

 **ALPINE**®

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Car Audio Systems



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Sonic Excellence

In the digital '90s Alpine lifts Sonic Excellence to exciting new levels of enjoyment. For 21st century entertainment quality -

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Why settle for anything less?

Alpine realized that CDs had a role to play in cars before most other companies had even imagined that such complex and initially expensive equipment could be built into cars. By thinking of the car as a solution that Alpine has found have often been adopted by other companies. Read on for some of our latest solutions to the problem of quality, reliability and musicality in a mobile environment.

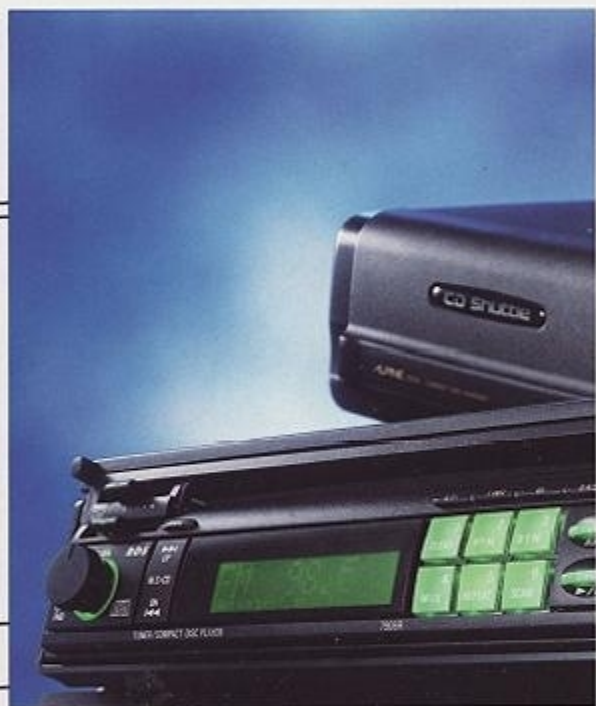
Excellence in DACs

Alpine's digital-to-analog converters (DACs)

the sounds themselves, they can certainly hear the effects of their interactions.

Alpine's unique fluency theory is overcoming the conventional theoretical limits. The resulting DAC, used in the 3900, is a special-purpose converter that smoothly varies the amplitude of the signal. The smoothness and fidelity of the sound from the 3900 is achieved by outputting smoothly varying peaks, instead of sharp "steps." The result is an actual musical signal with a response that soars well beyond 20kHz. The sound is therefore inherently clean and clear, free of both phase distortion and "ringing".

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Digital Technology

Alpine's leadership in the CD revolution realizes the full potential of digital sound and stems from complete commitment to providing the best in sound quality - enjoyment.

A company-wide commitment to digital car audio is the secret of Alpine leadership just as much as talented engineers and pure digital know-how. Our achievements spring from the original vision of what digital sources could mean for in-car entertainment. Alpine continues to define the state-of-the-art.

are where the story of sonic excellence begins. DACs take the digital signals recorded on the disc and convert them to smoothly varying analog signals. Alpine gives DACs top priority to ensure perfect fidelity from start to finish.

Alpine introduces new, advanced DACs as soon as they give clearly superior audio quality and/or greater cost performance. The technology evolved for the CD Shuttle, the first car stereo to use a pair of 20-bit DACs, one handling the positive halves of the signals and the other handles the negative halves, with a 1-bit switching unit that reads the most significant bit (MSB) to detect when the switch should be made. The two voltages, with their different signs, are offset by just

Next-Generation DAC: The idea is simple. To reproduce sounds with complete fidelity right up to the 20kHz audible limit, a system has to be able to reproduce the vital upper harmonics beyond 20kHz. For, while our ears may not hear

20-Bit Sign Magnitude DAC: In the 5959 CD Shuttle, there are two pairs of DACs, giving 20-bit resolution, four bits more than the usual 16-bit converters. This multiplies accuracy by 16, reduces distortion below 0.0025%, and makes a dynamic range of 98dB possible. One pair is used for each stereo channel, for a perfectly balanced stereo signal creating a wide dynamic range. The technology evolved for the CD Shuttle, the first car stereo to use a pair of 20-bit DACs, one handling the positive halves of the signals and the other handles the negative halves, with a 1-bit switching unit that reads the most significant bit (MSB) to detect when the switch should be made. The two voltages, with their different signs, are offset by just

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the right amount to make crossover ("zero-cross") distortion negligible. The result? Smooth, clear and precisely accurate D/A conversion.

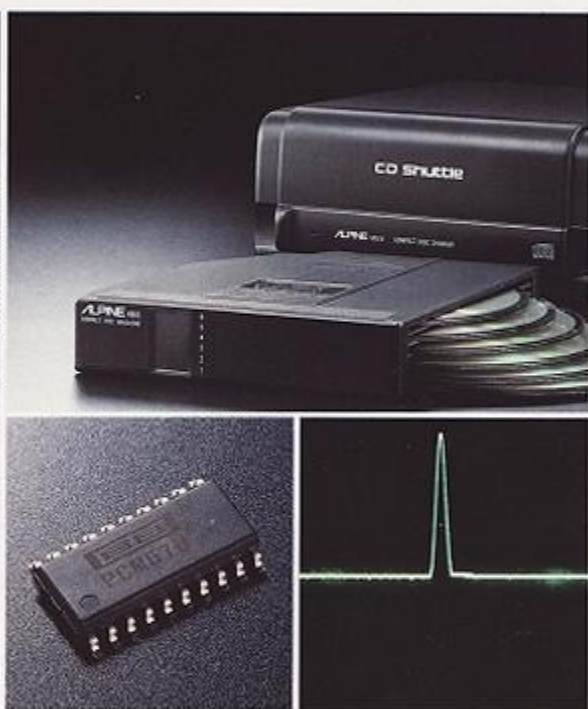
20-Bit Hybrid Interpolative DACs: There are 2560 hybrid DACs used in Alpine's 783M, 91M and 555. Each pair consists of a multi-bit staircase-ladder type DAC and a 1-bit DAC. This combines the high accuracy and wide overall linearity of the 20-bit DAC, 16 times more accurate than the usual 16-bit DAC, with the freedom of the 1-bit DAC from zero-cross distortion and its excellent fidelity at low signal levels. This approach, too, gives clean, clear res-

The digital filter on the 5959 uses 24 bits, four more than even 20-bit DACs. The extra bits are used to recalculate the digital data more accurately with much less noise. This Digital Noise Shaping gives cleaner, clearer output with noise levels 27dB lower than conventional circuitry.

"Glitches" are signal spikes arising inside the DAC. They would seriously degrade audio quality, and are usually removed by adding a special "de-glitching" circuit. But these circuits, too, degrade quality. Alpine decided instead to upgrade DAC performance so that glitches just don't happen!

already short waiting time after switch-on has been halved. There's even been a 20% speedup in the time it takes to auto-change CDs... all in the world's smallest CD Shuttle mechanism!

Most important of all though, is the overall result: a precision mechanism that holds the CD's pickup precisely over the track, despite potholes and other unfavorable driving conditions – and restores tracking instantly if an extra-large jolt interrupts audition.



ponse over the whole range of signal levels.

8-Times Oversampling Filters

At Alpine, technology is never an end in itself. We use it to create new features or new levels of performance.

As digital signals vary in little "steps," the more steps there are, the smaller they are, the closer they approach a smooth analog curve. This technology makes them eight times smaller by using a frequency eight times higher to do the sampling that creates the steps. It gives the smooth, clean sound of high-fidelity audio.

It's the same with "jitter," the slight irregularity with which the digital steps leave the DAC, and which can play havoc with audio quality. Alpine's DACs achieve regularity measured in nanoseconds (10^{-9} sec)!

These DACs, glitchless and jitter-free, enable sound reproduction that is transparently clear, a remarkably faithful and uncoloured recreation of the original sound, not under

New Servo Circuits & Mechanism

Alpine technology has also improved CD Shuttle performance significantly. Resistance to scratches is up 30%, and the

CD Shuttle Systems for Every Need

Creatively New Worlds of CD Entertainment. The CD Shuttle is the Centre of Sound Which Will Give You the Best System with Options to satisfy Every Conceivable Need.

The intelligence and musical artistry of the 5959, 5957, or 5952V CD Shuttle are yours to command. And Alpine's range of control units ensure that your every desire is catered for... whether you choose to add superb FM/MW/LW tuner capabilities at the same time or concentrate on the best that CDs can add.

With a number of Alpine's Radio Cassette head units you don't just get a state-of-the-art system for all the best in broadcast and recorded entertainment, you get CD Shuttle control functions too. And with our CD/Tuners, you get the unbeatable combination of single-play and autochanger functions.



Non-stop CD enjoyment at home and on the road: the Luxman DC-114 – a high-quality, stationary CD changer – uses the same magazines as our CD Shuttle models 5959, 5957 and 5952V. So you can easily programme your entertainment* for the road* in the comfort of your living room.



DIGITAL



7909L CD/TUNER

Flagship CD/Tuner performance: 8-times oversampling digital filter; twin, 18-bit DACs; CD Shuttle Control (6+1 Disc); accepts 8/12cm CD without adaptor.

RADIO CASSETTE



7618R RDS: Key to Enhanced Listening Pleasure

These latest additions to the Alpine lineup offer a new combination of all that is best in car audio – full control of CD Shuttle functions; RDS functions that will dramatically increase your plea-



720R

sure in FM listening; and every feature and function for full enjoyment of cassette playback.

COMMANDER

**5953 COMMANDER**

CD Shuttle controller plus tuner versatility with hideaway 1390L unit.

**1390L**

FM/MW/LW tuner.

**5955**

CD Shuttle controller provides FM signals for use with existing systems.

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**7292LS**

Simple System Up-Grade Potential

**7516MM**

The 7516L with more information



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5959

CD CHANGER

- DIGITAL OUTPUT for Next-Generation DAC
 - 20-BIT SIGN MAGNITUDE DACs,
 - 8-TIMES OVERSAMPLING FILTER, DIGITAL DE-EMPHASIS and
 - 21-BIT DIGITAL NOISE SHAPING for superlative CD sound.
 - GLITCH & JITTER-FREE CIRCUITRY for unrivalled purity.
- DC COUPLING FLOATING CIRCUIT for faithful signal transmission.
 - BALANCED SERVO DRIVE for stable, reliable CD tracking.
 - PLL AUTO-GAIN SERVO for long-term reliability.
- FLEXIBLE INSTALLATION ($\pm 30^\circ$ from vertical or horizontal). COMPACT ROUNDED DESIGN.

