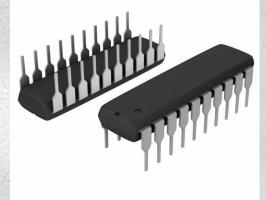


# **MC74AC540N Datasheet**

www.digi-electronics.com



Manufacturer Product Number

**DiGi Electronics Part Number** 

Description

Manufacturer

**Detailed Description** 

MC74AC540N-DG

onsemi

MC74AC540N

IC BUFF INVERT 6V 20DIP

Buffer, Inverting 1 Element 8 Bit per Element 3-Stat e Output 20-PDIP

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MC74AC540N	onsemi
Series:	Product Status:
74AC	Obsolete
Logic Type:	Number of Elements:
Buffer, Inverting	1
Number of Bits per Element:	Input Type:
8	
Output Type:	Current - Output High, Low:
3-State	24mA, 24mA
Voltage - Supply:	Operating Temperature:
2V ~ 6V	-40°C ~ 85°C (TA)
Mounting Type:	Package / Case:
Through Hole	20-DIP (0.300", 7.62mm)
Supplier Device Package:	Base Product Number:
20-PDIP	74AC540

# **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS non-compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

# onsemi

# **Octal Buffer/Line Driver** with 3-State Outputs

# MC74AC540, MC74ACT540, MC74AC541, MC74ACT541

The MC74AC540/74ACT540 and MC74AC541/74ACT541 are octal buffer/line drivers designed to be employed as memory and address drivers, clock drivers and bus oriented transmitter/receivers. The MC74AC541/74ACT541 is a noninverting option of the MC74AC540/74ACT540.

These devices are similar in function to the MC74AC240/74ACT240 and MC74AC244/74ACT244 while providing flow-through architecture (inputs on opposite side from outputs). This pinout arrangement makes these devices especially useful as output ports for microprocessors, allowing ease of layout and greater PC board density.

#### Features

- 3-State Outputs
- Inputs and Outputs Opposite Side of Package, Allowing Easier Interface to Microprocessors
- Outputs Source/Sink 24 mA
- MC74AC540/74ACT540 Provides Inverted Outputs
- MC74AC541/74ACT541 Provides Noninverted Outputs
- 'ACT540 and 'ACT541 Have TTL Compatible Inputs
- These are Pb–Free Devices

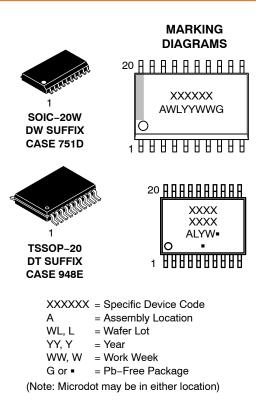
#### TRUTH TABLE

	Inputs	Out	outs	
OE <sub>1</sub>	$\overline{OE}_2$	D	<i>'</i> 540	<i>'</i> 541
L H X L	L X H L	H X X L	L Z Z H	H Z Z L

H = HIGH Voltage Level

L = LOW Voltage Level X = Immaterial

Z = High Impedance



#### **ORDERING INFORMATION**

See detailed ordering and shipping information in the package dimensions section on page 8 of this data sheet.

