STRAKE PANEL

LANDING LIGHTS (WING)
15A

LANDING LIGHTS (GEAR)
15A

NAVIGATION LIGHTS
15A

STROBE LIGHTS
15A

INTERCOM
1A

HEATER BLOWER   PITCH / ROLL TRIM
15A   5A

SPEED BRAKE   INSTRUMENTS
5A   5A

FUEL BOOST PUMP   RADIO MASTER
5A

ALARMS   PROP CONTROLLER
5A   5A

STARTER
5A

AUX BAT
5A

10Amp

LANDING GEAR CONTROL
10A

IGN LT
E-MAG
5A

AUX BAT RELAY

CLOCK   MAIN GEAR
1A   50A

UN-SWITCHED BUS

NOSE GEAR
10A

AUX
GEAR-OFF-STRUT
SWITCH

ROSE IGNITION (IGN RT)
15A   5A

ALTERNATOR
50A

R4   MASTER RELAY

SWITCHED BUS

R3

EMERGENCY
AUX
CONNECT
(COVERED OFF)

STARTER
CIRCUIT

AMMETER
SHUNT

MAIN
BATTERY

5A
MASTER

BATTERY
AUX

MAIN POWER
31 JANUARY 2007

	Landing Gear Computer	
Left Main Up Switch	X0 — X12	Nose Up Lock
Right Main Up Switch	X1 — X13	Up Pressure Switch (WHITE, RED)
Left Main Down Overcenter	X2 — X14	Down Pressure Switch (WHITE, RED)
Right Main Down Overcenter	X3 — X15	Full Throttle Switch
Sturt Compression Pressure	X4 — X16	Idle Throttle Switch
Tilt Switch	X5 — X17	Canopy Down Switch (Canopy Lock) — PROX (BLACK, BLUE, BROWN +12vdc)
Normal Down Switch	X6 — X20	Mute Button Switch
Normal UP Switch	X7 — X21	Ground ProYimity Switch
Emergency Retract Switch	X10 — X22	Airspeed Switch < 80 kts
Nose Down Lock	X11 — X23	Squat Button Switch

DOWN
OFF
UP
Part Of Gear Switch

Computer INPUTS

9 April 2007

L1 Choke

FROM
LANDING GEAR CONTROL
(10A)

(+)

Y-C0

Y-C1

Y-C2

Y-C3

Y-C0

X-C0

X-C1

X-C2

X-C3

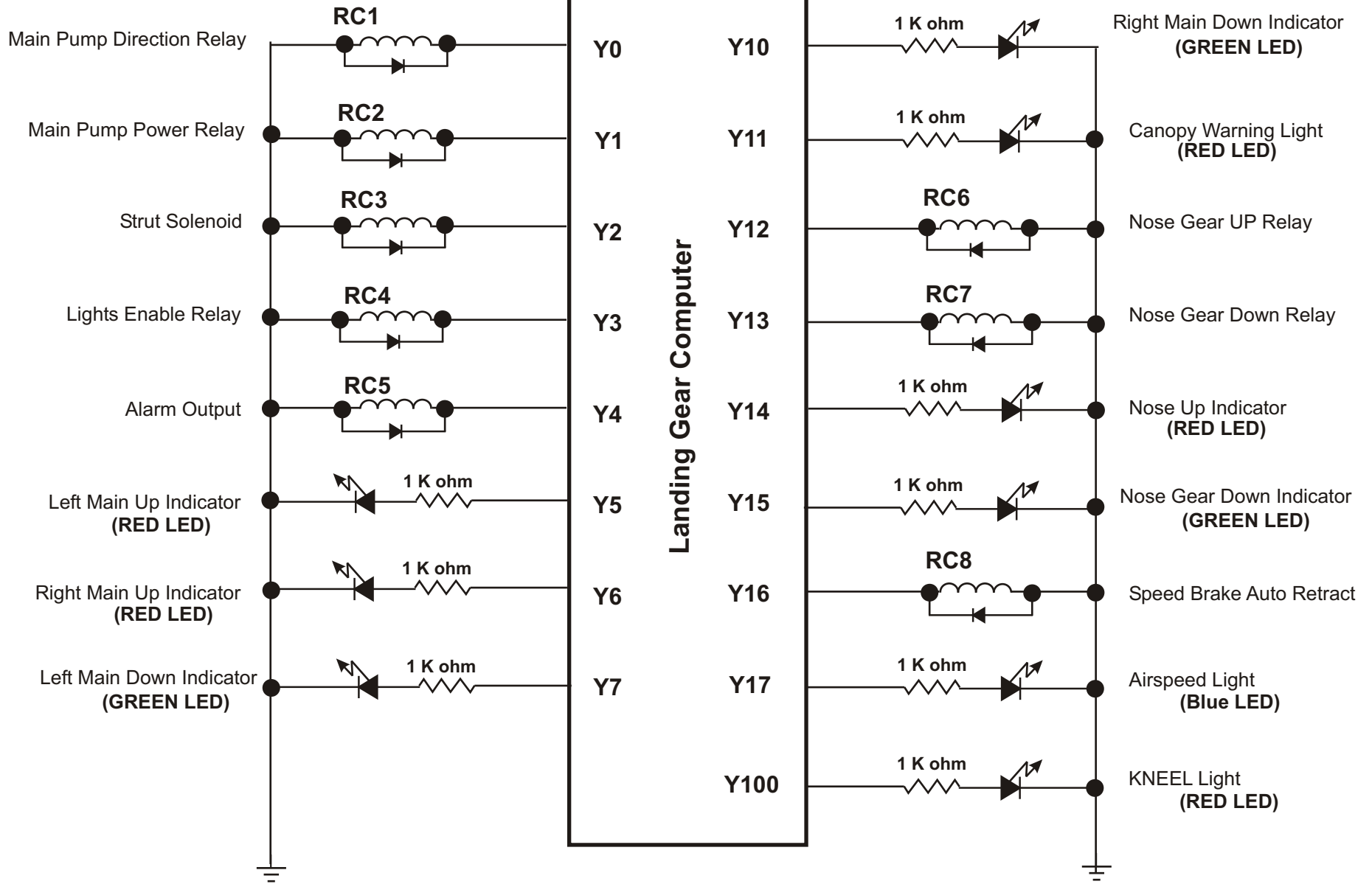**X-C4**

Y-100 (c)

Landing Gear Computer

(-)
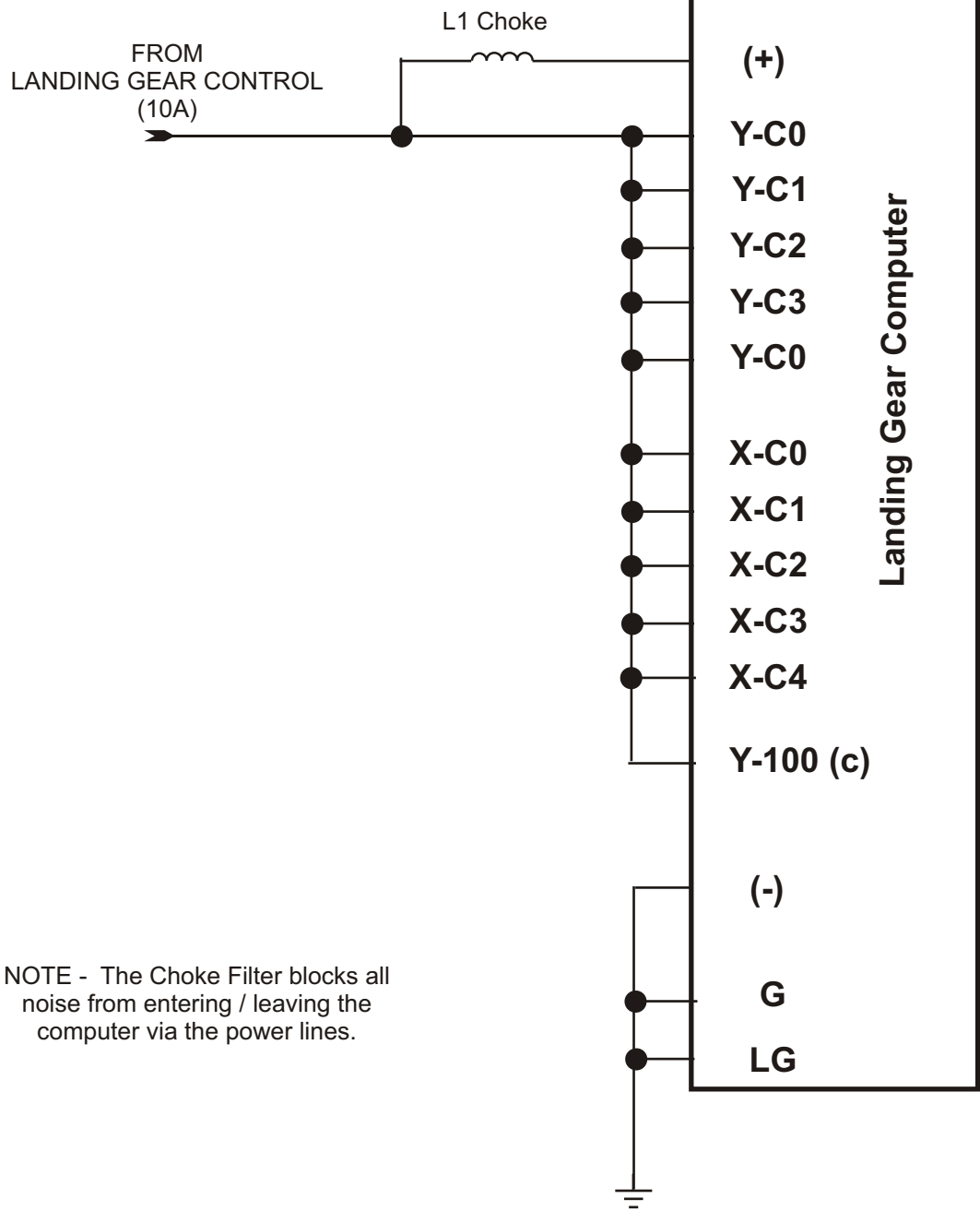
NOTE - The Choke Filter blocks all
noise from entering / leaving the
computer via the power lines.

