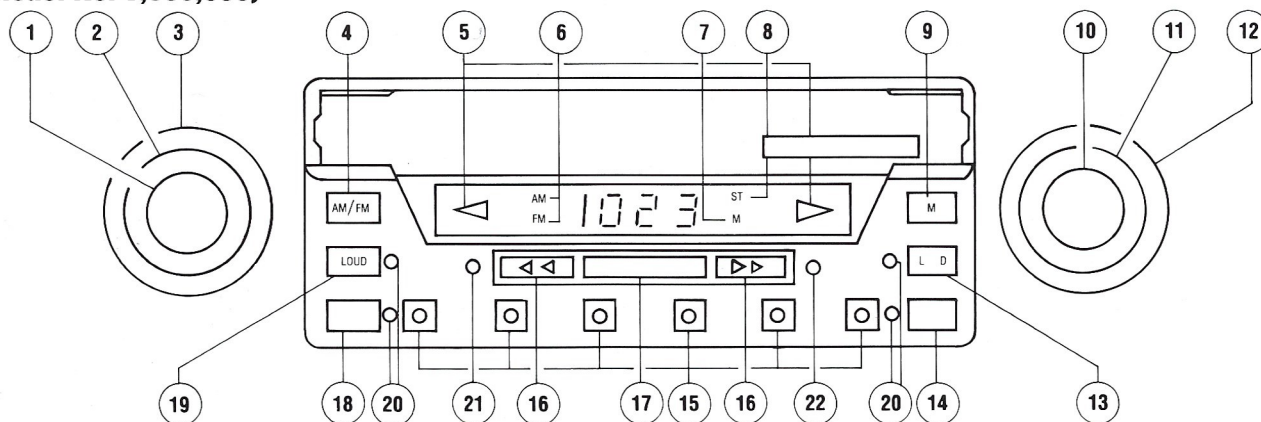


# ASI AUDIO SYSTEMS RADIO

(Model No. 5,000,000)



This radio may be original DeLorean equipment

- 1 On-Off Volume Control  
Push for Radio Station  
Seek  
Push for Tape Program  
Change
- 2 Treble Control
- 3 Bass Control
- 4 AM/FM Selector Button
- 5 Tape Direction Indicator Lights
- 6 AM/FM Indicator Lights
- 7 Memory Indicator Light
- 8 Stereo Indicator Light
- 9 Memory Activate-De-activate Button
- 10 Manual Tuning Control
- 11 Left-Right Balance Control
- 12 Front-rear Fader Control
- 13 Local/Distant Control
- 14 Dolby Noise Reduction Button
- 15 Radio Pushbuttons
- 16 Fast Forward/Rewind Controls
- 17 Tape Eject Control
- 18 Tape Equalization Button for Metal Tapes
- 19 Loudness Control
- 20 Function Lamps (On when Function is On)
- 21 Clock-Hour Set Control
- 22 Clock-Minute Set Control

## RADIO OPERATION

### TO TURN TAPE PLAYER OR RADIO ON (1)

The ON-OFF switch is combined with the VOLUME control, both of which are operated by the left front knob. Turn this knob clockwise until a "click" is heard, which indicates that the radio is now "ON." Further clockwise rotation will increase the volume.

### AM/FM SELECTION (4)

The desired broadcast band is selected by the AM/FM Selector Button which is the button marked "AM/FM." The radio has the FM and AM band indicators (6) located to the left of the Radio Frequency display and the appropriate indicator will light up depending on whether FM or AM band is operating.

### MANUAL STATION TUNING (10)

This radio is equipped with an electronic tuner. To tune to a station manually rotate the right front knob clockwise for up scale tuning and counterclockwise for down scale tuning. The frequency will appear on the digital display area of the radio. On the AM band the frequency will appear in steps of 10 KHz and on the FM band the frequency will appear in steps of 0.2 MHz. Each "click" while rotating the manual tuning knob will be one step on the respective broadcast band. Tune the set carefully until you are exactly on the station. This FM receiver is equipped with an automatic muting circuit. This circuit filters out virtually all off station background noise when tuning from station to station. Also, when background noise is greater than the transmitted station signal, both the station signal and background noise are muted (filtered) out.