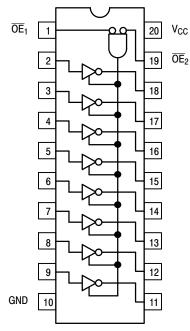


Figure 1. MC74AC540/74ACT540

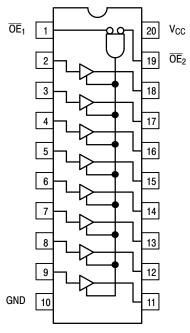


Figure 2. MC74AC541/74ACT541

#### MAXIMUM RATINGS

Symbol	Р	arameter	Value	Unit
V <sub>CC</sub>	DC Supply Voltage (Referenced to G	ND)	-0.5 to +6.5	V
V <sub>IN</sub>	DC Input Voltage (Referenced to GN	D)	–0.5 to V <sub>CC</sub> +0.5	V
V <sub>OUT</sub>	DC Output Voltage (Referenced to G	ND) (Note 1)	–0.5 to V <sub>CC</sub> +0.5	V
Ι <sub>ΙΚ</sub>	DC Input Diode Current		±20	mA
I <sub>OK</sub>	DC Output Diode Current		±50	mA
I <sub>OUT</sub>	DC Output Sink/Source Current		±50	mA
I <sub>CC</sub>	DC Supply Current, per Output Pin		±50	mA
I <sub>GND</sub>	DC Ground Current, per Output Pin		±100	mA
T <sub>STG</sub>	Storage Temperature Range		-65 to +150	°C
ΤL	Lead temperature, 1 mm from Case f	or 10 Seconds	260	°C
TJ	Junction Temperature Under Bias		140	°C
$\theta_{JA}$	Thermal Resistance (Note 2)	SOIC TSSOP	96 150	°C/W
MSL	Moisture Sensitivity		Level 1	
F <sub>R</sub>	Flammability Rating	Oxygen Index: 30% – 35%	UL 94 V-0 @ 0.125 in	
$V_{\text{ESD}}$	ESD Withstand Voltage	Human Body Model (Note 3) Charged Device Model (Note 4)	> 2000 > 1000	V
I <sub>Latchup</sub>	Latchup Performance	Above $V_{CC}$ and Below GND at 85°C (Note 5)	±100	mA

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. I<sub>OUT</sub> absolute maximum rating must be observed.

2. The package thermal impedance is calculated in accordance with JESD 51-7.

3. Tested to EIA/JESD22-A114-A.

4. Tested to JESD22-C101-A.

5. Tested to EIA/JESD78.

#### **RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter		Min	Тур	Max	Unit
V	Sumply Veltage	′AC	2.0	5.0	6.0	V
V <sub>CC</sub>	Supply Voltage	′ACT	4.5	5.0	5.5	v
V <sub>IN</sub> , V <sub>OUT</sub>	DC Input Voltage, Output Voltage (Ref. to GND)		0	-	V <sub>CC</sub>	V
		V <sub>CC</sub> @ 3.0 V	-	150	-	
t <sub>r</sub> , t <sub>f</sub>	Input Rise and Fall Time (Note 1) 'AC Devices except Schmitt Inputs	V <sub>CC</sub> @ 4.5 V	-	40	-	ns/V
		V <sub>CC</sub> @ 5.5 V	-	25	-	
	Input Rise and Fall Time (Note 2)	V <sub>CC</sub> @ 4.5 V	-	10	-	201
t <sub>r</sub> , t <sub>f</sub>	'ACT Devices except Schmitt Inputs	V <sub>CC</sub> @ 5.5 V	-	8.0	-	ns/V
T <sub>A</sub>	Operating Ambient Temperature Range		-40	25	85	°C
I <sub>OH</sub>	Output Current – High	-	-	-24	mA	
I <sub>OL</sub>	Output Current – Low		-	-	24	mA

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability. 1.  $V_{IN}$  from 30% to 70%  $V_{CC}$ ; see individual Data Sheets for devices that differ from the typical input rise and fall times. 2.  $V_{IN}$  from 0.8 V to 2.0 V; see individual Data Sheets for devices that differ from the typical input rise and fall times.