If you are a music lover and never satisfied with less than the best, the 5959 is for you. It is, quite simply, the best CD Shuttle we could make. Although it is the same, compact size, with the identical rapid changer action and highly stable tracking, the real difference lies in the all-important digital/analog converter (DAC).

If the 5959 only provided 20-bit sign-magnitude dual DACs, with accuracy 16-times better than 16-bit DACs, much lower distortion and video-symmetry, it would still be exceptional. But it also offers a direct digital output for use with the separate 3900 Next-Generation DAC unit. That makes it unique.

Alpine's position as the leading supplier of CD changers means that you can take the speed and reliability of operation for



granted, and concentrate upon the superb sound quality and the convenience of control. There are special-purpose controllers, but virtually any Alpine unit will control it.

And because the 5959 is so small, and can be mounted vertically, horizontally, or at angles up to $\pm 30^\circ$ it offers the most flexible installation. Tuck it away anywhere — under a seat, in the trunk, or even in a glove compartment.



The Ideal Source of CD Enjoyment



5957

CD CHANGER

- 20-BIT HYBRID INTERPOLATIVE DACs
- 8-TIME3 OVERSAMPLING FILTER
- DIGITAL DE-EMPHASIS
- 21-BIT DIGITAL NOISE SHAPING
- GLITCHLESS & JITTER-FREE CIRCUITRY
- DC COUPLING FLOATING CIRCUIT
- BALANCED SERVO DRIVE
- PLL AUTO-GAIN SERVO
- FLEXIBLE INSTALLATION
- COMPACT ROUNDED DESIGN.



The 5957 is the latest and fastest in the big new range of sleek, compact CD shuttles. With 20-bit hybrid interpolative DACs, 16-times more accurate than conventional 16-bit DACs, the 5957 features the same glitchless and jitter-free circuitry as the top-of-the-line 5959. The 5957 is the perfect example of Sonic Excellence, getting the very best from your favourite CDs.

Intelligent circuits help the miniature optical pickup to stick to the CD track despite vibration and potholes, and maintain long-term control of all servo functions, so that neither sudden extremes of temperature nor the gradual ageing and wear of components will affect its fantastic ability to track CDs accurately – even coping with the occasional scratch!

The Ideal Source of CD Enjoyment



5952V

CD CHANGER

- TWIN 18-BIT DACs
- 8-TIME3 OVERSAMPLING FILTER
- DIGITAL DE-EMPHASIS
- 21-BIT DIGITAL NOISE SHAPING
- DC COUPLING FLOATING CIRCUIT
- BALANCED SERVO DRIVE
- PLL AUTO-GAIN SERVO
- FLEXIBLE INSTALLATION
- COMPACT ROUNDED DESIGN.



If you've ever looked longingly at CD shuttles and wondered when they would come down to a price you could afford, the 5952V is probably for you! It has our tried and proven twin, 18-bit DACs, four times more accurate than the conventional 16-bit types, for CD super-sound. And in most of the other ways that really matter, it is the same as the 5959 and 5957 – with the same fast-changing, reliable mechanism and the same wide range of Alpine controllers.

It's not only the cost-effective choice to add the pleasures of multi-disc CD play to your car-audio system. Its compact, space-saving size and ease of installation make it a very much sought-after in the smaller car market.

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A Full-Function High-Performance CD/Tuner with RDS

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7906R

CD TUNER WITH RDS/TRAFFIC INFORMATION

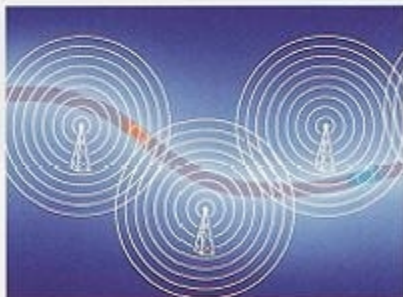
- ETR/PLL SYNTHESIZED FM/MW/LW, T-1011S TUNER
- DIGITAL DE-EMPHASIS, NOISE SHAPING and
- 8-TIMES OVERSAMPLING DIGITAL FILTER for superlative CD sound
 - ACCEPTS 8 & 12cm CDs DIRECTLY
 - DC COUPLING FLOATING CIRCUIT
 - STATIC VOLTAGE CONVERTER
 - ANTI-THEFT QRB

The 7906R is not only a splendid example of Alpine Sonic Excellence, it also provides Radio Data System functions for your added pleasure. Once you've enjoyed RDS, you'll never want to do without!

Superb CD sound is guaranteed by 8-times 21-bit oversampling digital filter followed by two-element Butterworth analog filters and 16-bit DACs for each stereo channel, with digital de-emphasis and noise shaping circuitry.

The shock-absorbing DP-S CD mechanism and its rigid, die-cast chassis can play right through the shakes, rattles and rolls of the road.

RDS functions include display of the station name, and storage of the other frequencies carrying the same program, so



that when your car begins to pass out of range of one station, the tuner will switch smoothly to another for uninterrupted enjoyment. But perhaps the most useful for the long-distance driver is the traffic announcement service. The 7906R will even increase the volume enough to attract your attention if you've selected a low, background listening level. You can even set RDS to override CD listening. You can also program the tuner to select only stations that carry traffic announcements.

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A Compact All-in-One Unit

If CD and radio are the joys of your listening environment, the 7803M is an all-in-one unit with a powerful 30W x 2 output. Brilliant on its own, it can also form the centre of a complete system with additional amps for greater power and sub-woofer(s). Advanced digital technology gives uncompromising Sonic Excellence from CDs, glitchless and jitter-free, and with ultralow distortion and noise. One rotary encoder "volume" control sets level, treble, bass and balance for easy operation and a clean, uncluttered look. Your chosen settings for CDs, FM and MW/LW are remembered and restored automatically to cut-out constant adjustments. Superb radio reception and a host of useful functions are provided by the latest T-1011S tuner unit.



7803M

CD TUNER

- 30W x 2 BUILT-IN HIGH-POWER AMP
- HYBRID INTERPOLATIVE 20-BIT DACs
- GLITCHLESS & JITTER-FREE CIRCUITRY
- 8-TIMES OVERSAMPLING DIGITAL FILTER
- ROTARY ENCODER ELECTRONIC LEVEL CONTROL
 - SOURCE TONE MEMORY
- DUAL ILLUMINATION (amber/green)
- ACCEPTS 8 & 12cm CDs DIRECTLY
- NEW SERVO CIRCUITS

Ideal Centre for a Superb System

Choose the 7915M and create your ideal in-car entertainment system! Match it with one or more amplifiers from the full Alpine range for anything from two to six channels including subwoofers. Power? As high as you could possibly want! It's almost as much fun choosing your system as it will be listening to it...

Unmatched Alpine digital technology for CD quality combines with a rugged, reliable and fast-acting mechanism for the best of CDs. Radio reception provides all the sensitivity and selectivity needed for today's crowded band with useful features like Auto Memory and D.P.F. Instant access to preset stations without waveband switching.

One knob sets volume, bass/treble and balance, and the 7915M remembers your tone settings for CDs and each waveband, making operation largely a "hands-off" pleasure.



7915M

CD TUNER

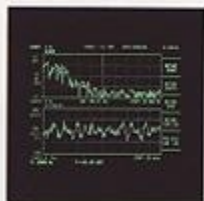
- 30W x 2 BUILT-IN HIGH-POWER AMP
- HYBRID INTERPOLATIVE 20-BIT DACs
- GLITCHLESS & JITTER-FREE CIRCUITRY
- 8-TIMES OVERSAMPLING DIGITAL FILTER
- ROTARY ENCODER ELECTRONIC LEVEL CONTROL
 - SOURCE TONE MEMORY
- ACCEPTS 8 & 12cm CDs DIRECTLY
- NEW SERVO CIRCUITS



5903S

CD PLAYER

- ANTI-THEFT QRB
- 8-TIMES OVERSAMPLING DIGITAL FILTER,
- DIGITAL DE-EMPHASIS & NOISE SHAPING
- DC-COUPLING FLOATING CIRCUIT
- ANTI-VIBRATION DP-S MECHANISM
- ACCEPTS 8 & 12cm CDs DIRECTLY
- 11 FTONE CONTROLS



Add a CD Player to Your System

You won't find a CD player with higher digital resolution stereo than the Alpine 5903S. Adding digital processing for a wide and intensely realistic stereo image and DC floating coupling circuit for enhanced sound quality. It's the perfect complement to any of Alpine's Radio/Cassette Players. Packed with convenient features like Up/Down Music Sensor, Repeat, MIX (random play) and Pause, it accepts both 12 and 8cm CDs without needing an adaptor. With its fluorescent display and variable dimmer you've got a unit that both looks and sounds great. And you can take it with you – using the QRB anti-theft feature!



5700

DAT PLAYER

- ONE-BOX DIN SIZE
- HIGH-RELIABILITY EB MECHANISM
- STEREO COUNTRY
- DIGITAL FILTER
- THREE-MODE AUDIO SELECTOR
- TAPE-GUARD FEATURES
- CODE-IN ANTI-THEFT SYSTEM



DAT – the Future, Now!

Alpine is master of Digital Audio Tape, or DAT, which uses a digital format to provide superb sound quality on a par with compact discs. With a signal-to-noise ratio of over 90dB, distortion lower than 0.005%, wow and flutter too small to measure, and a frequency response from 5Hz to 22kHz, the improvement over compact cassettes is dramatic.

The 5700 has a mechanism that has been specially toughened for in-car use, and plays back recordings made with three different sampling frequencies: 48kHz, 44.1kHz and 32kHz, for maximum versatility.

The New GR Mechanism

The heart of the GR-H and GR-Y mechanism, used in all our new models, is a stable, rigid head assembly of high-grade industrial resin that resists vibration and temperature changes. The tape is held in exact, repeatable position. Both tape guides, capstan tension and alignment the same on both sides of the head for the same superb performance in both forward and reverse play. Tapes are protected by a new auto-eject device, which operates before tape jams or slippage can cause trouble.

Cassette tape hubs are suspended on spring-loaded floating mounts, isolating the

Improved Heads/Assembly

The head is where playback quality begins. HLTAC II heads are a further refinement of our long-established top-of-the-line HLTAC heads, with new pointed grooves and linearly applied O-ring sealant for better response and a smooth bass.

In the GR-Y mechanism (the latest version), the head is sandwiched firmly between two sprung plates, doubling the force that locks it into position. Dual tape guides, both before and after the head, hold the tape in position so that playback standards are the same in both directions.

Radio/Cassette Technology

The technology behind the performance is a combination of carefully accumulated know-how and quantum leaps in mechanical, electrical and electronic design.