G

LG

Computer POWER
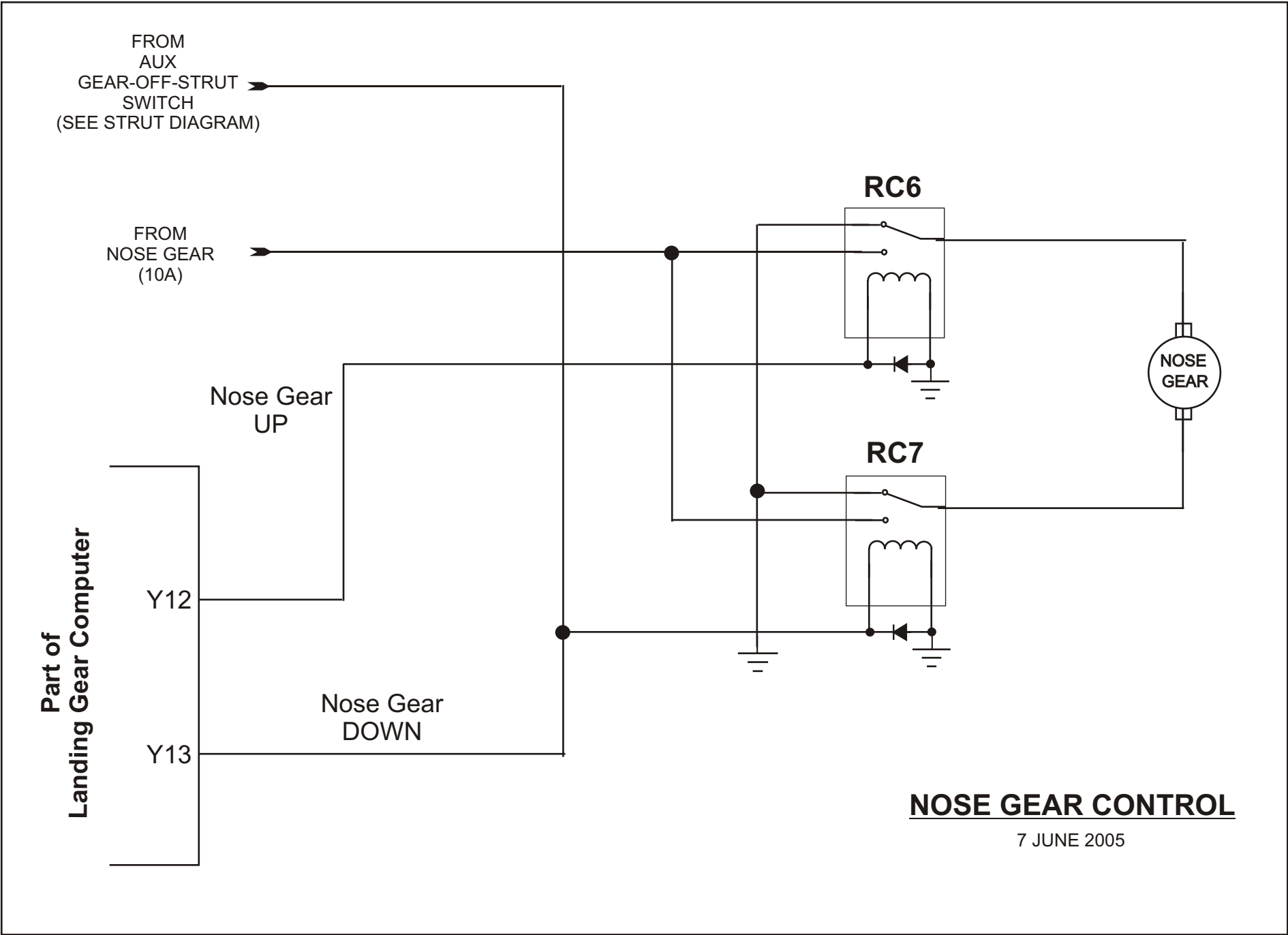
15 Oct 2005

Main Pump Direction Relay — **RC1** — Y0

Main Pump Power Relay — **RC2** — Y1

Strut Solenoid — **RC3** — Y2

Lights Enable Relay — **RC4** — Y3

Alarm Output — **RC5** — Y4

Left Main Up Indicator **(RED LED)** — 1 K ohm — Y5

Right Main Up Indicator **(RED LED)** — 1 K ohm — Y6

Left Main Down Indicator **(GREEN LED)** — 1 K ohm — Y7

Landing Gear Computer

Y10 — 1 K ohm — Right Main Down Indicator **(GREEN LED)**

Y11 — 1 K ohm — Canopy Warning Light **(RED LED)**

Y12 — **RC6** — Nose Gear UP Relay

Y13 — **RC7** — Nose Gear Down Relay

Y14 — 1 K ohm — Nose Up Indicator **(RED LED)**

Y15 — 1 K ohm — Nose Gear Down Indicator **(GREEN LED)**

Y16 — **RC8** — Speed Brake Auto Retract

Y17 — 1 K ohm — Airspeed Light **(Blue LED)**

Y100 — 1 K ohm — KNEEL Light **(RED LED)**

Computer OUTPUTS

15 Oct 2005

FROM
MAIN GEAR
(50A)

MAIN
GEAR - UP

R1

To Gear Display
(UP) DB9-4

Power Relay

RC2

Direction Relay

RC1

GEAR
PUMP

MAIN
GEAR - DOWN

R2

To Gear Display
(DOWN) DB9-8

FROM
AUX
GEAR-OFF-STRUT
SWITCH
(SEE STRUT DIAGRAM)

Part of
Landing Gear Computer

Y0

Y1
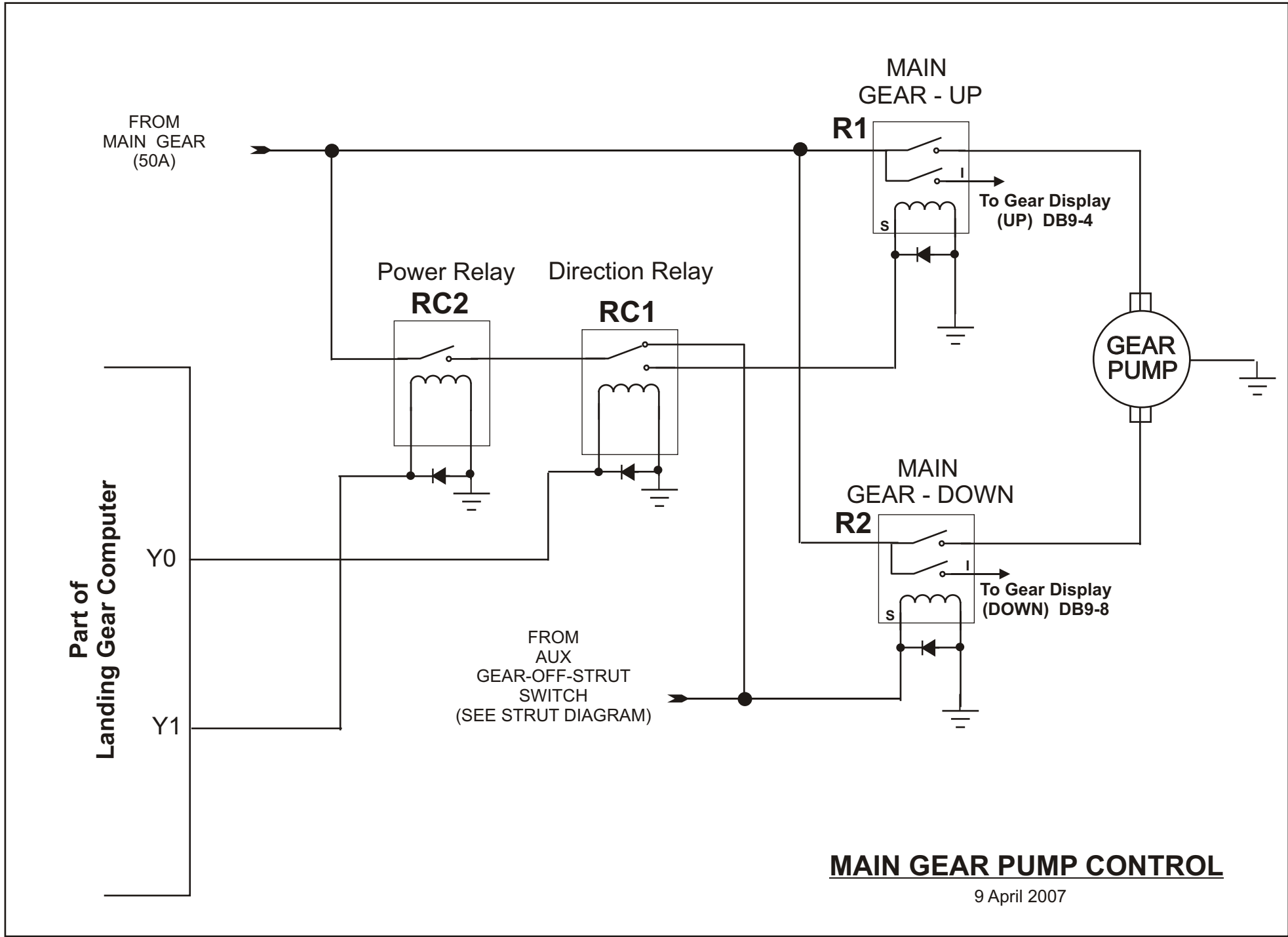
MAIN GEAR PUMP CONTROL

9 April 2007

FROM
AUX
GEAR-OFF-STRUT
SWITCH
(SEE STRUT DIAGRAM)

FROM
NOSE GEAR
(10A)

RC6

NOSE
GEAR

Nose Gear
UP

RC7

**Part of
Landing Gear Computer**

Y12

Y13

Nose Gear
DOWN

NOSE GEAR CONTROL

7 JUNE 2005

NOTE

Relay circuit is designed to fail in a safe mode. If The main gear Computer fails, The landing lights will work.