#### **DC CHARACTERISTICS**

			74AC		74AC		
		V <sub>cc</sub>	T <sub>A</sub> = -	⊦25°C	T <sub>A</sub> = −40°C to +85°C		
Symbol	Parameter	(V)	Тур	Gu	aranteed Limits	Unit	Conditions
V <sub>IH</sub>	Minimum High Level Input Voltage	3.0 4.5 5.5	1.5 2.25 2.75	2.1 3.15 3.85	2.1 3.15 3.85	V	$V_{OUT} = 0.1 V$ or V <sub>CC</sub> – 0.1 V
V <sub>IL</sub>	Maximum Low Level Input Voltage	3.0 4.5 5.5	1.5 2.25 2.75	0.9 1.35 1.65	0.9 1.35 1.65	V	$V_{OUT} = 0.1 V$ or V <sub>CC</sub> – 0.1 V
V <sub>OH</sub>	Minimum High Level Output Voltage	3.0 4.5 5.5	2.99 4.49 5.49	2.9 4.4 5.4	2.9 4.4 5.4	V	I <sub>OUT</sub> = -50 μA
		3.0 4.5 5.5	- - -	2.56 3.86 4.86	2.46 3.76 4.76	V	$\label{eq:VIN} \begin{array}{c} {}^{*}V_{IN} = V_{IL} \text{ or } V_{IH} \\ -12 \text{ mA} \\ I_{OH} -24 \text{ mA} \\ -24 \text{ mA} \end{array}$
V <sub>OL</sub>	Maximum Low Level Output Voltage	3.0 4.5 5.5	0.002 0.001 0.001	0.1 0.1 0.1	0.1 0.1 0.1	V	I <sub>OUT</sub> = 50 μA
		3.0 4.5 5.5		0.36 0.36 0.36	0.44 0.44 0.44	V	$V_{IN} = V_{IL} \text{ or } V_{IH}$ $12 \text{ mA}$ $I_{OL} \qquad 24 \text{ mA}$ $24 \text{ mA}$
I <sub>IN</sub>	Maximum Input Leakage Current	5.5	-	±0.1	±1.0	μA	$V_{I} = V_{CC}, \text{ GND}$
I <sub>OZ</sub>	Maximum 3-State Current	5.5	-	±0.5	±5.0	μΑ	$V_{I} (OE) = V_{IL}, V_{IH}$ $V_{I} = V_{CC}, GND$ $V_{O} = V_{CC}, GND$
I <sub>OLD</sub>	†Minimum Dynamic	5.5	-	-	75	mA	V <sub>OLD</sub> = 1.65 V Max
I <sub>OHD</sub>	Output Current	5.5	-	-	-75	mA	V <sub>OHD</sub> = 3.85 V Min
I <sub>CC</sub>	Maximum Quiescent Supply Current	5.5	-	8.0	80	μA	V <sub>IN</sub> = V <sub>CC</sub> or GND

\*All outputs loaded; thresholds on input associated with output under test.

†Maximum test duration 2.0 ms, one output loaded at a time.

NOTE:  $I_{IN}$  and  $I_{CC}$  @ 3.0 V are guaranteed to be less than or equal to the respective limit @ 5.5 V V<sub>CC</sub>.

				74AC		74	AC		
		V <sub>cc</sub> *	T <sub>A</sub> = +25°C C <sub>L</sub> = 50 pF		$T_{A} = -40^{\circ}C \text{ to } +85^{\circ}C$ $C_{L} = 50 \text{ pF}$			Fig	
Symbol	Parameter	(V)	Min	Тур	Max	Min	Max	Unit	No.
t <sub>PLH</sub>	Propagation Delay Data to Output ('AC540)	3.3 5.0	1.5 1.5	5.5 4.0	7.5 6.0	1.0 1.0	8.0 6.5	ns	3–5
t <sub>PHL</sub>	Propagation Delay Data to Output ('AC540)	3.3 5.0	1.5 1.5	5.0 4.0	7.0 5.5	1.0 1.0	7.5 6.0	ns	3–8
t <sub>PZH</sub>	Output Enable Time ('AC540)	3.3 5.0	3.0 2.0	8.5 6.5	11 8.5	2.5 2.0	12 9.5	ns	3–3
t <sub>PZL</sub>	Output Enable Time ('AC540)	3.3 5.0	2.5 2.0	7.5 6.0	10 7.5	2.0 1.5	11 8.5	ns	3–
t <sub>PHZ</sub>	Output Disable Time ('AC540)	3.3 5.0	2.5 1.5	8.5 7.5	13 10.5	1.5 1.0	14 11	ns	3–
t <sub>PLZ</sub>	Output Disable Time ('AC540)	3.3 5.0	2.0 1.5	7.0 6.0	10 8.0	2.0 1.5	11 9.0	ns	3–
t <sub>PLH</sub>	Propagation Delay Data to Output ('AC541)	3.3 5.0	2.0 1.5	5.5 4.0	8.0 6.0	1.5 1.0	9.0 6.5	ns	3–
t <sub>PHL</sub>	Propagation Delay Data to Output ('AC541)	3.3 5.0	2.0 1.5	5.5 4.0	8.0 6.0	1.5 1.0	8.5 6.5	ns	3-4
t <sub>PZH</sub>	Output Enable Time ('AC541)	3.3 5.0	3.0 2.0	8.0 6.0	11.5 8.5	3.0 1.5	12.5 9.5	ns	3-
t <sub>PZL</sub>	Output Enable Time (′AC541)	3.3 5.0	2.5 1.5	7.0 5.5	10 7.5	2.5 1.0	11.5 8.5	ns	3–
t <sub>PHZ</sub>	Output Disable Time ('AC541)	3.3 5.0	3.5 2.0	9.0 7.0	12.5 9.5	2.5 1.0	14 10.5	ns	3–
t <sub>PLZ</sub>	Output Disable Time ('AC541)	3.3 5.0	2.5 2.0	6.5 5.5	9.5 7.5	2.0 1.0	10.5 8.5	ns	3–

