

AM and AM/FM Stereo Radios



JOHN DEERE

OPERATORS MANUAL

AM and AM/FM
Stereo Radios

OMTY20735 Issue I4 English

John Deere Merchandise Division
OMTY20735 Issue I4

LITHO IN U.S.A.
ENGLISH



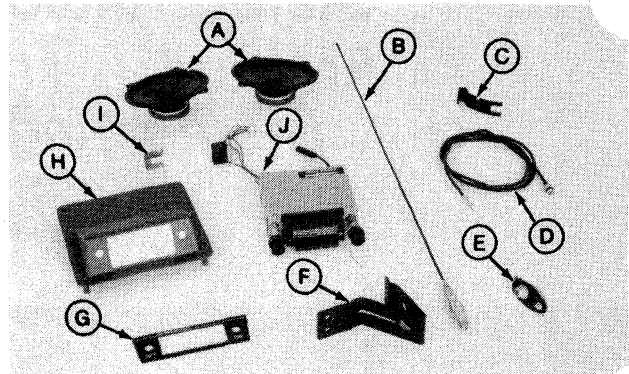
Introduction

Unauthorized modifications to the radio may impair the function and/or safety and affect radio life.

This operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

- A — Speakers (Sound-Gard Body Only) (Speaker Kit)
- B — Antenna (Sound-Gard Body Only) (Antenna Kit)
- C — Antenna Hold Down (Sound-Gard Body Only) (Antenna Kit)
- D — Antenna Cable (Sound-Gard Body Only) (Antenna Kit)
- E — Antenna Base (Sound-Gard Body Only) (Antenna Kit)
- F — Antenna Bracket (Sound-Gard Body Only) (Antenna, Kit)
- G — Trim Plate (Radio Kit)
- H — Radio Grille (Radio Kit)
- I — Rear Support Bracket (Radio Kit)
- J — Radio (Radio Kit)

IMPORTANT: The radios in TY15278 AM, and TY15279 AM/FM Stereo Radio Kits are of a high-powered output design and are only to be installed utilizing TY15157 or TY15164 Speaker Kit and TY15156, AH105035 or BE22118 Antenna Kit.



TY116

John Deere AM/FM Stereo Radio

Contents

	Page
CONTROLS AND INSTRUMENTS	2
INSTALL THE RADIO	3-8
Install Antenna (Sound-Gard Body Only)	3-5
Cut Headliner (Sound-Gard Body Only)	5
Cut Headliner (Sound-Gard Styled Cab Only)...	5
Install Radio	6-7
Install Speakers (Sound-Gard Body Only)	7-8
OPERATING THE RADIO	9
Adjusting Antenna Trimmer	9
Setting Push Buttons	9
TROUBLESHOOTING	10
SERVICE	11
Replace Fuse	11
Replace Speaker	11
SPECIFICATIONS	12

Controls and Instruments

CONTROLS (AM and AM/FM Stereo)

Use the ON-OFF and Volume Control (A) to turn radio on and off and to adjust sound volume level.

(AM/FM Stereo only.) Push AM/FM switch (B) to select AM or FM broadcast band. FM band is "IN" position and will light (GREEN) FM Indicator (C). AM band is "OUT" position and will light (RED) AM Indicator (D).

(AM/FM stereo only.) Push "DX/IN-LOC" switch (E) "IN" when tuned to weak (distant) stations. When tuned to strong (local) station set the switch to "OUT" position.

NOTE: Best FM reception will usually be with "DX/IN-LOC" switch set to "IN" position.

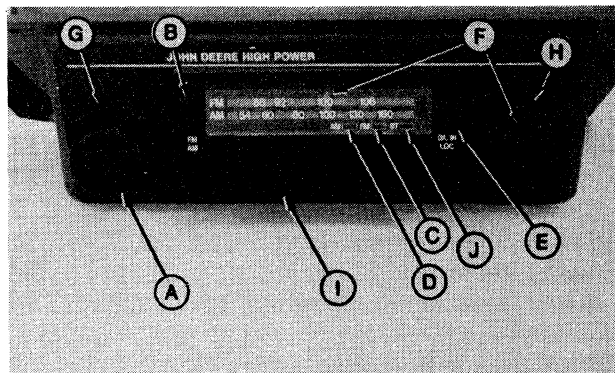
Turn the Tuning Control (F) to select desired station.

Use the Tone Control (G) to adjust sound tone from treble to bass.

Turn the Balance Control (H) to adjust sound level between left and right channels.

