NISSAN SILVIA/180SX CA18DET CRANK TRIGGER WIRING DIAGRAM
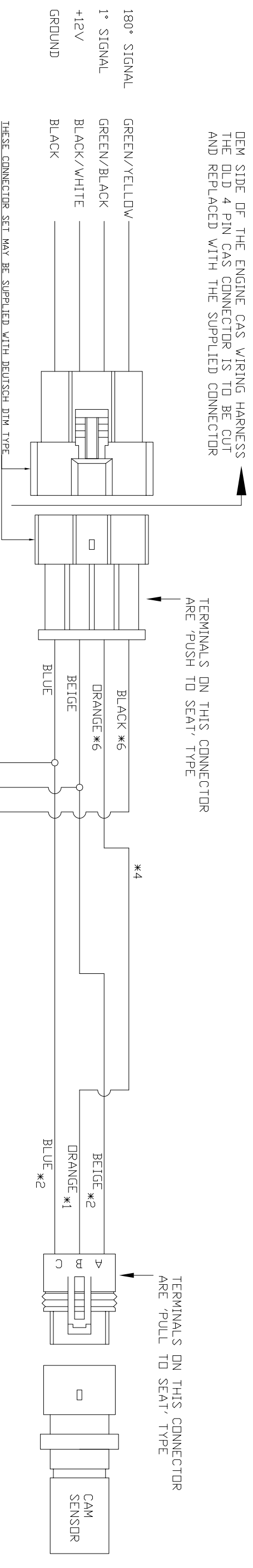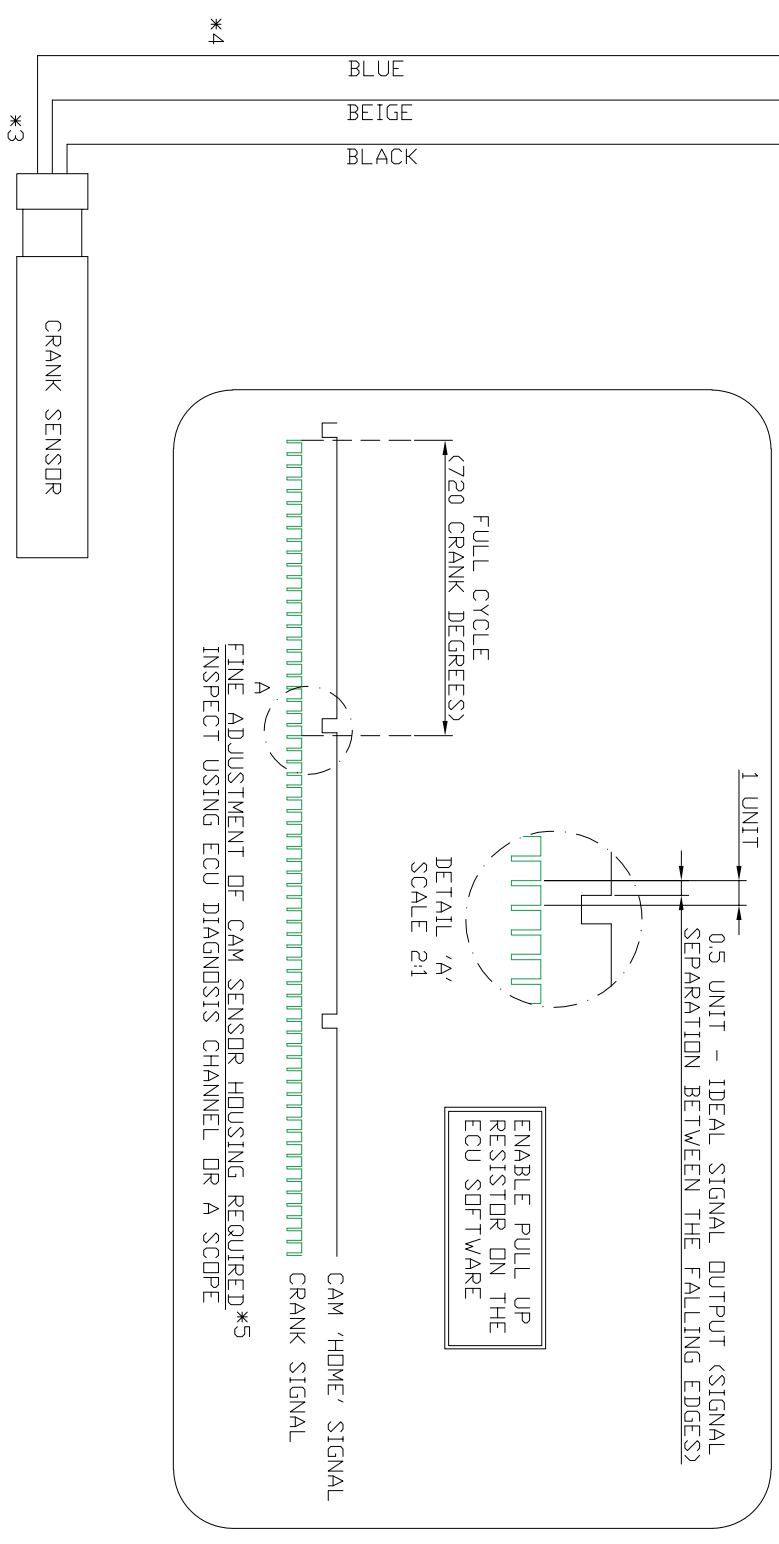
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ACCURATE FOR HALTECH ELITE ECUS WITH PLUG & PLAY ADAPTER