With the majority of car users choosing a radio/cassette unit as the centre of their in-car entertainment system, Alpine has crafted a wide range of units drawing upon unique experience and expertise, many with CD Shuttle controls. They are the embodiment of Alpine technological innovation.



tapes from harmful vibrations. The extra-broad rubber pinch roller also resists vibration, cradling the tape and holding it stable against the capstan. The superlative anti-vibration qualities of this Floating Suspension System ensure unwavering playback even on the roughest roads. Elegant simplicity is the hallmark of the GR.

There are 30% fewer components to go wrong. A 10% smaller, more electrically governed high-precision motor, which uses gears, not rubber bands that stretch and wear out, to drive the tape. Wow and flutter is an excellent 0.08% wrms.

Oxygen-free copper (OFC) wire is used in the head, bringing new clarity and smoothness to playback sound.

Improved Radio Reception

Proud successor to the T-10II, the T-10IIS offers increased listening enjoyment from weak, distant stations as well as the ability to cope with powerful local stations. Thanks to the use of "variable" dual-gate MOS-FETs in the front end. The dial is also remarkably free of "ghost" stations.

Multipath hunter circuits detect – and reject – FM signals bounced off buildings, hills or mountains, for reduced fade and flutter as you drive.

The ultimate tuner is combined with a totally re-engineered Quick Release Bracket featuring a special coaxial antenna connector for new highs in reception performance.

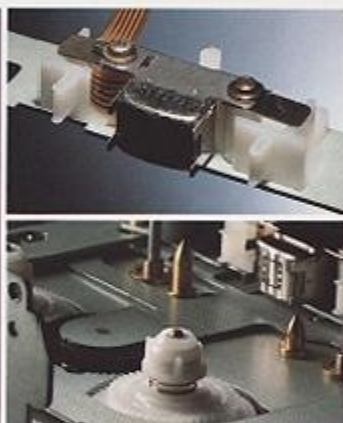
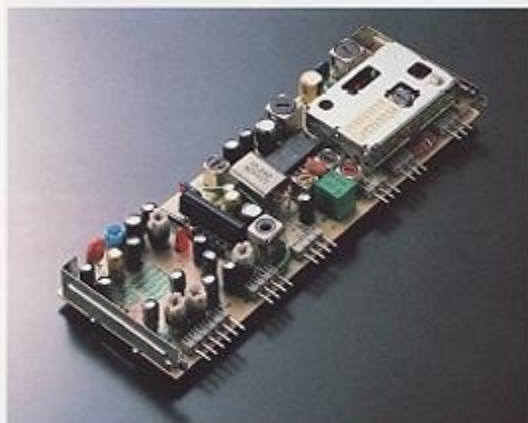
The OEM chip embodies everything that Alpine has learnt about ensuring good quality AM and FM reception. In the FM front end, it combines unusual sensitivity with robust ability to handle powerful local stations. New ceramic filters help to keep reception free of interference from stations nearby on the band.

low distortion power, too, so that quality has the purity and clarity that distinguishes the Alpine brand.

Pre/Power Outputs

Outputs are provided for direct connection to an external system with enhanced performance. Outputs are provided for direct connection to additional amps for more power, to drive more speakers – including subwoofers for a dramatic increase in impact, or complete multi-channel systems.

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Rotary Encoder Level Control

One accurate rotary encoder gives control of volume, bass, treble and balance settings, freeing the front panel from many audio control knobs. Individual settings are memorized by the unit. It's the ideal combination of clean, uncluttered and simple to use.

New, High-Power IC

Alpine leads the way to higher power with a new IC that provides 30Wx2 (maximum) outputs, five watts more per channel than the previous type, and enough to power basic two or four speaker systems. It has

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A High-Performance Tuner/Deck with Digital System Control and RDS

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7618R

TUNER/CASSETTEDECK WITH RDS/TRAFFIC INFORMATION

- CONTROL FUNCTIONS FOR 3900
- LATEST GR-H CASSETTE MECHANISM and
- HLTAC II HEAD for superior tape playback
- 8-DIGIT DOT-MATRIX LCD display
- CARD-TYPE WIRELESS REMOTE CONTROL
- ROTARY ENCODER ELECTRONIC LEVEL CONTROL
- SOURCE TONE MEMORY
- DUAL ILLUMINATION (Amber/Green)

While this prestigious tuner/cassette deck controls all Alpine CD Shuttles, it is uniquely designed to control the digital-interface combination of the 5959 and the separate 3900 Fluency DAC unit. To match the quality of CDs, the design philosophy calls for the very best in cassette and radio reproduction. Add to this all the advantages of RDS (Radio Data System), and you have a superlative unit for a supersystem.

The new and improved GR-H mechanism provides a full transport with several high performance features: automatic high and low level protection and automatically protects precious tapes from stretching and spillage. The latest HLTAC II head has a 0.8µ gap and a specially pointed profile for extended highs and smooth lows, and is locked rigidly into position by dual springs. The



latest T-1011S tuner provides corresponding sensitivity, selectivity, and functions for radio listening, with full RDS features for greatly enhanced listening pleasure and ease of use, choosing the best station for reception of your chosen programme.

Your commands are "echoed" to the 8-digit display, which also shows current condition/operation.

One rotary encoder sets volume, treble, bass and balance, and source memory for automatic selection of your settings each source: cassettes, CDs, and the radio wavebands.

An unusual extra: take your choice of the latest amber or traditional green illumination.



R-D-S

7294R

RADIO CASSETTE PLAYER WITH
RDS/TRAFFIC INFORMATION

- CD SHUTTLE CONTROL FUNCTIONS
- ETR/PLL SYNTHESIZED FM/MW/LWT-10IIS TUNER
- BUILT-IN 25W x 2 HIGH-POWER AMP
 - SOURCE TONE MEMORY
 - DUAL BASS CONTROL
- ROTARY ENCODER ELECTRONIC LEVEL CONTROL
 - MEMORY EDIT SYSTEM (MES)
 - ANTI-THEFT QRB WITH MINDER

The Unit With Everything

The 7294R's slim and attractive lines come in two or four channel configurations in direct proportion to the quality and flexibility to form the centre of an entire system — with one or more amplifiers, subwoofers, and a CD Shuttle under complete control.

It's second-generation RDS functions are driver-friendly, and help you to enjoy your chosen programmes under the best possible conditions without fumbling with the tuning controls!

Our GR tape-drive mechanism combines high precision and rugged reliability with Dolby B & C Noise Reduction. And one rotary encoder sets volume, bass, treble and balance, with Dual Bass Control for ideal response under widely different conditions and Source Tone Memory to store preferred tone settings.

RDS — And All This, Too...



R-D-S

7291R

RADIO CASSETTE PLAYER WITH
RDS/TRAFFIC INFORMATION

- PRESET MEMORY (PRESET MEMORY)
- AUTO TRAFFIC INFORMATION
- 30W x 2 BUILT-IN HIGH-POWER AMP
 - DOLBY B NOISE REDUCTION
 - MUSIC SEARCH
- ETR/PLL SYNTHESIZED FM/MW/LWT-10IIS TUNER

The 7291R makes the latest benefits of RDS available to a much wider range of fans. Basic cassette deck and radio performance are Alpine's best, fully complementing RDS. And FM Level Switching lets you match levels with cassette tape playback, so there's no sudden change when switching from one to the other.

With RDS, station identity is shown in the 8-digit 14-segment letter display. The 7291R will automatically select the best reception for your chosen programme, retuning as necessary. Choose road-traffic information, and you can keep fully informed wherever you go. The preset memory function lets you recall the same programme from any station broadcasting it. You can also have road information switched to "alarm" you raising the (automatically volume level to attract your attention) or set it for "Auto Seek."

Excellent All-Round Value

To make it even easier to own a full car audio system, the 7292LS includes CD Shuttle Control Function with the latest T-1011S super tuner, the rugged and reliable GT tape mechanism, and a built-in 25W x 2 power amp — ready to connect to a 4-speaker system. There are even outputs for another Alpine amp to boost power and performance still further! With MIX, Repeat and Music Scan functions for CD, Dolby B noise reduction, Music Search and Auto Metal functions for cassettes, and 30 preset station memories plus Auto Memory to store the six most powerful local stations and enhanced reception from the tuner, there's no more cost-effective way to build a complete system.



7292LS



- RADIO CASSETTE PLAYER
- CD SHUTTLE CONTROL FUNCTIONS
- ETR/PLL SYNTHESIZED FM/MW/LW, T-1011S TUNER
- GT CASSETTE DECK with SCC HEAD
- 25W x 2 HIGH-POWER AMP
- DOLBY B NOISE REDUCTION
- 30 PRESET STATIONS & AUTO MEMORY
- ANTI-THEFT QRB

Clearly Tops in Value

For the driver who wants the very best of FM, MW and LW reception, a powerful 25W x 2 built-in amp for a two or four speaker system, and top quality cassette listening, the 7290L is virtually irresistible. Attractively priced, it has more than enough for full broadcast and tape enjoyment. With 30 preset stations across three bands, including DAP instant access to six stations on any band, it also offers Preset Scan, Radio Monitor and Direct Source Access. The tape mechanism is the ultrareliable GT type, with hardened permalloy head for high quality and long life. The IF type tone controls give wide frequency and low distortion.



7290L

- RADIO CASSETTE PLAYER
- ETR/PLL SYNTHESIZED FM/MW/LW/TUNER
- GT CASSETTE DECK with SCC HEAD
- TRIED & PROVEN GT TAPE MECHANISM
- 25W x 2 HIGH-POWER AMP
- 30 PRESET STATIONS & AUTO MEMORY
- PRESET STATION SCAN
- ANTI-THEFT QRB



Power- and Feature-Packed Value

For the music lover, the 7516L/MM is a hard-to-resist package of all that's best in car audio. Full CD Shuttle control features (MIX, Repeat and Music Scan): Top of the line cassette performance (our latest full-logic GR mechanism, Dolby B & C noise reduction, with useful Repeat, Music Scan and Blank Skip functions): And last, but not least, enhanced radio performance from our T-1011S tuner, with 30 preset station memories. Six stations can be selected for direct access (DAP) from any waveband. And you can preset the six most powerful local stations, and scan through all of the preset stations, automatically...

The built-in 25Wx2 power amp is ready to connect to a 4-speaker system, and a second or third Alpine amp can be connected to expand and improve the system still further.



