

CHAPTER

77

ENGINE INDICATING

CHAPTER 77
ENGINE INDICATING

CH-SC-SU	Schem	Page	Sheet	Date	CH-SC-SU	Schem	Page	Sheet	Date
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		1		Jun 21/2016					
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R		1		Jun 21/2016					
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		1		Aug 15/2013					
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A = Added, R = Revised, D = Deleted, O = Overflow

77-EFFECTIVE PAGES

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**CHAPTER 77
ENGINE INDICATING**

	Title	CH-SC-SU	Schem	Page	Sheet	Date	Effectivity
	<u>ENGINE TACHOMETER SYSTEM</u>						
I	ENGINE N1 SPEED INDICATION	77-12-11		101		Jun 21/2016	ALL
I	ENGINE N2 SPEED INDICATION	77-12-21		101		Jun 21/2016	ALL
	<u>EXHAUST GAS TEMPERATURE (EGT) INDICATING SYSTEM</u>						
I	ENGINE EXHAUST GAS TEMPERATURE INDICATION	77-21-11		101		Jun 21/2016	ALL
	<u>AIRBORNE VIBRATION MONITORING (AVM) SYSTEM</u>						
	ENGINE VIBRATION MONITORING SYSTEM	77-31-11		101		Aug 15/2013	YT101-YT103
				102		Apr 17/2014	YT104-YT105
				103		Mar 14/2016	YT106-YT120
I				104		Jun 21/2016	YT126-YT133



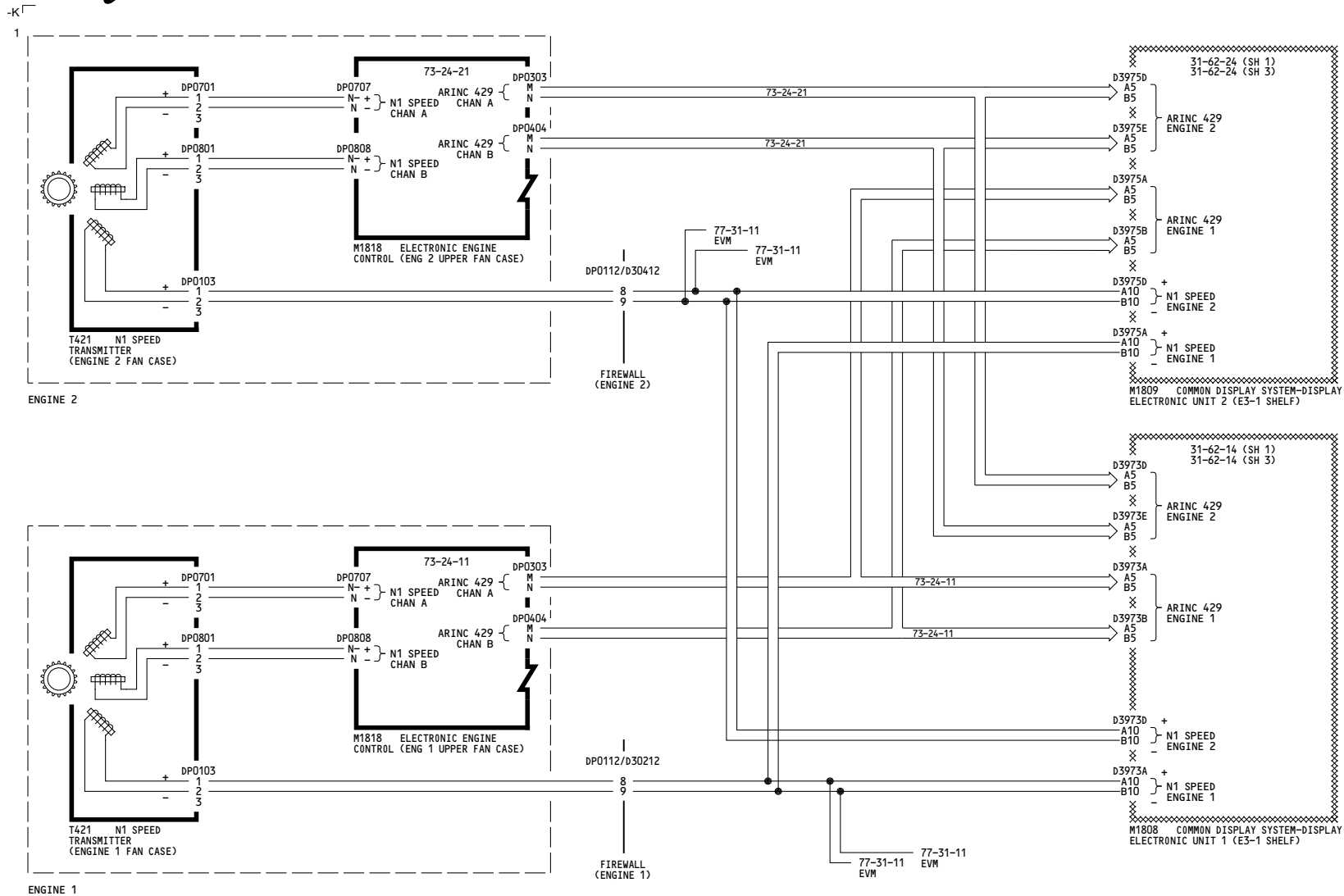
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ENGINE INDICATING