LEFT LIGHT

Landing Light Enable Relay

RC4

FROM
LANDING LIGHTS
(15A)

RIGHT LIGHT

**Part of
Landing Gear Computer**

Y3
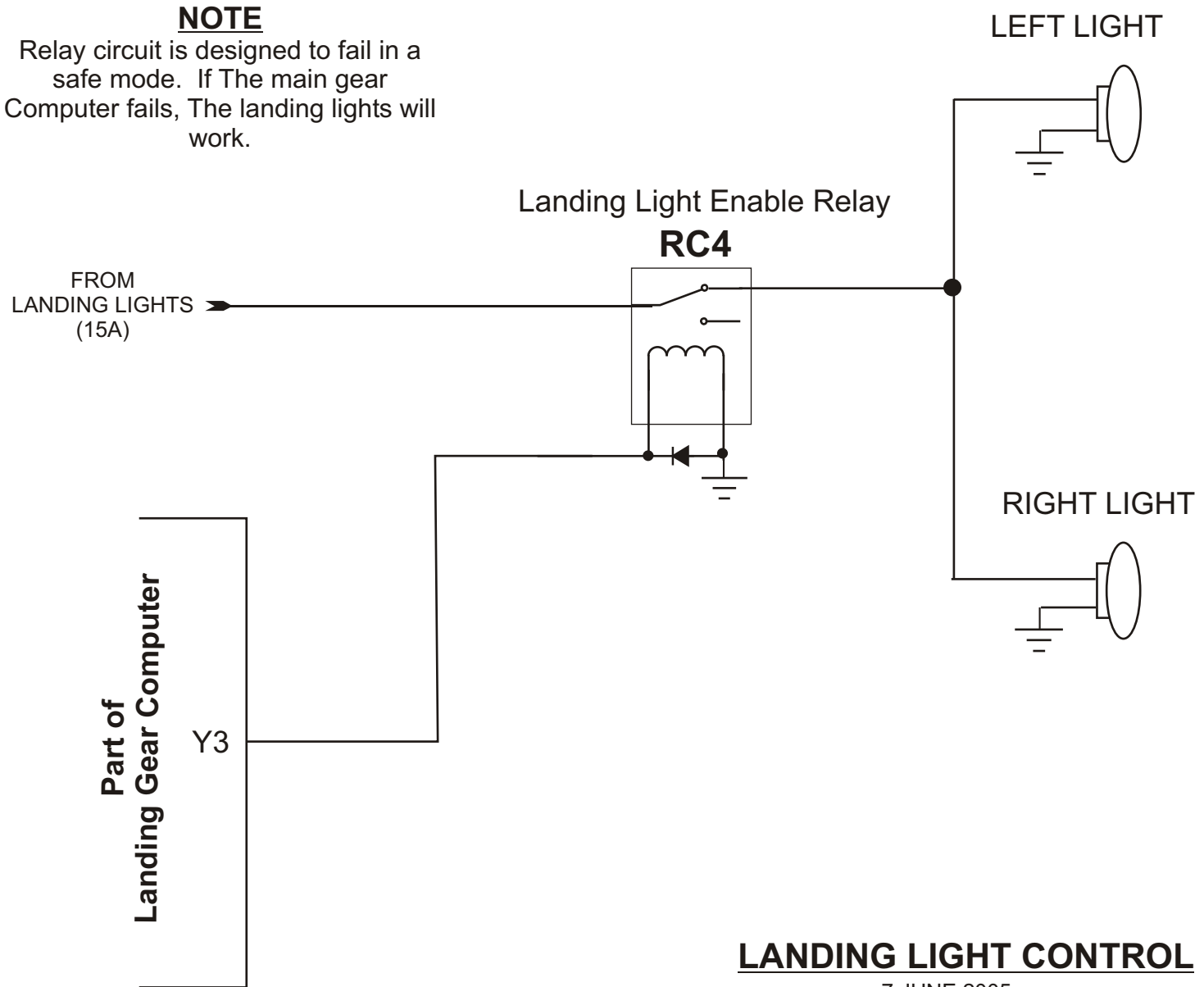
LANDING LIGHT CONTROL

7 JUNE 2005

FROM
ALARMS
(5A)

AUDIO ALARM
CIRCUIT CARD

WARNING
HORN

Alarm Enable Relay
RC5

**Part of
Landing Gear Computer**

Y4
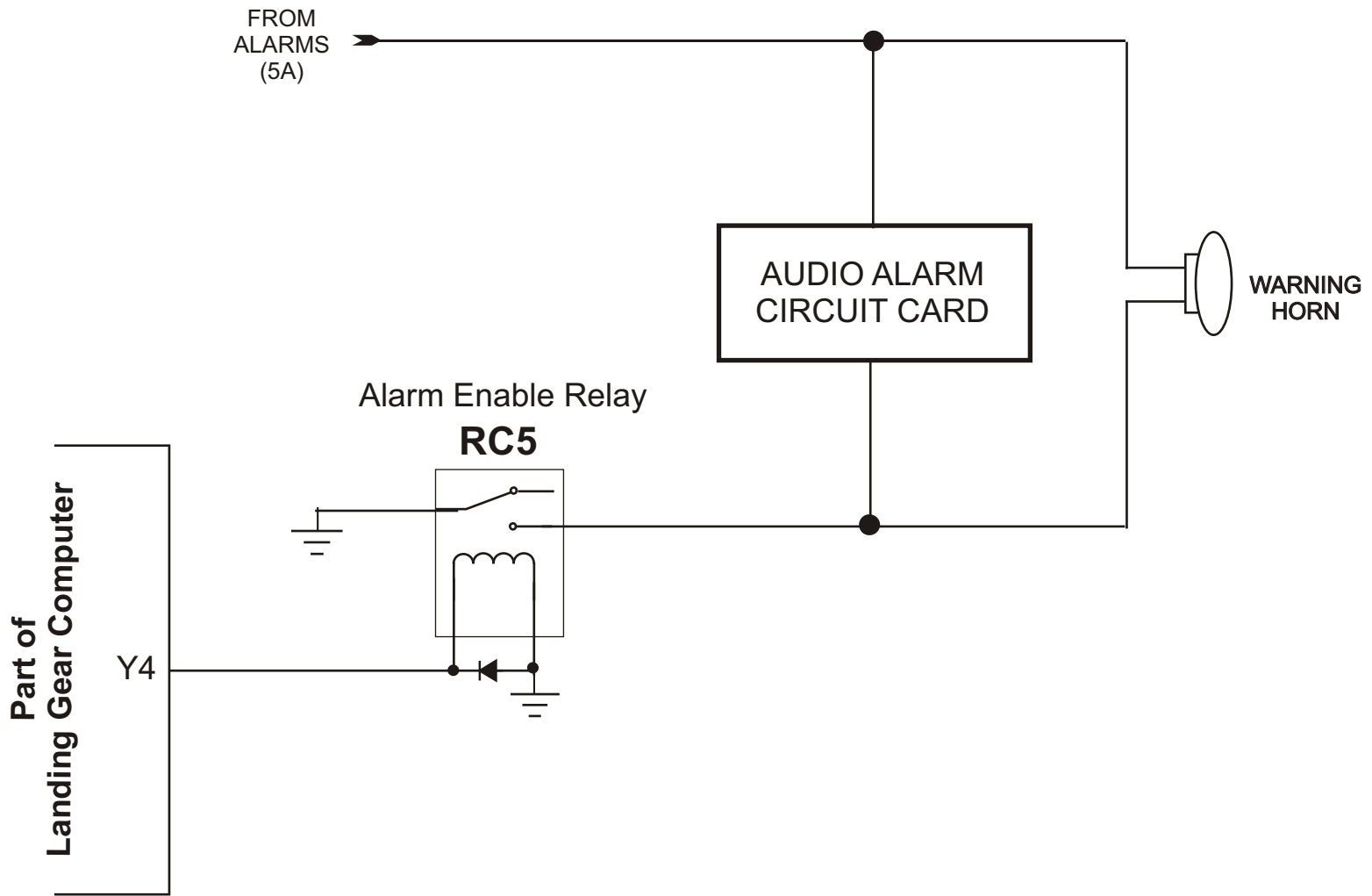
ALARM CONTROL

7 JUNE 2005

FROM
SPEED BRAKE
(5A)

EXTEND
RELAY
R6

EXTEND

SPEED
BRAKE

RETRACT
RELAY
R7

RETRACT

Part of
Landing Gear Computer

Y4

SPEED BRAKE CONTROL

7 JUNE 2005

GEAR
UP - OFF - DOWN

AUX
GEAR-OFF-STRUT
SWITCH

UP

OFF

DOWN

GEAR (MC)

OFF

STRUT (MC)

TO MAIN GEAR

TO NOSE GEAR

FROM
AUX GEAR
(15A)

(X6) (X7)
TO CONTROLLER

FROM
LANDING GEAR
CONTROL
(10A)

