

# XR3F-19B160

## SERVICE MANUAL

US Model



The electrical adjustments are done automatically in this set.

Version: -AA

Model Name Using Similar Mechanism	F8ZF-19B160
CD Drive Mechanism Type	MG-205F-132
Optical Pick-Up Name	KSS-313B/Z-N

### SPECIFICATIONS

System	Compact disc digital audio system
Disc	Compact disc
Laser	Semiconductor laser ( $\lambda=780$ nm)
Spindle speed	200 r.p.m. to 500 r.p.m. (CLV)
Error correction	Sony Super Strategy Cross Interleave Read Solomon Code
Number of channels	2
D-A conversion	1-bit
Frequency response	20 to 20,000 Hz $^{+1.0}_{-1.5}$ dB
Harmonic distortion	0.02% (1 kHz)
Dynamic range	85 dB
Signal to noise ratio	85 dB
Channel separation	70 dB
Wow and flutter	Below measurable limit
Outputs	Ford Signal Connector

<b>Disc</b>	
Track pitch	1.6 $\mu$ m
Sampling frequency	44.1 kHz
Quantization	16 bit linear quantizing/channel
Modulation system	EFM
Transfer rate	2.03 Mbit/sec. (before modulation)

<b>General</b>	
Power requirements	14.4 V dc car battery (negative ground)
Current drain	1 A (playback) 2 A (during disc loading or eject)
Operating temperature	-20°C to +60°C (-4°F to +120°F)
Dimensions	Approx. 188 × 59 × 160.6 mm (w/h/d) (7-1/2 × 2-7/20 × 6-2/5 in.) including projecting parts and controls
Weight	Approx. 1.3 kg (3 lb), net