CH-SC-SU	Title
77-21-11	ENGINE EXHAUST GAS TEMPERATURE INDICATION
77-12-11	ENGINE N1 SPEED INDICATION
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CH-SC-SU	Title

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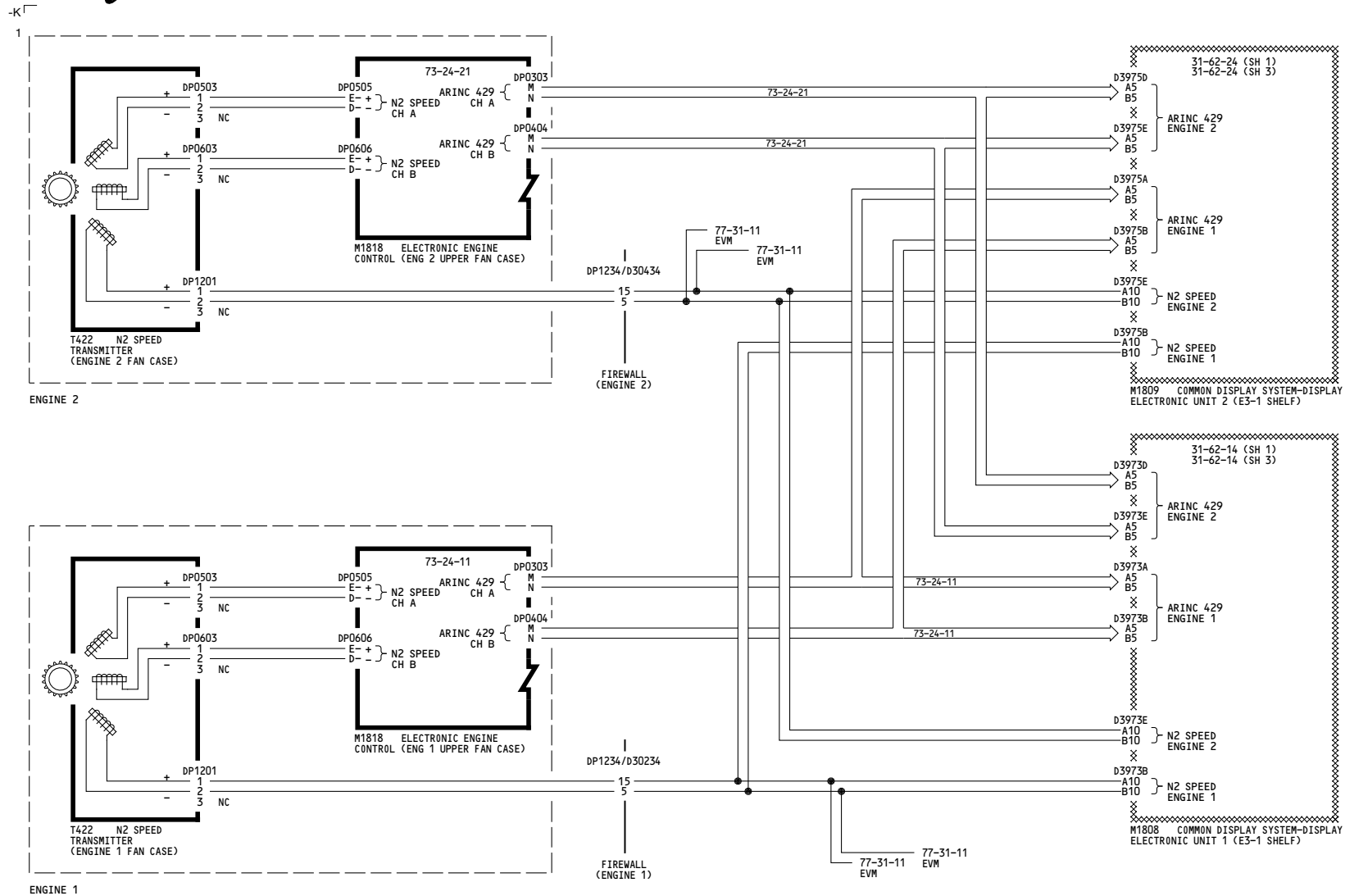
ENGINE N1 SPEED INDICATION