7516MM

RADIO CASSETTE PLAYER

- CD SHUTTLE CONTROL FUNCTIONS
- ETR/PLL SYNTHESIZED FM/MW/LWT-1011S TUNER
- GR-Y FULL-LOGIC CASSETTE DECK & SCC HEAD
 - 25W x 2 HIGH-POWER AMP
 - DOLBY B NOISE REDUCTION
- 30 PRESET STATIONS & AUTO MEMORY
 - ANTI-THEFT QRB
- AMBER LIGHT VERSION WITH SDK

Power- and Feature-Packed Value

For the music-lover, the 7516L/M/MM is a hard-to-resist package of all that's best in car audio. Full CD Shuttle control features (MIX, Repeat and Music Scan): Top of the line cassette performance (our latest full-logic GR mechanism, Dolby B & C noise reduction, with useful Repeat, Music Scan and Blank Skip functions): And last, but not least, enhanced radio performance from our T-1011S tuner, with 30 preset station memories. Six stations can be selected for direct access (DAP) from any waveband. And you can preset the six most powerful local stations, and scan through all of the preset stations, automatically...

Same model as 7516MM but with green-coloured display and without Traffic Information



7516L

RADIO CASSETTE PLAYER

- CD SHUTTLE CONTROL FUNCTIONS
- ETR/PLL SYNTHESIZED FM/MW/LWT-1011S TUNER
- GR-Y FULL-LOGIC CASSETTE DECK & SCC HEAD
 - 25W x 2 HIGH-POWER AMP
 - DOLBY B NOISE REDUCTION
- 30 PRESET STATIONS & AUTO MEMORY
 - ANTI-THEFT QRB

The built-in 25Wx2 power amp is ready to connect to a 4-speaker system, and a second or third Alpine amp can be connected to expand and improve the system still further.

Affordable High Quality

Where the highest quality is vital but the budget is limited, the 7190L is perfect. Like the 7290L, it has excellent output power (40W x 2). The HP magnetic head gives excellent sound quality, and the GT mechanism is solidly reliable. The tuner unit is the same T-1011 that serves so many top Alpine products: quality is right at the head of its class. Convenient features like 30-Station Preset with DAP make using the 7190L a simple pleasure. Attractive, clearly visible LCD display shows station frequency and other functions. It even comes with a power fader for four-speaker control.



7190L

RADIO CASSETTE PLAYER

- ETR/PLL SYNTHESIZED FM/MW/LWT-1011 TUNER
- AUTO-REVERSE CASSETTE DECK
- TRIED & PROVEN GT TAPE MECHANISM
 - BUILT-IN 6W x 2 AMP
- 30 PRESET STATIONS & AUTO MEMORY
 - PRESET STATION SCAN
 - ANTI-THEFT QRB

A Natural Choice

The 5255 is a first-class cassette player, ideal to combine with a CD/Tuner or CD Shuttle. This DIN-sized QRB unit is packed with state-of-the-art technology, from the advanced GR mechanism to the SCC head and the wide-range NF-type separate bass and treble tone controls. There's a loudness switch for solid bass even at low listening levels, too.

Convenient functions include Music Sensor, Auto Metal select, Scan, and Blank Skip. And while the 5255 has its own 25W x 2 power amp, it also has Pre Out/In and Selectable Fader for system expansion.



5255

- AUTO-REVERSE CASSETTE DECK
- MUSIC SENSOR
- HIGH-LEVEL (X2) 25W x 2 AMP
- SCC HEAD
- DOLBY B
- PEAK-HOLD INDICATOR
- SYSTEM EXPANSION
- ANTI-THEFT QRB

Some system proposals and some space for placing your very own ALPINE system.

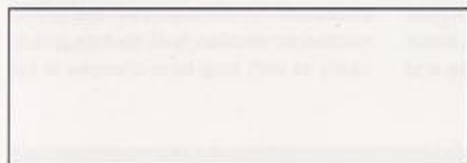
SYSTEM 1

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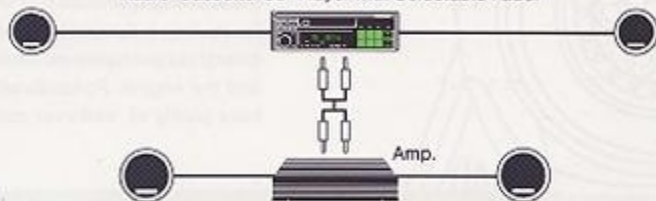
Radio-Cassette/CD-Player



SYSTEM 2



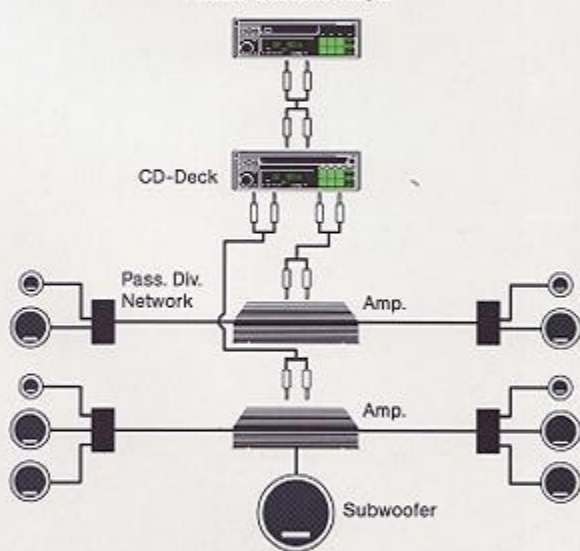
Radio-Cassette/CD-Player with Selectable Fader



SYSTEM 3



Radio-Cassette-Player

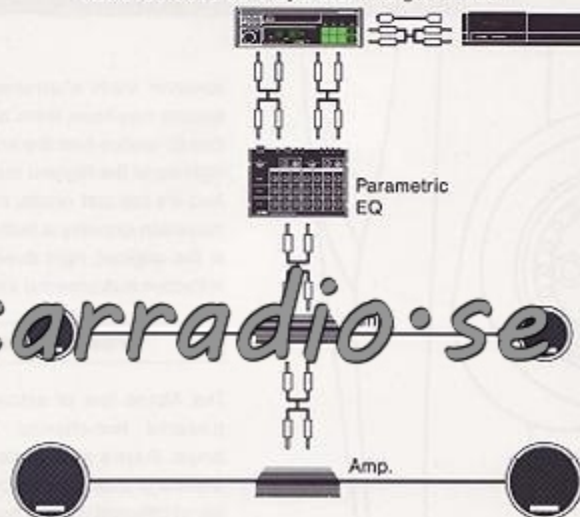


SYSTEM 4



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Radio-Cassette/CD-Player with Changer-Control



Digital-Ready Amplification

Every amp from the entire Alpine range has exactly what it takes to make the best of today's exciting new digital sources, with their ultralow distortion, wide dynamic range, and extremely precise timing. And they're all designed to reproduce the thrilling impact of the rhythm section in big band jazz, or a majestic orchestral climax, needs plenty of power. Not just to reproduce those ultralow sounds that are so important for realism but also to do so at levels high enough to overcome noise from tyres, road and the engine. Power is what these amps have plenty of, whatever car you drive and

sure to be one that is ideal for every system, from the simplest, with great possibilities for future expansion, up to the most sophisticated systems that use separate channels for subwoofer, woofer, mid-range and tweeter-speaker units.

Another secret of Alpine Super-amp performance is powerfully regulated power supplies built around heavy-gauge copper plates. They are so stable that they can cope with the huge peaks of power needed for sudden loud sounds just as easily as with long-term changes in car

Amplifier Technology

Power, Pure Power. The power to capture every dynamic climax, every delicate nuance of digital sound. Mobile fidelity. Another triumph of Alpine technology in the service of Alpine Sonic Excellence.

Digital-ready amplifiers. All the power you could possibly want — for the most sophisticated mobile audio system.

Subwoofer power... Multi-channel power... And a full and flexible range of choices that mean you can buy exactly the power you need.

however many channels or speakers your system may have, there's an Alpine amp that can do justice over the entire dynamic range, right up to the highest output levels. And it's not just crude, raw power. The low-distortion circuitry is faithful to every nuance in the original, right down to a whisper or a reflective instrumental solo.

battery voltage. This gives them similar advantages in coping with varying speaker impedance. A speaker with a nominal 4 Ohm impedance may have a much lower impedance at low frequencies and a higher one at high frequencies, and will "peak" in between. Alpine amps with super-stable PWM (pulse-width modulation) power supplies cope happily with these changes in impedance.

The Alpine line of amps features not only powerful two-channel and four-channel amps; there's even a six-channel amp, and several of them can be connected in a number of different ways to power two-way, three-way or even four-way systems. There is

Acoustic Compensation

This valuable feature compensates for some of the most common problems encountered inside the car: boominess



and the masking of low-bass response below 100Hz by road noise.

The built-in compensation means that the settings of bass, treble or equalizer controls are much more able to fine tune the sound to your personal taste.

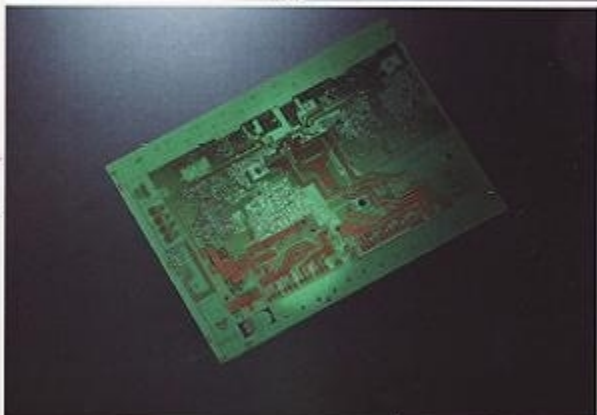
Selected Circuit Components

Discrete components, including high-speed MOS-FET transistors, are carefully selected to handle and preserve high output powers. Capacitors and resistors are "audio" types chosen for high audio

for all amp sub-blocks. This means that all blocks are at the same ground-zero potential, preventing noise signals and interference arising in the so-called "ground loops" that connect amp blocks together in other amplifiers.

Glass-Composite Circuit Boards

Our high-performance amps use circuit boards backed with glass-composite. Rigid, and resistant to high temperatures and humidities, this material is ideal for the harsh car audio environment, helping to ensure long-term reliable operation.



quality. Cable is made of oxygen-free copper (OFC) for the same reason and connectors are gold plated for low contact resistance and freedom from oxidation, both of which can play havoc with sound quality.

Dual & STAR Circuitry

Dual circuitry provides separate negative feedback (to reduce distortion and improve stability) for both AC and DC signals. This advanced technique gives cleaner, clearer reproduction, and freedom from audible distortion.

STAR circuitry is another Alpine special, providing a separate, single ground point

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A Multi-Channel Amp for Multiple Applications

3566

The 3566 comes in one compact unit, cost-effective power to drive a full speaker system with subwoofers. For complete stability in operation, generously rated independent DC-DC supplies feed the 30W x 4 and the 60W x 2 sections, and the pre/main stages are similarly isolated to reduce mutual interference and overheating.