Push one of the five Push-Button Selectors (I) to select one pre-set station.

(AM/FM Stereo only.) Stereo Indicator (J) (GREEN) indicates when FM stereo broadcast is being received.



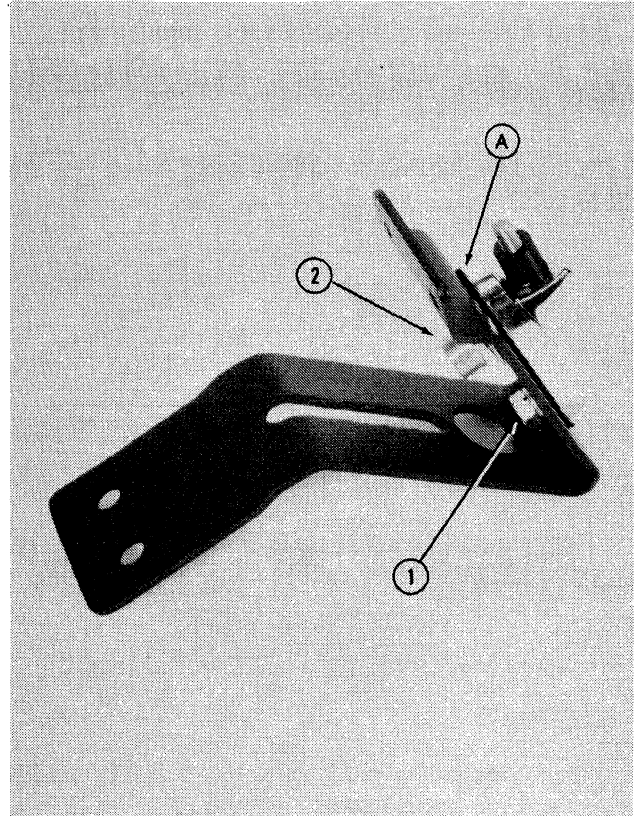
- A — ON-OFF and Volume Switch
- B — AM/FM Switch (AM/FM Stereo Radios only.)
- C — FM Indicator (GREEN) (AM/FM Stereo Radios only.)
- D — AM Indicator (RED)
- E — DX/IN-LOC Switch (AM/FM Stereo Radios only.)
- F — Tuning Control
- G — Tone Control
- H — Balance Control
- I — Push-button Selectors
- J — FM Stereo Indicator (GREEN) (AM/FM Stereo Radios only.)

Install the Radio

INSTALL ANTENNA (Sound-Gard Body Only)

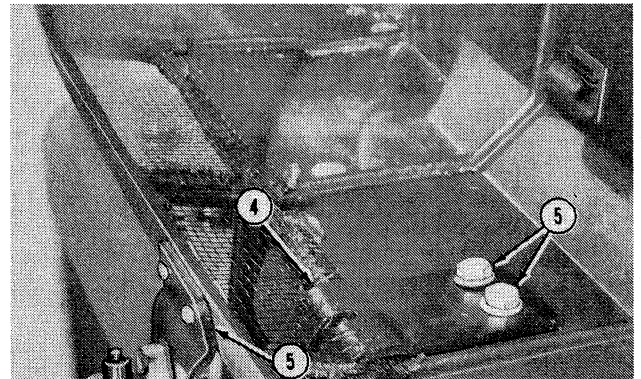
IMPORTANT: The radios in TY15178 AM and TY15179 AM/FM Stereo Radio Kits are of a high-powered output design and are only to be installed utilizing TY15157 Speaker Kit and TY15156 Antenna Kit.

1. Attach antenna base to bracket with 1/4-in. nut and lock washer. Make sure plastic insulator (A) is between base and bracket.
2. Thread 1/2-in. special nut and internal tooth lock washer onto base.



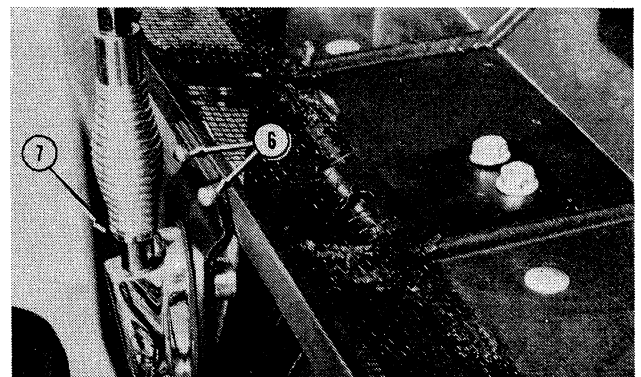
2A4;TY6653 Y05;7IS A 150884

3. (Not illustrated) Raise and secure outer roof of cab.
4. Slit screen of inner roof (rear of second slot from front) on left hand side of cab.
5. Insert bracket through screen and hold against outer edge of roof. Using bracket as template, drill two 9/32-inch (7-mm) holes in roof of cab and secure with two self-tapping screws.



