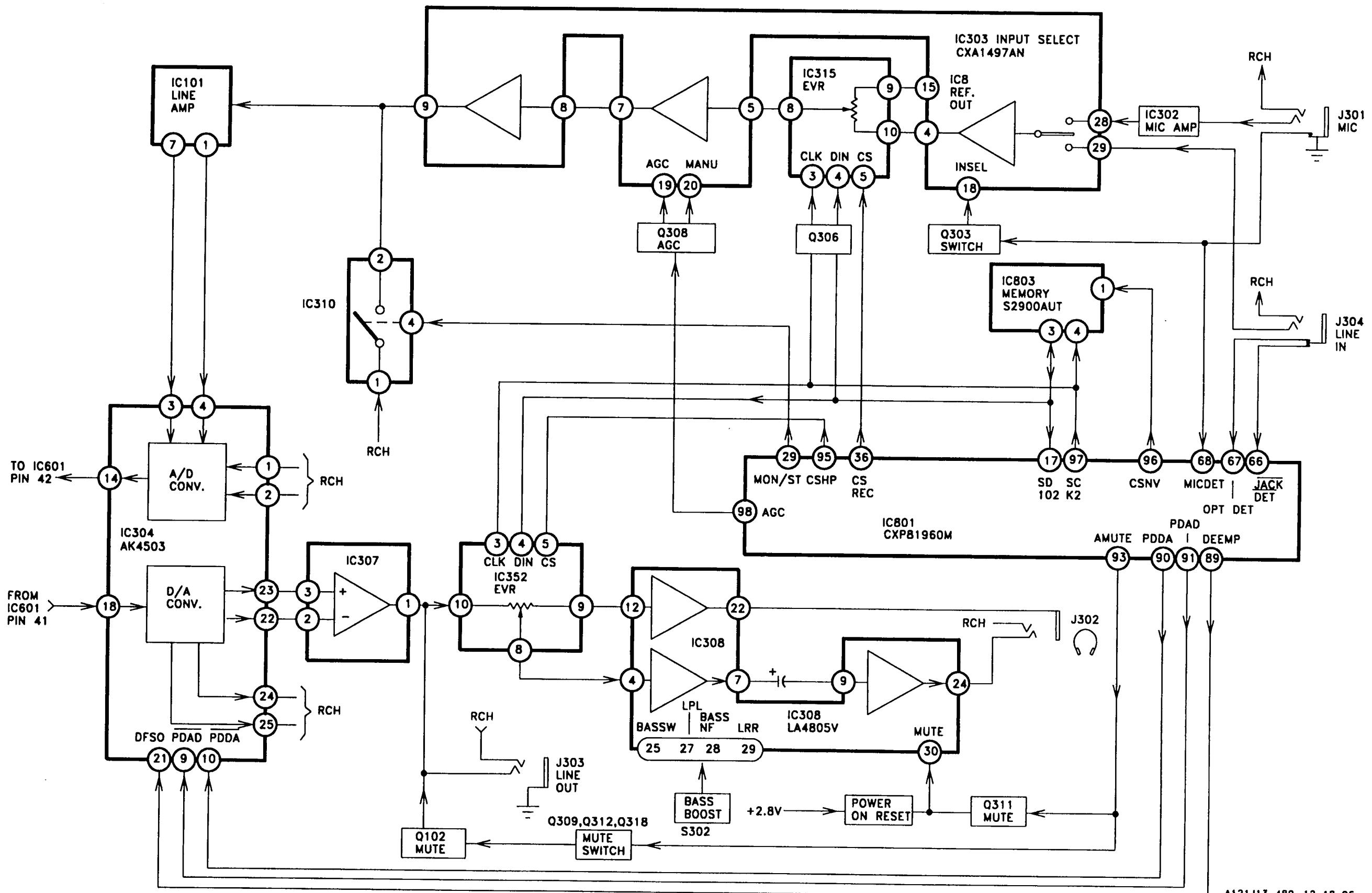
OPTICAL
ASSEMBLY
KMS-194A-J-N











ANALOG AUDIO REC/PLAY

MZ-R3 Revised Service Manual

Electronic Adjustments

Tools Required:

1. CD test disc TDYS-1 (4-963-646-01)
(Premastered CD)
2. Recordable MO disc PTDM-1 (J-2501-054-A)
3. Oscilloscope
4. DVM
5. Laser Power Meter LPM-8001 (J-2501-046-A)
6. Blue Handle Screwdriver
7. Soldering Iron
8. MZ-R3 and Power Adapter (supplied)

SERVICE MODE PREPARATION

1. Remove the six (6) silver screws from the bottom cover of the unit and set the screws aside.
- Remove the bottom cover and battery compartment door and set aside.
2. Locate the **TAP801** soldering bridge test point on the Main PCB next to IC801. (see diagram on following page)
3. Solder bridge the **TAP801** test point.
4. Locate the **VC**, **FE**, **TE** and **RF** test points on the Main PCB. (see diagram)
5. Solder temporary test leads to the **VC**, **FE**, **TE** and **RF** test points on the Main PCB.
6. Apply power and observe that the unit enters the Test Mode. The display should indicate the "Display when Test Mode is Set".