

1. Introduction

This document provides guidelines for the installation of multiple Remote Control Heads using KAA0629. Failure to adhere to these guidelines may result in diminished performance or physical damage to the radio. Installations should only be performed by BK Technologies authorized dealers or technicians.

2. General

Plan your installation carefully. Locate each of the Remote Control Heads within easy reach, giving the operator a clear view of the display. Please refer to KNG MOBILE RADIO INSTALLATION GUIDE (KAA0630) for installing the KNG mobile radio in the trunk. Refer also to KNG-M REMOTE INSTALLATION INSTRUCTION (KAA0638).

3. Recommended Installation Order

- 1. Install the KNG mobile using the KAA0630 installation kit.
- 2. Mount each of the Remote Control Head using KAA0638 installation kit.
- 3. Mount each of the KAA0629 Splitter boxes (item 11).
- 4. Route the Remote Control Head Power cable.
- 5. Route the KAA0629 Power cable (item 9).

4. Required Parts and Tools

- Small flat blade screw driver.
- Barrel crimper.
- KAA0630 KNG Trunk mount installation kit.
- KAA0638 KNG Remote Mount installation kit.
- KAA0629 Splitter Box installation kit.
- KAA0635 (8Ft), KAA036 (17Ft) or KAA0637 (25Ft).

5. Hardware Mounting and Wiring

Once the equipment location is chosen, determine the best routing for cables and wires to connect the system. Use rubber grommets to protect the wires when passing through sheet metal. Avoid any route that subjects the wire to pinching, cutting, or high heat from the engine or other vehicle components. Avoid splicing into old or existing lines.

The system must be used with a 12 volt DC, NEGATIVE GROUND electrical system.

5.1 Hardware Mounting

- 1. Determine a suitable location chosen by the user to mount each of the Remote Control Head. Use KAA0638 installation kit.
- 2. Determine a location for each of the Splitter box, making sure that it is within reach of the remote data cable ordered.  
Note: For a three Remote Head installation (Figure 3), four remote data cables (KAA0635-0637) and one Splitter box (KAA0629) are required.  
For a four Remote Head installation (Figure 4), six remote data cables (KAA0635-0637) and two Splitter box (KAA0629) are required.
- 3. Drill the pilot holes using the Splitter box as a template then fasten the Splitter box to the chassis using the four included metal screws (item 4).

5.2 Wiring

- 1. Carefully route the data cable for each of the connections indicated in the drawing.
- 2. Install the dc power cable to the splitter box. Using the supplied barrel crimp (item 3), attach the fuse holder (item 2) as close to the battery as possible as shown in figure 2. (NOTE: Only use 3 Amp rated fuse on the A+ line for remote head power cords.)
- 3. Connect the red power lead (with fuse assembly) to the vehicles POSITIVE battery terminal. Using other positive points is not recommended.

- 4. Connect the black lead to a good ground point on the chassis. Connection to the negative battery terminal is not recommended.
- 5. Connect the dc power cable to the splitter box terminal connector.
- 6. Connect each of the data cable to the splitter box.
- 7. If it is a 3-Remote Head installation with one splitter box, one data cable connects directly from one of the KNG-M data output ports to one of the KNG Remote Head. The other data cable connects from one of the KNG-M data output ports to the splitter box input port. Then connect two data cable from each of the splitter box data output port to two Remote Heads for a total of three Remote Head connections.
- 8. If it is a 4-Remote Head installation with two splitter boxes, connect the data cables (two cables) from each of the data output ports from KNG-M radio to each of the splitter box (two boxes) data input ports. Then connect four data cable from each splitter box data output ports to four Remote Heads data input ports for a total of four Remote Head connections.

6. Control Head Setup

- If more than one Remote Control Head or Handheld Conrol Head is used, then each control head address needs to be set. On each control head do the following:
- 1. Power off unit.
  - 2. While pressing the Home button, power on the control head.
  - 3. The "Configuration Menu" should be displayed. Select "Control Head Address" and select number for the control head. Each control head is to have a unique number.
  - 4. Press "ESC" to exit and the power will cycle on the unit.