2A4;TY6654 Y05;7IS B 041082

6. Using bracket as template, drill two 13/64-inch (5 mm) holes into outer edge of roof. Secure bracket to roof with two blind rivets. Make sure rivet heads are inside.
7. Thread antenna onto base using 1/4-inch lock washer.

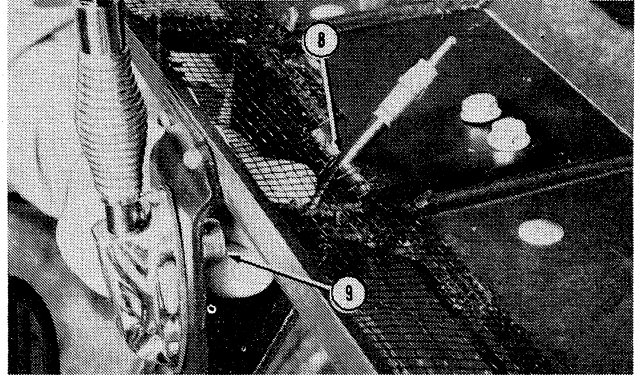


2A4;TY6655 Y05;7IS C 041082

Install the Radio

8. Insert male end of antenna cable through screen. Pull cable through leaving approximately 12-inches (305 mm) outside of screen.

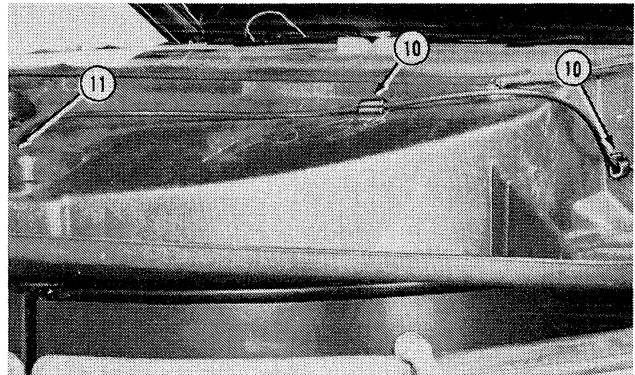
9. Connect female end of antenna cable to 1/2-inch special nut on base.



2A4;TY6656 Y05;715 D 041082

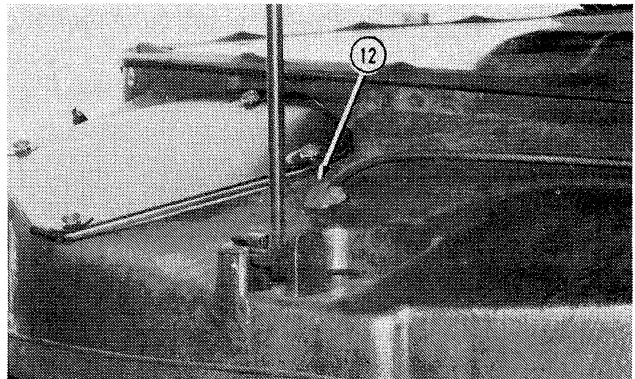
10. Secure cable in clips on inner roof.

