

SERVICE KNOWHOW

Date: Mar.25, 2000

No.: SKH54002 (1/1)

MODEL No.
DV-525
PDV-LC10

MODEL No.
DV-626D

SUBJECT Summary in each block diagram for 99 model DVD player

<DVD-525>

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PIONEER CORPORATION

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Service Engineering Section
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Memo: TS, 70

Classify:

Power Supply ASS'Y

(2/17)

	DV-515	DV-525
Manufacturer	MURATA	MITSUMI(100-120V) SHINDENGEN(110-240V)
Standby power consumption	1~2W	less 1W
Power supply specification	EV+5V EV+12V SW+5V SW+3.3V EV FLAG EV FL-27V	EV+5V SW+12V SW+5V SW+3.3V SW FLAG SW FL-27V
Transformer	1 piece	2 pieces Sub-Trans : EV+5V only Main-Trans : others
Power cord	Inlet	Outlet

DVDM

	DV-515	DV-525
Form	4 layers substrate	4 layers substrate
Size	189*118.5(189*237/2)	156*95.5(156*191/2)
Circuit		AV1 chip 3.3V->2.5V include A/D in IC12(Decoder) combined 1 chip with Mech/Sys con New servo DSP
Others		Flash ROM : TSOP Reduce number of parts

FLKB

	DV-515	DV-525
Size	329*196/2	246*196/2
Circuit	Illumination exist Stand-by LED exist	none none

JKSB

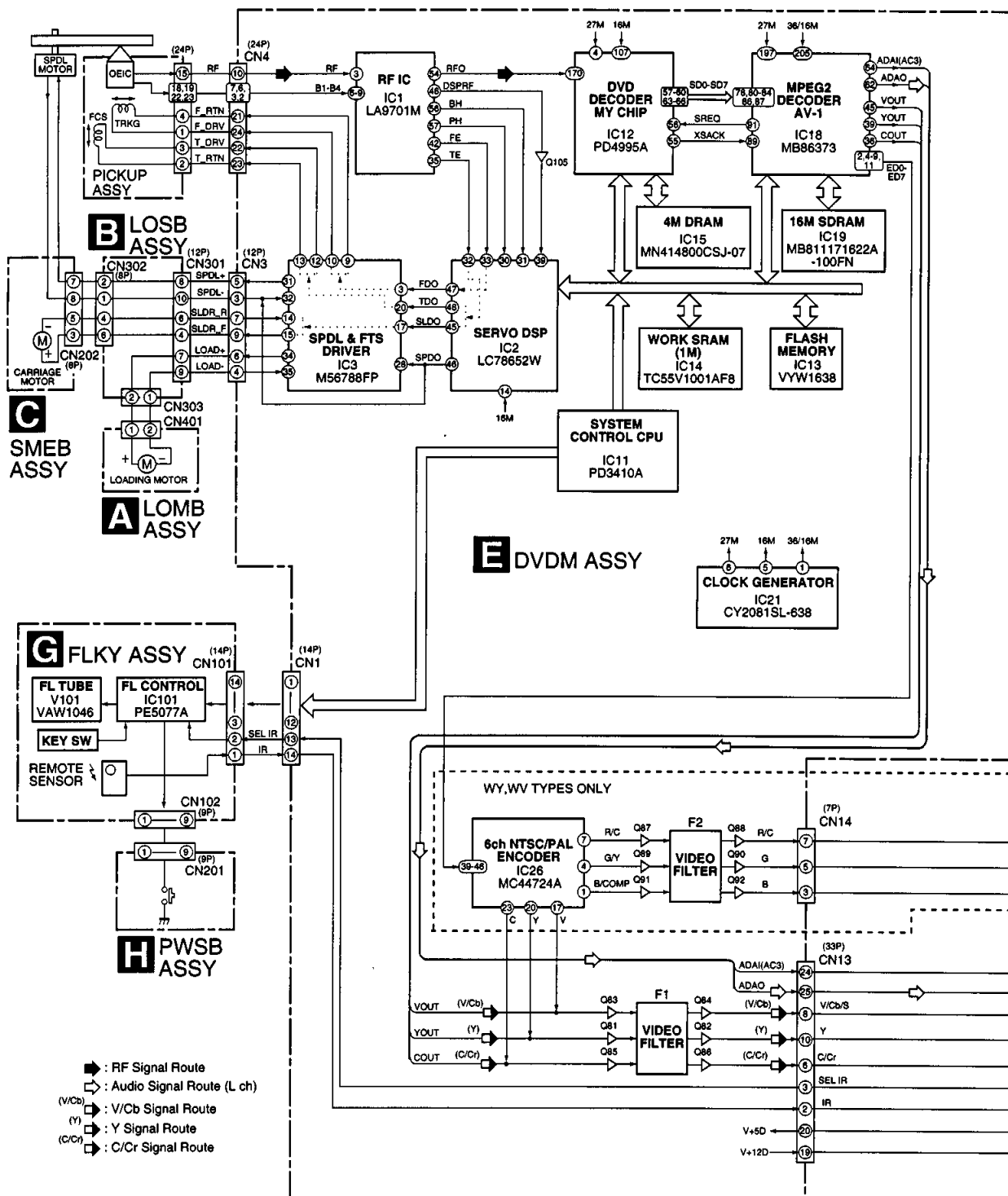
	DV-515	DV-525
Size	329*196/2	329*196/2
Circuit 及びその他	Virtual Dolby exist VNR none 2 Flexible cables(DVDM-JKSB) Flexible cable for service exist	none VNR exist 1 Flexible cable(DVDM-JKSB) none