COMPACT DISC PLAYER

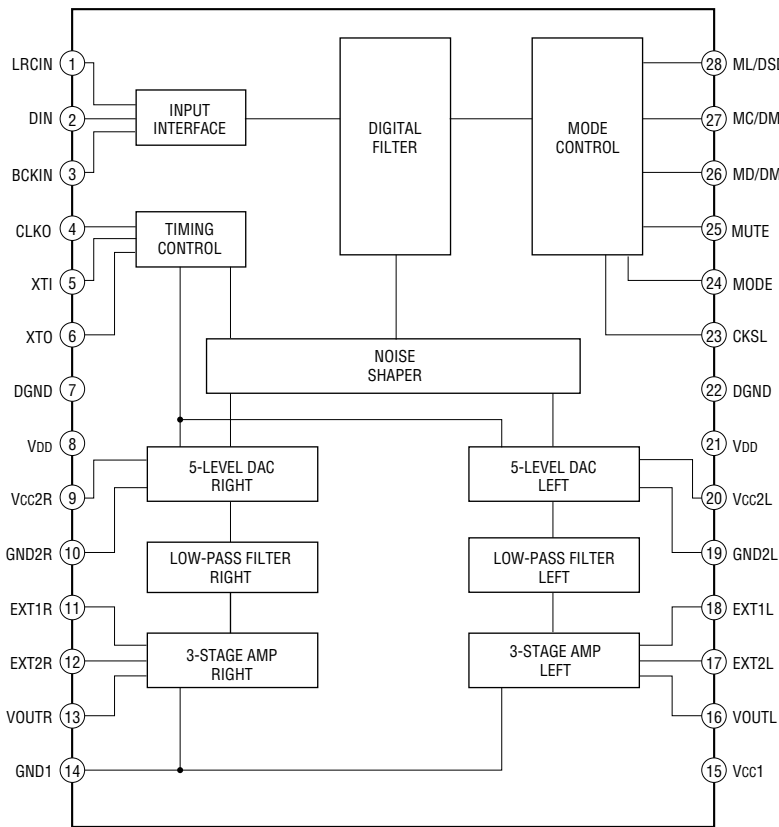
SONY®



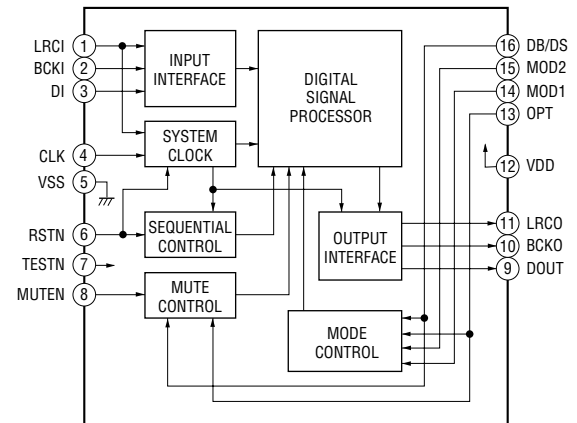
## SECTION 2 DIAGRAMS

### • IC Block Diagrams

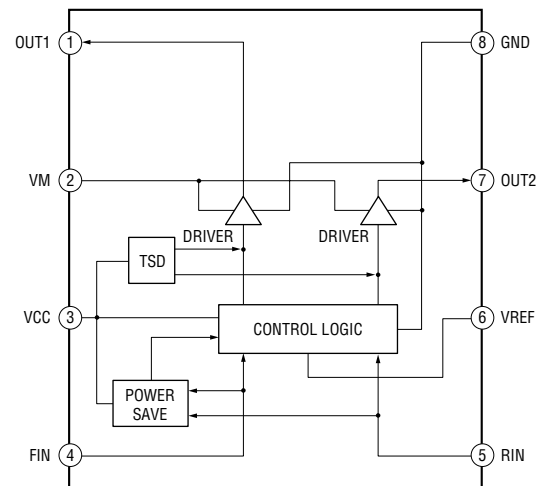
**IC301 PCM1710U-A/1K (MD MAIN BOARD)**



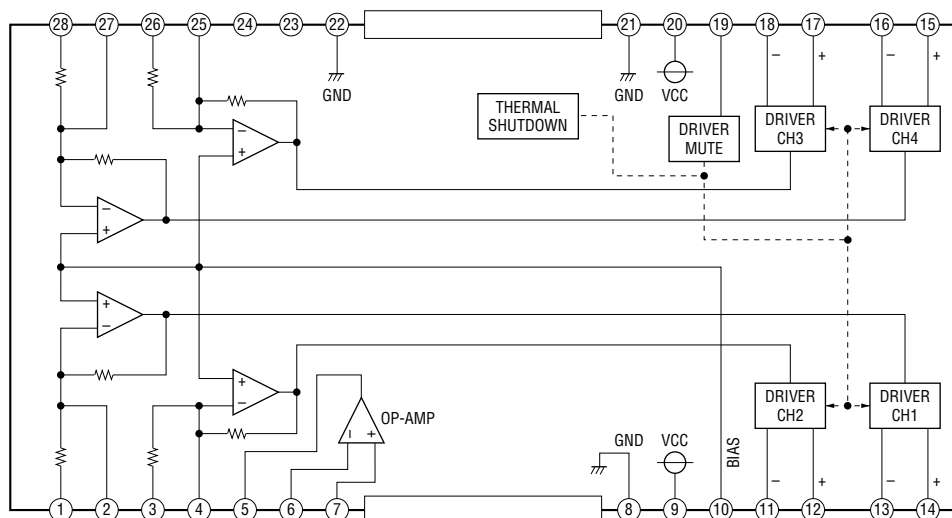