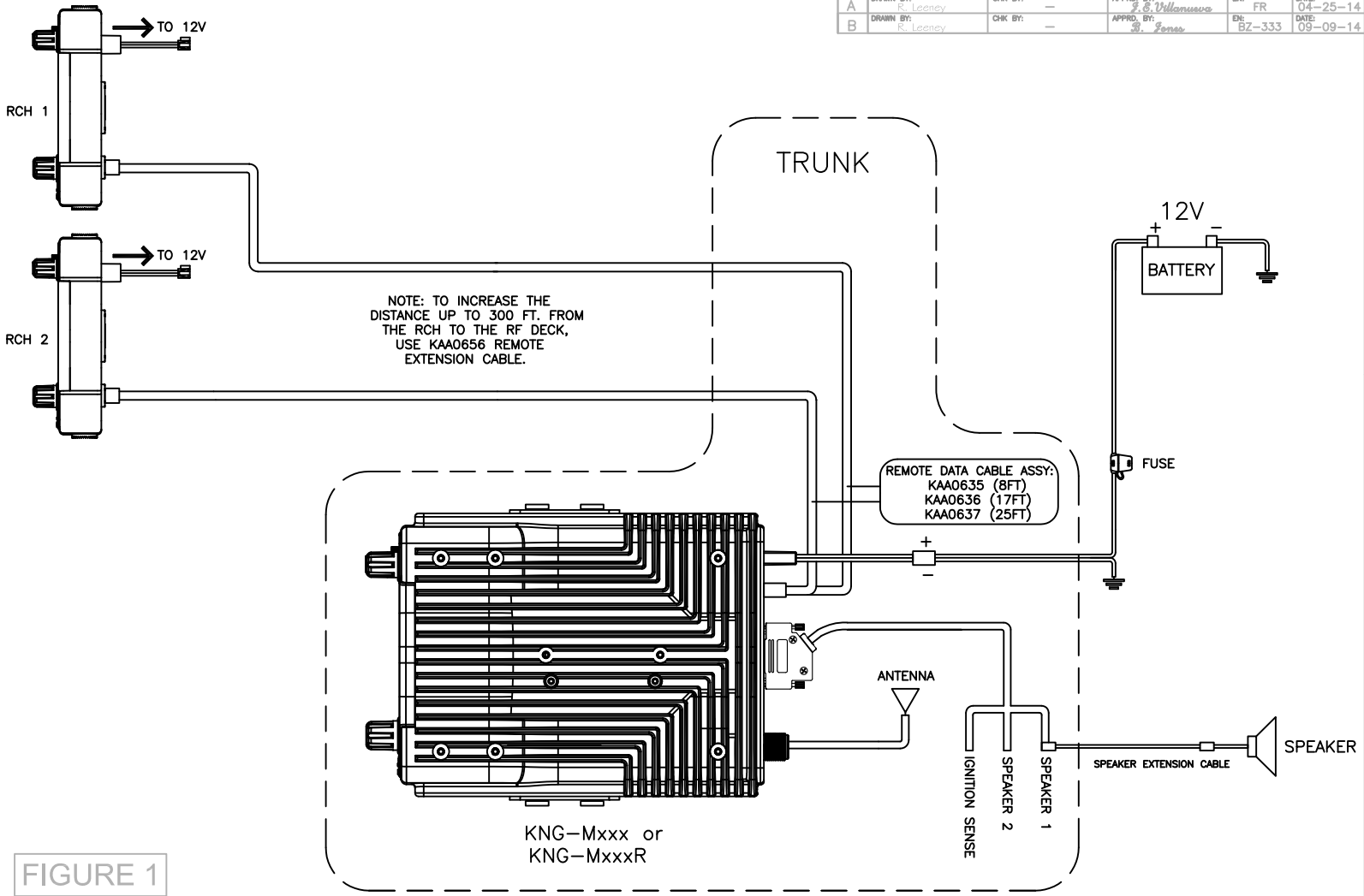


FIGURE 1  
FOR REFERENCE

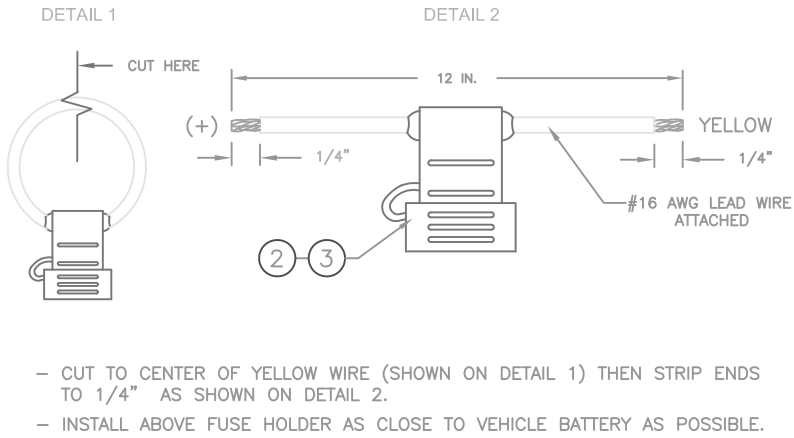


FIGURE 2

ZONE		LTR		REVISION		DATE	
A	FR	DRN	BY: S. Leoney	CHK	BY: —	APPR	BY: J. S. Villanueva
B	FR	DRN	BY: K. Leoney	CHK	BY: —	APPR	BY: J. S. Villanueva

KAA0629 — KIT, RCH EXPANSION SPLITTER BOX, KNG-M			
ITEM	PART NUMBER	DESCRIPTION	REMARKS
1	1404-31063-600	PACKING BOX, KAA0639	—
2	2100-30937-601	FUSE HOLDER, ATC, W/16GA LEADS	—
3	2107-30931-503	TERMINAL, BARREL-CRIMP, 16-14GA	QTY 2
4	2837-10000-023	SCR, 10x1, HWHslot, TYPE-AB, CD/2C	QTY 4
5	4101-00000-007	BAG, PLASTIC, 4x5x.0015	—
6	4101-00000-029	BAG, PLASTIC, 5x8x.0015	QTY 3
7	4101-00000-031	BAG, PLASTIC, 3x5-1/2x.002 IN.	QTY 2
8	5106-30937-703	FUSE, BLADE, 3-AMP	—
9	6006-31034-200	CABLE ASSY, POWER CORD, KNG-M REMOTE CTRL HEAD	—
10	7005-31068-900	INSTALLATION INSTRUCTIONS, KNG-M w/ MULTIPLE RCH TRUNK	THIS DWG
11	1404-31063-600	SPLITTER BOX ASSEMBLY, KNG-REMOTE	—

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE APPLIED FINISH TOLERANCES		TITLE: INSTALLATION INSTRUCTIONS, KAA0629	
TOLERANCES 2 PLACE DIM. 3 PLACE DIM. ANGLES ±.001 ±.0005 ±.001		DRAWING NO.: 7005-31068-900	
SCREW THREADS-AMERICAN NATIONAL CLASS CLASS-		SIZE B	SCALE: N.T.S.
THIRD ANGLE PROJECTION		REFERENCE: KAA0629	SHEET: 1 OF 2