Strut Relay
RC3

**Part of
Landing Gear Computer**

Y2

STRUT SOLENOID
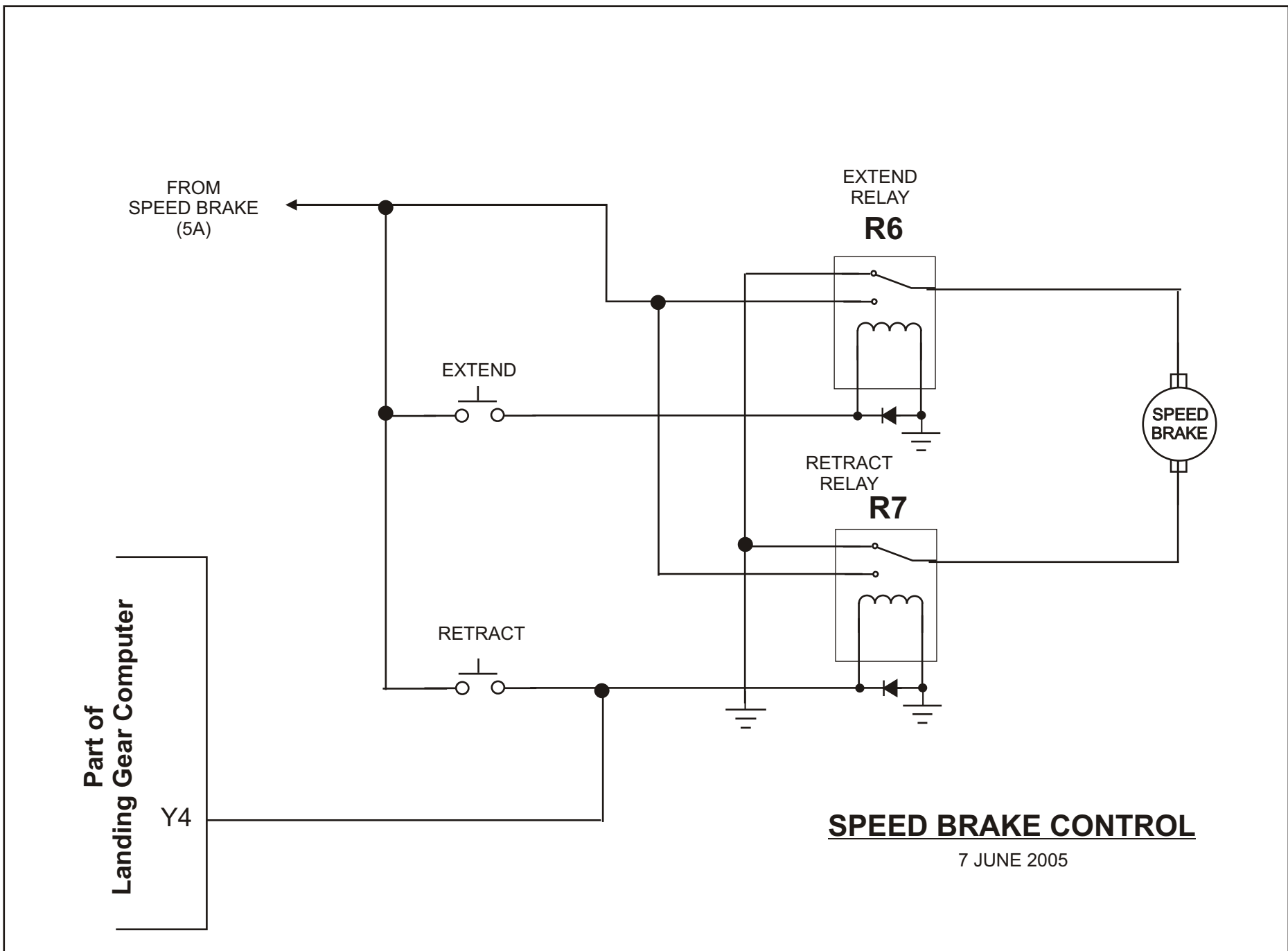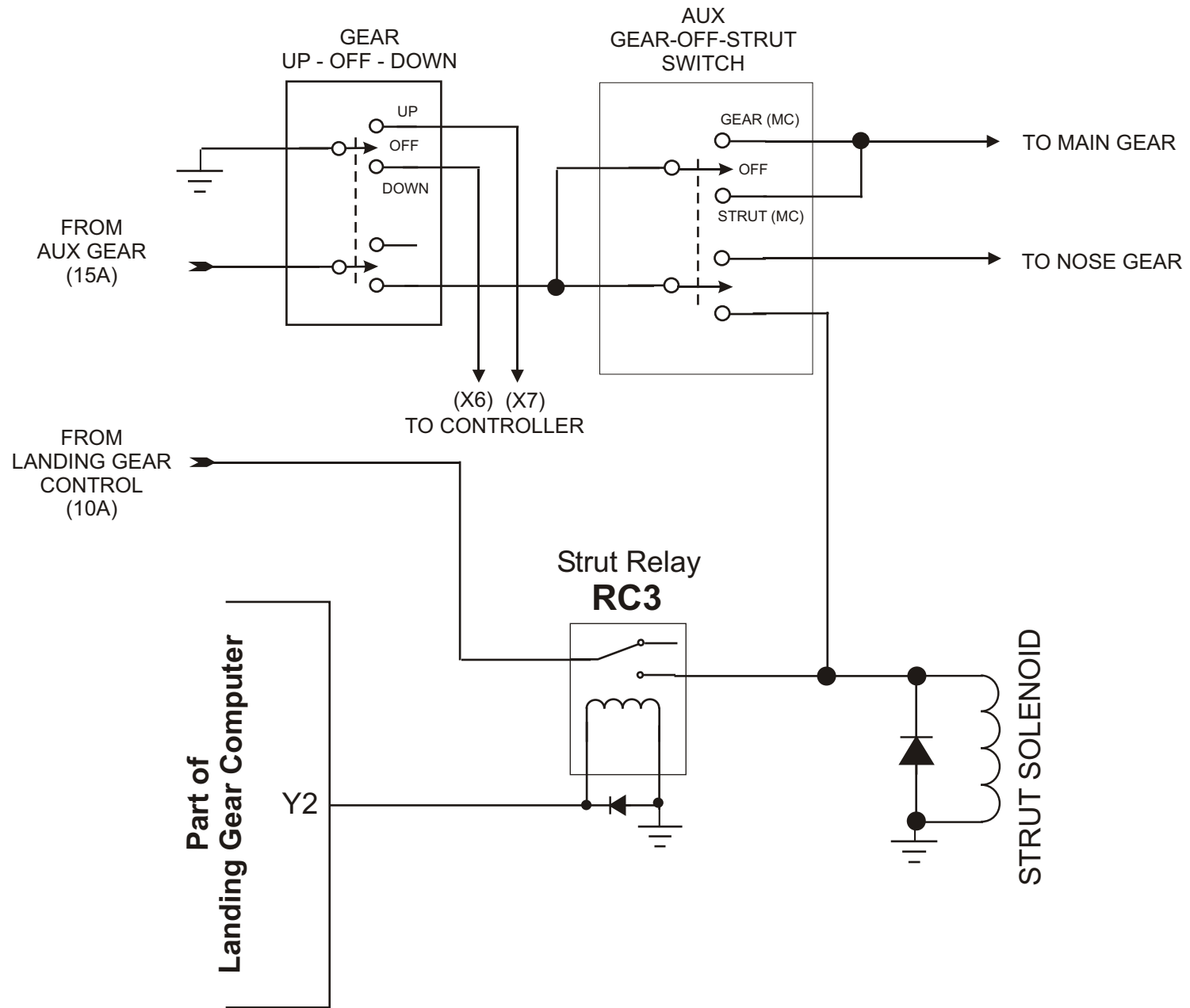
STRUT CONTROL

11 MARCH 2007

ALTERNATOR

1981 Datson B510
Hitachi # LR-150-98

LIGHT - To Idiot light

L I

BAT

S

OUTPUT - To ALT 50 AMP Breaker

SENSE

TO
ALARMS
(5A)

ALTERNATOR

MASTER
RELAY

50A

MAIN
BATTERY
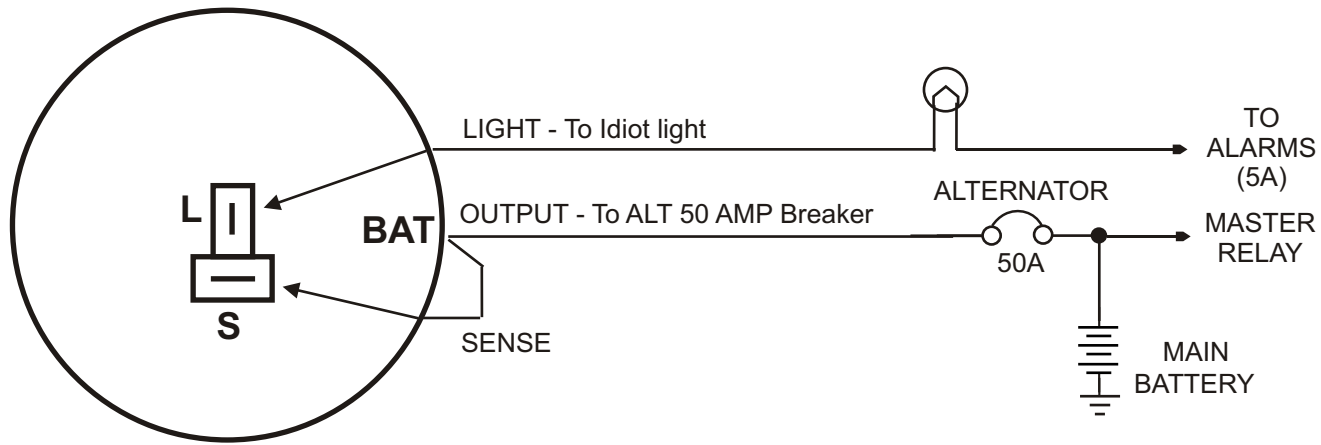
FRONT BEARING - # NSK 6203DU
REAR BEARING - # NSK 6201V

