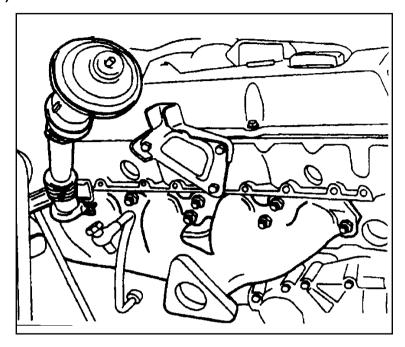
# 4. EGR (Exhaust Gas Recirculation System)

### 1) 2 EGR



EGR
1. 100
2. 600RPM

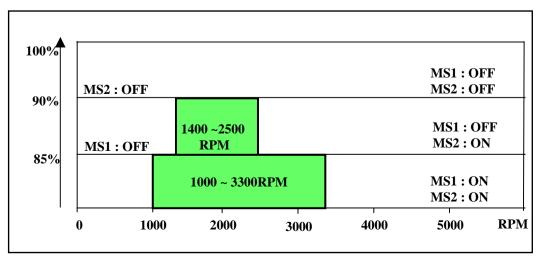
. Nox 가

. 가

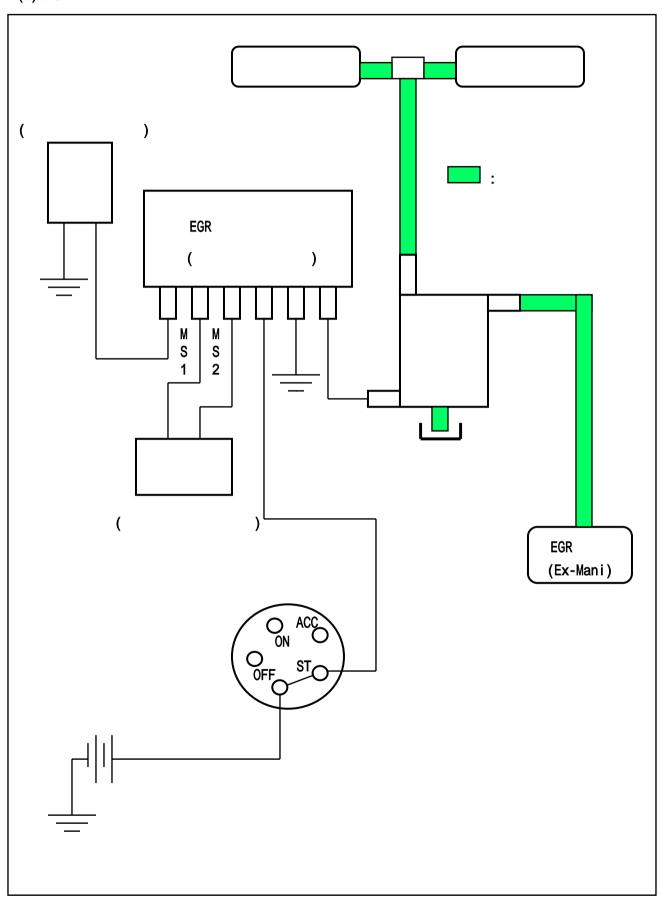
NOx .

가

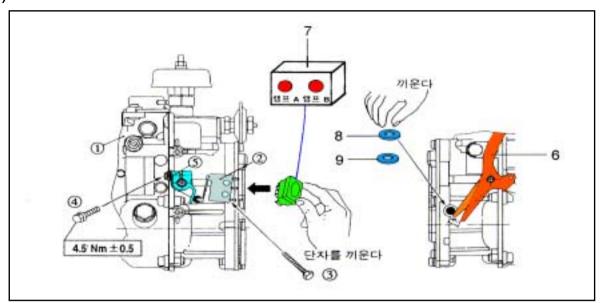
### (1) EGR



# (2) EGR



(3)



1.

2.

6. 가

3.

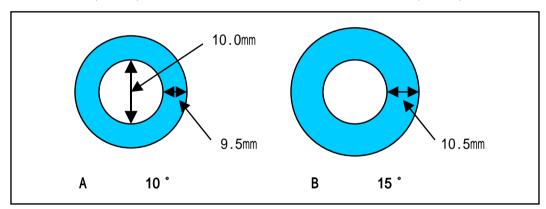
4.