### SEEK TUNING (1)

The SEEK tuning feature of this radio automatically locates the next strong station available on the radio dial when actuated. This feature operates in the up scale direction. The SEEK tuning feature is activated by pushing in the left front knob when in the radio mode. The radio automatically locates the next strong station and stops. This pro-

cedure can be repeated by pushing the left front knob again. Repeat until the desired station is being received. For maximum sensitivity of Seek Tuning feature, the L/D button (12) should be in the distant position.

### TUNING PUSHBUTTONS (15)

Each tuning pushbutton can be set to two stations, one on the AM band and one on the FM band. This provides a total of twelve stations which can be selected by pushbutton operation. Each tuning pushbutton also has a dual color LED light in its center. These lights allow the user to easily locate each pushbutton at night. The lights change from red to green to indicate the last pushbutton operated.

### MEMORY (9)

Set pushbuttons as follows:

1. Select the desired broadcast band with the AM/FM selector button (4).
2. Carefully tune to the desired station with the manual tuning control (10) or by using the SEEK tuning feature (1).
3. Press the top right button marked "ME" for approximately 3/4 second until the orange colored "M" appears on the display area (7).
4. Press one of the tuning pushbuttons. The "M" on the display area will glow indicating the button is now preset to this station.
5. Repeat steps 2-4 for the remaining buttons.

6. Set the AM/FM selector button (4) to the other broadcast band and set the six pushbuttons in the same manner as above.

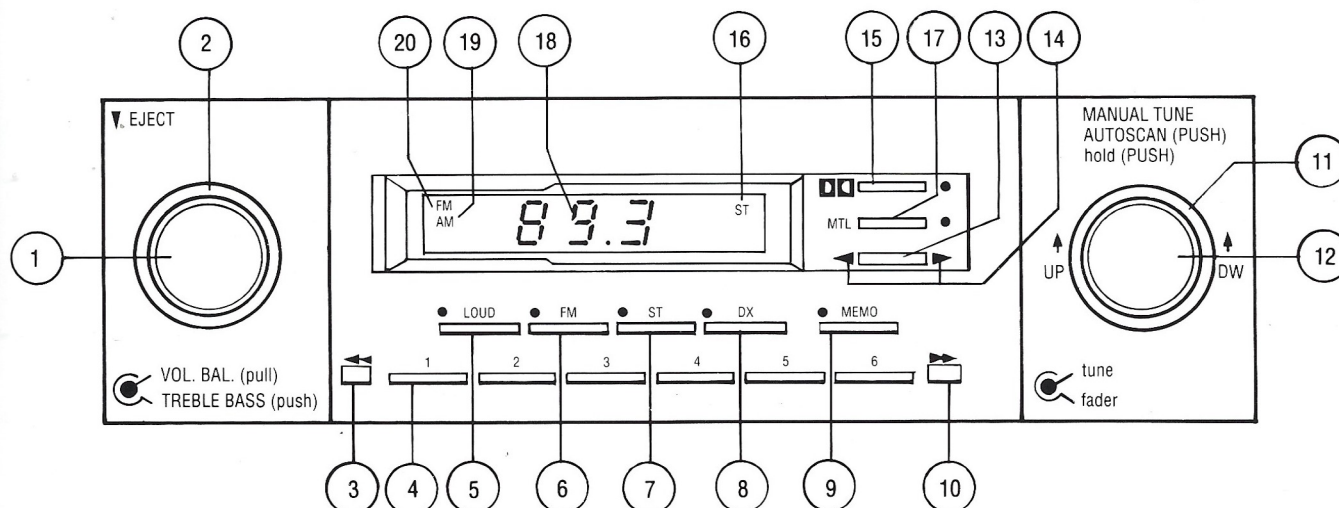
**NOTE:** THE ELECTRONIC CONTROL FUNCTIONS IN THE RADIO WILL NOT OPERATE PROPERLY IF POWER TO THE RADIO IS