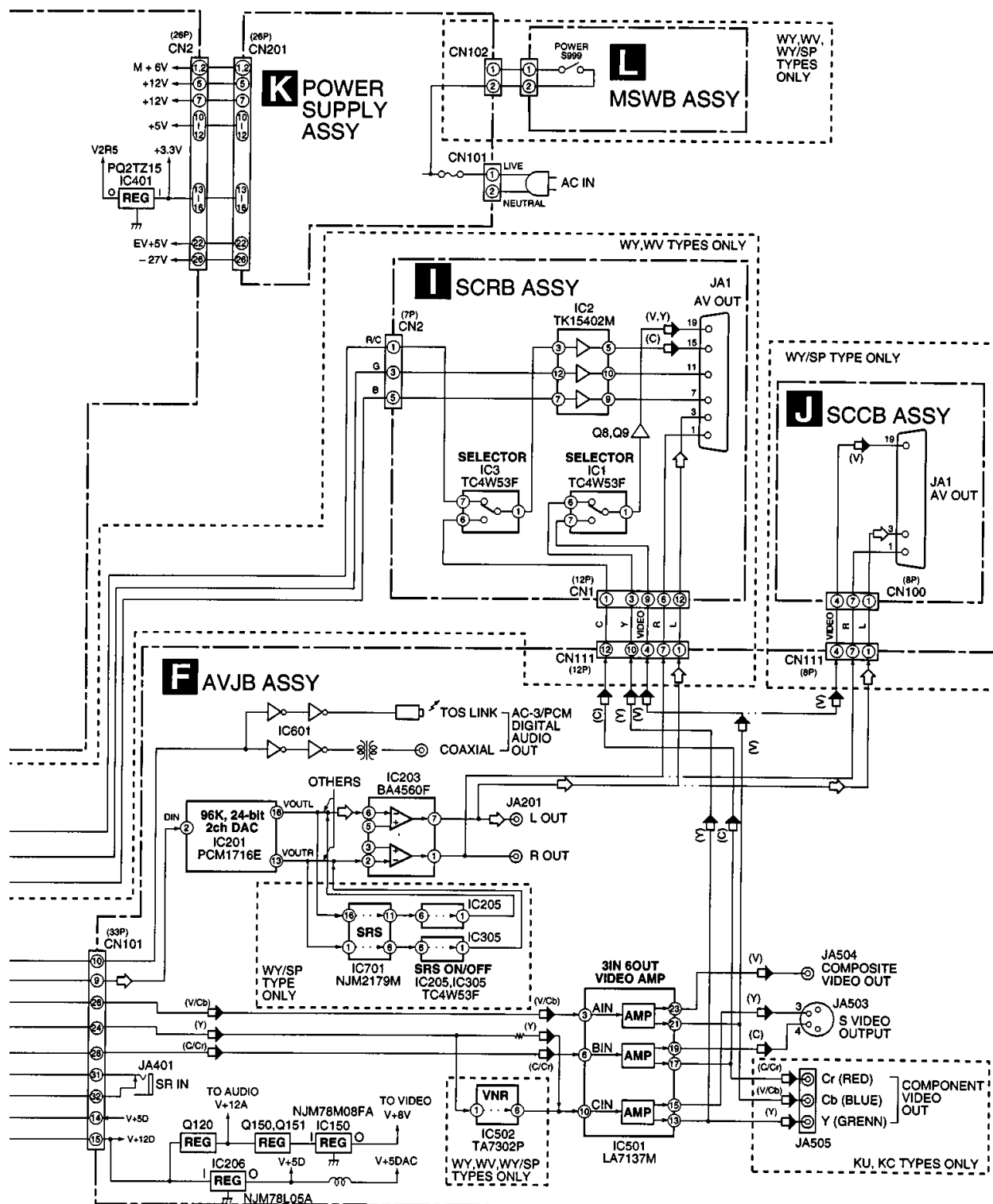
DV-525

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

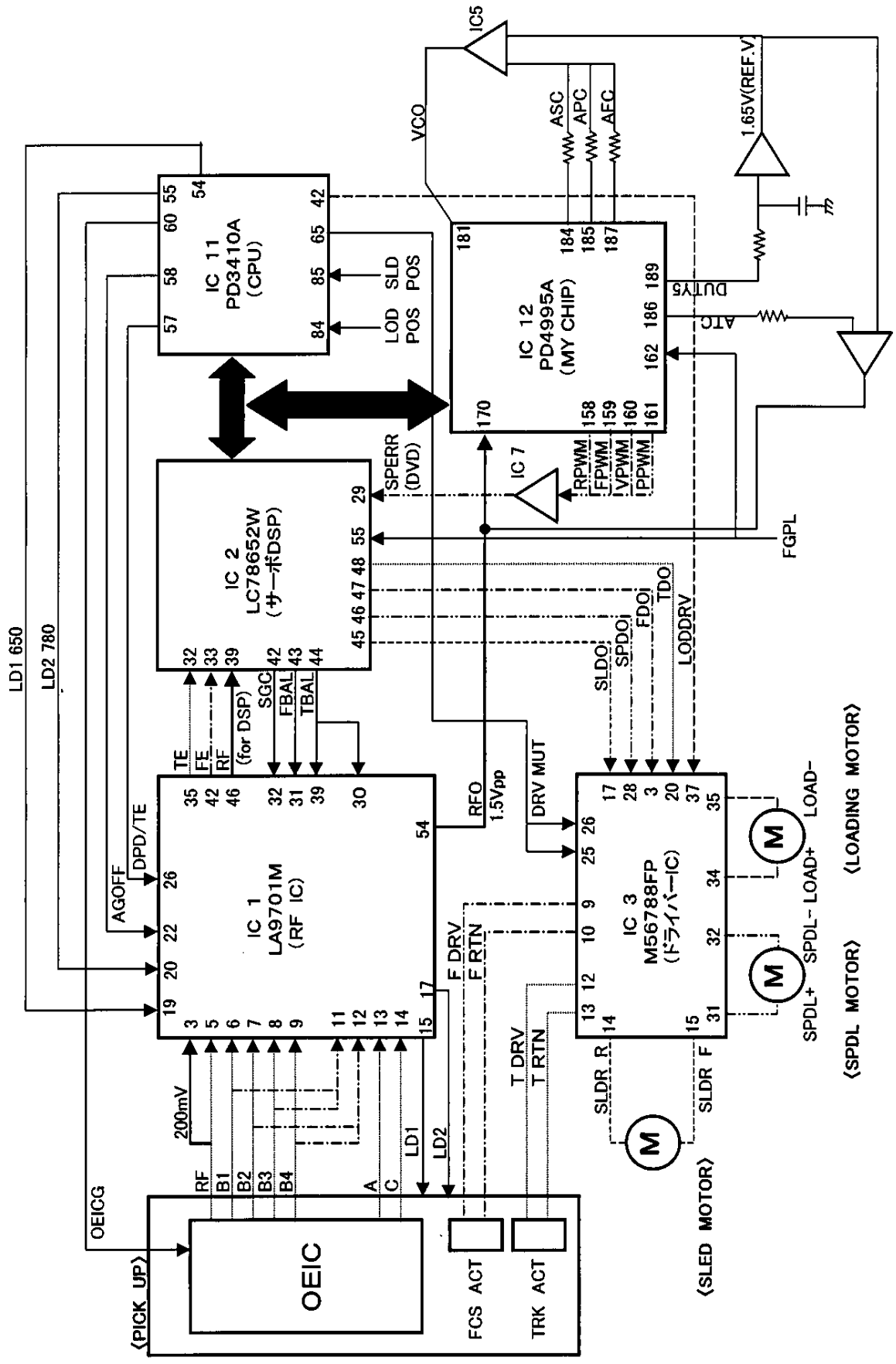