5. 8.

A( 10°)

7. 9.

B( 15°)



1. MS .

2. "B"

)

(

3.가

5.7

A,B 가

"B"

"B"

4. MS

.

"A"

(4)

5.

"A"

(5)

( )

가

\_

6.가 "A" .

7. MS

Α

, B

가

. .

"B "

"A "가

M/S

8.

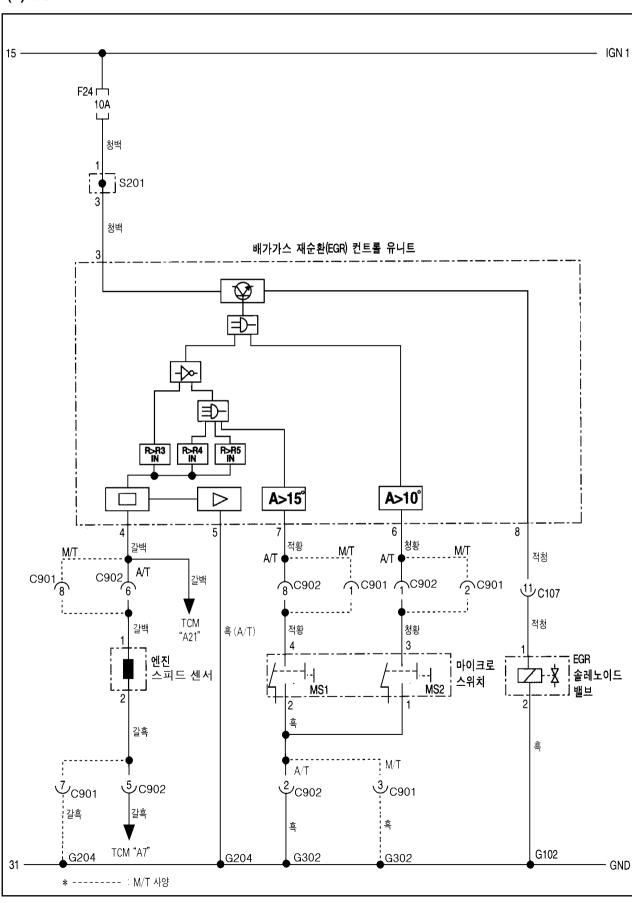
"A

"B "가

M/S

9.

### (4) EGR



### 가. 와이어링 하네스 커넥터 및 접지 안내

커넥터	단자수	색상	연결배선 명칭	커넥터 및 접지 위치
C107	16	흑색	엔진 - 메인	냉가수 리져버탱크 밑
C902	12	흑색	메인 - T/M (A/T)	T/C 위쪽
C901	8	흑색	메인 - T/M (M/T)	T/C 위쪽
G102	접	지	엔진	LH 헤드램프 뒤
G203	G203     접지       G302     접지       G204     접지		메인	재떨이 밑(좌)
G302			메인	TCCU 옆(운전석 의자 밑)
G204			메인	EGR 유니트 상단(조수석카울패널)

### 나. 커넥터 형상 및 단자 번호





메인 배선 (A/T)





---배기가스 재순환 컨트롤 유니트

①2 엔진 스피드 센서



12

EGR 솔레노이드

EGR NOX

TPS 85%(MS1) 90%(MS2)

(MS) EGR

RPM EGR

EGR 가

	TPS 85%	TPS 85% ~ 90%	TPS 90%
MS1	ON	OFF	OFF
MS2	ON	ON	OFF
RPM	1,000 ~ 3,300	1,450 ~ 2,500	-
EGR			

가

2) Huber EGR (k-2004)

