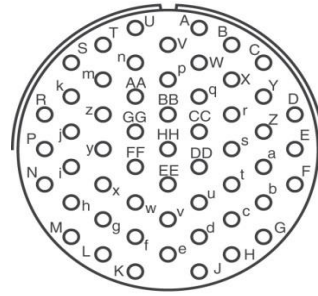


# TA2 LS3 Engine Harness

PN# 36-3824

\*\*\*Viewed from REAR of Connector\*\*

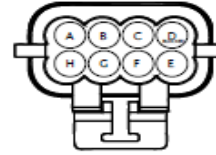


<b>C1</b>	MS3476-22-55P
	LABEL: MAIN IDENT

AWG	From	Pin	Function	Destination	Pin2	Description
20	C1	A	INJ 1	C11	B	INJ 1
20	C1	B	INJ 2	C10	B	INJ 2
20	C1	C	INJ 3	C9	B	INJ 3
20	C1	D	INJ 4	C8	B	INJ 4
20	C1	E	INJ 5	C7	B	INJ 5
20	C1	F	INJ 6	C6	B	INJ 6
20	C1	G	INJ 7	C5	B	INJ 7
20	C1	H	INJ 8	C4	B	INJ 8
22	C1	J	COIL 1	C3	G	COIL 1
22	C1	K	COIL 2	C2	B	COIL 2
22	C1	L	COIL 3	C3	F	COIL 3
22	C1	M	COIL 4	C2	C	COIL 4
22	C1	N	COIL 5	C3	C	COIL 5
22	C1	P	COIL 6	C2	F	COIL 6
22	C1	R	COIL 7	C3	B	COIL 7
22	C1	S	COIL 8	C2	G	COIL 8
22	C1	X	CRANK HALL	C13	A	CRANK
22	C1	Y	CAM HALL	C12	C	CAM
22	C1	Z	COOLANT TEMP	C17	B	COOLANT TEMP
22	C1	a	INTAKE AIR TEMP	C18	B	INTAKE AIR TEMP
22	C1	b	OIL TEMP	C24	2	OIL TEMP
22	C1	c	THROTTLE POSITION	C16	C	THROTTLE POSITION
22	C1	d	MANIFOLD PRESSURE	C21	B	MANIFOLD PRESSURE
22	C1	e	FUEL PRESSURE	C20	C	FUEL PRESSURE
22	C1	f	OIL PRESSURE	C19	C	OIL PRESSURE
22	C1	g	CRANKCASE PRESSURE	C23	C	CRANKCASE PRESSURE
22	C1	h	COOLANT PRESSURE	C22	C	COOLANT PRESSURE
22	C1	i	STEPPER 1A	C14	D	IDLE
22	C1	j	STEPPER 2A	C14	B	IDLE
22	C1	k	STEPPER 1B	C14	C	IDLE
22	C1	m	STEPPER 2B	C14	A	IDLE
18	C1	n	UEGO HEAT	C15	4	UEGO
20	C1	p	UEGO IA	C15	2	UEGO
20	C1	q	UEGO IP	C15	6	UEGO
20	C1	r	UEGO UN	C15	1	UEGO
20	C1	s	UEGO VM	C15	5	UEGO
22	C1	x	SHIELD PASS THRU	SP7	R	SHIELD TERMINATION
22	C1	y	VREF +5V BANK 1	SP5	R	VREF +5V BANK 1
22	C1	z	VREF +5V BANK 2	SP6	R	VREF +5V BANK 2
22	C1	AA	SENSOR GROUND BANK 1	SP2	R	SENSOR GROUND BANK 1
22	C1	BB	SENSOR GROUND BANK 2	SP1	R	SENSOR GROUND BANK 2
18	C1	CC	VBATT +12V BANK 1	SP4	R	VBATT +12V BANK 1
18	C1	DD	VBATT +12V BANK 2	SP3	R	VBATT +12V BANK 2

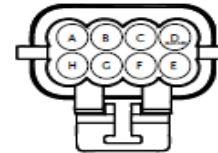
18	C1	EE	UEGO +12V	C15	3	UEGO
18	C1	FF	GROUND	R1	PIN1	GROUND
18	C1	GG	GROUND	R1	PIN1	GROUND
18	C1	HH	GROUND	R1	PIN1	GROUND

