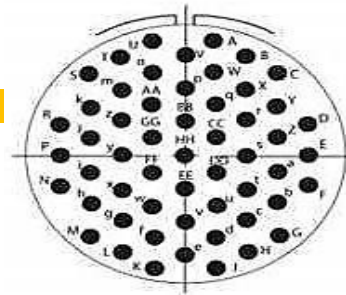


TA2 LS3 Engine Harness

PN# 36-3824

***Viewed from REAR of Connector**



C1	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

C2	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

C3	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

C4	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

C5	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

C6	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

C7	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

C8	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

C9	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

C10	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

C11	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

C12	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

C13	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

C14	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

C15	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

C16	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

C17	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

C18	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

C19	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

C20	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

C21	12129946
	LABEL: MAP

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

C22	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

C23	12065287
	LABEL: CASE 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	CRANKCASE PRESSURE	C1	g	FIREWALL

C24	DTM06-2S
	LABEL: EOT/GBT

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

R1	
	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

R2	
	LABEL: GND

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

R3	
	LABEL: GND

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

SP1	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

SP2	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

SP3	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

SP4	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

SP5	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

SP6	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

SP7	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