■ FUNCTION

1. General

The main functions of the multi display are shown below:

Main Function		Outline
Apps Screen	Navigation	Through the use of the Global Positioning System (GPS) and map data which is stored on a micro SD card, the navigation system analyzes the position of the vehicle and indicates the position on the map that is displayed on the screen.
	Audio	Serves as the display and controls for the following: ● Radio operation ● HD Radio operation* ● XM Satellite Radio operation* ● CD operation ● Bluetooth-compatible portable player operation ● USB memory operation (USB type) ● Portable audio player operation (AUX type) ● iPod/iPhone operation
	Phone	When a Bluetooth-compatible cellular telephone is registered to the navigation system, the driver can make and receive calls or talk hands-free on the cellular telephone by operating the switches on the screen/steering pad.
	Setup	Each item can be set. For details, see page 101.
	Traffic	Displays a list of incidents, estimated traffic information and traffic information on the stored route while receiving data from HD radio*.
	Weather	Displays weather information and Doppler weather radar information of the current location or selected city while receiving data from HD radio*.
	Maintenance	The maintenance information function can be used to inform the driver of the inspection or replacement timing of the following items based on the calendar function and distance driven. ● Engine oil: Replace engine oil ● Oil filter: Replace engine oil filter ● Rotation: Rotate tires ● Tires: Replace tires ● Battery: Replace battery ● Brake pad: Replace brake pads ● Wipers: Replace wiper blades ● Coolant: Replace engine coolant ● Brake oil: Replace brake fluid ● Trans. fluid: Replace ATF ● Service: Scheduled maintenance ● Air filter: Replace air filter ● Personal: New information items can be created separately from the provided items
	Apps	The Entune service is supported. This service makes it possible to operate specified applications on the navigation system by using Bluetooth to connect the navigation system to a cellular phone with the Toyota Entune application installed.

(Continued)

Main Function		Outline
Speech Command System		Operates the navigation, audio, and hands-free systems based on voice commands.
Rear View Monitor System		Displays a view of the area behind the vehicle that is captured by the television camera mounted on the tailgate when the shift lever is moved to R.
Others	Language Select	The language of the screen buttons, pop-up messages and the voice guidance can be changed. English, French and Spanish are available.
	Reorder Audio Sources	Audio sources can be reordered based on user preferences.
	Reorder Icons	Each icon on the Apps screen can be ordered based on user references.
	Home Screen Setting	The widget displayed on the home screen can be changed based on user preferences.
	Smart Agent	Remembers multiple user settings (time, radio presets, etc.) and links them to the user's cellular phone. By recognizing the user through Bluetooth, user settings are automatically changed to match the user.
	Beep Setting	The beep sound can be turned off.
	Keyboard Layout	The keyboard layout can be changed.
	Delete Personal Data	The following personal data can be deleted or returned to their default settings: ● Maintenance conditions ● Memory point ● Password settings for backing up and copying memory points ● Areas to avoid ● Previous points ● Route guidance ● Route trace ● Phonebook data ● Call history data ● Voice tag ● Favorites data ● Bluetooth phone data ● Bluetooth device data ● Phone sound settings ● Phone display settings ● Message settings ● Search engine settings
	Screen Adjustment	The brightness or contrast of the screen can be adjusted to suit the brightness of the surroundings.

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Main Function		Outline
Others	Diagnosis	This menu contains the following items: ● Failure Diagnosis – System Check – SD Check – Diagnosis Recorder ● Function Check/Setting – Panel and Steering Switch – Touch Switch – Mic and Voice Recognition – Color Bar – GPS and Vehicle Sensors – Vehicle Signal – HF Voice Quality Setting ● Service Information – Program Update – Version Information – Memory Point Backup

*: Only available in HD Radio broadcast areas.