AC CHARACTERISTICS (For Figures and Waveforms - See AND8277/D at www.onsemi.com)

\*Voltage Range 3.3 V is 3.3 V ±0.3 V. Voltage Range 5.0 V is 5.0 V ±0.5 V.

#### DC CHARACTERISTICS

			74 <b>/</b>	СТ	74ACT		
		V <sub>CC</sub> T <sub>A</sub> = +25°		⊦25°C	T <sub>A</sub> = −40°C to +85°C		
Symbol	Parameter	(V)	Тур	Gu	aranteed Limits	Unit	Conditions
V <sub>IH</sub>	Minimum High Level Input Voltage	4.5 5.5	1.5 1.5	2.0 2.0	2.0 2.0	V	$V_{OUT} = 0.1 V$ or $V_{CC} - 0.1 V$
V <sub>IL</sub>	Maximum Low Level Input Voltage	4.5 5.5	1.5 1.5	0.8 0.8	0.8 0.8	V	V <sub>OUT</sub> = 0.1 V or V <sub>CC</sub> – 0.1 V
V <sub>OH</sub>	Minimum High Level Output Voltage	4.5 5.5	4.49 5.49	4.4 5.4	4.4 5.4	V	I <sub>OUT</sub> = -50 μA
		4.5 5.5	- -	3.86 4.86	3.76 4.76	V	$V_{IN} = V_{IL} \text{ or } V_{IH}$ $I_{OH} -24 \text{ mA}$ $-24 \text{ mA}$
V <sub>OL</sub>	Maximum Low Level Output Voltage	4.5 5.5	0.001 0.001	0.1 0.1	0.1 0.1	V	I <sub>OUT</sub> = 50 μA
		4.5 5.5	- -	0.36 0.36	0.44 0.44	V	$*V_{IN} = V_{IL} \text{ or } V_{IH}$ 24 mA $I_{OL}$ 24 mA
I <sub>IN</sub>	Maximum Input Leakage Current	5.5	-	±0.1	±1.0	μA	V <sub>I</sub> = V <sub>CC</sub> , GND
$\Delta I_{\text{CCT}}$	Additional Max. I <sub>CC</sub> /Input	5.5	0.6	-	1.5	mA	$V_{I} = V_{CC} - 2.1 V$
I <sub>OZ</sub>	Maximum 3-State Current	5.5	_	±0.5	±5.0	μΑ	$V_{I} (OE) = V_{IL}, V_{IH}$ $V_{I} = V_{CC}, GND$ $V_{O} = V_{CC}, GND$
I <sub>OLD</sub>	†Minimum Dynamic	5.5	-	-	75	mA	V <sub>OLD</sub> = 1.65 V Max
I <sub>OHD</sub>	Output Current	5.5	-	-	-75	mA	V <sub>OHD</sub> = 3.85 V Min
I <sub>CC</sub>	Maximum Quiescent Supply Current	5.5	-	8.0	80	μΑ	V <sub>IN</sub> = V <sub>CC</sub> or GND

\*All outputs loaded; thresholds on input associated with output under test. †Maximum test duration 2.0 ms, one output loaded at a time.