3.1 BLOCK DIAGRAM

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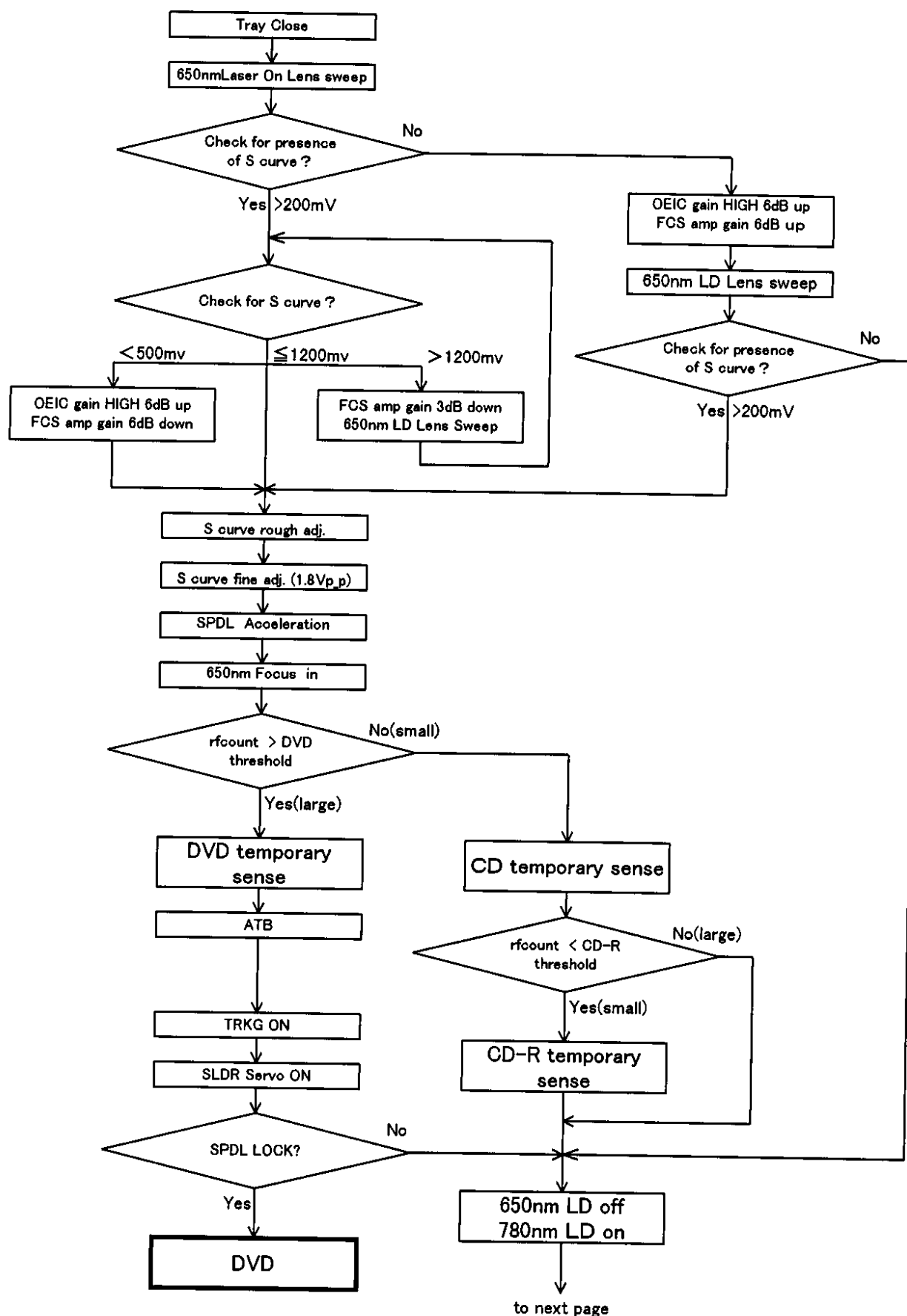