With the 3566, Alpine introduces Acoustic Compensation: this compensates for the unusual acoustic environment found in a car, reducing the boominess at about 180Hz and making up for loss or leakage of low frequencies below 100Hz.

A high-pass filter is provided for the 4ch section and a low-pass filter for the 2ch section for use in multi-channel systems, and input mode switching is also provided.



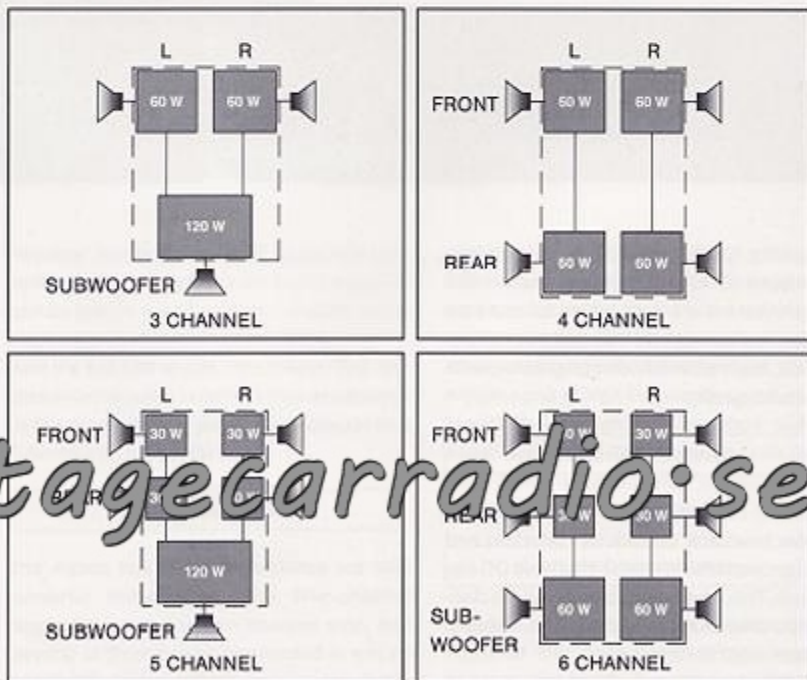
3566

6 CHANNEL POWER AMPLIFIER

- 6 CHANNELS: 60W x 2 & 30W x 4 at 0.04% THD (20Hz-20kHz)
- INDEPENDENT PRE-MAIN DC-DC POWER SUPPLIES
- DUO- β & STAR CIRCUITRY
- DRIVES 2 OHM LOADS
- ACOUSTIC COMPENSATION



Different bridging possibilities



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High Power in a Compact Package



3544

2 CHANNEL POWER AMPLIFIER

- MIND-BLOWING POWER 210W x 2 (4OHM, 1kHz, 10% THD)
 - 150W x 2 (0.04% THD, 20Hz~20kHz)
 - 630W BRIDGEABLE
 - DUO- β & STAR CIRCUITRY
 - PWM STABILIZER CIRCUIT (DC-DC)
 - COPPER POWER PLATE

3544

The 3544 offers a mind-blowing 210W x 2 (4ohm) power, 30% THD, bridged for 630W (power) and extremely low distortion in a package that can fit under a seat. Resistors and capacitors are separate ("discrete") units, individually selected for their audio characteristics. These, oxygen-free copper wire (OFC) and rigid, heat-resistant composite-glass circuit boards, with Duo- β and STAR circuitry, ensure dynamically powerful CD sound, pure and clear. Even the pin-jack connectors needed for full system flexibility are all gold plated for low contact resistance and freedom from oxidation, both enemies of high fidelity.



Slim, Digital-Ready Power Amp



3542

The 3542, with its DC-DC pulse-width modulated (PWM) stabilizer power-supply circuit, boasts Alpine's highly acclaimed Duo- β and STAR circuitry. It is also built on rigid, heat-resistant composite glass circuit boards. Specially designed to get the best from digital sources, with the utmost in sound amplification, there is a generous 125W x 2 output - 270W when bridged for monaural output - and ultralow distortion.

3542
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2 CHANNEL POWER AMPLIFIER

- SLIM DESIGN 125W x 2 (max.)
- 60W x 2 (0.04% THD, 20Hz~20kHz)
 - 270W BRIDGEABLE
 - DUO- β & STAR CIRCUITRY
- PWM STABILIZER CIRCUIT (DC-DC)
 - COPPER POWER PLATE



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Super-Compact High Power Amp

3541

Ideal center in a superb car audio system, the Alpine Parallel C-DC has a slim profile and a sleek design. Competitively priced, the 3541 is packed with Alpine leading-edge technology like Duo- β and STAR circuitry. Duo- β stands for dual negative feedback, which feeds back both AC and DC signals from the output to the input, a proven way of increasing stability and reducing distortion. This ensures that the 100W x 2 output (bridgeable for 220W of monaural output) is delivered with minimum distortion and maximum impact.



3541

2 CHANNEL POWER AMPLIFIER

- SLIM DESIGN
- 100W x 2 (max.)
- 40W x 2 (0.04% THD, 20Hz~20kHz)
- 220W BRIDGEABLE
- DUO- β & STAR CIRCUITRY
- PWM STABILIZER CIRCUIT (DC-DC)
- COPPER POWER PLATE



Plenty of Power in a Small Package

3540

The attractively priced 3540 is a powerful 65W x 2 amp (bridgeable for 100W of monaural power) designed for under-seat installation. With the same Duo- β and STAR circuitry as more powerful Alpine amps, it is an excellent choice for a high-performance car audio system with unusually low distortion characteristics. STAR circuitry uses a separate, single ground point for all amp sub-blocks. This prevents interference and noise signals arising, for a cleaner, clearer sound.



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2 CHANNEL POWER AMPLIFIER

- 65W x 2 (max.)
- 30W x 2 (0.04% THD, 20Hz~20kHz)
- 100W BRIDGEABLE
- DUO- β & STAR CIRCUITRY



Versatility and High Power



3554

With the 3554, you just can't go wrong! In any configuration to upgrade or expand your system, the 3554 can easily be reconfigured — it's equally happy as a 120W x 4 setup in 4 channel, or in a three-channel setup (200W x 1 + 100W x 2), ideal for adding a subwoofer, using the built-in 80Hz crossover network and on/off switch. Or you can use it as a powerful stereo system with 200W x 2 maximum power. Whatever the system, however big or small, the 3554 offers the same pure, ultralow distortion sound of Duo- β and STAR circuitry in a DC-DC amp.

3554

4 CHANNEL BRIDGEABLE POWER AMPLIFIER

- 120W x 4 (MAX)
- 50W x 4 (0.04% THD, 20Hz~20kHz)
- BRIDGEABLE (200W x 2/200W + 100W x 2)
 - BUILT-IN ACTIVE DIVIDER (80Hz)
 - DUO- β & STAR CIRCUITRY
- BUILT-IN 80Hz CROSSOVER NETWORK



Three Amplifiers in One



3552S

Another of the new generation of multi-purpose amps from Alpine, the 3552S is a versatile DC-DC amp that delivers a generous 90W of power through four channels, or one channel of 140W plus 70W x 2, or 140W through two channels. Like the more powerful 3554, it has a built-in 80Hz subwoofer crossover network and on/off switch. It's the perfect way to get the most out of CD quality as well as the most power and versatility from your car audio system. It also features Duo- β and STAR circuitry.

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4 CHANNEL BRIDGEABLE POWER AMPLIFIER

- 90W x 4 (max)
- 35W x 4 (0.04% THD, 20Hz~20kHz)
- BRIDGEABLE (140W x 2/140W + 70W x 2)
 - DUO- β & STAR CIRCUITRY
- BUILT-IN 80Hz CROSSOVER NETWORK



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Space-Saving Three-Way Versatility

3550

Like the more powerful 3551 and 3552, the 3550 is a real three-imp in line with them, it boasts DUO- β and STAR circuitry to handle the special demand of digital sources. This affordable unit provides a generous 70W of power through each of four channels for, say, a complete front-and-rear speaker system. Or use it as a 1x 100W and 50W x 2 amp for rear speakers and a subwoofer. Or again as a powerful 100W x 2 stereo amp. In every case, its ultracompact design saves space.



3550

4 CHANNEL BRIDGEABLE POWER AMPLIFIER

- 70W x 4 (max)
- 25W x 4 (0.04% THD, 20Hz~20kHz)
- BRIDGEABLE (100W x 2/100W + 50W x 2)
- DUO- β & STAR CIRCUITRY



Compact and Powerful

3503

Don't be misled by the small size of the 3503: this is a lot of amp! It's particularly suited to boosting the power from under-powered original equipment, and has the speaker-level inputs for ease of connection. The gain control (volume control) lets you match levels for comfortable, low-distortion listening.



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2 CHANNEL BTL AMPLIFIER

- 40W x 2 (max)
- 18W x 2 (0.8% THD, 20Hz~20kHz)
- DRIVES 2W SPEAKERS (using high power IC)
- PRE and SPEAKER-LEVEL INPUTS
- GAIN CONTROL
- COMPACT DESIGN



Affordable Four-Channel Power

3531

Yes, this is a four-channel amp! Its low-profile design makes for simple "out-of-the-way" installation. Despite its small size, this BTL amp offers ample power (40W x 4 max) and a choice of pre-level pin-jack inputs for full system flexibility and speaker inputs for compatibility with existing car radios, etc. Affordable Sonic Excellence.

3531

4 CHANNEL BTL AMPLIFIER

□ 40W x 4 (max)

□ PRE and SPEAKER-LEVEL INPUTS



Two-Way "Add-On" Power

3501⁰²

Ultracompact and priced to please, the 3501-02 is ideal for "big-system" sound in a small-car environment. Besides delivering 25W x 2 of power, it uses many of the same digital technologies as Alpine's higher-end models, giving low-distortion sound. Choice of pre-level and speaker inputs for easy hook-up to existing radios, etc.



3501⁰²
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2 CHANNEL BTL AMPLIFIER

□ COMPACT SIZE

□ 25W x 2 (max)

□ PRE and SPEAKER-LEVEL INPUTS



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3401

PARAMETRIC EQUALIZER

- 3 BANDS FRONT
- 4 BANDS REAR
- 3 MODE OPERATION
- FREQUENCY RESPONSE 10Hz - 50kHz (± 1 dB)
- INPUT SENSITIVITY FIX 500mV
- OUTPUT LEVEL CONTROL RANGE 0-20dB

ALPINE strives to master the complex acoustics of a car interior with the aim of achieving the optimum parameters for digital-source listening.