CONTINUED ON PAGE 35

DELOREAN WORLD SPRING 1990



# CRAIG RADIO



This radio may be original DeLorean equipment

1. Power off/on, volume control. (Pull) Balance and (Push) Cassette Eject
2. Treble and (Push) Bass Control
3. Fast-Forward/Rewind Push Button
4. Station Preset Pushbuttons (6 AM & 6 FM)
5. Loudness Pushbutton and Indicator
6. AM/FM Pushbutton and indicator
7. Stereo/Mono Pushbutton and Indicator
8. Local/Distant Pushbutton and Indicator
9. Memory Enter Pushbutton and Indicator
10. Fast-Forward/Rewind Pushbutton
11. Fader Control (Front-Rear Speakers)
12. Tuning Control and (push) Station Scan
13. Tape Reverse Pushbutton
14. Tape Run Indicators
15. Dolby Noise Reduction Pushbutton and Indicator
16. Stereo Indicator (Red)
17. Tape Equalization Pushbutton (Metal Tapes) and Indicator
18. Frequency Display and Cassette Door
19. FM Indicator (Green)
20. AM Indicator (Orange)

## AM/FM-STEREO RECEIVER/ CASSETTE PLAYER (FIG. 14) SUMMARY OF OPERATION

### RADIO RECEIVER OPERATION

1. Rotate the VOLUME control clockwise to turn on power.
2. Select the AM or FM band desired. Push the FM button to illuminate the FM indicator placing the unit in the FM mode. Press the pushbutton again to return to the AM mode.

3. While observing the frequency display, rotate the TUNING control in either direction to select the desired station.
4. For stereo reception, press the ST (Stereo) pushbutton to illuminate the stereo indicator placing the unit in the stereo mode.
5. Adjust the VOLUME, TREBLE, BASS, BALANCE, and FADER controls as desired.

### TO PLAY A TAPE

1. Rotate the VOLUME control clockwise to turn on power.
2. Push the cassette (tape edge to the right, desired side up) into the cassette compartment. The tape will then be automatically drawn into the deck for play.
3. Adjust the VOLUME, TREBLE, BASS, BALANCE, and FADER controls as desired.
4. To eject tape, depress VOLUME control knob.

## OPERATION AND DESCRIPTION (FIG. 14)

The VOLUME, TREBLE, BASS, BALANCE, and FADER controls and the LOUD (loudness) pushbutton are used to operate both the radio and the tape player. The TUNING control, and the ST (Stereo) FM, DX (Distant), MEMO (Memory) and PRESET pushbuttons are used to operate the radio only.

The DOLBY, MTL (metal), REVERSE, EJECT, and << and >> Fast Forward/Rewind) pushbuttons are used to operate the tape player only.

Rotate the VOLUME control clockwise to turn on power and to increase the sound to a

comfortable listening level. The BALANCE control is controlled by the same knob and may be pulled lightly outwards and rotated either clockwise or counterclockwise to adjust the relative loudness of the left and right side set of speakers. The TREBLE control may be rotated to increase or decrease the treble frequencies. The BASS control is the same knob and may be depressed and rotated to increase or decrease the base frequencies. The FADER control may be rotated to adjust the relative loudness of the front and rear pair of speakers.

### DIGITAL DISPLAY

Whenever the radio is turned on, the digital readout will show the precise radio frequency that was selected when the radio was last turned off.

The display will indicate either the AM or FM mode in use. When in the FM mode, the letters "FM" will appear in green at the upper left hand corner of the display. In the AM mode the letters "AM" will appear in orange at the lower lefthand corner of the display. When the unit is in the FM mode and the ST pushbutton is pressed, the letters "ST" will appear in red at the upper right hand corner of the display if the station is broadcasting in stereo.