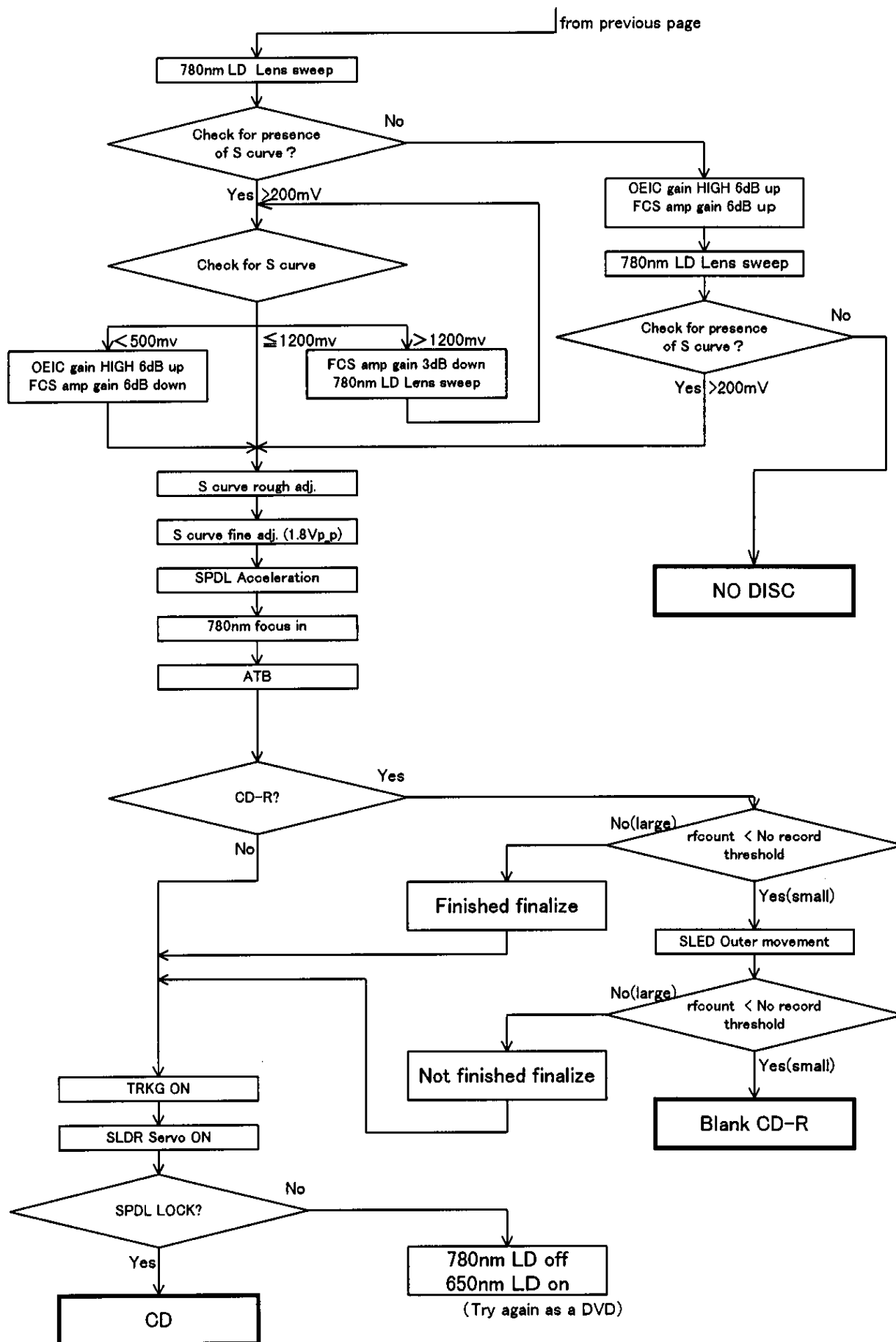


<<DV-525 Series Servo Block>>



DV-525 Disc Sensing

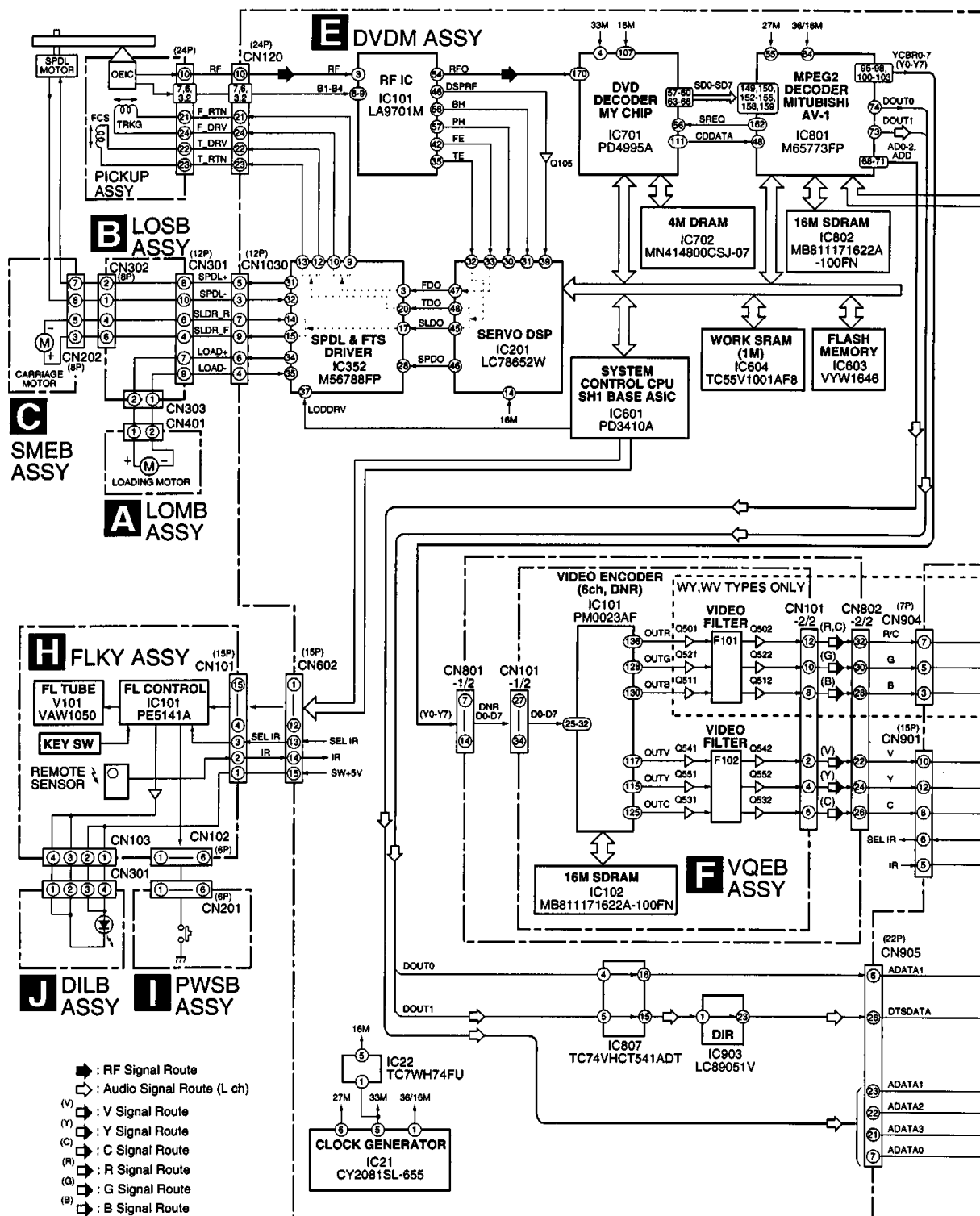


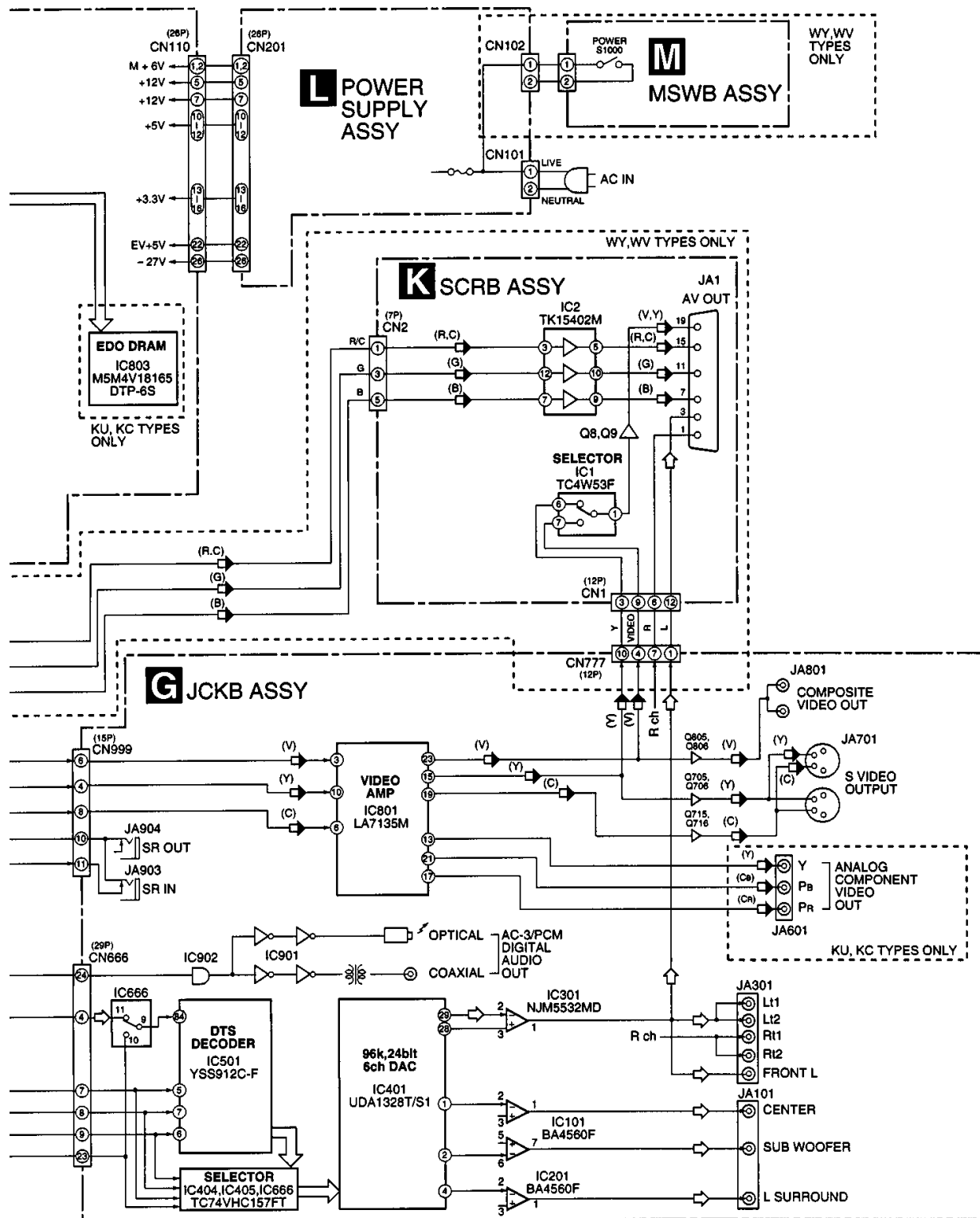


Comparison Chart between DV-626D and DV-525

		DV-626D	DV-525
IC	AV-1 chip(IC801) Memory for TPP(Trick Play processor,IC803) Video Encoder(DNR processor,IC101) Audio DAC(IC401) DTS Decoder(IC501) Flash Memory(IC603) DIR(Digital Interface Receiver)(IC903)	MITSUBISHI M5M4V18165DTP-6S VQE4(Video Quality Encoder)PM0023AF UDA1328TS:6ch DAC YSS912C-F 16M LC89051V	FUJITU - MC44724A PCM1716E - 4M -
Clock	MY-Chip(DVD Decoder,IC701)	33.8688M (1.3 times speed)	27M (1 time speed)
Function	Video NR Audio output Rotation with DVD playback	DNR(process of VQE4) 6ch 1.3 times speed	YNR 2ch 1 time speed
Power supply unit		SHINDENGEN	MITSUMI(for J,KU) SHINDENGEN(for others)