2. Navigation Screen

The functions of the navigation screen display are shown below:

Item		Function
Map Display	2D Map	Displays a normal 2-dimensional (2D) map.
	Moving (Scrolling) Map	Scrolling the map is possible by flicking the screen.
	North Up/Heading Up	● If North Up is selected, regardless of the direction of vehicle travel, north is always up. ● If Heading Up is selected, the direction of vehicle travel is always up.
	3D City Model Map	● Displays some areas of major cities on the 3-dimensional (3D) city model map when the map scale is set to 300 feet or less. ● Always displayed in Heading Up mode.
	Multi-step Scale Display	Changes the map scale in 14 steps.
	Direct Scale Change	Directly selects and displays the map scale.
	Street Name Indication on Scrolled Map	Displays the street name and city name even when the map screen is being scrolled.
	Footprint Map	Displays a major city in a scale of 25 m (75 ft.).
	Road Number Sign Board Display	Displays the road number on the map.
	Point of Interest Display	● Displays selected types of points of interest as marks on the map. ● If a route to the destination exists, facilities along the route are measured and displayed in territorial units.

(Continued)

Item		Function
Map Display	Speed Limit Display	Displays a speed limit icon on the map screen when driving on a major road.
	Multiple Display Function	Displays different modes on a screen that is split into 3 views or 2 views.
	Compass Mode Screen	Displays the direction of travel and detailed data of the present location.
	Route Guidance Demonstration	Demonstrates the route guidance to the destination.
	Route Trace	● It is possible to store up to the last 1000 km (620 miles) of a traveled route and retrace the route on the display. ● Available when the map scale is set to 50 km (30 miles) or less.
	Traffic Information Display*	Displays traffic data such as icons, arrows and indicators received using HD radio contents.
	Weather Information Display*	Displays realistic Doppler weather images received using HD radio contents.
	Traffic Prediction	Measures traffic using supplied forecast data and displays traffic predictions 15, 30 and 45 minutes into the future.
	New Route Map Display	Through the use of Dynamic Route Guidance (DRG), the user can compare and select either the current or new route when a new route is found using traffic jam and regulation information.
	3D Display	Displays a 3-dimensional (3D) view of the map.
	Route Display	Displays route in different colors depending on traffic conditions.
	3D Land Mark Display	Displays important landmarks in 3-dimensions (3D) for use when driving.
	Dual Map	Displays 2 independent maps side by side. 2D/2D, 2D/3D and 3D/3D displays are available.
	Avoid Area Display	Displays a square centered on the user designated point.
	Guidance Mark Display	Displays a mark on the map to support the user while driving.
	Off-route Arrow Display	When off route, displays an arrow in the direction of the destination.
	Day/Night Mode	Changes the map between day and night mode.
	World Map	Displays the map past Southern Mexico.

(Continued)

Item		Function
Destination Search	Preset Destination Memory Search	Sets a pre-registered point as a destination point while driving.
	Address Search	A destination can be set in 2 ways: ● Information can be entered in the order of: city name, street name and house number. ● Information can be entered in the order of: house number, street name and city name.
	Point of Interest Search	A destination can be set in 3 ways: ● The name of a POI can be entered and then searched for from City or Category. ● A POI category can be selected and a point of interest searched for near the present location, along the current route, near the city center or near the destination. ● The phone number of a point of interest can be entered to search for it.
	Street name body search	User only needs to input body of street name, suffix not required (but allowable)
	Previous Destination Search	Stores the coordinates, names, and date of up to 100 locations that have been set as destinations in the past.
	Address Book (Memory Point) Search	Sets a destination from the registered Address Book (Memory Point).
	Emergency Search	Performs a specific search for police stations, hospitals, Toyota dealers and fire stations.
	Intersection or Freeway Entrance/Exit Search	Searches for the destination by the name of the street that connects to a freeway entrance or exit.
	Map Search	A destination can be set by using the cursor on the map.
	Coordinate Search	A destination can be input by entering its coordinates.
	Voice-recognition Search	A destination can be set up by voice command input.
	Intersection Search	Sets two different streets and searches for the corresponding intersection.
	Generate nearby gas station list at one-touch	The user can display a list of nearby gas stations by using the one-touch button on the panel.
	Genre Search of Nearby Facilities	Lists the facilities displayed by icons on the map.
	Map Scroll Search	Displays the map from the previous screen and sets the destination.
	Surrounding Area Search	Displays a map of the surrounding area and searches for a specific point.
	Return Home (Shortcut Search)	Displays a map of the area around the registered home and searches for a specific point.
	Entune Search	A point searched for using Entune content can be set as the destination.
	Street Name Abbreviation Search	Searches using a street name abbreviation.