<b>C2</b>	12047938
	LABEL: COIL BANK 2



AWG	From	Pin	Function	Destination	Pin2	Description
18	C2	A	GROUND	R2	PIN1	GROUND
22	C2	B	COIL 2	C1	K	FIREWALL
22	C2	C	COIL 4	C1	M	FIREWALL
22	C2	E	SENSOR GROUND	SP1	L	SENSOR GROUND
22	C2	F	COIL 6	C1	P	FIREWALL
22	C2	G	COIL 8	C1	S	FIREWALL
18	C2	H	VBATT +12V	SP3	L	VBATT +12V

<b>C3</b>	12047938
	LABEL: COIL BANK 1



AWG	From	Pin	Function	Destination	Pin2	Description
18	C3	A	GROUND	R3	PIN1	GROUND
22	C3	B	COIL 7	C1	R	FIREWALL
22	C3	C	COIL 5	C1	N	FIREWALL
22	C3	E	SENSOR GROUND	SP2	L	SENSOR GROUND
22	C3	F	COIL 3	C1	L	FIREWALL
22	C3	G	COIL 1	C1	J	FIREWALL
18	C3	H	VBATT +12V	SP4	L	VBATT +12V

<b>C4</b>	13614626
	LABEL: INJ 8



AWG	From	Pin	Function	Destination	Pin2	Description
20	C4	A	VBATT +12V	SP3	L	VBATT +12V
20	C4	B	INJ 8	C1	H	FIREWALL

<b>C5</b>	13614626
	LABEL: INJ 7



AWG	From	Pin	Function	Destination	Pin2	Description
20	C5	A	VBATT +12V	SP4	L	VBATT +12V
20	C5	B	INJ 7	C1	G	FIREWALL

<b>C6</b>	13614626
	LABEL: INJ 6



AWG	From	Pin	Function	Destination	Pin2	Description
20	C6	A	VBATT +12V	SP3	L	VBATT +12V
20	C6	B	INJ 6	C1	F	FIREWALL

<b>C7</b>	13614626
	LABEL: INJ 5



AWG	From	Pin	Function	Destination	Pin2	Description
20	C7	A	VBATT +12V	SP4	L	VBATT +12V
20	C7	B	INJ 5	C1	E	FIREWALL

<b>C8</b>	13614626
	LABEL: INJ 4



AWG	From	Pin	Function	Destination	Pin2	Description
20	C8	A	VBATT +12V	SP3	L	VBATT +12V
20	C8	B	INJ 4	C1	D	FIREWALL

<b>C9</b>	13614626
	LABEL: INJ 3



AWG	From	Pin	Function	Destination	Pin2	Description
20	C9	A	VBATT +12V	SP4	L	VBATT +12V
20	C9	B	INJ 3	C1	C	FIREWALL

<b>C10</b>	13614626
	LABEL: INJ 2



AWG	From	Pin	Function	Destination	Pin2	Description
20	C10	A	VBATT +12V	SP3	L	VBATT +12V
20	C10	B	INJ 2	C1	B	FIREWALL

<b>C11</b>	13614626
	LABEL: INJ 1



AWG	From	Pin	Function	Destination	Pin2	Description
20	C11	A	VBATT +12V	SP4	L	VBATT +12V
20	C11	B	INJ 1	C1	A	FIREWALL

<b>C12</b>	12059595
	LABEL: CAM



AWG	From	Pin	Function	Destination	Pin2	Description
22	C12	A	VREF +5V	SP5	L	VREF +5V
22	C12	B	SENSOR GROUND	SP2	L	SENSOR GROUND
22	C12	C	CAM	C1	Y	FIREWALL

<b>C13</b>	12129946
	LABEL: CRANK



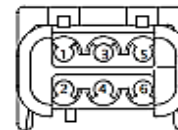
AWG	From	Pin	Function	Destination	Pin2	Description
22	C13	A	CRANK	C1	X	FIREWALL
22	C13	B	SENSOR GROUND	SP1	L	SENSOR GROUND
22	C13	C	VREF +5V	SP5	L	VREF +5V

<b>C14</b>	12162190
	LABEL: IDLE



AWG	From	Pin	Function	Destination	Pin2	Description
22	C14	A	STEPPER 2B	C1	m	FIREWALL
22	C14	B	STEPPER 2A	C1	j	FIREWALL
22	C14	C	STEPPER 1B	C1	k	FIREWALL
22	C14	D	STEPPER 1A	C1	i	FIREWALL