				74ACT		74 <b>A</b>	CT		
Symbol	Parameter	V <sub>CC</sub> * (V)		T <sub>A</sub> = +25°C C <sub>L</sub> = 50 pF		T <sub>A</sub> = -40°C C <sub>L</sub> = 5		Unit	Fig. No.
			Min	Тур	Max	Min	Max		
t <sub>PLH</sub>	Propagation Delay Data to Output ('ACT540)	5.0	1.0	-	7.0	1.0	7.5	ns	3–5
t <sub>PHL</sub>	Propagation Delay Data to Output ('ACT540)	5.0	1.0	-	8.0	1.0	8.5	ns	3–5
t <sub>PZH</sub>	Output Enable Time ('ACT540)	5.0	1.0	-	10.5	1.0	11.5	ns	3–7
t <sub>PZL</sub>	Output Enable Time ('ACT540)	5.0	1.0	-	9.5	1.0	10.5	ns	3–8
t <sub>PHZ</sub>	Output Disable Time ('ACT540)	5.0	1.0	-	12.0	1.0	12.5	ns	3–7
t <sub>PLZ</sub>	Output Disable Time ('ACT540)	5.0	1.5	-	9.0	1.0	10	ns	3–8
t <sub>PLH</sub>	Propagation Delay Data to Output ('ACT541)	5.0	1.5	-	7.5	1.0	8.0	ns	3–5
t <sub>PHL</sub>	Propagation Delay Data to Output ('ACT541)	5.0	1.5	-	7.5	1.0	8.0	ns	3–5
t <sub>PZH</sub>	Output Enable Time ('ACT541)	5.0	2.0	_	10.0	1.0	11.0	ns	3–7
t <sub>PZL</sub>	Output Enable Time ('ACT541)	5.0	1.5	_	9.5	1.0	10.5	ns	3–8
t <sub>PHZ</sub>	Output Disable Time ('ACT541)	5.0	2.0	-	11.0	1.0	12.0	ns	3–7
t <sub>PLZ</sub>	Output Disable Time ('ACT541)	5.0	2.0	-	9.0	1.0	10	ns	3–8

AC CHARACTERISTICS (For Figures and Waveforms - See AND8277/D at www.onsemi.com)

\*Voltage Range 5.0 V is 5.0 V  $\pm$ 0.5 V.

#### CAPACITANCE

Symbol	Parameter	Value Typ	Unit	Test Conditions
C <sub>IN</sub>	Input Capacitance	4.5	pF	V <sub>CC</sub> = 5.0 V
C <sub>PD</sub>	Power Dissipation Capacitance	30	pF	V <sub>CC</sub> = 5.0 V

#### **ORDERING INFORMATION**

Device	Marking	Package	Shipping <sup>†</sup>
MC74AC540DWG	AC540	SOIC-20	38 Units / Rail
MC74AC540DWR2G	AC540	SOIC-20	1000 / Tape & Reel
MC74ACT540DWG	ACT540	SOIC-20	38 Units / Rail
MC74ACT540DWR2G	ACT540	SOIC-20	1000 / Tape & Reel
MC74ACT540DTR2G	ACT 540	TSSOP-20	2500 / Tape & Reel
MC74AC541DWG	AC541	SOIC-20	38 Units / Rail
MC74AC541DWR2G	AC541	SOIC-20	1000 / Tape & Reel
MC74ACT541DWG	ACT541	SOIC-20	38 Units / Rail
MC74ACT541DWR2G	ACT541	SOIC-20	1000 / Tape & Reel
MC74ACT541DWR2G-Q*	ACT541	SOIC-20	1000 / Tape & Reel
MC74AC541DTR2G	AC 541	TSSOP-20	2500 / Tape & Reel
MC74ACT541DTG	ACT 541	TSSOP-20	75 Units / Rail
MC74ACT541DTR2G	ACT 541	TSSOP-20	2500 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging

Specifications Brochure, BRD8011/D. \*-Q Suffix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.