Huber EGR EGR

가

\* EGR : TPS

DUTY

\* **가** : 기 IDLE RPM

RPM 2

ALDA EGR

가

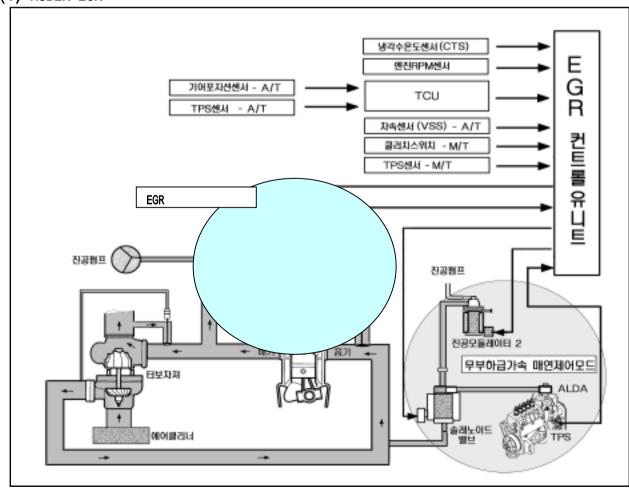
\* K-2004 기 2 EGR

\* : 2002 10 1 (VEH-NO : 307291 )

\* : 2003 12 1 (2004 )

( ,DI ENG' )

### (1) HUBER EGR

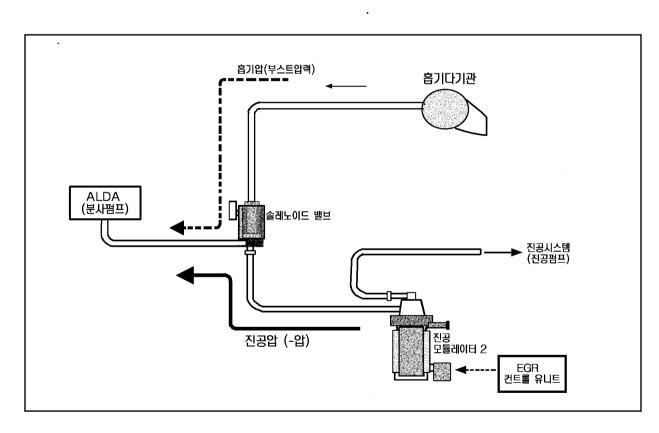


(2) EGR

```
가
Huber EGR
                   EGR
                                         RPM
          ON-OFF
            EGR UNIT
                             RPM (CPS), (VSS),
          (A/T) : EGR UNIT
                                      (TPS) EGR
         (Inhibit s/w),
                              (CTS),
          (M/T) : EGR
                                    RPM (CPS),
                                                        (CTS),
               (TPS),
                               (Clutch ) EGR
                                TPS
                                         EGR
            TCU EGR
                                         . (
                                                            )
                         가
 EGR UNIT가
                                                       EGR
                            EGR
                                                       1
             16
                         ON-OFF 가
           RPM
                               가
                        EGR
                                       (
    1
                                  1),
                                                  1~EGR )
                                      EGR 가
                     0 ~ 600mbar
                                       EGR
 EGR UNIT
                            1 16
               EGR
                                        . Huber EGR
                                                        EGR
                         EGR UNIT EGR
                                                    (
                                                             )
                    1
                                EGR
    가
                                EGR
                       1
    가
                                    EGR
                EGR
```

가 (3) 가 가 가가 ALDA 가 가 가 가 RPMRPM가 2 ) 가 ALDA 가 가 가 가 Huber EGR EGR UNIT가 가

ALDA

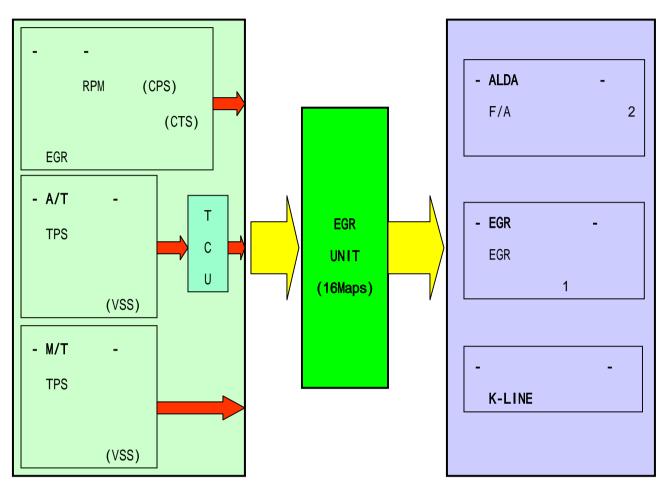


가 ALDA 230mbar ~ 270mba		-5~7mbar) 가>	RPM	가 (Norma	I Open)
EGR UNIT (M/T	RPM () EGR UNIT	,	,	(A/T),	(VSS) 가
(DUTY ) .	' <sup>†</sup> 2		2	ALDA	EGR UNIT 가
가	2	ALDA		-300mbar	~ -600mbar
,	ALDA 가			ALDA	가 ALDA
EGR		1		EGR	