11. Remove sealant from hole in center of roof. Insert cable through roof. Make sure excess cable is pushed into cab.



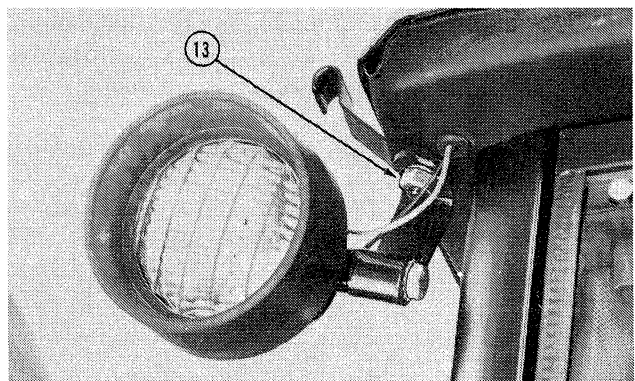
2A4;TY6657 Y05;715 E 041082

12. Replace sealant around cable. Put sealant into hole.



2A4;TY6658 Y05;715 F 041082

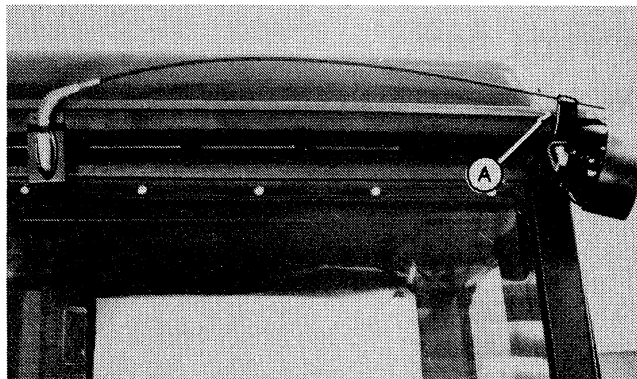
13. Install antenna hold down between roof and rear flood light bracket with existing hardware.



2A4;TY6659 Y05;715 G 041082

Install the Radio

NOTE: Hold down (A) is provided to secure antenna in horizontal position (below level of cab roof). This provides more clearance with overhead obstacles.



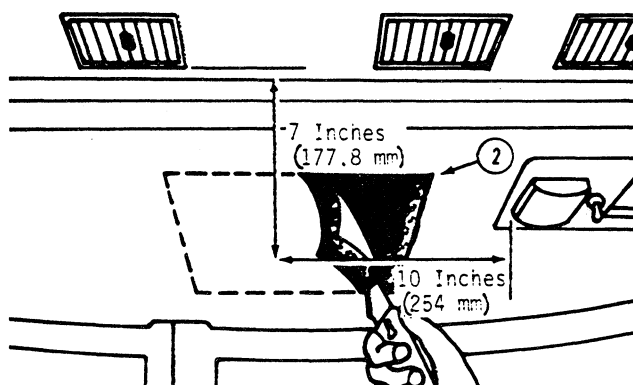
2A4;TY6739 Y05;715 H 041082

CUT HEADLINER (Sound-Gard Body Only)

1. Using a sharp knife, puncture hole in headliner approximately 10 ins. (254 mm) left of dome light and 7 ins. (177.8 mm) in front of air conditioning duct. Cut toward back of cab to metal frame.
2. Carefully cut around inside of metal frame and remove square portion of headliner.



CAUTION: Headliner material is made of pressed fiberglass. Do not let material come in contact with skin or eyes.



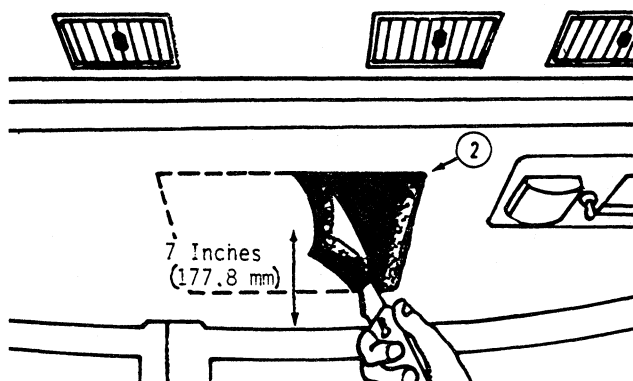
2A4;TY7142 Y05;715 I 041082

CUT HEADLINER (Sound-Gard Styled Cabs Only)

1. Using a sharp knife, puncture hole in headliner 7 ins. back from windshield in center of cab. Cut toward back of cab to metal frame.
2. Carefully cut around inside of metal frame and remove square portion of headliner.



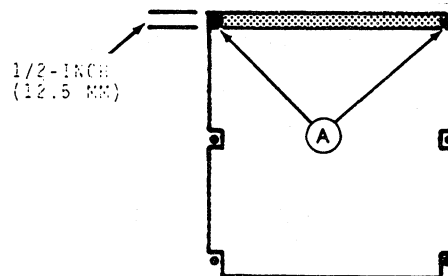
CAUTION: Headliner material is made of pressed fiberglass. Do not let material come in contact with skin or eyes.



2A4;TY7143 Y05;715 J 041082

3. Cut and remove an additional 1/2-in. (12.5 mm) of material from the rear square cutout to expose the rear mounting holes (A).