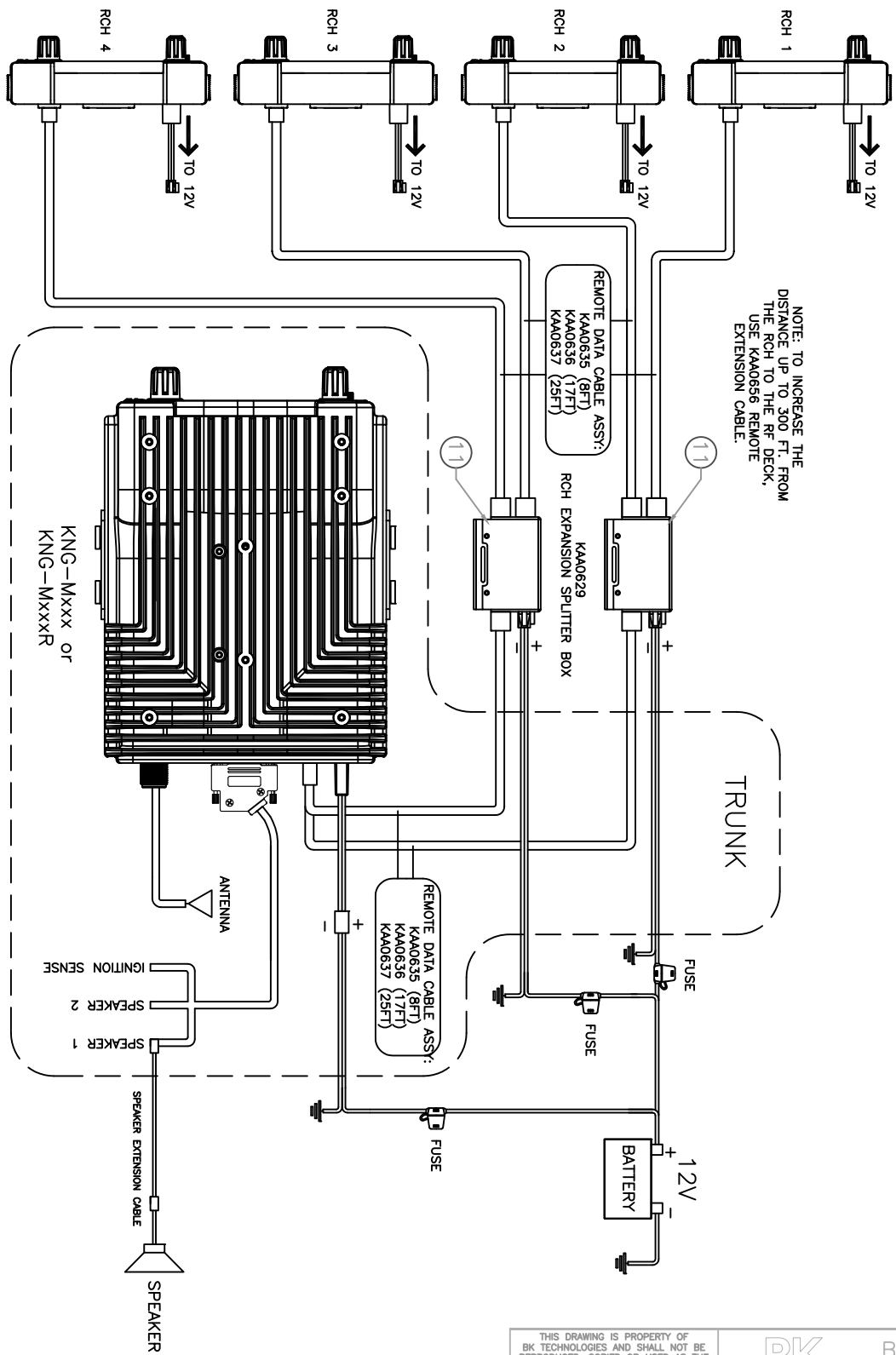


FIGURE 4

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TOLERANCES		INSTALLATION INSTRUCTIONS, KAA0629			
2 PLACE DIM. 3 PLACE DIM. ANGLES ± — ± — ± —		SIZE B			
SCREW THREADS—AMERICAN NATIONAL CLASS CLASS—		DRAWING NO.: 7005—31068—900			
THIRD ANGLE PROJECTION		SCALE:		REFERENCE:	
		N.T.S.		KAA0629	
				SHEET: 2 OF 2	