**IC302 SM5852CS-E2 (MD MAIN BOARD)**



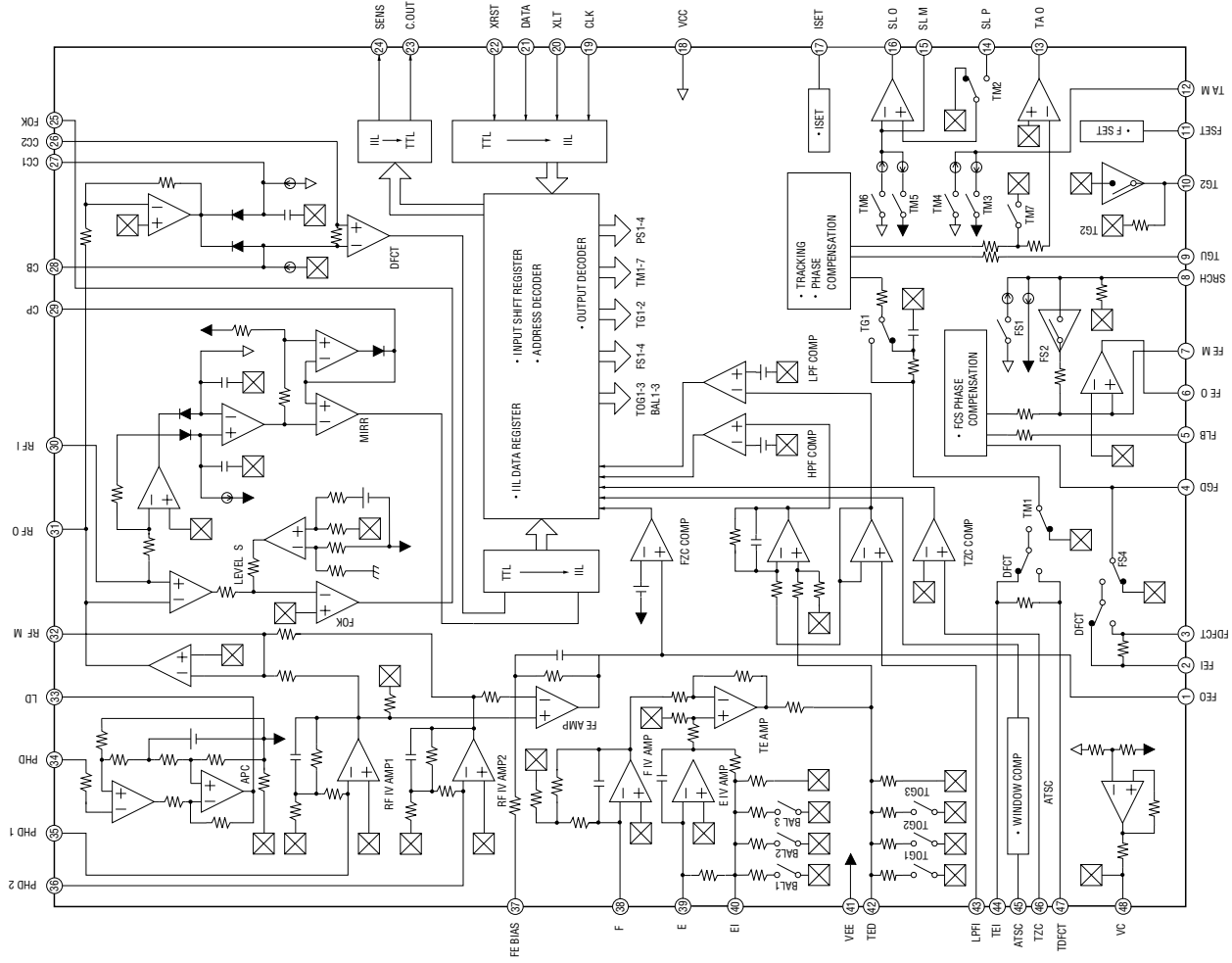
**IC401 BA6287F (MD MAIN BOARD)**



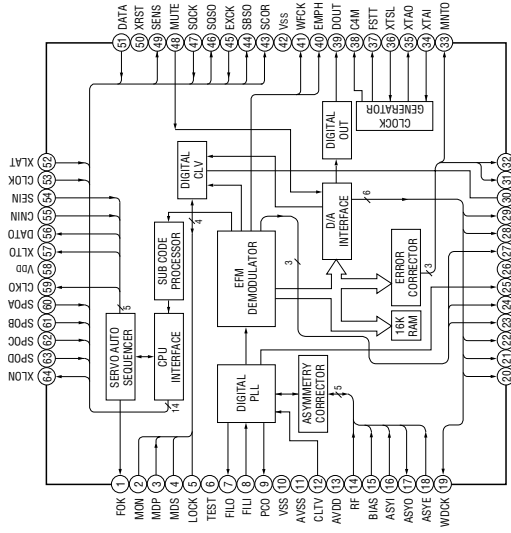
**IC402 BA6394F (MD MAIN BOARD)**



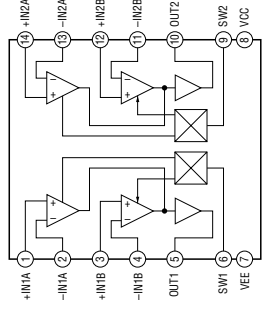
IC501 CXA1782BR (MD MAIN BOARD)



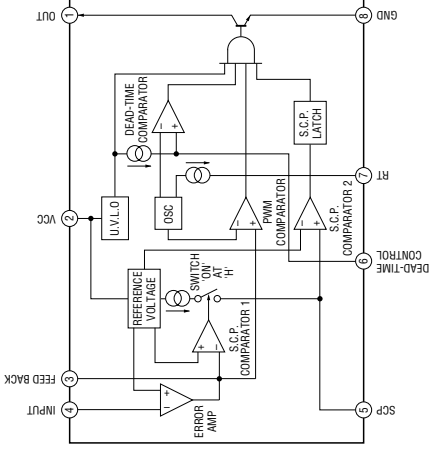
IC502 CXD2507AQ (MD MAIN BOARD)