NOTE: Speaker kit and antenna kit must be installed before radio is installed. (These kits are factory installed for combines.)

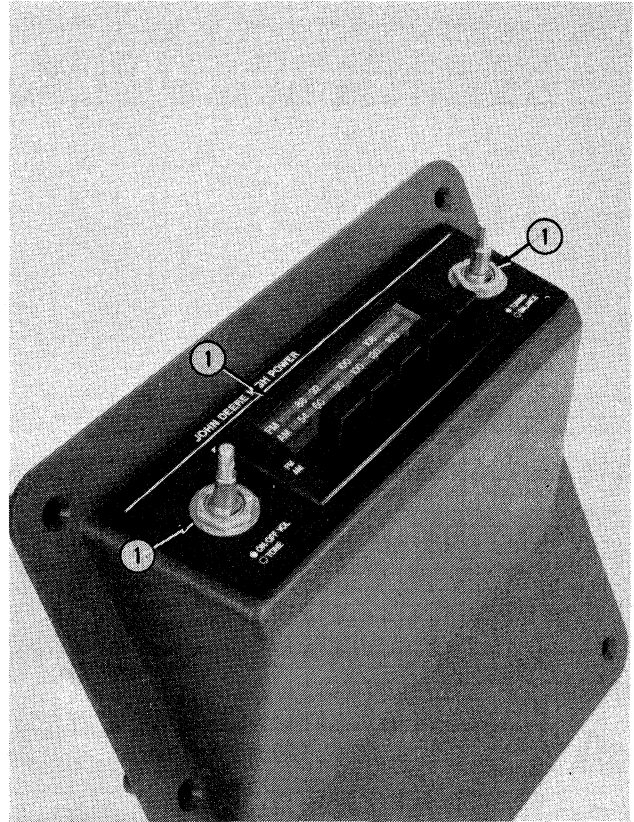


2A4;TY7144 Y05;715 K 041082

INSTALL RADIO

IMPORTANT: The radios in TY15178 AM and TY15179 AM/FM Stereo Radio Kits are of a high-powered output design and are only to be installed utilizing TY15157, TY15164 or TY15280 Speaker Kit and TY15156, AH105035 or BE22118 Antenna Kit.

1. Insert radio face through front of grille and trim plate. Thread special hex nut and 17/32-in. flat washer on both radio control shafts. Do not tighten.



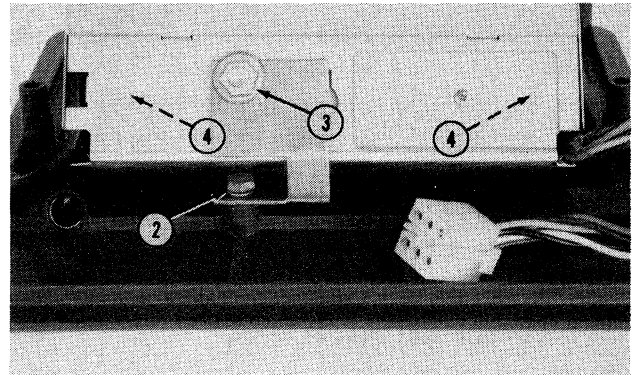
2A4;TY11636 Y05;7IS L 150884

2. Attach rear support bracket to grille using No. 8 hex head screw and internal tooth lock washer.

3. Secure radio to rear support bracket with 1/4-in. nut and lock washer.

4. Tighten nuts on radio control shafts and install tone, volume and tuning knobs.

AM/FM Stereo Radio Illustrated



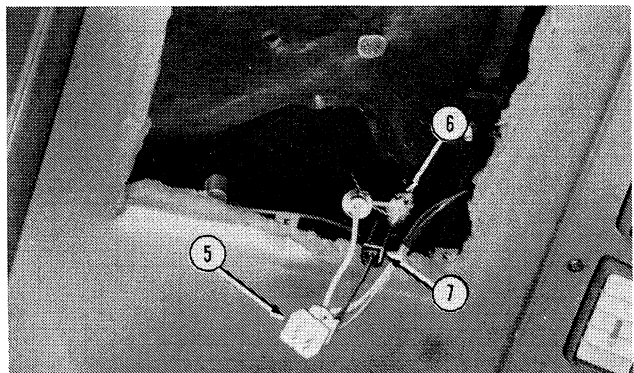
2A4;TY11637 Y05;7IS M 150884

5. Pull wiring harness through opening.

6. Connect fused power lead of wiring harness to Sound-Gard main wiring harness located on top of front headliner support.