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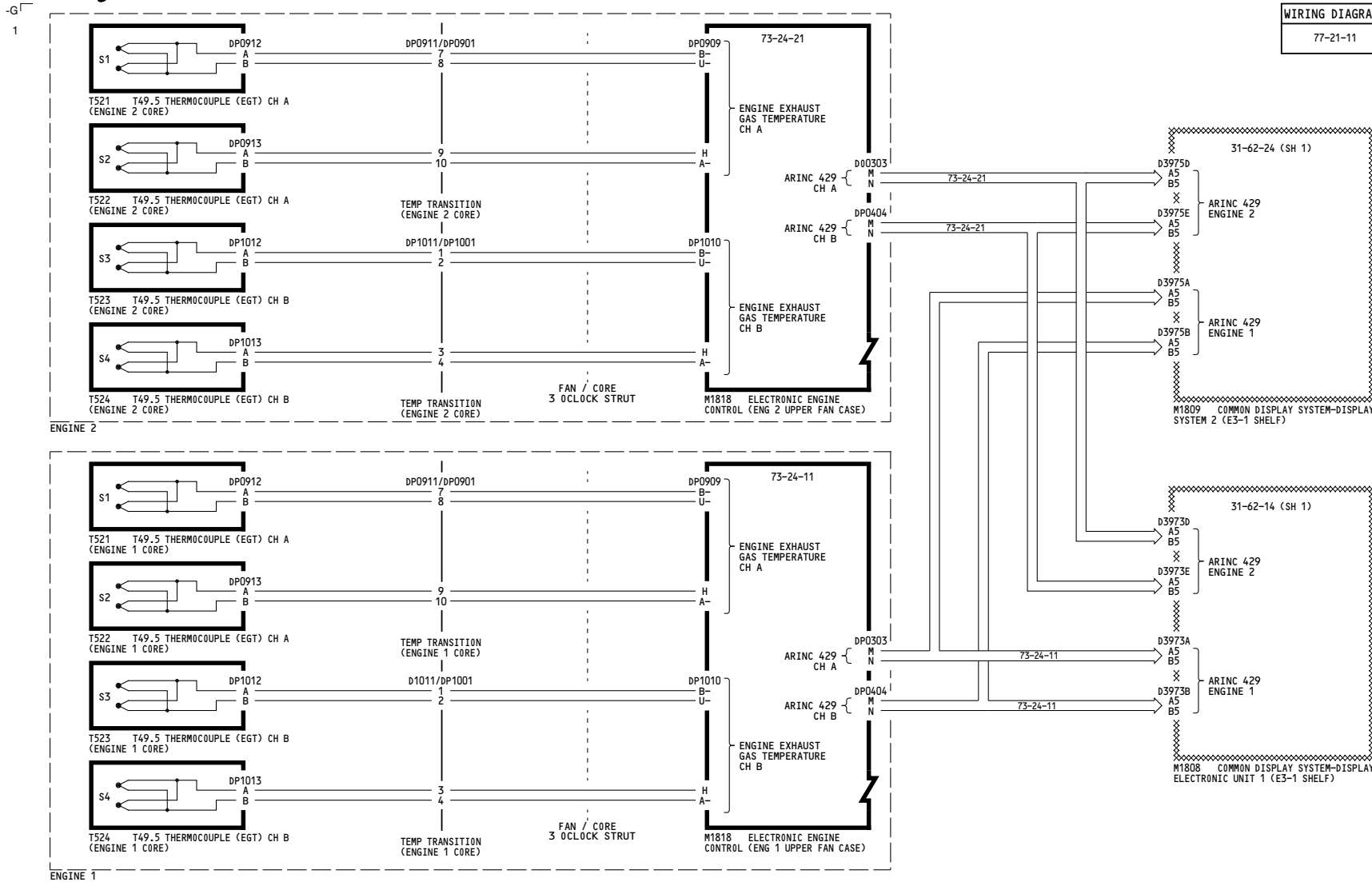
ENGINE N2 SPEED
INDICATION