In terms of acoustics, perhaps no other space presents a more complex challenge than a car's interior.

What's needed is precision adjustments at the time of installation. Fine-tuning by ear or with conventional instruments does not result in the best sound. Realizing this, ALPINE developed the 4780,

a real-time analyzer designed for use by a professional, the ALPINE Sound System Specialist.

Another new unit is the 3401, a parametric equalizer specifically designed to correct irregularities in a vehicle's frequency response characteristics, and provide a smooth, flat response that mirrors the quality of sound from the original recording.

The new 3401 parametric equalizer will make any audiophile or even fledgling music lover a devoted fan of ALPINE Sonic Excellence.

A product of ALPINE's never-ending pursuit of higher standards for car audio system tuning, this ingenious unit enables full control over the frequency, bandwidth and boost/cut variables, hence providing the capability for "cleaning up" the acoustic environment to achieve a smooth, flat response. This is one of the best ways of tailoring your car audio system's sound precisely to your tastes, so that you can experience the ultimate in listening pleasure.

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3339 Electronic Equalizer

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3339

REMOTE GRAPHIC EQUALIZER

- 11-BAND EQUALIZING - SUBWOOFER CONTROL
- SOUND WIDE (3 POSITION)
- EQUALIZER MEMORY 2 x 4
- FREQUENCY RESPONSE 10Hz - 50kHz (± 1 dB)
- CROSSOVER POINT 80Hz - 18dB/OCT
- TONE ACTION BOOST CUT ± 12 dB 0/+16dB (SUBWOOFER)
- INPUT CONNECTOR RCA

Remote-Control Graphic Equalizer

Touch the slim remote-control unit, and you can see the amount of boost and cut you are giving at each frequency, making adjustment easy.

Using these sensitive and flexible controls, you can compensate for the peaks and dips caused by sound absorption, reflection and resonances inside the car - factors you can't avoid however flat the responses of amps and speakers!

Simple Sophistication

The 3339's combination of ready-made and preset equalizer curves makes tone compensation easy. The four selector buttons give you a choice of Broadcast



Music, Male Vocals, Female Vocals, or Broadcast News. You can then add the finer touches of boost or cut to your taste. Four more curves of your choice can also be simply stored for instant access. Memory Scan gives you about five seconds of each curve for immediate comparison.

Dynamic Range Controller & Sound Field Expander

You can expand the dynamic range for more powerful sound, or compress it for a smoother, more relaxing sound, useful when the peaks of a CD, for example, are too loud for comfort. And the three SFE settings give a greater sense of spaciousness - the "concert-hall effect."

An 11-Band Graphic Equalizer



3331

Not only does this graphic equalizer give you the same kind of control over the sound in your car as the mixing engineer in the studio, it does so with complete control over one or more subwoofers. To enhance the Alpine DS-Drive amp, the 3331 also features a P-D-C control, a fader control and input level indicator, with gold-plated terminals, and you have a unit worthy of the finest system.

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11-BAND GRAPHIC EQUALIZER

- VARIABLE SUBWOOFER CROSSOVER
- FADER CONTROL
- STEREO/MONO & PHASE SWITCHING of
 - SUBWOOFER OUTPUT
- SUBWOOFER LEVEL CONTROL (0~15dB)

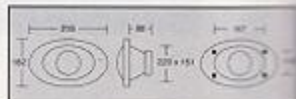
A Full Range

These three models have tremendous power-handling capacity – up to 150 Watts – ideal for even the most powerful of Alpine amps. The 6963 and 6663 are coaxial two-way systems with a soft-dome tweeter for the high frequencies and a large woofer for the soft, mellow bass. The tweeters performance out of all proportion to their tiny size. The 6560 is a component two-way system, with a separate soft-dome tweeter for ease of location. All three have rigid, non-pressed paper cones for the rich, powerful bass that marks all Alpine reference speakers.



6963

COAXIAL 2-WAY FULL RANGE
150W (MAX. MUSIC)
100W (MAX.)
44Hz – 22kHz
6" x 9" (15cm x 23cm)



6663

COAXIAL 2-WAY FULL RANGE
150W (MAX. MUSIC)
100W (MAX.)
44Hz – 22kHz
6 1/2" (16cm)



6560

COMPONENT 2-WAY
150W (MAX. MUSIC)
100W (MAX.)
50Hz – 22kHz
WITH PASSIVE DIVIDING NETWORK



Non-Pressed Paper Woofer Cones

Digital recordings — CDs — call for a clear mid-range response with a solid underpinning of rich, deep bass, particularly in a listening environment. Alpine uses non-pressed paper woofer cones of the Reference Series speakers. These thick, rigid but light cones handle deep bass response smoothly, without absorbing the sound, and free from unpleasant sound effects.

Natural Rubber Edges

To handle the large input powers these

performance samarium cobalt magnets, and 10% lighter. They grip the driver coils in a powerful magnetic field, so that tweeter domes follow accurately every detail of the signal waveform. In our top-of-the-line speakers, they are an order of magnitude stronger than conventional materials, for ultimate high fidelity.

Small is Beautiful in Tweeters

The ultrapowerful tweeter magnets have another advantage. Their combination of high power and much smaller size means that the tweeters in these two-way Reference speakers obstruct the sound from the woofer cones

ears use to locate where a sound comes from. It therefore means that more passengers can enjoy a real stereo listening experience.

OFC Voice Coils & Wiring

It should be obvious that Alpine sees oxygen-free copper (OFC) as the ideal conductor for high-fidelity audio: we use it wherever it can make a difference. In speakers, that means the voice coils and the connecting wires which carry the signal. It's the most effective way we know of achieving the purity and naturalness expected of Reference Series speakers.



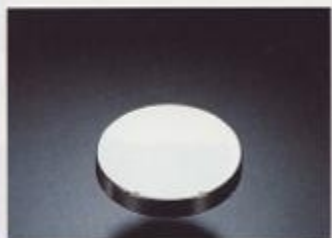
Speaker Technology

The final link in the chain of Sonic Excellence. The units that deliver the sound to your ears. So important that only the best will do. Only Alpine.

The Reference Series set new standards in speaker performance.

Reference standards: those by which all the others are judged.

Musical realism so thrilling that it turns your car into a concert hall.



speakers are designed for, Alpine has given them natural rubber edges. These allow a wide range of unrestrained cone movement, for much more precise sound reproduction.

Neodymium Magnets

Alpine brings the benefits of the ongoing revolution in magnetic materials to speaker design. Magnets of neodymium alloy are even more powerful than our high-

less, giving much clearer sound imaging which translates into startling new transparency and realism.

Soft Domes for Tweeters

Soft domes produce soft, natural "highs", distributing them more evenly throughout the car, so that everyone can enjoy the same clarity and transparency of response. This is also important for a good stereo image, as the high frequencies carry a lot of the information our

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An uncompromising insistence on the very best of in-car entertainment eventually leads to music that is



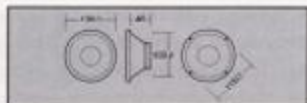
6011

MULTI-CHANNEL DUAL TWEETER
150 WATT (MAX. MUSIC)
100 WATT (MAX.)
2kHz - 22kHz
1" (2,5cm)



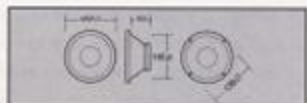
6041

MULTI-CHANNEL DUAL TWEETER
150 WATT (MAX. MUSIC)
120 WATT (MAX.)
100Hz - 17kHz
4" (10cm)



6051

MULTI-CHANNEL DUAL TWEETER
150 WATT (MAX. MUSIC)
120 WATT (MAX.)
75Hz - 15kHz
5 1/4" (13cm)



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One Speaker, One Channel.

Multi-channel systems are for those who want the ultimate in performance and Sonic Excellence. Instead of having one amp to cope with all frequencies from subwoofers to tweeters, separate amplifier channels are used for each frequency range. This means that power-sapping ultralow frequencies can never affect the delicate clarity of high-frequency response.

An Unmatched Amp Range

With standard stereo amps that can be bridged for monaural operation, and four and six-channel amps that can be used in six, four, three or two-channel modes, there's an Alpine amp appropriate to every multi-channel system.

Build Your Dream System

Unless you have a very clear idea of your dream system, the variety of speaker units, amps and matching dividers can be confusing. Consult your Alpine dealer, who can help you keep within your budget as you build your ideal system. Below, you will see one suggestion for a system that, frankly, we are confident will sound better in your car than most expensive home audio systems would sound in your own home!

channel systems. Enter Alpine reference speaker units.



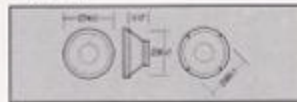
6061

2-WAY (MAX. 150W)
2-WAY (MAX. 150W)
50Hz - 8kHz
6 1/2" (16cm)



6013

SUBWOOFER
3-3/4" (9.5cm) MAX. DIA.
20Hz - 1.2kHz
10" (25cm)



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Active & Passive Dividers

Flexible Active Dividers

These are the essential building blocks for a multi-channel system. Active dividers are used to divide the signal into the different frequency bands handled by each amp. As their name suggests, they play an active role in matching amps to speakers. There are dividers for two or three-channel systems, or for two-channel front and three-channel rear multi-channel systems, each with one or more subwoofers.

3672

This active dividing network embodies all that Alpine has learned in creating multi-channel speaker systems. It also uses new, low-noise switches and provides greater flexibility, wider dynamic range, and lower noise. Level and crossover controls are variable for full flexibility.

3655

The 3655 is useful in adding a two or three-way multi-channel system to an existing system. If used as a two-channel system, the crossover points can be varied over a very wide frequency range to suit many different speaker combinations.

Superb Passive Dividers

Passive dividers are another option for building multi-channel systems. They are connected to the amp's output and the

speaker units, and enable one amp to drive two or three units for cost-effective solutions. Use their innovative technology to tell the best possible sound in



3672

4-CHANNEL ACTIVE DIVIDING NETWORK

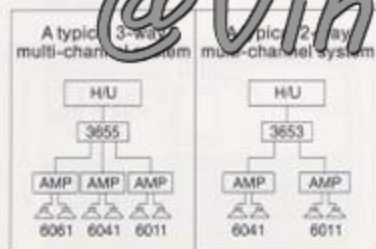
- Wide Dynamic Range, Low Noise
- Built-In DC-DC Converter
- Front Speakers: 1 or 2-way
- Rear Speakers: 2 or 3-way
- Subwoofer: 1-way (non-fadable)



3655

3-CHANNEL ACTIVE DIVIDING NETWORK

- Front or Rear Speakers: 2 or 3-way
- Subwoofer: 1-way (non-fadable)



3653

The 3653 has an unexpectedly wide range of potential applications, and two or more of them can be used together to create a "flexible" system. Consult your Alpine dealer; they can help you find for sub-woofer/full-range, full-range/tweeter or super-tweeter channels.