(Continued)

Item		Function
Route Search	Multiple Destination Setting	Sets multiple destinations. It can also rearrange the sequence of the destinations.
	Multiple Route Search	Searches for multiple routes.
	Search Condition Designation	Searches for the quick, alternate, and short routes.
	Reordering Destinations	Changes the order of destinations when more than one destination is selected.
	Detour Search	Changes the route to detour around a section of the route.
	Traffic Congestion Information Consideration	Performs searches which consider traffic congestion information.
	Avoidance Area	Automatically changes to another route to avoid heavy congestion.
	National Border Conscious Search	Searches for routes that do not cross the border of U.S.A., Canada or Mexico.
	Seasonal Restrictions Search	Search by choosing whether to use routes that pass through seasonally restricted areas.
	One-touch Home Search	Search for the registered home with a single touch.
	Freeway Avoid Search	Searches for routes that do not use freeways.
	NavTraffic Information Search	Searches using current HD radio and UIE traffic information.
	Recalculate Route	When the user vehicle deviates from the route while being guided by the navigation system, the system automatically searches for a new route using the current position.
	Alternate Road Search	Switches between using general roads or toll roads when performing a search from the currently traveled road.
	Set Waypoint	Up to 5 waypoints can be set.

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Item		Function
Guidance	Voice Guidance	Provides voice guidance about the distance and the direction of travel to a destination point based on road conditions and vehicle speed.
	Next Turn Guidance	Provides guidance about the distance to the next turn and indicates the direction of the turn using an arrow.
	Freeway Mode Display	Displays the distance to the next junction and exit, or POIs in the vicinity of the freeway exit.
	Freeway Direction of Travel Display	Displays the junction and signage in 3D in the vicinity of a major junction while driving.
	Freeway Branch Diagram Display	Provides guidance using a patterned diagram at freeway branch points (IC entrances, IC exits, rest areas and junctions). The branch point name is displayed in the upper right of the diagram. The lane is also displayed if information is available.
	Tollgate Guidance	Provides guidance for tollgates located on the main road.
	Shield Icon	Freeway shield icons will be displayed on the 3D guidance screen.
	Intersection Zoom-in Display	Zooms in the map display when approaching an intersection.
	Turn List Display	Displays the name of the road taken at an intersection, direction of travel and distance to destination.
	Arrow Display	Displays the direction when entering and leaving the next branch in the upper right of the map screen.
	Street Name Guidance	Provides voice guidance using existing street names through a text-to-speech engine.
	Route Information Bar Display	Displays the following information: ● Street name of the current location ● Distance and travel time to the destination ● Distance to the destination and estimated time of arrival ● Distance to the destination and an arrow facing the destination (Case of being off the route during the guidance)
	Guidance through traffic circles or round-abouts	A special guidance can be given when driving in a traffic circle or when approaching a traffic circle.
	Guidance Point junction Mark Display	Displays marks at the positions of junctions along the route on the map.
	Interval Guidance (On-route Guidance)	After passing through a junction, provides voice guidance such as “Continue on this road for XX km”.
	Junction Guidance	Provides guidance using voice guidance and maps when entering and leaving junctions.
	Replay Guidance	Replays junction and other voice guidance by user operation (pressing the current position switch).
	Arrival Guidance	Notifies the user by voice guidance when approaching the destination.
	Ferry Route Guidance	Ferry routes are displayed on the map using dotted lines. Provides voice guidance from general roads to the ferry terminal, and then reactivates guidance after getting off the ferry.