7. (Sound-Gard Body Only) Connect ground lead of wiring harness to main Sound-Gard Body wiring harness.

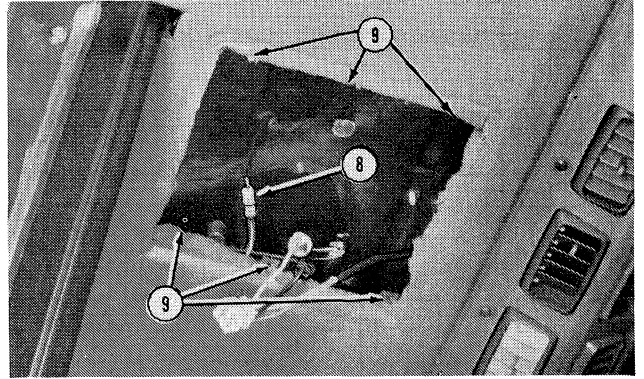
NOTE: Connect female connector on wiring harness to male connector on main Sound-Gard Body wiring harness and vice versa.



2A4;TY7145 Y05;7IS N 041082

Install the Radio

8. Pull antenna cable through opening.
9. (Sound-Gard Body Only) Attach six special nuts to metal frame.

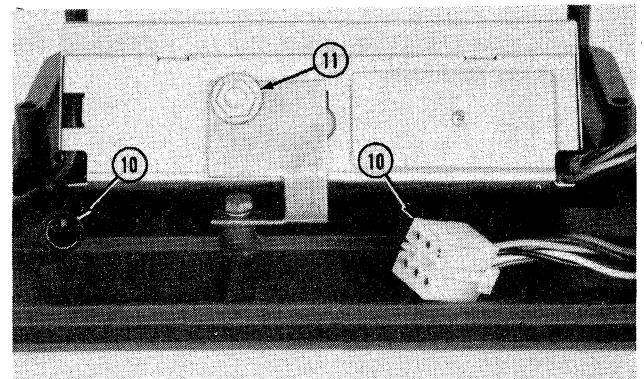


2A4;TY7146 Y05;7IS O 041082

10. Connect wiring harness and antenna cable to radio wiring harness and antenna lead.

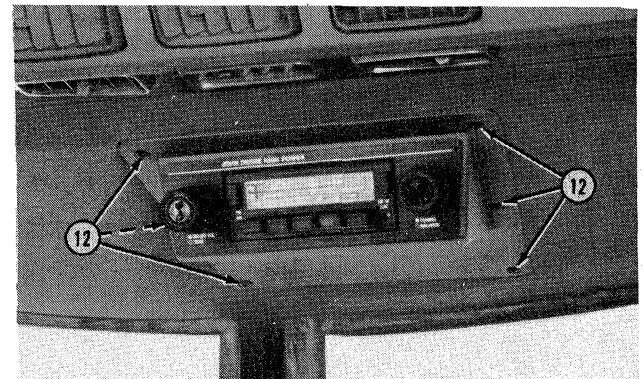
11. (Sound-Gard Styled Cabs Only) Secure wire with ground eyelet on Sound-Gard main wiring harness to rear support stud of radio.

AM/FM Stereo Radio Illustrated



2A4;TY11638 Y05;7IS P 150884

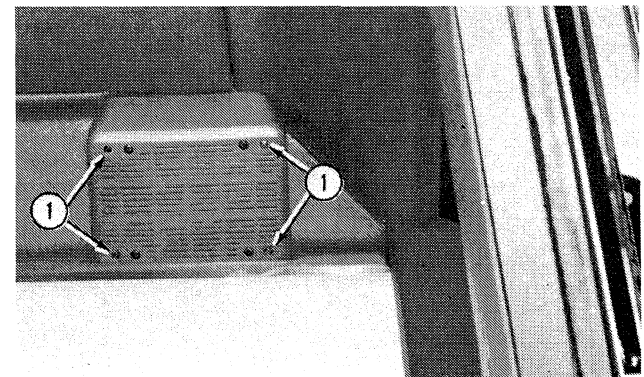
12. Position radio grille in headliner and secure radio grille to metal frame using six No. 10 self-tapping screws.