ALTERNATOR

9 April 2007

Choke / Capacitor Filters

COM1

5A

FROM
RADIO MASTER

COM/GPS

10A

TRANSPONDER

5A
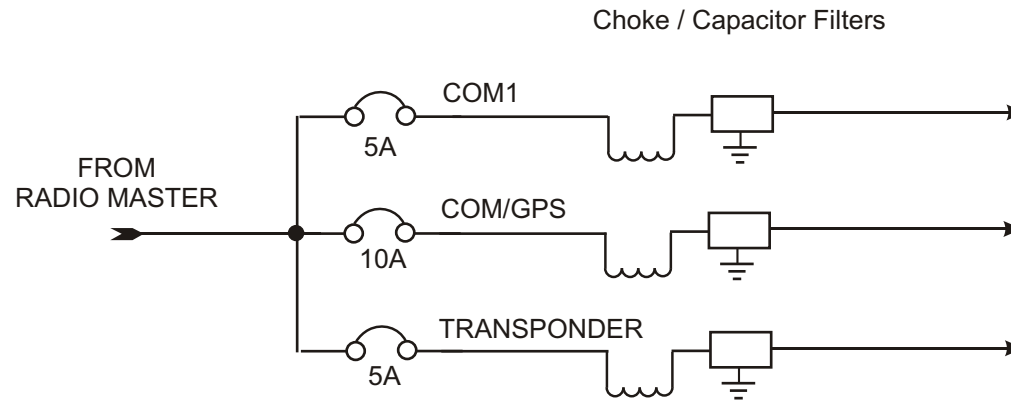
NOTE - The Choke Filters block all noise from
entering / leaving the radio via the power lines.

RADIO MASTER
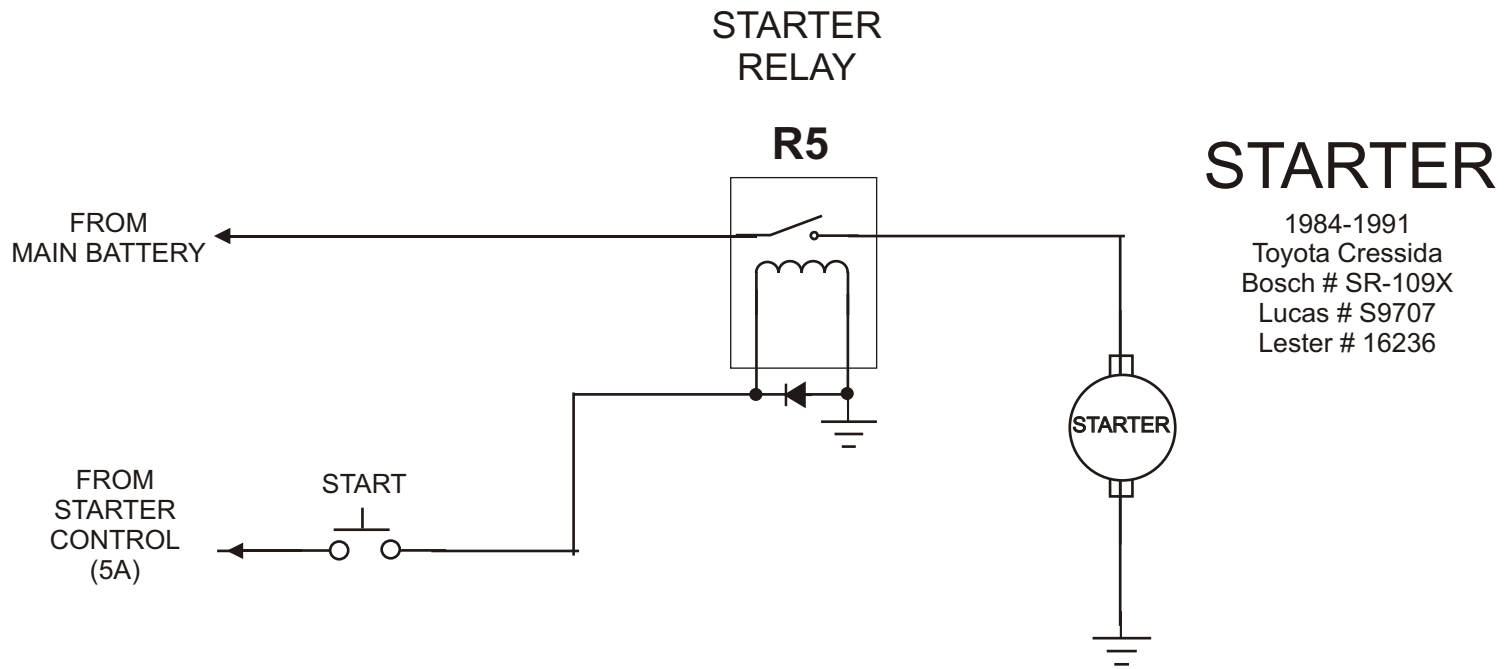
7 JUNE 2005

TO
PITCH / ROLL TRIM
(5A)

PITCH UP
RELAY

R8

NOSE UP

PITCH
TRIM

PITCH DOWN
RELAY

R9

NOSE DOWN
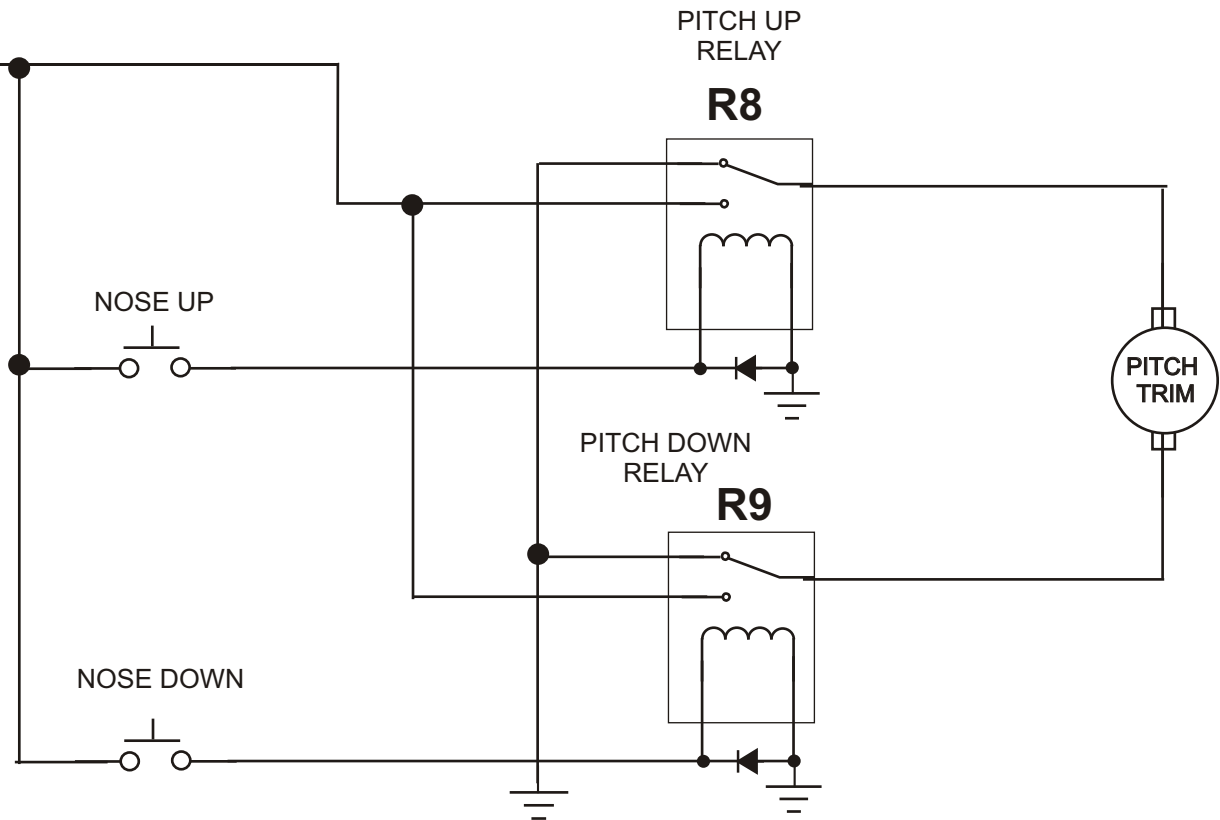
PITCH TRIM CONTROL

7 JUNE 2005

TO
PITCH / ROLL TRIM
(5A)