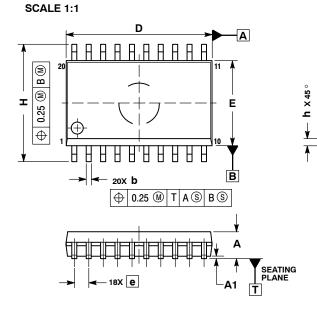
## **MECHANICAL CASE OUTLINE**

PACKAGE DIMENSIONS

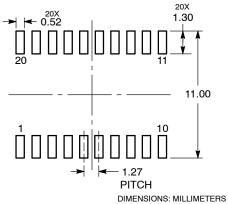


SOIC-20 WB CASE 751D-05 **ISSUE H** 

DATE 22 APR 2015



RECOMMENDED SOLDERING FOOTPRINT\*



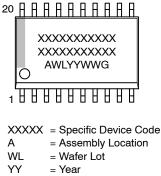
\*For additional information on our Pb-Free strategy and soldering details, please download the onsemi Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

NOTES:

- 1. DIMENSIONS ARE IN MILLIMETERS. 2. INTERPRET DIMENSIONS AND TOLERANCES
- PER ASME Y14.5M, 1994. 3. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSION. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
- 4. DIMENSION B DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION 5. SHALL BE 0.13 TOTAL IN EXCESS OF B DIMENSION AT MAXIMUM MATERIAL CONDITION.

	MILLIMETERS					
DIM	MIN	MAX				
Α	2.35	2.65				
A1	0.10	0.25				
b	0.35	0.49				
C	0.23	0.32				
D	12.65	12.95				
E	7.40	7.60				
е	1.27	BSC				
н	10.05	10.55				
h	0.25	0.75				
L	0.50	0.90				
θ	0 °	7 °				

GENERIC **MARKING DIAGRAM\*** 



ww = Work Week

G

= Pb-Free Package

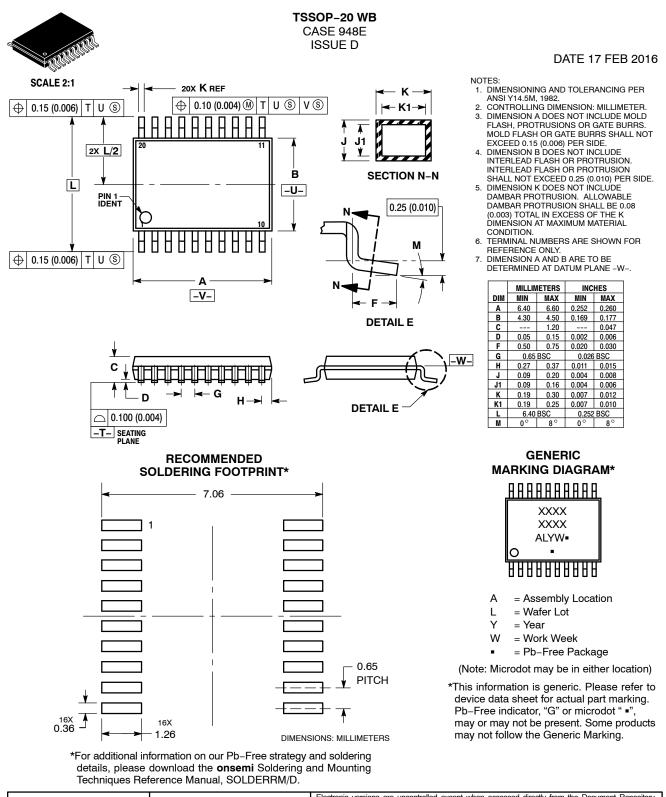
\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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# **MECHANICAL CASE OUTLINE**





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