2A4;TY11639 Y05;7IS Q 150884

INSTALL SPEAKERS (Sound-Gard Body Only)

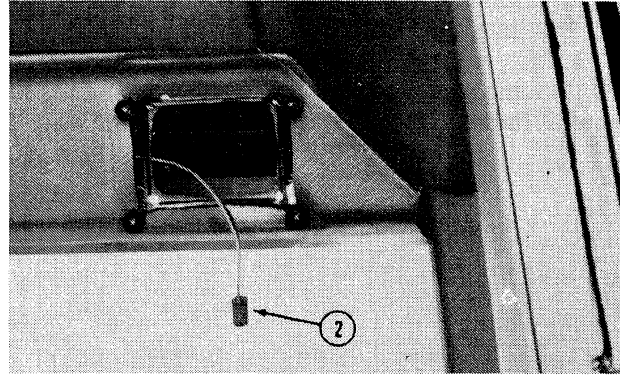
1. Remove grilles from back of headliner and save screws.



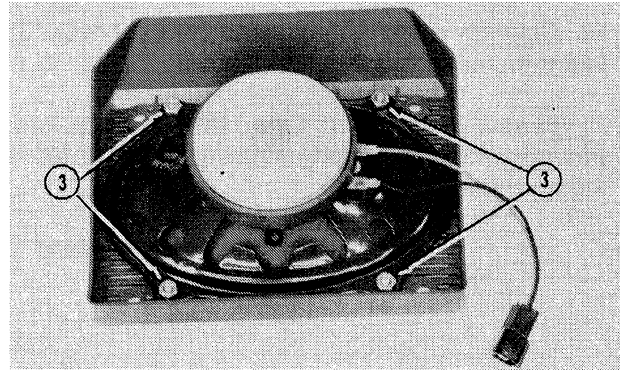
2A4;TY6665 Y05;7IS R 041082

Install the Radio

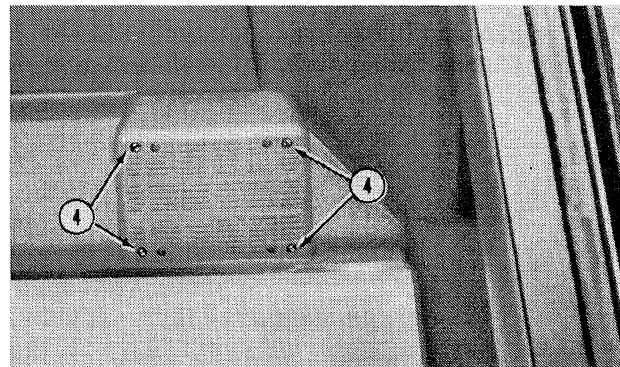
2. Pull wiring harness through speaker openings.



3. Attach speakers to grilles with four No. 10 special screws, lock washers and nuts.



4. Connect wiring harness to speakers. Install speaker and grilles in back panel with existing screws.

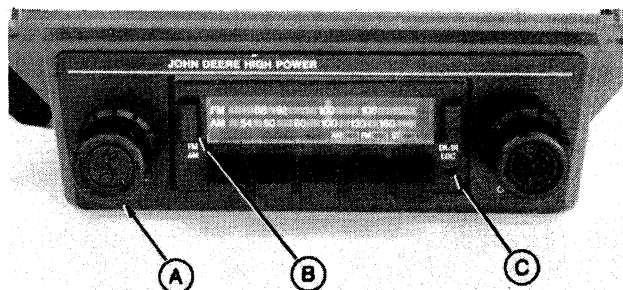


Operate the Radio

ADJUST ANTENNA TRIMMER (AM and AM/FM Stereo)

NOTE: Antenna must be in upright vertical position while making the following adjustments.

1. Turn ON-OFF and Volume Control (A) to the right to turn radio on.
2. (AM/FM Stereo only) Set AM/FM Band Switch (B) on AM band "OUT" position.
3. Tune in a weak station around 1400 kHz.
4. Adjust antenna trimmer (C) with screwdriver (1/16-in. or smaller) for maximum volume.

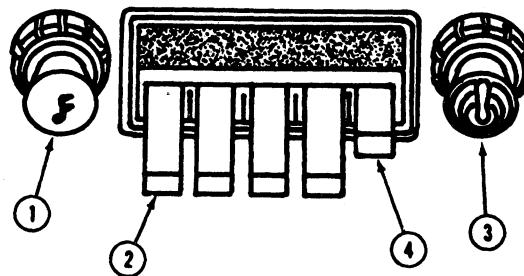


2A4;TY11640 Y05;70P A 041082

SET PUSH BUTTONS

NOTE: Antenna must be in upright position to make the following adjustment.