# (4) EGR

		2 EGR ( )	EGR (HUBER)
EGR UNIT		EGR UNIT ON-OFF (2 )	HUBER EGR UNIT (16 )
EGR		ON-OFF EGR	1
가			2 ALDA
	RPM		<b>←</b>
	TPS		A/T : TCU CAN
		1,2	M/T : TPS
			A/T : TCU CAN
			M/T :
			A/T : TCU CAN ( )
			M/T :
			EGR
			4 UNIT
		EGR ( ON-OFF )	ALDA ( フト ON-OFF )
			1 (EGR )
			2 ( 가 )
		1,2 가	

### (5)HUBER EGR



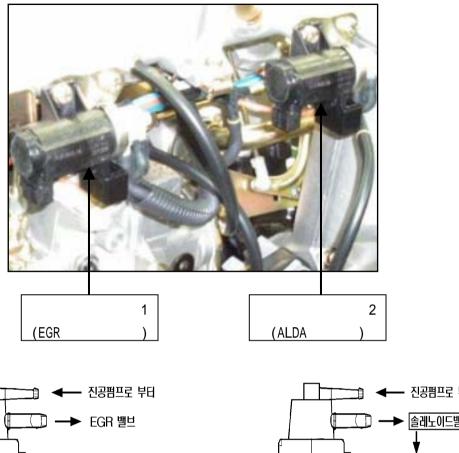
F/A : Free Accelation( 가 ) : 2003 12

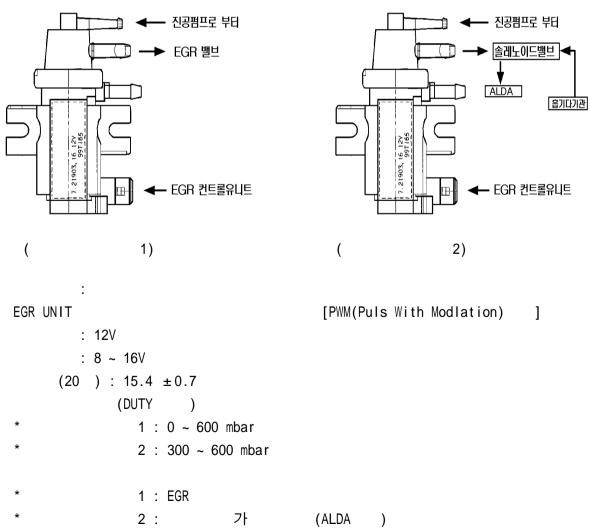
### (6) EGR

### (1)EGR UNIT



A/T : 28800-07100 M/T : 28800-07000 (2)





## (3)EGR



(EGR

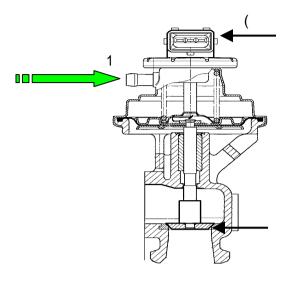
EGR : EGR UNIT

) : EGR

EGR EGR

EGR

EGR



(EGR )

1 16

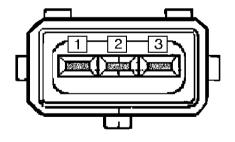
EGR

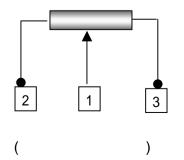
EGR UNIT

가 1

가

, EGR





EGR

	(mbar)	(mm)	(v)
1	- 370	0.2	1.7 ~ 2.1
2	- 690	6.0	9.6 ~ 11.6

EGR

-370mbar

가 가 6mm EGR

16% - 2

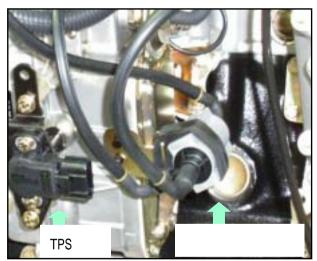
64%

(4) (CTS)