ROLL LEFT
RELAY

R10

LEFT

ROLL
TRIM

ROLL RIGHT
RELAY

R11

RIGHT
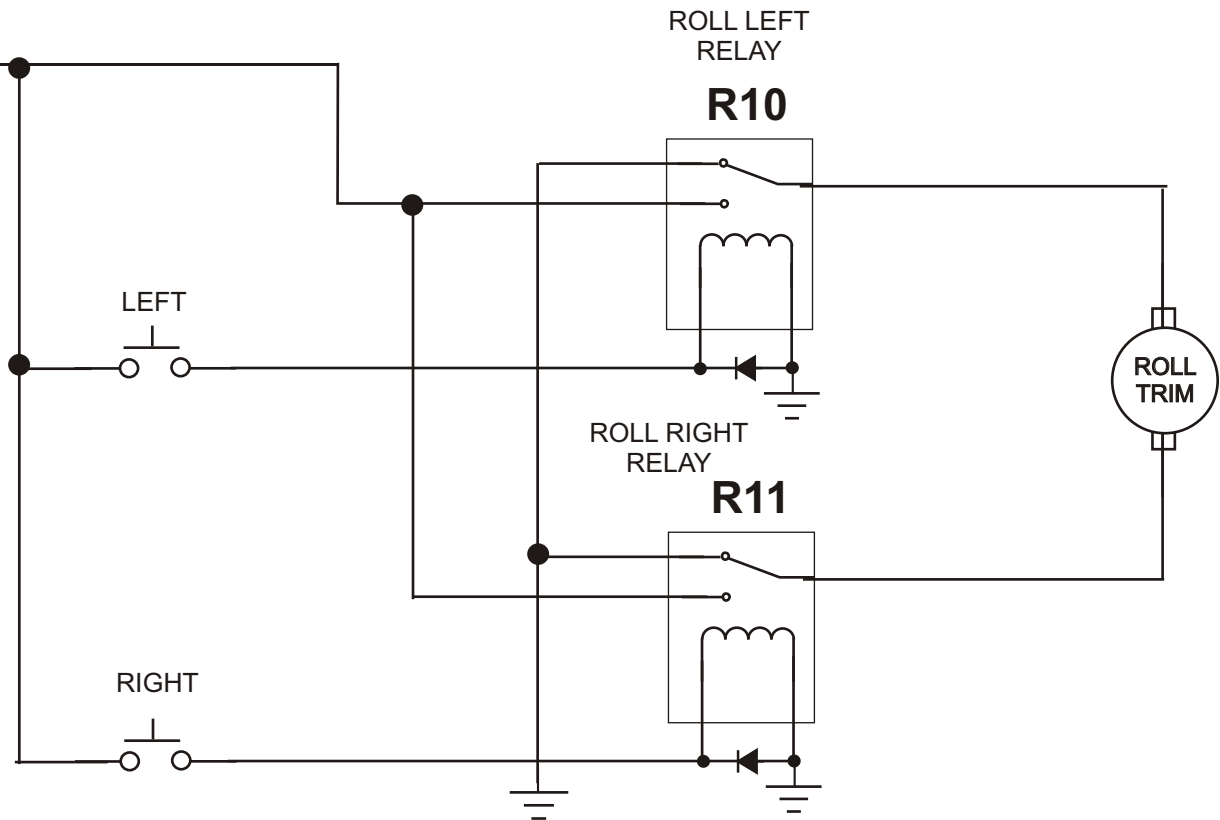
ROLL TRIM CONTROL

7 JUNE 2005

STARTER
RELAY

R5

STARTER

FROM
MAIN BATTERY

1984-1991
Toyota Cressida
Bosch # SR-109X
Lucas # S9707
Lester # 16236

STARTER

FROM
STARTER
CONTROL
(5A)

START

STARTER CONTROL

4 JULY 2005

LEFT UP
(RED LED)

NOSE UP
(RED LED)

RIGHT UP
(RED LED)

UP PUMP
(AMBER LED)

LEFT DOWN
(GREEN LED)

NOSE DOWN
(GREEN LED)

RIGHT DOWN
(GREEN LED)

DOWN PUMP
(AMBER LED)

DB-9

1 K ohm

1 K ohm

1 K ohm

1 K ohm

1 K ohm

1 K ohm

1 K ohm

1 K ohm

1
2
3
4
5
6
7
8
9
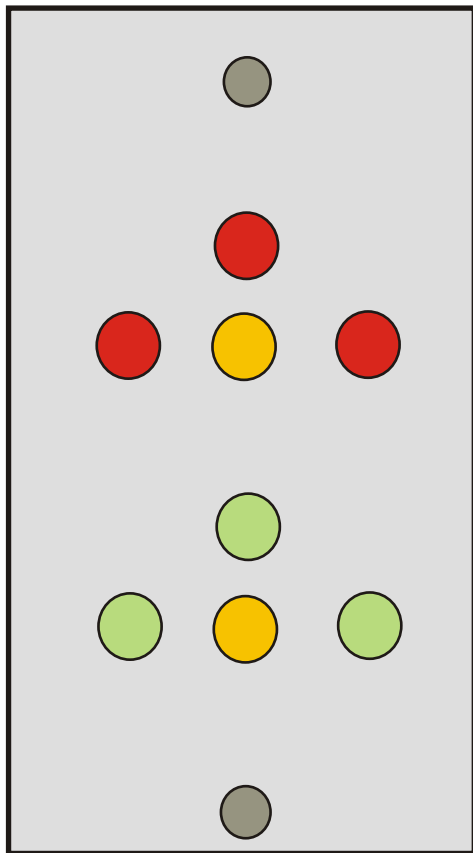
LANDING GEAR
ANNUNCIATOR PANEL

7 JUNE 2005

Garmin 250XL

J1-19 — Serial Data Tx — 2 | 2 — Serial Data Rx — 8

DB9 MALE

J1-22 — 5 | 5 — 1

DB9 FEMALE

Wing Leveler Source

J1-1 — AP+ — GPS — AP+ — 3

LEVELER

J1-4 — AP- — AP- — 6

AP+ — 11

AP- — 12

NavAids Wing Leveler

AP Override
R12

Wing Leveler Servo — Servo Out — 5

AP OVERRIDE
(Infinity Grip)

+12vdc from Pitch Roll Trim
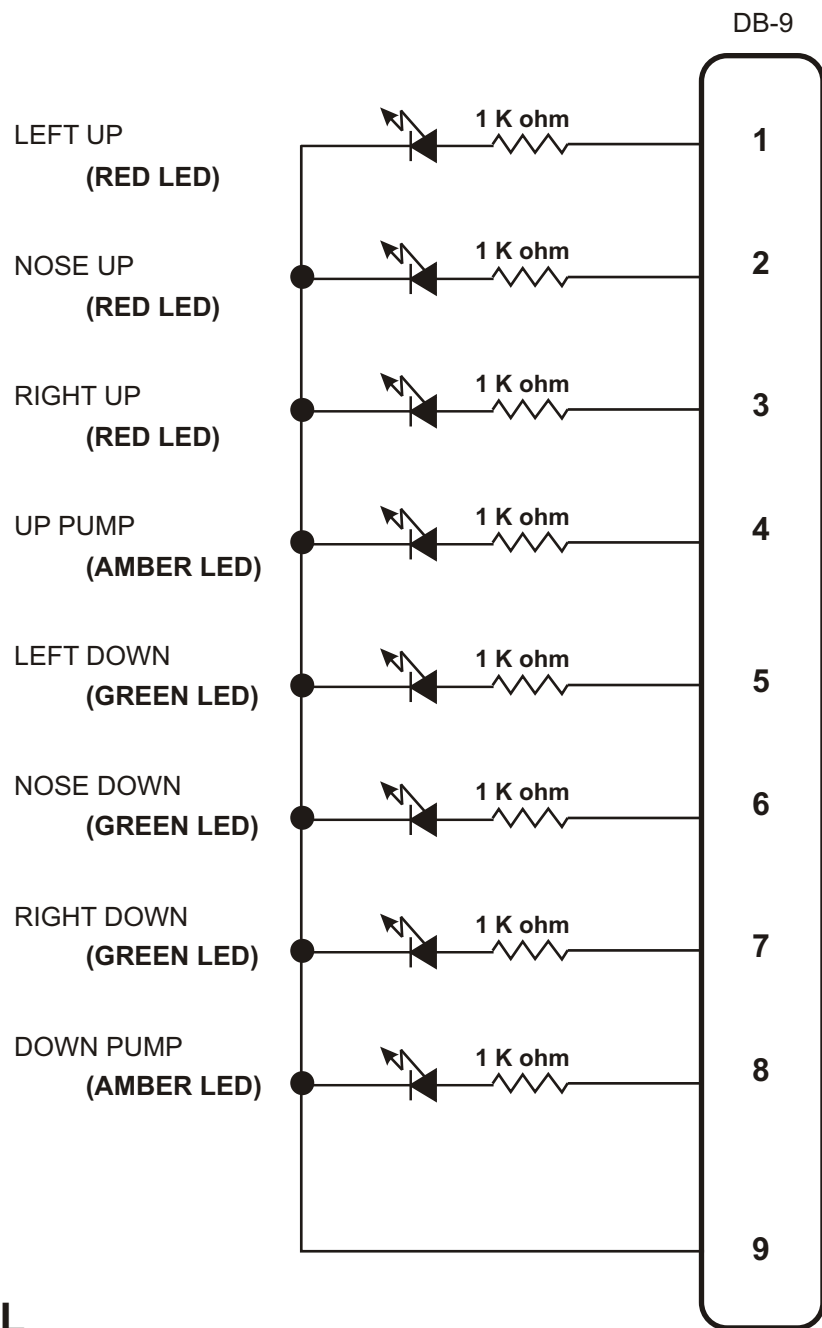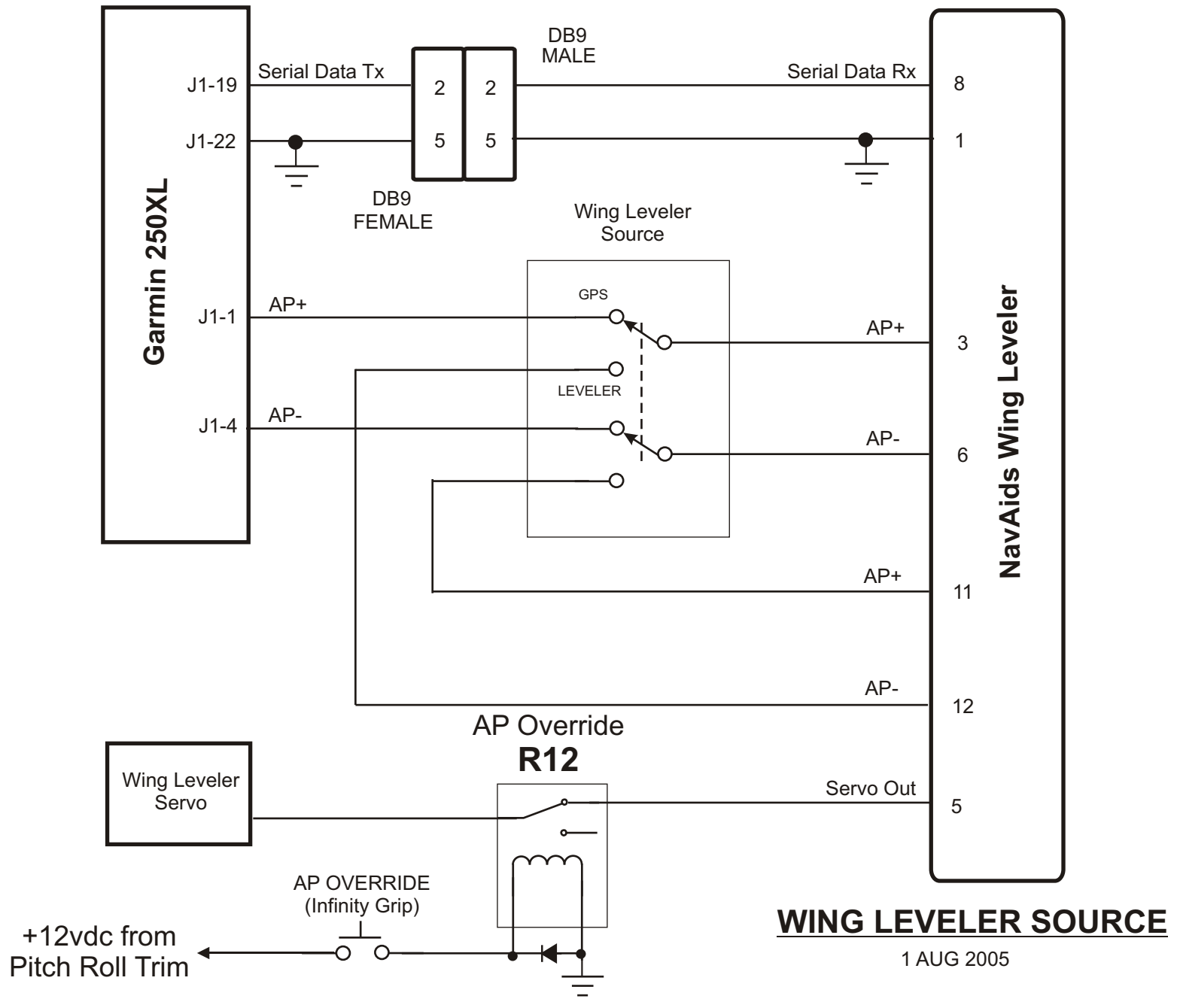
WING LEVELER SOURCE