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Item		Function
Guidance	Door-To-Door Guidance	Provides voice guidance for narrow streets.
	T shape guidance	Provides voice guidance such as “Turn XX at the end of the road” when approaching a T-intersection.
	Total Route Diagram	Displays on the screen information such as the total distance to destination, distance traveled and ferry usage.
	Detailed Route Information	Displays the total distance to destination, distance traveled on toll roads, total cost and remaining time to destination in a list for each route.
	Route Starting Guidance	After a route is determined, a voice guidance explaining the roads to travel and the destination is given.
	Estimated Arrival Time Display	Calculates and displays the estimated time of arrival based on the set average vehicle speed. When there are multiple destinations, it is possible to switch to displaying the estimated time of arrival and total distance to a waypoint.
	Remaining Distance Display	● Displays the remaining distance from the current location to the destination. ● Displays the distance in a straight line from the current location to the destination when deviating from the navigation route.
	Destination Direction Arrow	Displays the direction of the destination when deviating from the navigation route.
	Traffic Jam and Regulation Voice Guidance	Provides voice guidance for traffic information along the route.
	Guidance pop-up	The user can enable or disable the automatic visual guidance pop-up display.
	Continue Guidance	Voice and visual guidance is given to urge the user to continue driving on the current freeway without accidently exiting to another freeway. This guidance is available only at the major freeway junctions.
Others	Voice Recognition	Recognizes pre-programmed system commands spoken to operate the navigation system.
	Map Coverage Information Display	Displays the map area that is stored on the SD card.

*: Only available in HD Radio broadcast areas.

3. Setup Screen

The settings for the functions of the multi-display are available from the setup screen.

Item	Outline
General Settings	● Time zones and the on/off setting of daylight saving time and automatic adjustment of the clock can be changed. ● The beep can be turned off. ● The language can be selected. ● The color of the screen buttons can be changed. ● Keyboard layout can be changed. ● The opening image can be changed. ● The splash screen that displays when turning off the screen can be changed. ● Automatic return to the home screen after completing operations on audio and other operation screens can be set. ● Automatic return from the audio screen, etc. to the home screen after audio operation can be changed. ● Registered information (personal data) can be cleared. ● Navigation system program can be updated. ● Gracenote database can be updated. ● Third party software information used in the navigation system, such as notices, can be enlisted.
Voice Settings	● The voice guidance volume can be adjusted. ● Voice guidance during route guidance can be set. ● Voice recognition prompts can be set. ● The voice recognition function using the expanded voice commands can be set. ● Desired guidance tone can be set.

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Item	Outline
Screen Settings	General and camera screen adjustment
Bluetooth Settings	● Bluetooth devices can be registered. ● Bluetooth devices can be deleted. ● Bluetooth devices can be selected. ● Bluetooth devices can be edited. ● Bluetooth system settings can be changed: – Automatic connection to a Bluetooth device – Bluetooth device name – Bluetooth device PIN-code – Bluetooth device address – Display of Bluetooth device connection status – Bluetooth device profile
Phone Settings	● A Bluetooth phone can be registered or connected. ● Phone sound settings can be changed: – Call Volume – Ring Tone Volume – Ring Tone ● Contact/Call history settings can be changed: – Change Contacts – Change Favorites – Delete Call History ● Message function settings can be changed: – Message forwarding from cellular phones – New message notification display – New message voice notification – Adjust the new message notification volume – Select a new message voice notification tone – Automatic message read out – Adjust the message read out volume – Read and unread status update – Edit “Quick Reply Messages” ● Phone display settings can be changed: – Change the incoming call display – Display of the automatic phonebook transfer completion message (for PBAP compatible models) – Display of the automatic call history transfer completion message (for PBAP compatible models) – Display of images during calls (for PBAP compatible models) – Orientation of images displayed during calls (for PBAP compatible models)

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Item	Outline
Audio Settings	Settings can be changed for the following audio items: – Number of Radio Presets – iPod/USB Auto Play – Display Cover Art – Automatic Sound Levelizer – Enable Cache Radio
Navigation Settings	The navigation settings can be used to: ● Set up home ● Set up preset destinations ● Set up the address book ● Set up areas to avoid ● Delete previous destinations ● Set detailed navigation settings such as: – Average cruising speed – Automatic input function – Voice guidance for the next street name – Automatic reroute of the guidance route to avoid heavy congestion – Indication of freely flowing traffic by an arrow. – Displayed POI icon categories – The buttons displayed on the map screen when “OFF” is selected – Manual adjustment of the current vehicle position mark – Display of pop-up messages
Entune Settings	● The voice guidance volume can be adjusted or switched off. ● Cost warning message – Display once every drive – Display always – Never display and continue
Vehicle Settings	● Settings can be changed for the following maintenance items: – Reminder – Engine oil – Oil filter – Rotation – Tires – Battery – Brake pad – Wipers – Coolant – Brake oil – Trans. fluid – Service – Air filter – Personal – Delete all – Reset all – Call dealer – Set dealer ● Customizable vehicle settings can be changed.