### FOR RADIO RECEPTION

Turn on the radio, following the instructions given in the summary of operation. Note that the radio will not operate while a cassette is playing. To receive FM broadcasts, press the FM pushbutton. The FM mode will be indicated by the illumination of



**CRAIG** (from page 29)

the FM indicator at the upper left hand corner of the pushbutton and by the FM indicator on the display. To receive FM Stereo broadcasts in stereo, the ST pushbutton must be pressed to illuminate both the ST indicator at the upper left hand corner of the pushbutton and the ST indicator on the display. The radio should normally be operated in the DX mode and should only be switched to Local in areas where signal strengths are very high, i.e., near station transmitters or where excessive interference is noted. To change the unit from the local to the distant mode, press the DX pushbutton. The DX mode will be indicated by the illumination of the DX indicator at the upper left hand corner of the pushbutton. The sensitivity of the radio is increased in the DX mode, enabling it to receive weak FM signals.

In some cases, the received signal may not be strong enough to provide noise-free stereo listening, or some adjacent channel interference may be heard while listening to a stereo program. If this occurs, press the ST pushbutton to extinguish the ST indicators and return the unit to the monophonic mode (a common signal is provided for both the left and right channels) and reception should be noticeably moved. The radio may be returned to the stereo mode whenever listening conditions permit.

To receive AM broadcasts, the FM pushbutton should be pressed to extinguish both FM indicators and illuminate the AM indicator at the lower lefthand corner of the display.

## CHANNEL SELECTION

The TUNING knob is a stepped control. Each "click" of the knob to the right advances the station frequency upward. Each click of the knob to the left decreases the station frequency.

You may also automatically scan upwards across either the AM or FM band by momen-

tarily depressing the TUNING knob. When this is done, the unit's scanning circuit is activated and the radio will tune upwards to the next strongest receivable station. It will then pause at this station for approximately five seconds and proceed to the next station on the band. THE UNIT WILL CONTINUE TO SCAN THE ENTIRE BAND UNTIL YOU AGAIN PRESS THE TUNING KNOB. The unit will then remain on the station which you have selected.

When the unit is scanning stations, it is important to note the position of the DX pushbutton. Because the sensitivity of the unit is increased in the DX mode (DC indicator illuminated), more stations will be received during scanning. If you wish to scan only strong local stations, press the DX pushbutton to extinguish the indicator.

## PRESET PUSHBUTTONS

The six preset pushbuttons may be used to recall your six favorite AM and six favorite FM stations. To preset stations on AM, first place the unit in the AM reception mode. Next tune the radio to your favorite AM station. Once the station has been selected, press the MEMO pushbutton and the indicator at the upper left hand corner of the button will illuminate. Within five seconds, press the pushbutton of your choice, and the MEMO indicator will go out. (If a preset pushbutton is not pressed, the MEMO indicator will go out after six seconds.) Whenever that preset pushbutton is pressed, the station you have assigned to it will be recalled. Repeat this procedure to preset other AM stations to the other five pushbuttons.

The procedure is the same to preset stations in the FM mode and stations on either reception band may be reassigned at any time and in any order you wish.

**NOTE:** In the event the vehicle's battery is disconnected or battery voltage is interrupted, all preset pushbutton selections will be cleared from the receiver's memory thus requiring resetting.

## LOUDNESS PUSHBUTTON

The LOUD pushbutton has been provided for both radio reception and cassette play. Because the ear becomes less sensitive to low bass and high treble frequencies at low volume, these sounds seem to become lost. Press the LOUD pushbutton to illuminate the indicator at the upper lefthand corner of the button and the normal balance of these frequencies will be restored.

## FOR TAPE PLAYBACK

Play the tape, following the general directions given in the Summary of Operation.

The cassette will immediately begin playing, and the side being played with be indicated by the illumination of one of the green

Tape Direction indicators located at either end of the REVERSE pushbutton. When the end of the tape is reached it will automatically reverse to play the other side. Tape programs may also be switched at any time by momentarily depressing the REVERSE pushbutton.

A desired tape selection may be more quickly located by running the tape in either direction at high speed. When the ► tape indicator (green) is illuminated, depressing the ►► (Fast-Forward/Rewind) pushbutton will cause the tape to run fast-forward and depressing the ◄◄ pushbutton will cause the tape to rewind. When the other side of the tape is played and the ◄ tape run indicator is illuminated, the functions of these pushbuttons are reversed. During either fast-forward or rewind, the tape may be returned to the play mode by partially depressing the opposite (released) pushbutton. When the unit is allowed to remain in the fast-forward or rewind mode, the unit will automatically return the tape to the play mode at the end of the tape. At the completion of the rewind, the tape will replay the same side of the cassette. At the completion of fast forward, the tape will begin to play the opposite side of the tape.