1. Turn radio on.
2. Pull all push buttons out.
3. Tune in desired station with tuning control. (AM/FM Band Switch must be on desired band on AM/FM stereo radios.)
4. Push one button in to lock to desired station.
5. Repeat steps 3 and 4 for remaining four buttons.



2A4;TY6856 Y05;70P D 150884

Troubleshooting

Trouble	Possible Cause	Remedy	Page
Radio not operating.	Ignition switch in "OFF" position.	Turn key to "ON"	—
	Blown fuse.	Replace fuse	11
	Poor connection to radio.	Check wiring harness	—
	Poor connection to speakers.	Check wiring harness	—
Poor Reception.	Station improperly tuned in.	Tune station with tuning control	2
	Push button improperly set.	Set push buttons	9
	Antenna in improper position.	Place antenna in upright position	—
	Antenna Trimmer improperly adjusted. (AM Radio reception.)	Adjust Antenna Trimmer	9
	DX/IN-LOC switch improperly set. (FM Radio reception only.)	Set DX/IN-LOC switch	2
	Poor antenna connection.	Check antenna cable connection	—
	Improper speaker balance.	Set balance control	2
	Damaged antenna.	Replace antenna	—
	Damaged speaker.	Replace speaker	11

Service

REPLACE FUSE

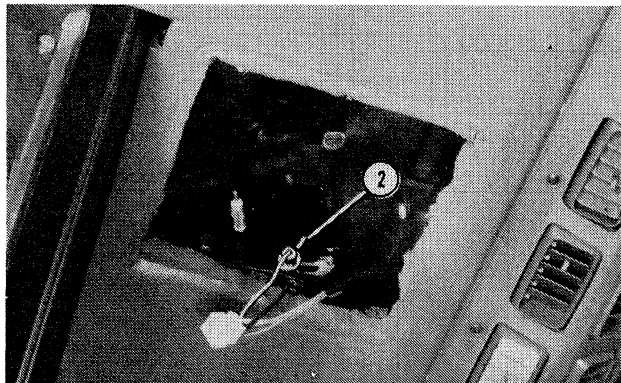
IMPORTANT: Radio grille should be held in place while removing screws to avoid damage to radio and wiring.

1. Remove six No. 10 self-tapping screws from grille.



2A4;TY11641 Y05;7SE A 150884

2. Remove fuse in wiring harness and replace with AGC 4-amp fuse.
3. (Not illustrated) Install radio grille back into headliner.



2A4;TY6737 Y05;7SE B 061082

REPLACE SPEAKER

1. Remove grille and speaker assembly from back panel.
2. Disconnect wiring harness from speaker.
3. Remove speaker from grille and replace with new speaker.
4. Connect wiring harness to speaker.
5. Secure grille and speaker assembly to back panel.

2A4; Y05;7SE C 061082

Specifications

SPECIFICATIONS

Supply Voltage	11 to 16 Volts
Maximum Output	15 watts per channel
Impedance	5.9 ohms
Fuse	AGC 4-amp Loacted in Sound-Gard Body wiring harness.
Speaker Size	4 in. x 6 in. (101.6 mm x 152.4 mm) (Sound-Gard Styled Cabs Only) 5 in. x 7 in. (127 mm x 177.8 mm) (Sound-Gard Body Only)
Tuning Range	540 kHz to 1610 kHz (AM) 87.5 mHz to 108.5 mHz (FM)
Antenna Length	34 in. (863.6 mm)

(Specifications and design subject to change without notice.)

MODEL AND SERIAL NUMBER RECORD

Record the model number and serial number of your radio in the space provided.

JOHN DEERE RADIO

Model No. _____

Serial No. _____

Date of Purchase _____

(To be filled in by purchaser.)

MEMORANDA

MEMORANDA

Service to keep you on the job

We, at your John Deere dealer's, pride ourselves in having what it takes to help keep you on the job . . .

John Deere Parts.

We help minimize downtime by putting the right parts in your hands in a hurry. That's why we maintain a large and varied inventory — to stay a jump ahead of your needs.



The right tools.

Precision tools and testing equipment enable our Service Department to locate and correct troubles quickly . . . to save you time and money.



Well-trained technicians.

School is never out for John Deere service technicians. Training schools are held regularly to be sure our personnel know your equipment and how to maintain it. Result? Experience you can count on!



Prompt service.

Our goal is to provide prompt, efficient care when you want it and where you want it. We can make repairs at your place or at ours, depending on the circumstances. See us. Depend on us.



John Deere Service Superiority: We'll be around when you need us