<b>C15</b>	0-1475104-1
	LABEL: UEGO



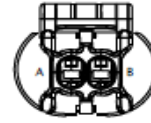
AWG	From	Pin	Function	Destination	Pin2	Description
20	C15	1	UEGO UN	C1	r	FIREWALL
20	C15	2	UEGO IA	C1	p	FIREWALL
18	C15	3	UEGO +12V	C1	EE	FIREWALL
18	C15	4	UEGO HEAT	C1	n	FIREWALL
20	C15	5	UEGO VM	C1	s	FIREWALL
20	C15	6	UEGO IP	C1	q	FIREWALL

<b>C16</b>	12065287
	LABEL: TPS



AWG	From	Pin	Function	Destination	Pin2	Description
22	C16	A	VREF +5V	SP5	L	VREF +5V
22	C16	B	SENSOR GROUND	SP1	L	SENSOR GROUND
22	C16	C	THROTTLE POSITION	C1	c	FIREWALL

<b>C17</b>	15449028
	LABEL: CLT TEMP



AWG	From	Pin	Function	Destination	Pin2	Description
22	C17	A	SENSOR GROUND	SP1	L	SENSOR GROUND
22	C17	B	COOLANT TEMP	C1	Z	FIREWALL

<b>C18</b>	12162199
	LABEL: IAT



AWG	From	Pin	Function	Destination	Pin2	Description
22	C18	A	SENSOR GROUND	SP1	L	SENSOR GROUND
22	C18	B	INTAKE AIR TEMP	C1	a	FIREWALL

<b>C19</b>	12065287
	LABEL: OIL PRESS



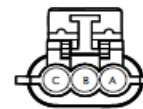
AWG	From	Pin	Function	Destination	Pin2	Description
22	C19	A	SENSOR GROUND	SP2	L	SENSOR GROUND
22	C19	B	VREF +5V	SP5	L	VREF +5V
22	C19	C	OIL PRESSURE	C1	f	FIREWALL

<b>C20</b>	12065287
	LABEL: FUEL PRESS



AWG	From	Pin	Function	Destination	Pin2	Description
22	C20	A	SENSOR GROUND	SP2	L	SENSOR GROUND
22	C20	B	VREF +5V	SP6	L	VREF +5V
22	C20	C	FUEL PRESSURE	C1	e	FIREWALL

<b>C21</b>	12129946
	LABEL: MAP



AWG	From	Pin	Function	Destination	Pin2	Description
22	C21	A	SENSOR GROUND	SP2	L	SENSOR GROUND
22	C21	B	MANIFOLD PRESSURE	C1	d	FIREWALL
22	C21	C	VREF +5V	SP6	L	VREF +5V

<b>C22</b>	12065287
	LABEL: CLT PRESS



AWG	From	Pin	Function	Destination	Pin2	Description
22	C22	A	SENSOR GROUND	SP2	L	SENSOR GROUND
22	C22	B	VREF +5V	SP6	L	VREF +5V
22	C22	C	COOLANT PRESSURE	C1	h	FIREWALL

<b>C23</b>	12065287
	LABEL: CASE PRESS



AWG	From	Pin	Function	Destination	Pin2	Description
22	C23	A	SENSOR GROUND	SP2	L	SENSOR GROUND
22	C23	B	VREF +5V	SP6	L	VREF +5V
22	C23	C	CRANKCASE PRESSURE	C1	g	FIREWALL

<b>C24</b>	DTM06-2S
	LABEL: EOT/GBT



AWG	From	Pin	Function	Destination	Pin2	Description
22	C24	1	SENSOR GROUND	SP1	L	SENSOR GROUND
22	C24	2	EOT/GBT	C1	b	FIREWALL

<b>R1</b>	Ring Terminal
	LABEL: GND



AWG	From	Pin	Function	Destination	Pin2	Description
18	R1	1	GROUND	C1	HH	FIREWALL
18	R1	1	GROUND	C1	GG	FIREWALL
18	R1	1	GROUND	C1	FF	FIREWALL

<b>R2</b>	Ring Terminal
	LABEL: GND



AWG	From	Pin	Function	Destination	Pin2	Description
18	R2	1	GROUND	C2	A	COIL BANK 2

<b>R3</b>	Ring Terminal
	LABEL: GND



AWG	From	Pin	Function	Destination	Pin2	Description
18	R3	1	GROUND	C3	A	COIL BANK 1