3732

The 3732 uses premium audio components and a copper case to reduce magnetically induced distortion. Low internal losses give good high-frequency response, and the new Alpine impedance compensation circuit dramatically improves overall response.

3731

When it comes to fine-tuning the acoustic parameters of your multi-speaker/channel system, the new 3-way 3731 passive dividing network may be the finest solution of all. It features a wide array of innovative technology, including a special film-type capacitor for creating cleaner, more distinctive sounds. An "instrument of refinement" for any music lover who appreciates the best in car audio sound from a passive system.

3721

Otherwise similar to the 3732, the 3721 provides for two speakers to be connected to the same amplifier, with the frequency response shared ideally between them.



3653

2-CHANNEL ACTIVE DIVIDING NETWORK

- Frequency Response 10Hz - 50kHz (+/- 1dB)
- Crossover Frequency Low 50 - 500Hz, High 1kHz - 10kHz
- Output Gain Control (dB) Low 0 - 12dB/High +/- 18dB
 - Input Sensitivity (mV) RCA 500mV
 - Crossover Slope (dB/OCT) -12dB
 - Size 160x40x120 mm



3732

3-CHANNEL PASSIVE DIVIDING NETWORK

- For Multi-Channel Systems with One Amp
- Impedance Compensation Circuit
- Gold-Plated Screw Connectors

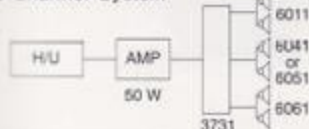


3731

3-CHANNEL PASSIVE DIVIDING NETWORK

- For Multi-Channel Systems with One Amp
- Impedance Compensation Circuit
- Gold-Plated Screw Connectors
- Size 160x40x120 mm

3-Channel-System

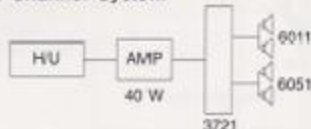


3721

2-CHANNEL PASSIVE DIVIDING NETWORK

- For Multi-Channel Systems with One Amp
- Impedance Compensation Circuit
- Gold-Plated Screw Connectors

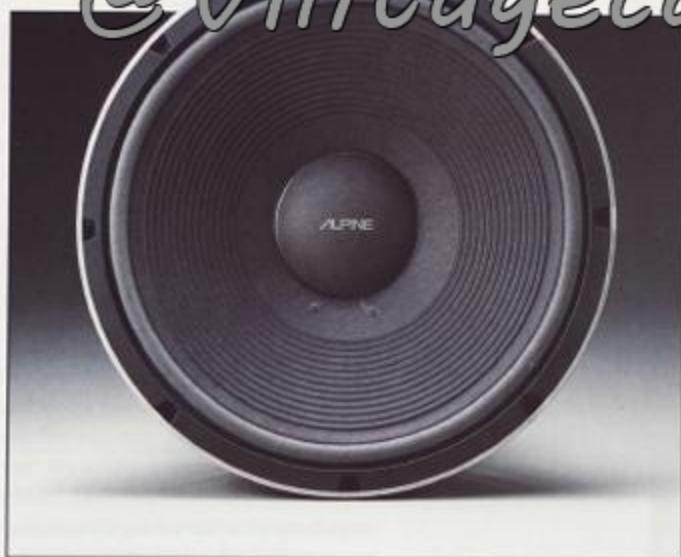
2-Channel-System



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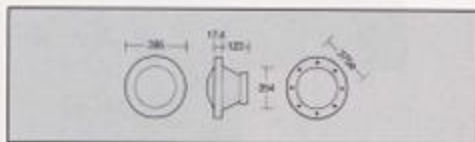
The difference that subwoofers can make is something you need to hear before you can believe it. Nothing else can approach for enhancing your listening pleasure!

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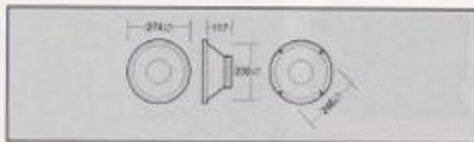
6014

SUBWOOFER
600 WATT (MAX. MUSIC)
450 (MAX.)
30Hz - 500Hz
15" (38cm)

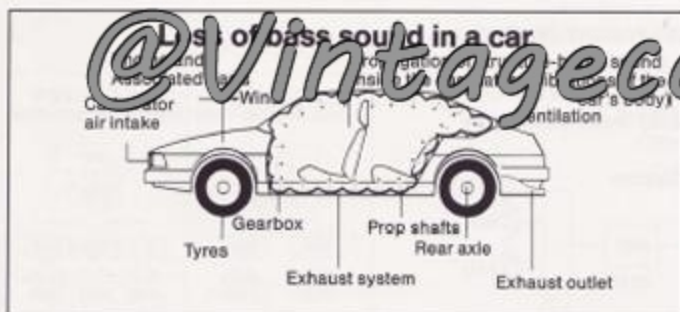


6013

SUBWOOFER
300 WATT (MAX. MUSIC)
200 (MAX.)
22Hz - 1.2kHz
10" (25cm)



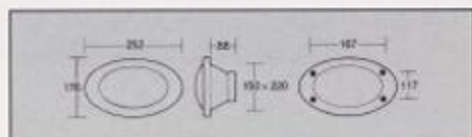
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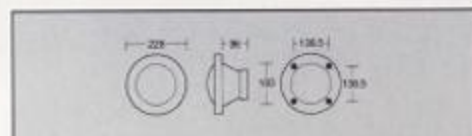
6190

SUBWOOFER
 150 WATT (MAX. MUSIC)
 30Hz - 6kHz
 PUSH-PULL DOUBLE DAMPER HDP CONE
 6" x 9" (15cm x 23cm)



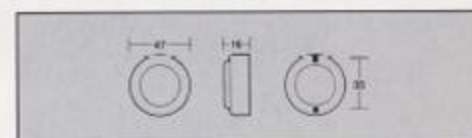
6180

SUBWOOFER
 200 WATT (MAX. MUSIC)
 150 WATT (MAX.)
 30Hz - 6kHz
 PUSH-PULL DOUBLE DAMPER HDP CONE
 6" (20cm)



6010AX

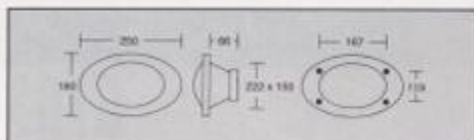
MULTI-CHANNEL
 DOME TWEETER
 200 WATT (MAX. MUSIC)
 80Hz - 20kHz
 2.1" (5.3cm)
 1 1/8" (1.4cm)





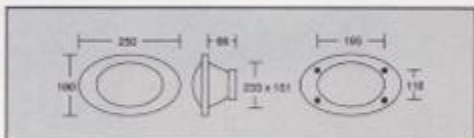
6397CX

2-WAY
SUITED FOR BTL-AMPS
90 WATT (MAX. MUSIC)
60 WATT (MAX.)
48Hz - 22kHz
6" x 9" (15cm x 23cm) 66 mm DEPTH



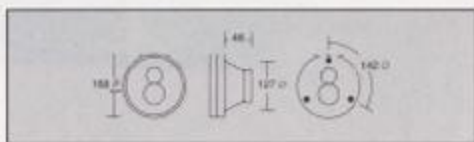
6297AX

2-WAY
SUITED FOR BTL-AMPS
90 WATT (MAX. MUSIC)
60 WATT (MAX.)
POLYIMIDE DOME TWEETER
6" x 9" (15cm x 23cm) 66 mm DEPTH



6367CX

3-WAY
SUITED FOR BTL-AMPS
90 WATT (MAX. MUSIC)
60 WATT (MAX.)
55 Hz - 21 kHz
6 1/2" (16cm) 46 mm DEPTH

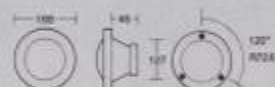


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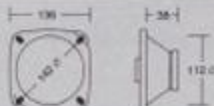
6267AX

2-WAY COAXIAL
 SUITED FOR BTL-AMPS
 90 WATT (MAX. MUSIC)
 60 WATT (MAX.)
 HDP CONE WOOFER
 6 1/2" (16cm) 46 mm DEPTH



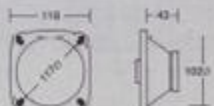
6257CD

2-WAY COAXIAL
 SUITED FOR BTL-AMPS
 60 WATT (MAX. MUSIC)
 40 WATT (MAX.)
 HDP CONE WOOFER
 5 1/4" (13cm) 38 mm DEPTH



6247CD

2-WAY COAXIAL
 SUITED FOR BTL-AMPS
 45 WATT (MAX. MUSIC)
 30 WATT (MAX.)
 HDP CONE WOOFER
 4" (10cm) 43 mm DEPTH

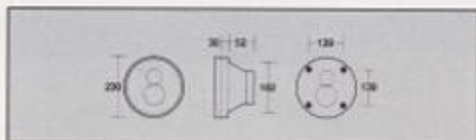




6386

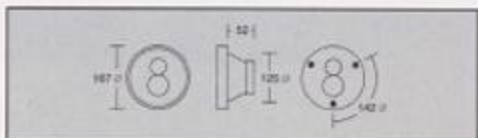
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3-WAY
150 Watt (max.) MUSIC
100 Watt (max.)
45 Hz - 21 kHz
8" (20 cm) 82 (52) mm Depth



6366CX

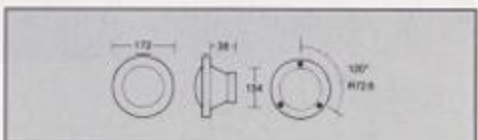
3-Way
120 Watt (max.)
Music
80 Watt (max.)
50 Hz - 22 kHz
6 1/2" (16 cm) 52 mm Depth



6680

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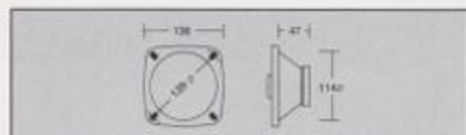
3-WAY
40 Watt (max.) MUSIC
60 Hz - 21 kHz
6 1/2" (16cm) 38mm DEPTH