 $113 \pm 7.2$ 

120

(5)



가 (NO ) : 가 ALDA

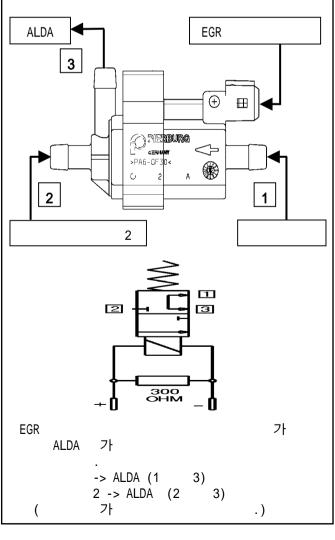
\* 가 :

ALDA

: 12V

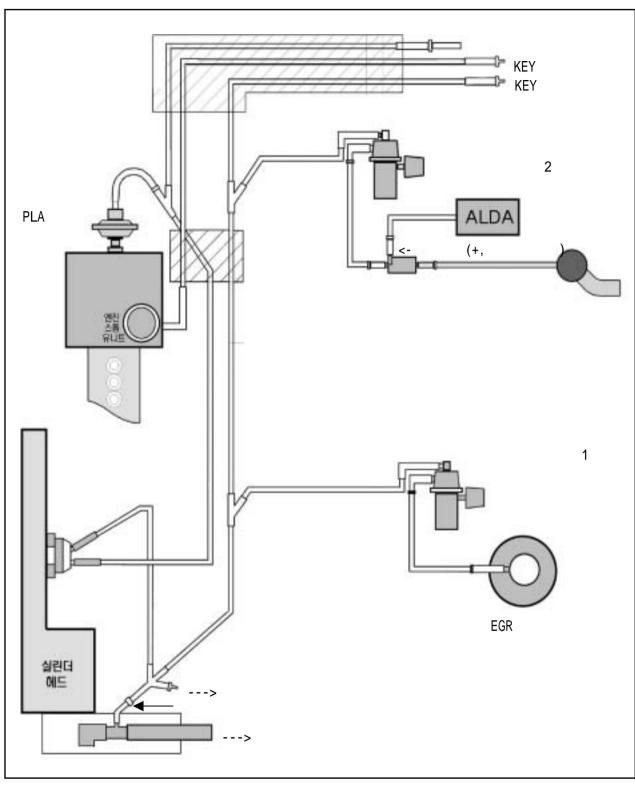
: 22.4 ± 1.4

,

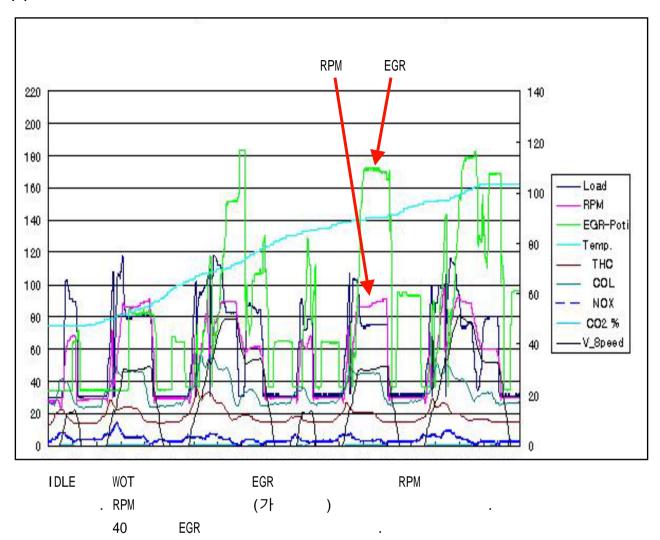


(TPS) (6) TPS TCU EGR UNIT EGR UNIT . Huber EGR 가 61 (TPS ) EGR TPS 1 4 5k ± 20% 1 2 10 ~ 20% 70 ~ 85% TCU TPS 가 5V , EGR UNIT, A/T \* M/T  $0.60 \pm 0.2 \text{V}$  $3.85 \pm 0.3$ V **(7)** (1) ( ) F/A EGR 1 F/A TPS (ON/OFF )