1 AUG 2005

Garmin 250XL

+12vdc

J1-21
J1-25

J1-22
J1-26

AP+   J1-1
AP-   J1-4

Serial
Data   J1-19

J2-4 KEY

J2-2 MIC

AUDIO OUT
J2-5
J2-3
J2-6

RADIO SELECT

COMM-1

COMM-2

ATC-2 INTERCOM

KEY

MIC

AUDIO

HEADSET
AUDIO   H

KEY   9

MIC   J

AUX AUDIO 2   C

AUX AUDIO 1   D

FROM
WARNING BUZZER
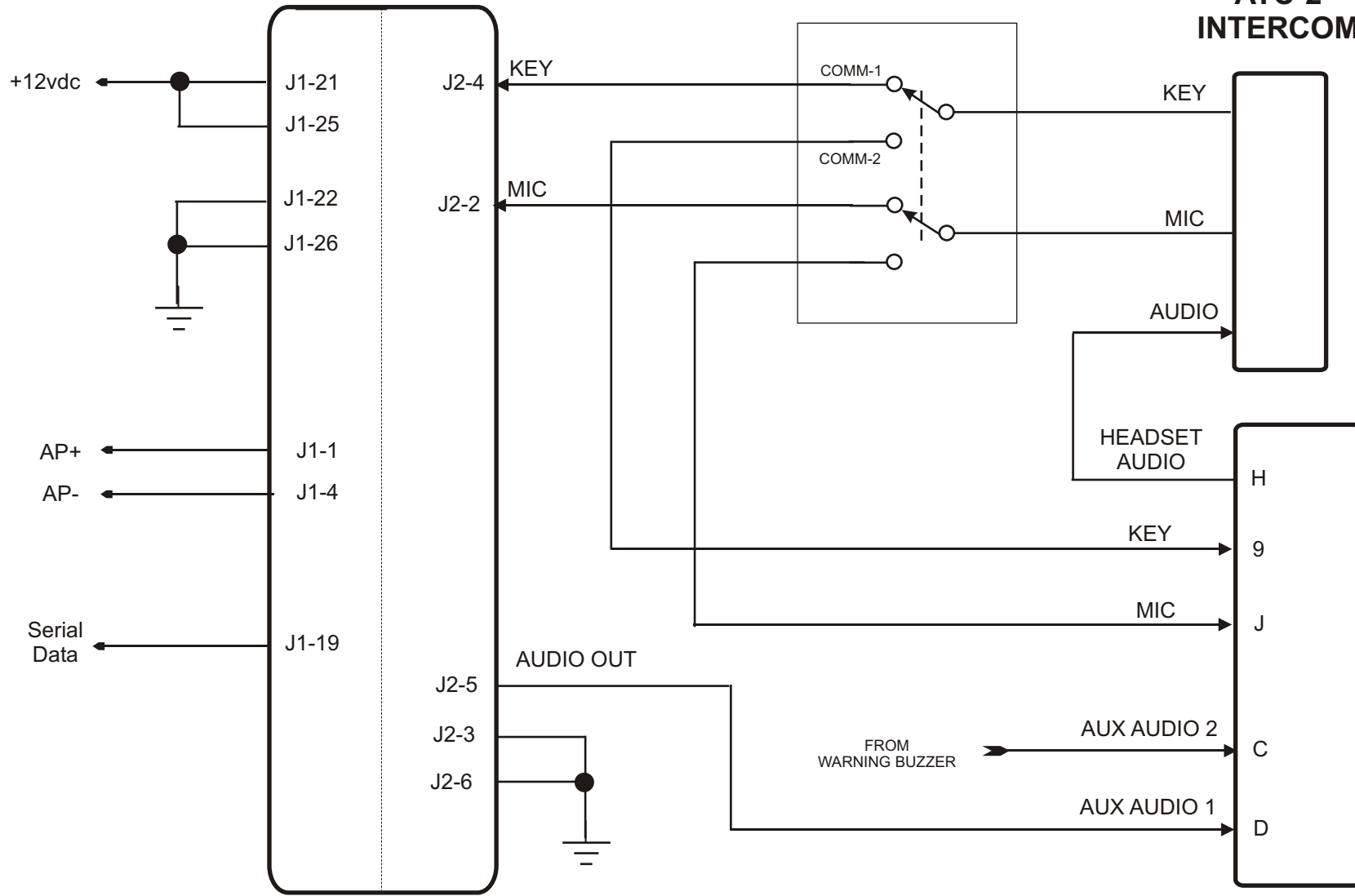
ICOM IC-A200

RADIO / AUDIO INTERCONNECT

8 JULY 2005

E-MAG

5A

RED - Power

BLACK - Ground

E-MAG

P/O
EMS 10

32
(RPM LEFT)   White/Green   30 K ohm   GREEN - TACH

ORANGE - P-Lead

**LEFT
IGNITION**

OFF

ON

KILL switch
(Headrest)