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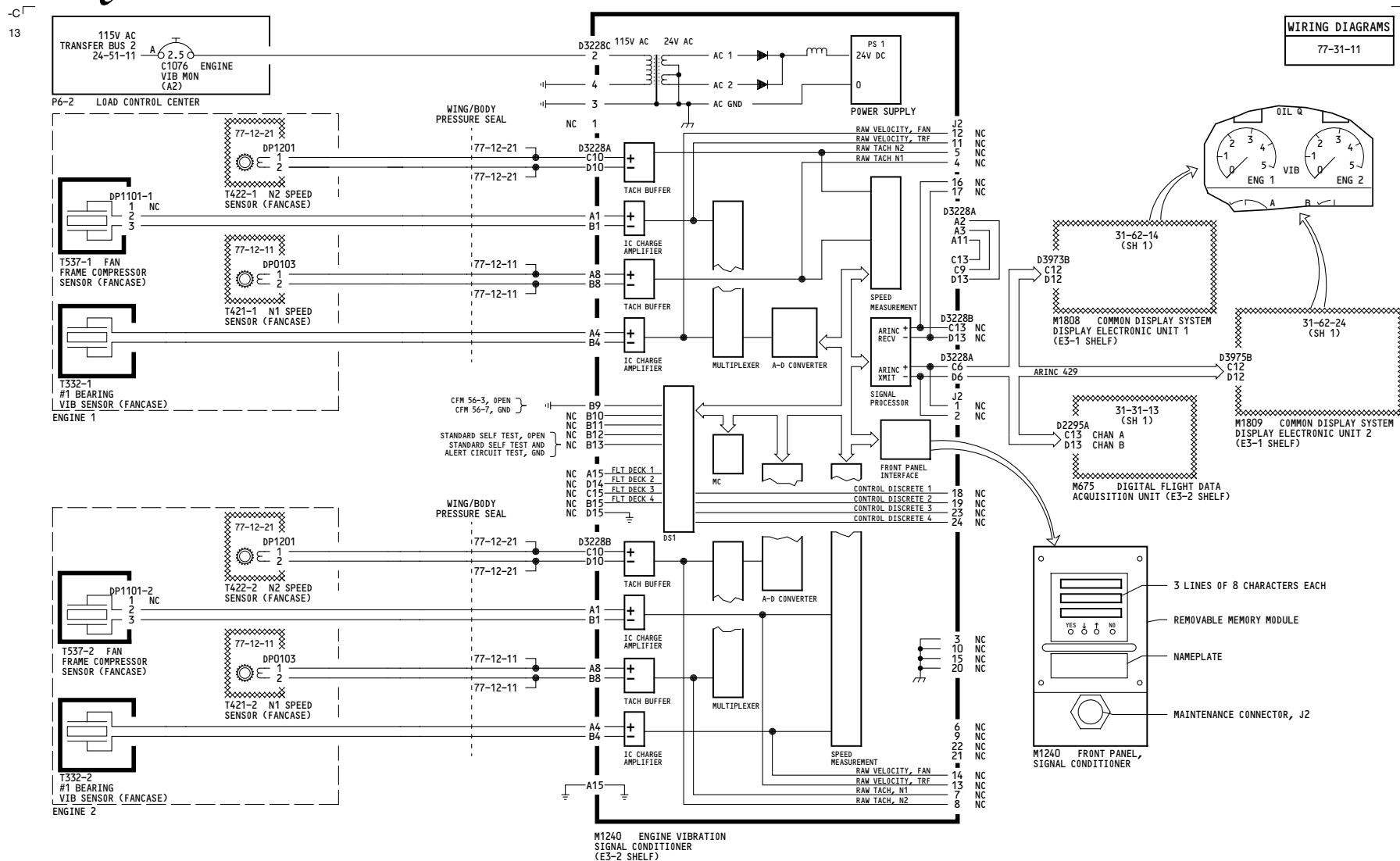
ENGINE EXHAUST GAS TEMPERATURE INDICATION