(2)

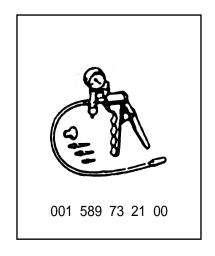


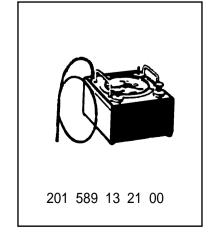
### (8) EGR

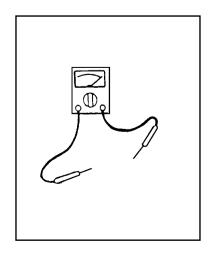


## (9) (Trouble Shooting)

EGR



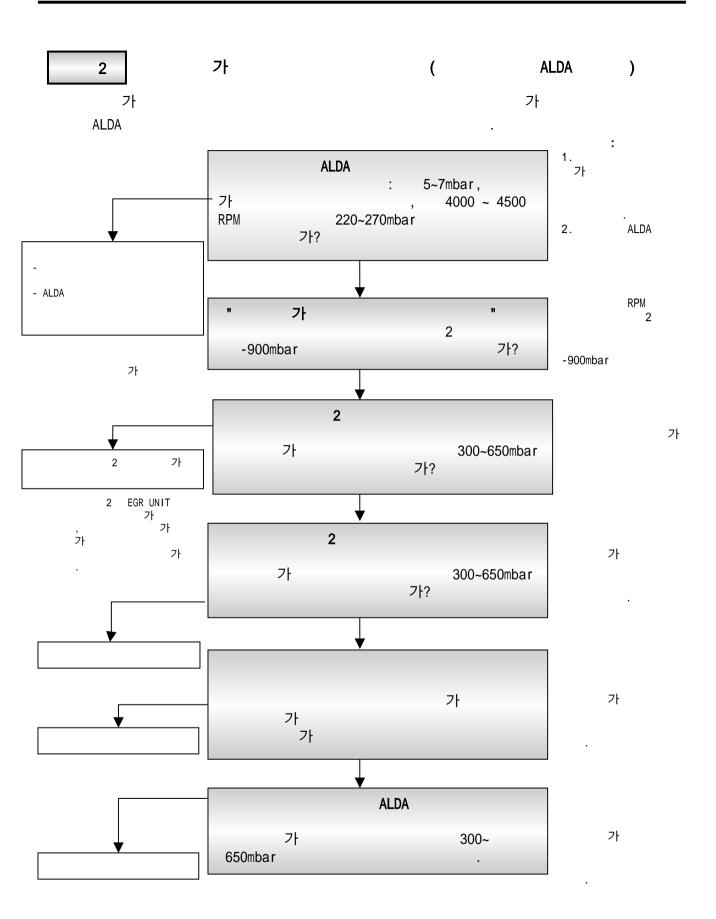




가 EGR

EGR UNIT

EGR **EGR** ( ) 가? 900mbar가 (EGR 가? RPM 0~600mbar 가 가? RPM가? EGR UNIT 가 EGR EGR 가 가 RPM가? **EGR** 가? 1 EGR **EGR EGR** EGR 가 EGR 가 EGR Т 가 EGR -700mbar EGR 가 가 가 EGR ) EGR



(10) HUBER EGR 10.1 ) 30 15 IGN1 Ef2 宀 80A Ef8 片 F24 ┌┤ 10A A/T M/T TCU <sup>2</sup>⁄ <sub>C103</sub> F17 ┌┴┐ C901 EGR ECU (K2004) 60 56 43 24 33 32 37 80 75 36 79 \_\_\_\_\_10 ; | C104 \ 16 C107 C901 (C902) 10(8) ···. 13(11) 14(12) 11(9) 12(10) 9(7) C105A EGR **EGR** G204 31 GND ) : A/T TCU A5 TPS, RPM, A/T