3.1 BLOCK DIAGRAM







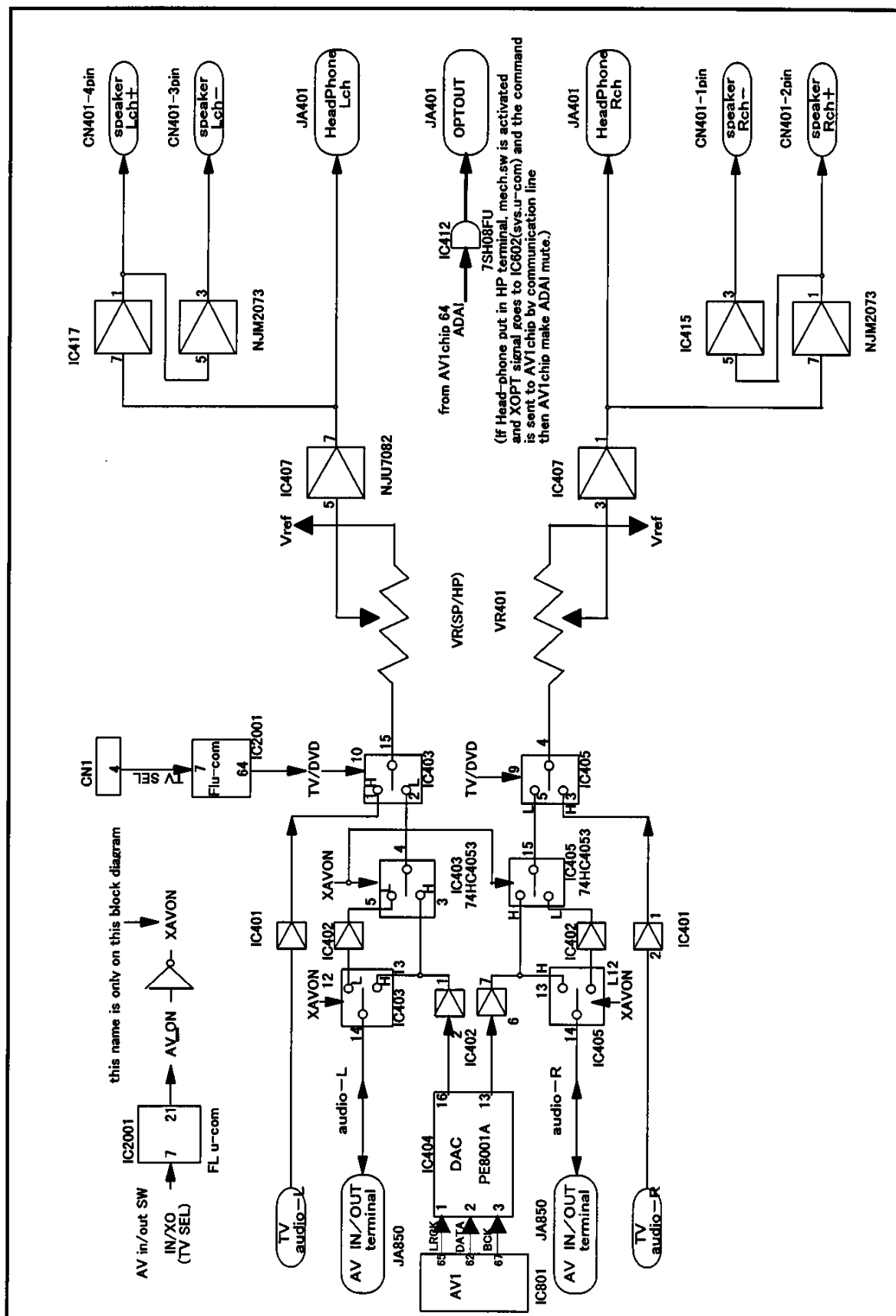


fig1 AUDIO BLOCK part

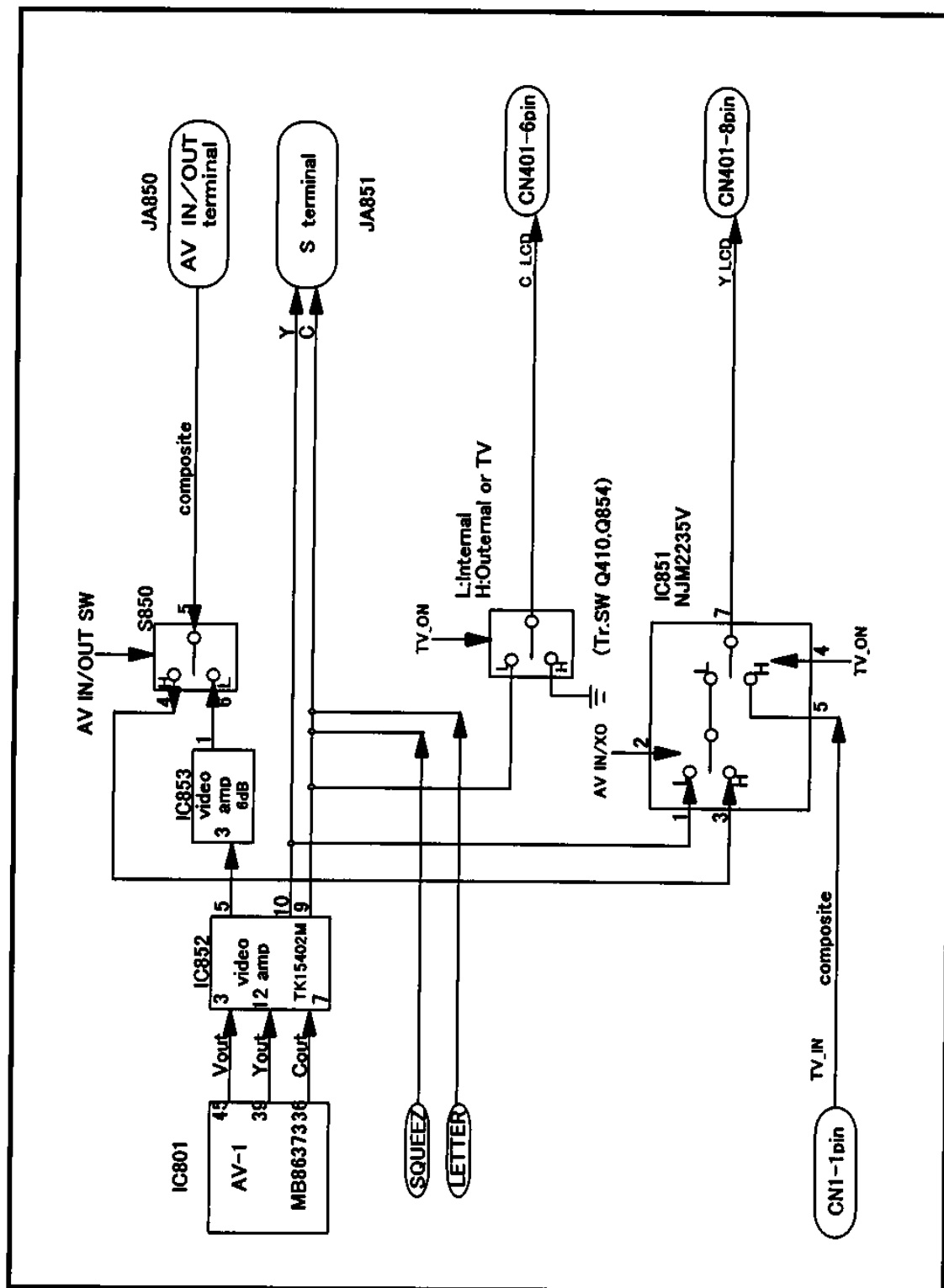
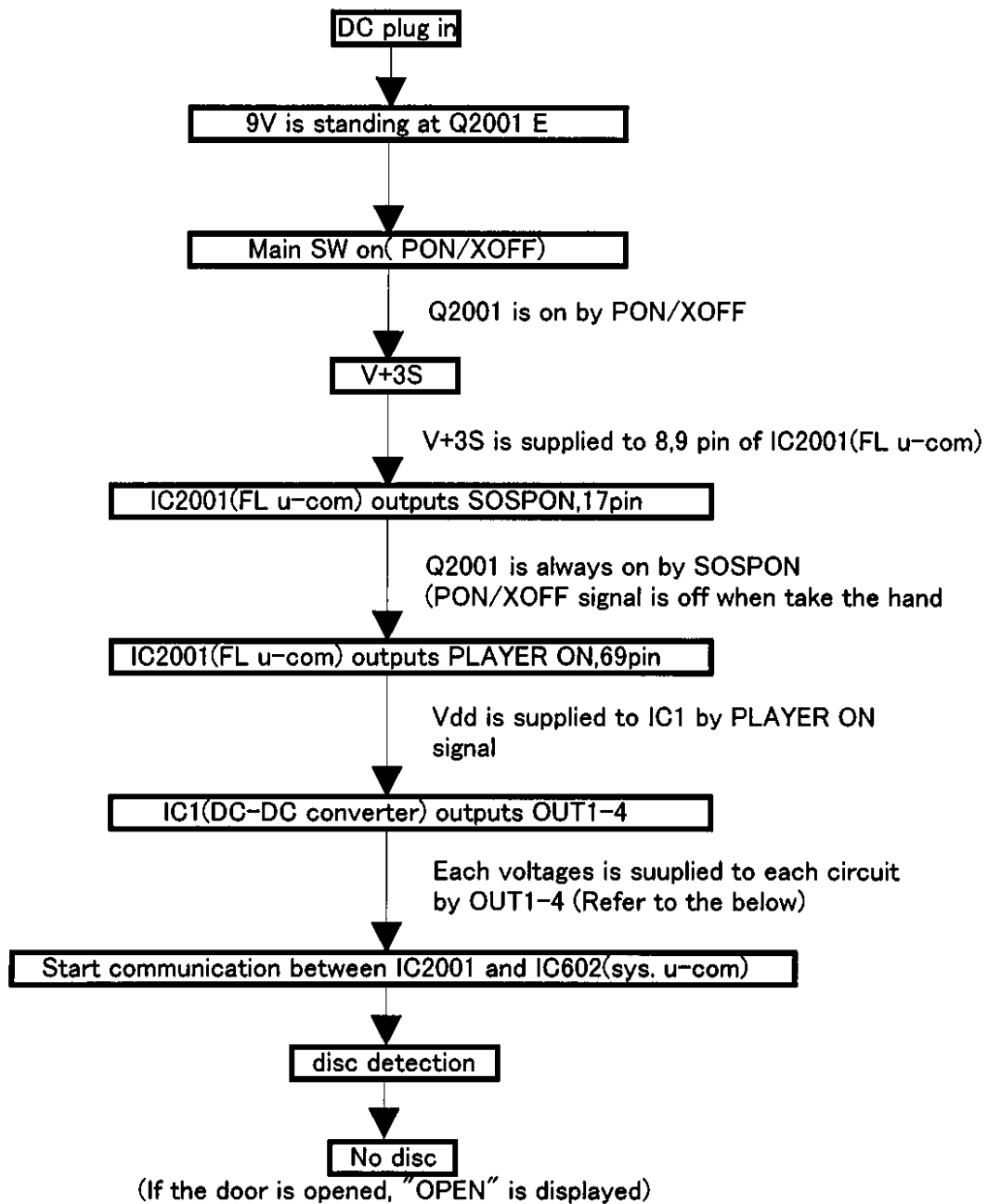


fig 2 VIDEO BLOCK part

Set up operation



Voltage	supply to
V5DR	IC351(FTS DRV)
V+5S	IC351(FTS DRV),IC201(DSP)
V5AV	analog circuit after IC801(AV1chip)
V+5A	not used
V+5D	IC201(DSP)
V+3D	IC610(MY CHIP),IC602(sys-com),IC201(DSP),each memory IC's
V2R5	IC801(AV1)