<b>SP1</b>	Splice 1
	SENSOR GROUND BANK 2



AWG	From	Pin	Function	Destination	Pin2	Description
22	SP1	L	SENSOR GROUND BANK 2	C2	E	COIL BANK 2
22	SP1	L	SENSOR GROUND BANK 2	C13	B	CRANK
22	SP1	L	SENSOR GROUND BANK 2	C16	B	THROTTLE POSITION
22	SP1	L	SENSOR GROUND BANK 2	C17	A	COOLANT TEMP
22	SP1	L	SENSOR GROUND BANK 2	C18	A	INTAKE AIR TEMP
22	SP1	L	SENSOR GROUND BANK 2	C24	1	EOT/GBT
22	SP1	R	SENSOR GROUND BANK 2	C1	BB	FIREWALL

<b>SP2</b>	Splice 2
	SENSOR GROUND BANK 1



AWG	From	Pin	Function	Destination	Pin2	Description
22	SP2	L	SENSOR GROUND BANK 1	C3	E	COL BANK 1
22	SP2	L	SENSOR GROUND BANK 1	C12	B	CAM
22	SP2	L	SENSOR GROUND BANK 1	C19	A	OIL PRESSURE
22	SP2	L	SENSOR GROUND BANK 1	C20	A	FUEL PRESSURE
22	SP2	L	SENSOR GROUND BANK 1	C21	A	MANIFOLD PRESSURE
22	SP2	L	SENSOR GROUND BANK 1	C22	A	COOLANT PRESSURE
22	SP2	R	SENSOR GROUND BANK 1	C1	AA	FIREWALL
22	SP2	R	SENSOR GROUND BANK 1	C23	A	CRANKCASE PRESSURE

<b>SP3</b>	Splice 3
	VBATT +12V BANK 2



AWG	From	Pin	Function	Destination	Pin2	Description
20	SP3	L	VBATT +12V BANK 2	C8	A	INJ 4
20	SP3	L	VBATT +12V BANK 2	C10	A	INJ 2
18	SP3	L	VBATT +12V BANK 2	C2	H	COIL BANK 2
20	SP3	L	VBATT +12V BANK 2	C4	A	INJ 8
20	SP3	L	VBATT +12V BANK 2	C6	A	INJ 6
18	SP3	R	VBATT +12V BANK 2	C1	DD	FIREWALL

<b>SP4</b>	Splice 4
	VBATT +12V BANK 1



AWG	From	Pin	Function	Destination	Pin2	Description
20	SP4	L	VBATT +12V BANK 1	C11	A	INJ 1
20	SP4	L	VBATT +12V BANK 1	C9	A	INJ 3
20	SP4	L	VBATT +12V BANK 1	C7	A	INJ 5
20	SP4	L	VBATT +12V BANK 1	C5	A	INJ 7
18	SP4	L	VBATT +12V BANK 1	C3	H	COIL BANK 1
18	SP4	R	VBATT +12V BANK 1	C1	CC	FIREWALL

<b>SP5</b>	Splice 5
	VREF +5V BANK 1



AWG	From	Pin	Function	Destination	Pin2	Description
22	SP5	L	VREF +5V BANK 1	C19	B	OIL PRESSURE
22	SP5	L	VREF +5V BANK 1	C16	A	THROTTLE POSITION
22	SP5	L	VREF +5V BANK 1	C13	C	CRANK
22	SP5	L	VREF +5V BANK 1	C12	A	CAM
22	SP5	R	VREF +5V BANK 1	C1	y	FIREWALL

<b>SP6</b>	Splice 6
	VREF +5V BANK 2



AWG	From	Pin	Function	Destination	Pin2	Description
22	SP6	L	VREF +5V BANK 2	C22	B	COOLANT PRESSURE
22	SP6	L	VREF +5V BANK 2	C21	C	MANIFOLD PRESSURE
22	SP6	L	VREF +5V BANK 2	C20	B	FUEL PRESSURE
22	SP6	R	VREF +5V BANK 2	C1	z	FIREWALL
22	SP6	R	VREF +5V BANK 2	C23	B	CRANKCASE PRESSURE

<b>SP7</b>	Splice 7
	SHIELD TERMINATION



AWG	From	Pin	Function	Destination	Pin2	Description
22	SP7	L	SHIELD TERMINATION	CAM SHIELD	x	CAM SHIELD
22	SP7	L	SHIELD TERMINATION	CRANK SHIELD	x	CRANK SHIELD
22	SP7	R	SHIELD TERMINATION	C1	x	FIREWALL