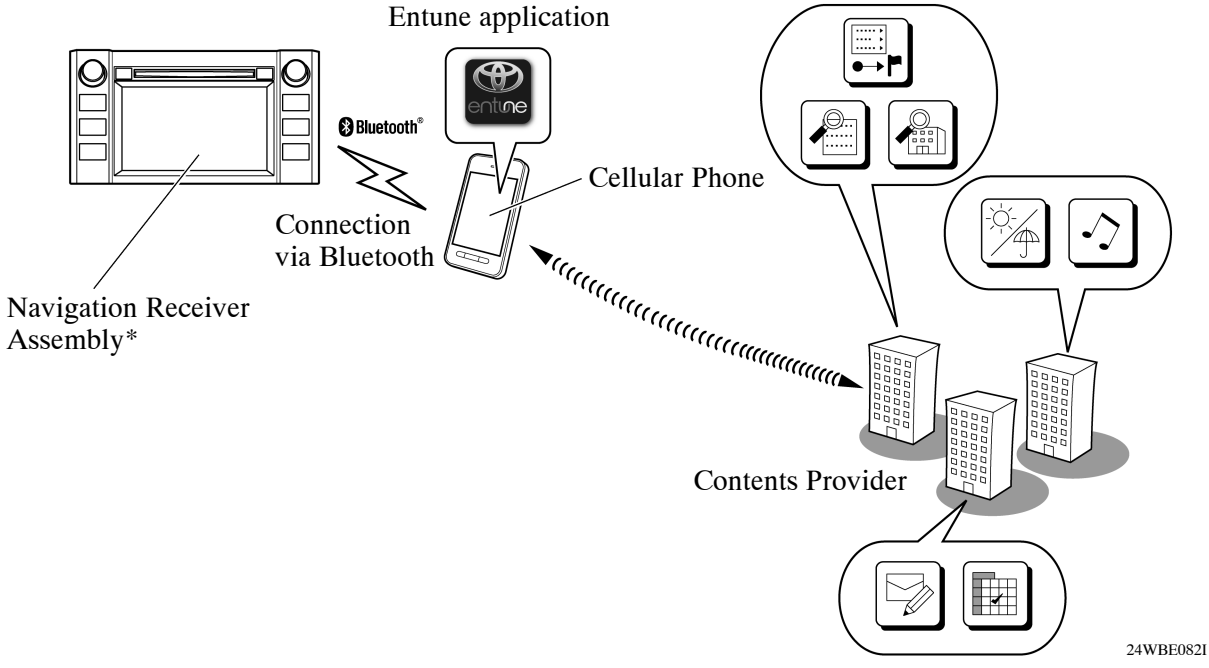
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Item	Outline
Customize Home	● The layout of the home screen can be changed between 2 and 3 panels. ● Widgets can be selected for display.
Screen Off	Turns the screen off.

■ ENTUNE

- The Entune service makes it possible to operate specified applications on the multi-display by using Bluetooth to connect the navigation system to a cellular phone with the Toyota Entune application installed.
- The Entune service enables communication between the navigation system, application server and content provider utilizing the Entune application installed on a cellular phone.
- The following applications (“Apps”) are available for the Entune service: Local business search, internet radio, etc. However, since this supported application lineup is subject to change, visit http://www.toyota.com/Entune/ for details on the Entune service.
- For the navigation receiver assembly, when the “Apps” soft button is selected and an update is available, the user will see a pop up notifying them that an update is available. They will have the option of accepting or canceling the update.

▶ Utilization image of the Entune service: ◀



*: Timely update of “APPS” can be done