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YT101-YT103

ENGINE VIBRATION MONITORING SYSTEM

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Aug 15/2013



115V AC
TRANSFER BUS 2
24-51-11

A 2.5

C1076 ENGINE
VIB MON
(A2)

[illegible]

WING/BODY PRESSURE SEAL

115V AC 24V AC

AC 1 AC 2 AC GND

PS 1 24V DC

POWER SUPPLY

RAW VELOCITY, FAN
RAW VELOCITY, TRF
RAW TACH, N1
RAW TACH, N2

D3228C

2 4 3

NC 1

77-12-21

D3228A

C10
D10

TACH BUFFER

A1 B1

IC CHARGE AMPLIFIER

77-12-11

A8 B8

TACH BUFFER

A4 B4

IC CHARGE AMPLIFIER

MULTIPLEXER

A-D CONVERTER

SPEED MEASUREMENT

ARINC * REC'D
ARINC * INIT

SIGNAL PROCESSOR

FRONT PANEL INTERFACE

CONTROL DISCRETE 1
CONTROL DISCRETE 2
CONTROL DISCRETE 3
CONTROL DISCRETE 4

D3228B

C13
D13

D3228A

C6
D6

J2
1 2

CFM 56-3, OPEN
CFM 56-7, GND

STANDARD SELF TEST, OPEN
STANDARD SELF TEST AND
ALERT CIRCUIT TEST, GND

WING/BODY PRESSURE SEAL

77-12-21

D3228B

C10
D10

TACH BUFFER

A1 B1

IC CHARGE AMPLIFIER

77-12-11

A8 B8

TACH BUFFER

A4 B4

IC CHARGE AMPLIFIER

MULTIPLEXER

A-D CONVERTER

SPEED MEASUREMENT

RAW VELOCITY, FAN
RAW VELOCITY, TRF
RAW TACH, N1
RAW TACH, N2

3 10 15 20

6 9 22 21

14 13 7 8

WIRING DIAGRAMS
77-31-11

D13673A
D9 TX HI
E9 TX LO

G5 RX HI
H5 RX LO

M2889 NETWORK FILE SERVER
(E5-2) (PROV)

OIL 4
ENG 1
VIB
ENG 2

31-62-14
(SH 1)

D3973B
C12
D12

M1808 COMMON DISPLAY SYSTEM
DISPLAY ELECTRONIC UNIT 1
(E3-1 SHELF)

ARINC 429

D3975B
C12
D12

D2295A
C13 CHAN A
D13 CHAN B

31-31-13
(SH 1)

M675 DIGITAL FLIGHT DATA
ACQUISITION UNIT (E3-2 SHELF)

31-62-24
(SH 1)

M1809 COMMON DISPLAY SYSTEM
DISPLAY ELECTRONIC UNIT 2
(E3-1 SHELF)

M1240 FRONT PANEL
SIGNAL CONDITIONER

3 LINES OF 8 CHARACTERS EACH

REMOVABLE MEMORY MODULE

NAMEPLATE

MAINTENANCE CONNECTOR, J2

31-62-24
(SH 1)