To eject the cassette, depress the VOLUME control. The cassette will also automatically eject whenever the power is turned off.

## DOLBY PUSHBUTTON

The Dolby indicator should be illuminated whenever Dolbyized cassettes are played. Press the Dolby pushbutton to turn the Dolby mode on or off. The Dolby Noise Reduction circuit properly decodes Dolbyized cassettes for reduced background noise and wider dynamic range. Turn the Dolby system off when playing non-Dolbyized cassettes.

## MTL PUSHBUTTON

The MTL pushbutton sets the proper equalization for either regular ferric oxide tapes or special CrO<sub>2</sub>(2), ferrichrome, metal, or other tapes requiring 70 microsecond equalization; turn it off for regular tapes (120 microsecond equalization).

## TO SHUT OFF ALL POWER

Rotate the VOLUME control counter-clockwise to turn off all power.

## CLOCK

To reset the clock, press the button on the left side of the clock for hours, and the button on the right side of the clock for minutes. If the electrical current has been interrupted, the display will flash, indicating a resetting is required.

Brightness of display is automatically reduced when exterior lighting switch is turned on.

## DeLorean World 1990 Closing Dates

Submissions - Advertising,  
Manuscripts, Photographs

Issue	Closing Date
Summer '90	April 1
Fall '90	July 1
Winter '90	October 1



**ASI** (from page 28)

INTERRUPTED. THE POWER INTERRUPTION COULD BE CAUSED BY DISCONNECTION OF THE BATTERY, OR LOW BATTERY VOLTAGE AS MAY OCCUR IN COLD WEATHER STARTING. DISCONNECTION OF THE BATTERY WILL CAUSE LOSS OF PUSHBUTTON STATION MEMORY AND THE TIME. THE MEMORY AND CLOCK WILL REQUIRE RESET-  
TING WHEN POWER IS RESTORED. LOW BATTERY VOLTAGE WILL CAUSE FAILURE IN THE SEEK TUNING OPERATION. THE SEEK TUNING WILL OPERATE PROPERLY WHEN POWER IS RESTORED.

## **STEREO INDICATOR LIGHT (8)**

An FM Stereo light, "ST," is located on the right side of the display area. This light will glow whenever the radio is tuned to an FM stereo station whose broadcasting signal is of sufficient strength. If the Stereo signal begins to weaken, the radio will automatically blend to monaural reception. The mono mode will increase the radio's ability to receive the weak signal. As the signal strength returns to a sufficient level the radio will automatically return to the Stereo mode.

## **LOCAL/DISTANT SELECTOR (13)**

The center button on the right side of the radio marked "L/D" is the Local/Distant Selector. When the small green indicator light is on the radio is in the 'Distant' mode. When the indicator light is off, the radio is in the 'Local' mode. This switch allows the user to discriminate the strong ('Local' position) from weak stations ('Distant' position) in the FM mode.

When the radio is in the Seek Tuning mode, this feature allows the use to discriminate the strong stations from weak stations on both the AM and FM bands. Your radio should be in the 'DISTANT' mode for best reception under most conditions, an exception would be in an urban area with tall buildings.

## **TREBLE CONTROL (2)**

The treble response can be adjusted to the desired level with the middle knob on the left side of the radio. Rotating clockwise increases the treble and rotating counterclockwise decreases the response. There is a detent position at the midpoint of the knob's rotation.

## **BASS CONTROL (3)**

The bass response can be adjusted to the desired level with the rear knob on the left side of the radio. Rotating clockwise increases the bass and rotating counterclockwise decreases the response. There is a detent position at the midpoint of the knob's rotation.