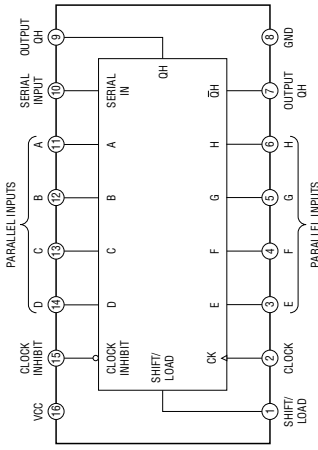
IC101 BA3129F-T1 (MAIN BOARD)



IC401 TL5001CD (MAIN BOARD)

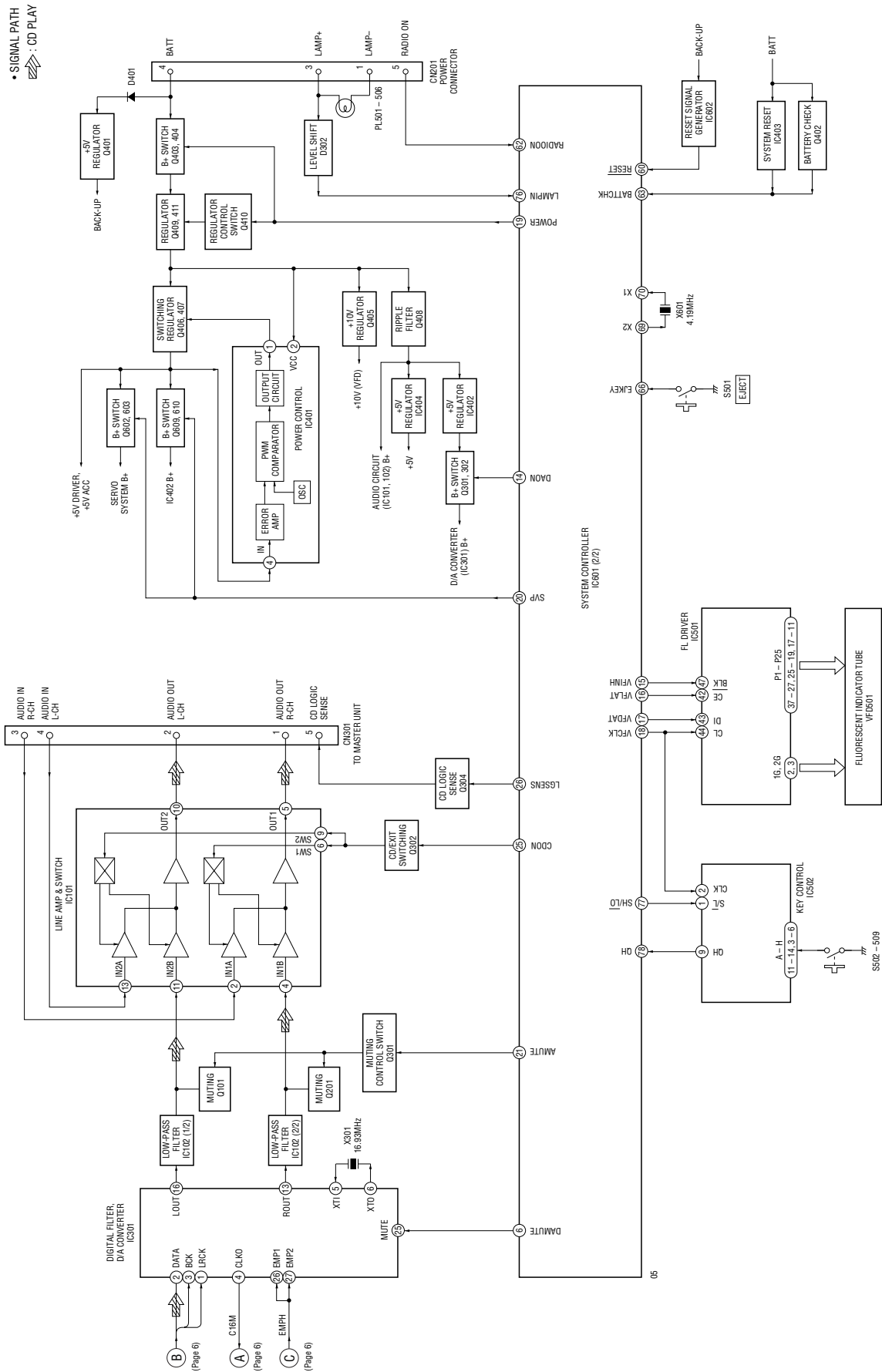


IC502 SN74HC165ANS (KEY BOARD)





2-2. BLOCK DIAGRAM - MAIN Section -





2-6. SCHEMATIC DIAGRAM - SERVO Section (2/2) - See page 8 for Waveforms. • See page 4 for IC Block Diagrams.