OFF

ON

**RIGHT
IGNITION**

ROSE
IGNITION

OFF

OFF

ON   ON

5A   ON

JEFF
ROSE
ELECTRONIC
IGNITION

BLACK - Ground
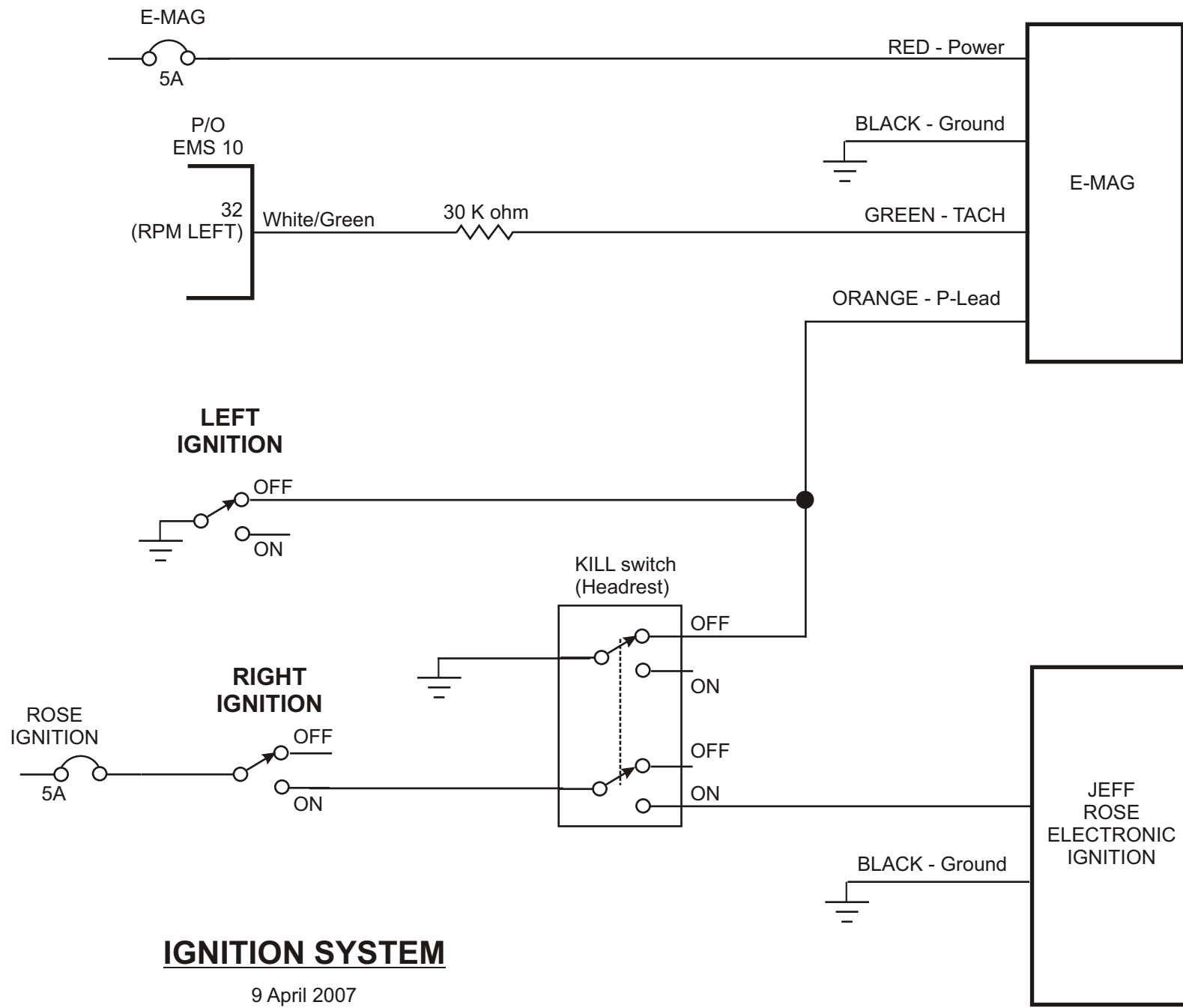
IGNITION SYSTEM

9 April 2007

87 BLUE

87a BLACK

86 BLACK

85 RED

30 BLACK

87a

87

30

85

86
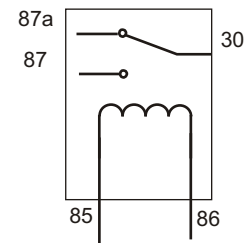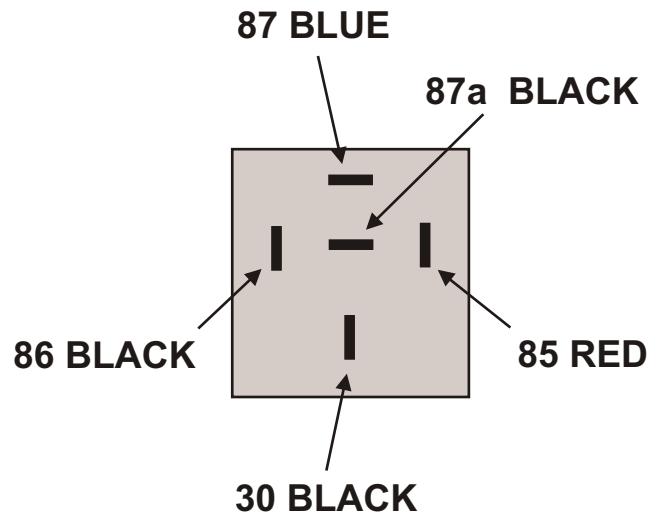
CUBE RELAY
VIEWED FROM BOTTOM

10 JULY 2005

The relays and a pigtail (with suppression diode) are available from Jameco. The relays are $2.49 each (part# 148582CH) and the pigtail is $2.35 (Part# 170624CH)

INFINITY I Military Style Grip

1 AUG 2005

Description	Button Color	WIRE COLOR	WIRE COLOR	COMMON	TO
Pitch Trim Nose Down	COOLIE	BLACK (1)	BROWN	(12 vdc) TRIM	R9 - 85
Pitch Trim Nose Up	COOLIE	BLACK (1)	BLUE	(12 vdc) TRIM	R8 - 85
Roll Trim Left	COOLIE	BLACK (1)	RED	(12 vdc) TRIM	R10 - 85
Roll Trim Right	COOLIE	BLACK (1)	GREEN	(12 vdc) TRIM	R11 - 85
Radio PTT	TRIGGER	WHITE	WHITE / BLACK	GROUND	PTT ATC-2
Speed Brake RETRACT	TOGGLE	BLACK (2)	RED / BLACK	(12 vdc) SPD BRAKE	R7 - 85 (Y4 Gear Computer)
Speed Brake EXTEND	TOGGLE	BLACK (2)	RED	(12 vdc) SPD BRAKE	R6 - 85
Alarm Mute	GREEN	GREEN	GREEN / BLACK	GROUND	X20- Gear Controller
AP Disable	BLACK	BLACK	BLACK / WHITE	(12 vdc) TRIM	R12 - 85
CHAN MEMORY CHANGE	BLUE	BLUE	BLUE / BLACK	GROUND	PIN 12 ICOM

This bolt can be moved in /out with spacer washers
so it activates the Proximity sensor

Part # APS4-12S-E-D

Align the prox so it just activates when the
canopy handle is in the LOCK position.
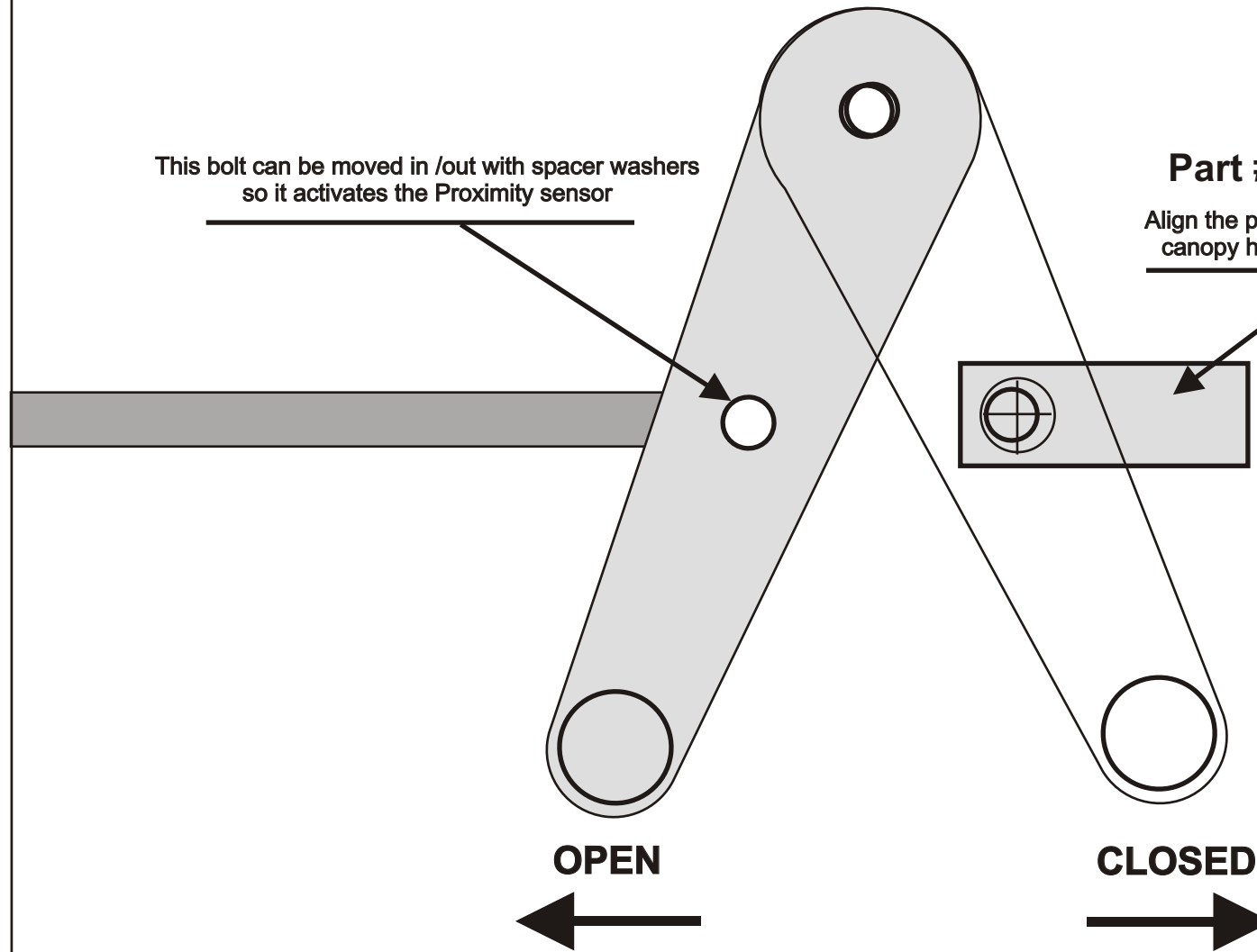
OPEN

CLOSED

CANOPY PROXIMITY SENSOR

9 April 2007