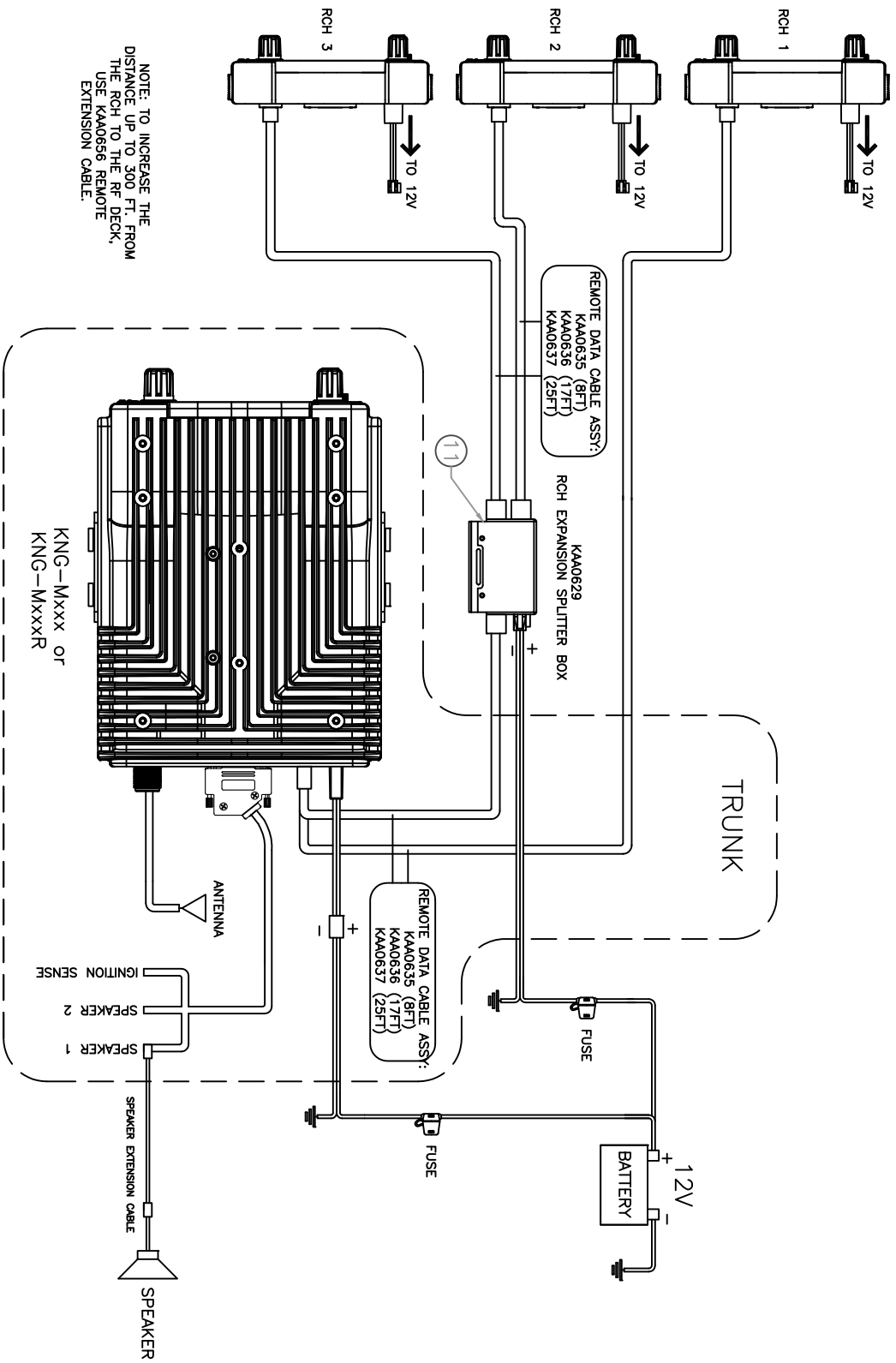


FIGURE 3