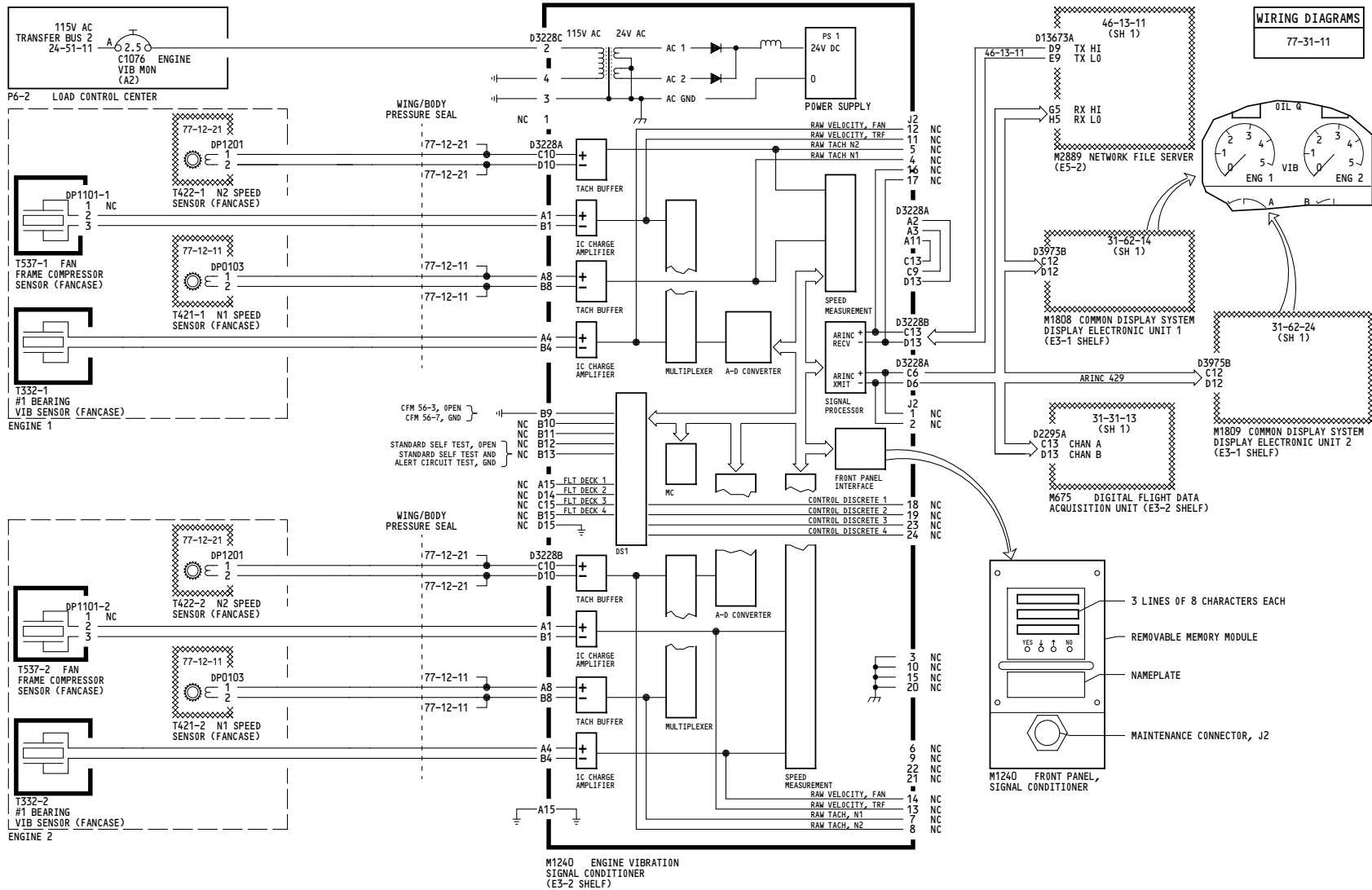
COMMON DISPLAY SYSTEM
RAY ELECTRONIC UNIT 2
(SHELF)