OEM SIDE OF THE ENGINE CAS WIRING HARNESS
THE OLD 4 PIN CAS CONNECTOR IS TO BE CUT
AND REPLACED WITH THE SUPPLIED CONNECTOR

180° SIGNAL	GREEN/YELLOW		
1° SIGNAL	GREEN/BLACK		
+12V	BLACK/WHITE		
GROUND	BLACK		

THESE CONNECTOR SET MAY BE SUPPLIED WITH DEUTSCH DTM TYPE

WIRE COLOR OEM CA CAS CONNECTOR

FUNCTION	COLOR @ CONNECTOR	COLOR @ ECU
180° SIGNAL	GREEN/YELLOW	GREEN/YELLOW
1° SIGNAL	GREEN/BLACK	GREEN/BLACK
+12V	BLACK/WHITE	-
GROUND	BLACK	-

TRIGGER SENSORS WIRING COLOR

FUNCTION	CRANK SENSOR	CAM SENSOR
CRANK SIGNAL	BLACK	-
CAM SIGNAL	-	ORANGE
+12V	BEIGE	BEIGE
GROUND	BLUE	BLUE

TERMINALS ON THIS CONNECTOR
ARE 'PUSH TO SEAT' TYPE

BLUE
BEIGE
BLACK *6
ORANGE *6

BLUE
BEIGE
BLACK

*4
*3

CRANK SENSOR

*4

BLUE *2
ORANGE *2
BEIGE *2
BEIGE *1

TERMINALS ON THIS CONNECTOR
ARE 'PULL TO SEAT' TYPE

C
B
A

1 UNIT

0.5 UNIT - IDEAL SIGNAL OUTPUT (SIGNAL
SEPARATION BETWEEN THE FALLING EDGES)

DETAIL 'A'
SCALE 2:1

FULL CYCLE
(720 CRANK DEGREES)

A

FINE ADJUSTMENT OF CAM SENSOR HOUSING REQUIRED *5
INSPECT USING ECU DIAGNOSIS CHANNEL OR A SCOPE

CAM 'HOME' SIGNAL
CRANK SIGNAL

ENABLE PULL UP
RESISTOR ON THE
ECU SOFTWARE

CAM
SENSOR

NOTES:

*1 - RECOMMENDED COLOR OF 22AWG WIRE

*2 - UTILIZE UNUSED LENGTH OF WIRE FROM THE CRANK 'PINK' SENSOR

*3 - 90 DEGREE BOOT IS RECOMMENDED

*4 - CABLE SHEATHING (RAYCHEM DR25 OR EQUIVALENT) IS RECOMMENDED.
SHIELDING BY METAL WIRE SLEEVE IS ALSO RECOMMENDED (GROUND
TO CYL HEAD)

*5 - FINE ADJUSTMENT OF THE CAM SENSOR HOUSING IS REQUIRED, REFER
TO THE INSTALLATION GUIDE. IMPROPER ADJUSTMENT WILL CAUSE
MISFIRE LIKE SYMPTOM WHEN THE SIGNAL EDGES BETWEEN THE CRANK
AND CAM SENSOR ALIGNS.