## **BALANCE CONTROL (LEFT-RIGHT) (11)**

Adjust the balance control with the right middle knob just behind the manual tuning

control to the point where the volume appears equal between the left and right speakers. This control has a center detent position where the volume is exactly equal between the left and right audio outputs of the unit.

## **FADER CONTROL (FRONT-REAR) (12)**

Adjust the fader control, the rear knob on the right side of the radio to the point where the volume appears equal between the front and rear speakers.

## **LOUDNESS CONTROL (19)**

Low volume levels are deceptive to the human ear in that the ear has a tendency not to hear the low and high frequencies (bass & treble) as clearly as the mid-range. The Loudness Control provides boost to the low and high frequencies to compensate for the ear's deficiencies. The Loudness Control is the middle button of the left side of the radio marked "LOUD." When the green indicator lamp is ON, the Loudness Control is ON. When the Lamp is OFF, the control is OFF.

## **CLOCK OPERATION**

With the ignition switch in the ON position and the radio on or off, the time of day will be displayed on the radio display. The radio frequency can be displayed by pressing the "CR<sub>2</sub>" button (18) or the Dolby NR button (14). The time will reappear after about five seconds. The time is also displayed when the tape player is operating.

## **TO SET CLOCK**

The time of day must be on the display to set the clock. The hour is set by pressing the small button (21) to the left of the fast forward/rewind buttons, with a pointed object such as a pencil point. The minutes are set in the same manner by pressing the small button (22) to the right of the fast forward/rewind buttons.

## **TAPE PLAYER OPERATION**

Insert the tape cassette into the tape slot until it locks into position. The unit is automatically switched to tape player operation and one of the green tape direction indicators (5) located on either side of the display area will be on. The various lights shown when the radio is on will not light up. They will come back on when tape is ejected and the lights relating to the cassette operation will go off.

## **PROGRAM CHANGE CONTROL (1)**

When the tape program reaches its conclusion the tape player will automatically reverse the tape direction and play the other program. To manually change the tape direction, push in the Volume control knob (1). The proper tape direction indicator (5) will light.

## **REWIND (18)**

To rewind the tape, depress one of the two

control buttons marked with arrows. The button with arrows pointing opposite the direction of the tape, as indicated by the lit tape direction indicator light (5) will rewind the tape in order to repeat sections of the tape program. The button will lock in position when pressed fully inward. It can be released by partially pushing in the Eject button. When the button is released, the unit will play at normal speed.

## **FAST FORWARD (16)**

The control button marked with arrows pointing in the same direction as the tape, as indicated by the lit tape direction indicator light, (5) will increase the tape speed when depressed. This function allows the location of other sections of the tape program. The button will lock when depressed fully inward. It can be released by partially pushing in the Eject button. When the button is released, the unit will play at normal speed.

## **EJECT (17)**

To eject the tape cassette push in firmly on the "EJECT" button and the cassette will be partially ejected from the tape slot. The unit is automatically switched to radio operation. AN IMPORTANT POINT - DO NOT LEAVE THE CASSETTE IN THE PLAY POSITION WHEN YOU TURN THE RADIO OR THE CAR ENGINE OFF.

## **DOLBY\* NR (NOISE REDUCTION) CONTROL (14)**

This tape player is equipped with a noise reduction circuit developed by Dolby Laboratories. It reduces to a minimum the noise commonly referred to as "tape hiss" and improves the reproduction of the high frequency sounds. This circuit will best affect tapes recorded using the Dolby NR process. They will be identified by the "Double-D" symbol and the words "DOLBY SYSTEM" printed on the label. The tape player's Dolby NR circuit is controlled by the bottom button on the right side of the radio marked with the "Double-D" symbol. Press the button when playing tapes recorded with the Dolby Noise Reduction process. The function is ON when the lamp is ON.

*\* Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation. 'DOLBY' and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.*

## **TAPE EQUALIZATION CONTROL (18)**

The button in the lower left corner of the radio marked "CR<sub>2</sub>" selects the proper tape equalization value of 120 microseconds for normal tapes and 70 microseconds for chrome tapes. Push the button when using hi-bias chrome tape to achieve more faithful reproduction. The function is ON when the green light is ON.