ERS EACH

ULE

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YT106-YT120

ENGINE VIBRATION MONITORING SYSTEM

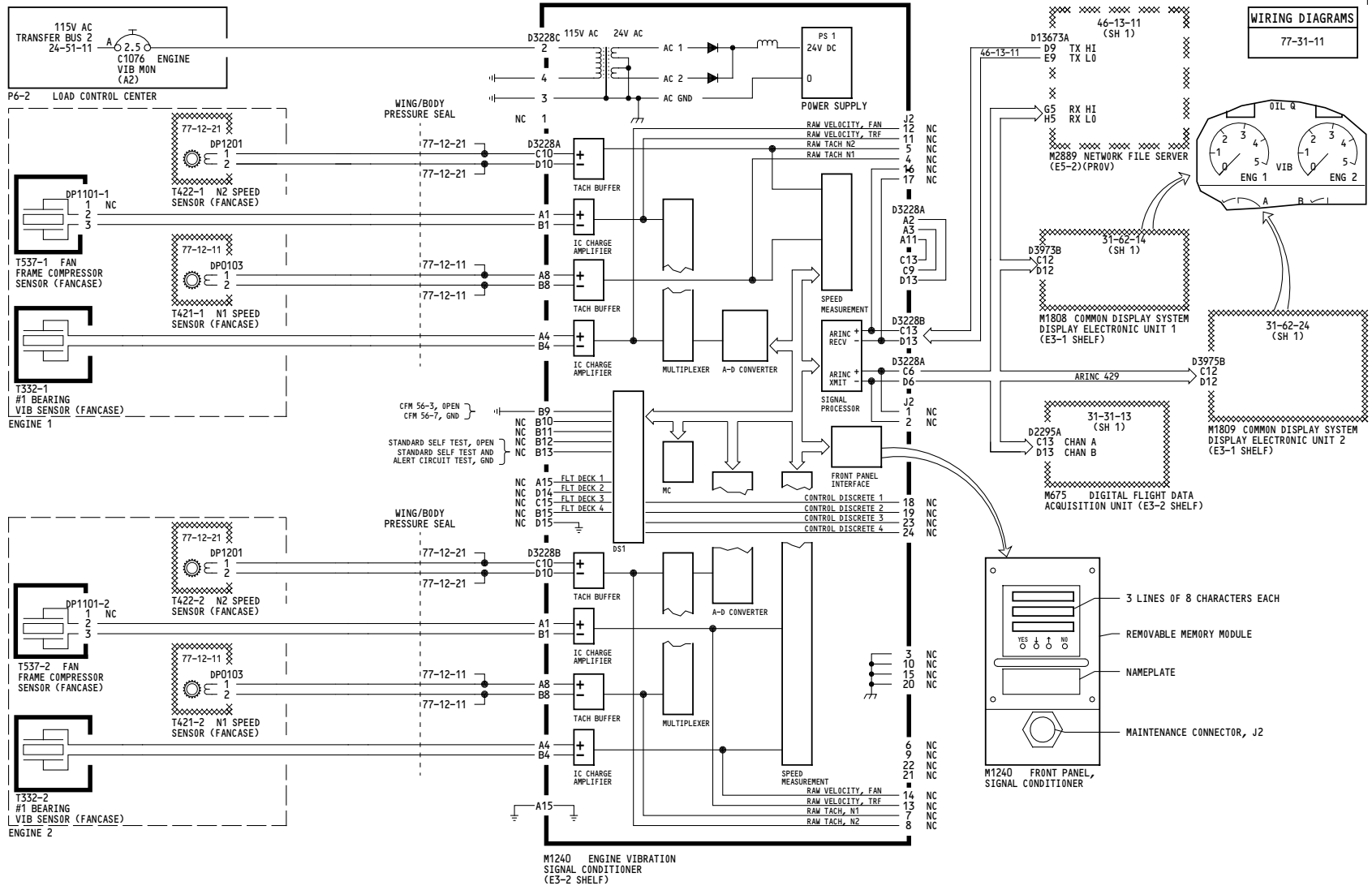
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ENGINE VIBRATION MONITORING SYSTEM

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