6256CD

COMPONENT 2-WAY
90° COIL (16Ω) TWEETER
HDP CONE WOOFER
DOME TWEETER
5¼" (13cm) 47mm DEPTH



6056AD

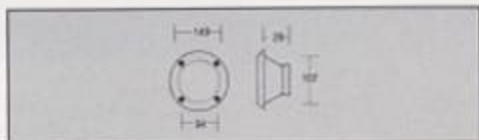
COMPONENT 2-WAY
120 WATT (MAX. MUSIC)
80 WATT (MAX.)
50Hz - 22kHz
5¼" (13cm) 50 mm DEPTH





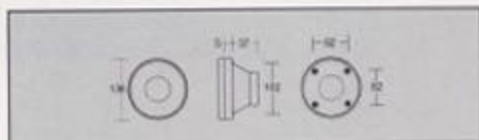
6152-02

DUAL COIL
30 WATT (MAX. MUSIC)
20 WATT (MAX.)
97Hz - 20kHz
5" (12cm) 29mm DEPTH



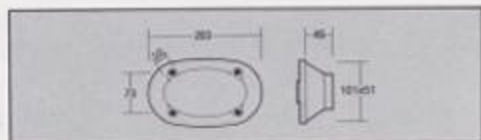
6246SX

COAXIAL 2-WAY
60 WATT (MAX. MUSIC)
40 WATT (MAX.)
95Hz - 21kHz
4" (10cm) 42 (37) mm DEPTH



6204AX

60 WATT (MAX. MUSIC)
40 WATT (MAX.)
60Hz - 21kHz
4" x 6" (10cm x 15cm) 46 mm DEPTH





Recommended Custom Speaker

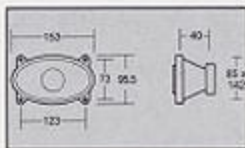
MAKER	TYPE	SPEAKER POSITION						ALPINE Speakers to be installed
		DASH (UPPER)	DASH (SIDE)	KICK PANEL	FRONT DOOR	REAR DOOR	REAR FILLAR	
AUDI	80/90							6251AD, 6251AX
AUDI	100							6251AD, 6251AX
AUDI	100 SW							6251AD, 6251AX
BMW	3-SW							6251AD
BMW	3							6251AD
BMW	5	T	•					6251AD
BMW	7	T	•					6251AD
FORD	ESCORT			•				6251AD
FORD	SCORPIO	T			•			6242AX, 6251AD
FORD	FIESTA				•			6251AD
FORD	SIERRA		•					6251AD
MERCEDES	W124-SW	•						6222AX
MERCEDES	W124	•						6222AX, (6221AX)
MERCEDES	W201 (190)	•						6241AX
OPEL	KADETT	•						6241AX, 6137AX, 6242AX
OPEL	VECTRA	T			•			6251AD
OPEL	CORSA	•						6242AX
OPEL	SENATOR	T			•			6261AX, 6251AD
OPEL	OMEGA	T			•			6261AX
PORSCHE	959				•T			6251AD, 6221AX
PORSCHE	924/944					•		6221AX
PORSCHE	928				•T	•		6221AX
PORSCHE	911				•T			6251AD
PORSCHE	911 cabrio				•T	•		6251AD, 6242AX
VW	GOLF	•						6137AX, 6251AD, 6221AX
VW	CORRADE	•						6137AX, 6251AD, 6221AX
VW	PASSAT	•						6241AX, 6251AD
VW	PASSAT-SW	•						6241AX, 6251AD, 6221AX
VW	POLO							6221AX
SEAT	IBIZA				•			6251AD, 6242AX
SEAT	MALAGA				•			6251AD
CITROËN	XM	•			•			6261AX, 6251AD
CITROËN	AX							6242AX
CITROËN	BX19/GTI/Turbo	T		•				6251AD

T = Tweeter



6221AX

COAXIAL 2-WAY
60 WATT (MAX. MUSIC)
40 WATT (MAX.)
60Hz - 21kHz
4" x 6" (10cm x 15cm)
40 mm DEPTH



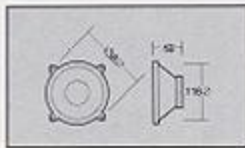
6222AX

COAXIAL 2-WAY
60 WATT (MAX. MUSIC)
40 WATT (MAX.)
60Hz - 21kHz
5 1/4" (13cm) 50 mm DEPTH



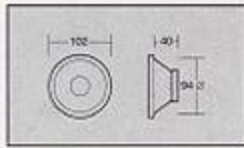
6251AD

COAXIAL 2-WAY
60 WATT (MAX. MUSIC)
40 WATT (MAX.)
60Hz - 21kHz
5 1/4" (13cm) 43 mm DEPTH



6241AX

COAXIAL 2-WAY, 4" (10cm)
30 WATT (MAX. MUSIC)
20 WATT (MAX.)
70Hz - 21kHz
4" (10cm) 40 mm DEPTH



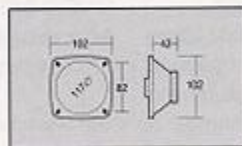
MAKER	TYPE	SPEAKER POSITION							ALPINE Speakers to be installed
		DASH (UPPER)	DASH (SIDE)	KICK PANEL	FRONT DOOR	REAR DOOR	REAR PILLAR	REAR DECK	
ALFA ROMEO	164				•				6251AD, 6251AD
ALFA ROMEO	75				•				6251AD, 6251AD
ALFA ROMEO	33				•				6251AD, 6251AD
FIAT	UNO		•						6261AX, 6261AX
FIAT	TIPO	•							6261AX, 6261AX
FIAT	CROMA		•						6261AX, 6261AX
LANCIA	DELTA		•						6261AX, 6261AX
LANCIA	Y-10				•				6261AX, 6261AX
LANCIA	THEMA		•						6261AX, 6261AX
LANCIA	THEMA-SW		•						6261AX, 6261AX
LANCIA	DEDRA	•							6261AX, 6261AX
MASERATTI	B-Turbo/425				•				6261AX, 6261AX
SAAB	900/9000	•							6261AX, 6261AX
VOLVO	440				•				6261AX, 6261AX
VOLVO	740/760				•	•			6261AX, 6261AX
VOLVO	480				•				6261AX, 6261AX

T = Tweeter



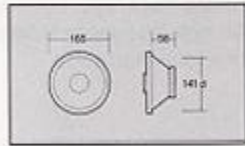
6242AX

COAXIAL 2-WAY
45 WATT (MAX. MUSIC)
30 WATT (MAX.)
70Hz - 21kHz
4" (10cm) 43 mm DEPTH



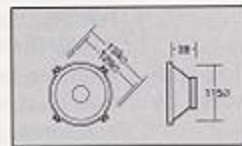
6261AX

COAXIAL 2-WAY
80 WATT (MAX. MUSIC)
40 WATT (MAX.)
50Hz - 21kHz
6 3/4" (17cm) 58 mm DEPTH



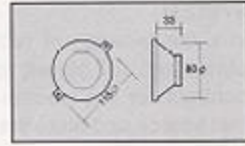
6157AD

DUAL CONE
45 WATT (MAX. MUSIC)
30 WATT (MAX.)
60Hz - 20kHz
5 1/4" (13cm) 45 mm DEPTH



6137AX

DUAL CONE
30 WATT (MAX. MUSIC)
20 WATT (MAX.)
80Hz - 20kHz
3 1/2" (8cm) 33 mm DEPTH



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A

AUTOMATIC CASSETTE GUIDE

Projects the loading and ejecting cassettes automatically.

AUTO MEMORY

Locates the six strongest stations in the band and presets them.

AUTO METAL DETECTOR

Detects metal tape and switches to metal tape mode upon loading.

B

BLANK SKIP

When a blank section of tape lasts longer than 15 seconds, automatically skips to the next track.

BRIDGEABLE AMPLIFIER

An amplifier in which two channels can be combined to give approximately double the power in a single channel.

C

CD SHUTTLE CONTROL FUNCTIONS

Functions that enable CD Shuttle operations to be controlled (Operations may differ on different models.).

CD STRAIGHT

This function completely by-passes tone control circuits, connecting the CD signal directly to the amplifier, for highest fidelity reproduction.

CODE IN (5700)

An anti-theft system based on input of a four-digit code.

D

D.A.P. (Direct Access Preset)

Provides direct access to six preset stations, without first needing to select the band on which they broadcast.

DIMMER

Adjustable display brightness to match dashboard illumination level.

DIRECT SOURCE ACCESS SYSTEM

In a combination of radio/cassette player and CD player, touching the controls for any source will select that source and mute the other(s).

8 CM/12 CM DISC PLAY

Automatically adapts to handle 8 and 12 cm CDs.

DISC PAUSE

Temporary pause of CD play.

DOLBY NOISE REDUCTION

Dolby B: Dolby B noise reduction system. Dolby B/C: Both Dolby B and Dolby C noise reduction systems (selectable).

DETENT VOLUME CONTROL

A volume control with click-stop settings for clear and positive control.

DUAL ILLUMINATION

Provides a choice of amber or the traditional green illumination.

DUO- β CIRCUIT

A special negative-feedback circuit, usually reserved for high-end home audio systems, that feeds back AC and DC signals separately, for greater stability and much lower distortion.

DUST GUARD DOOR

A cassette door that remains shut even after the cassette is loaded in order to protect the tape.

DYNAMIC RANGE CONTROLLER

Compresses or expands the dynamic range of the programme source to suit individual systems and overcome road noise.

E

ELECTRONIC VOLUME AND TONE CONTROL

A system that enables one knob to control volume and tone settings which are retained in memory.

ETR/PLL SYNTHESIZED TUNER

An electronic tuning system that locks onto a station and ensures optimum reception.

F

FL DISPLAY

Stands for fluorescent display. Features exceptionally clear indications of the various modes and functions independent of ambient lighting.

GOLD PLATED PIN JACK CONNECTORS

Permanently preserves low-level signals from the problems caused by contact resistance.

H

HLTAC HEAD

HLTAC is a high torque motor (15 mm diameter, special non-austenitic material).

HLTAC II HEAD

A further improvement, specially profiled and with a narrow gap, for even better high and low-frequency response.

I

IGNITION KEY-OFF PAUSE

Automatically disengages the pinch roller from the capstan when ignition is turned off, to protect tape.

INTELLIGENT PRESET STATION SCAN

Scans preset station frequencies but skips those where good reception is impossible.

M

MEMORY EDIT SYSTEM

Allows preset stations already stored in memory to be re-assigned.

MIX (RANDOM PLAY)

Shuffles CD tracks for playback in random order.

MUSIC SCAN

Searches for the start of selection, play it for 10 seconds, then moves to the next.

MUSIC SENSOR (UP/DOWN)

Automatically locates the next selection in either direction.

N

NEODYMIUM MAGNET

Powerful boron ferrous alloy, even stronger than samarium cobalt, for high power in a compact size. Ideal for use in advanced speakers.

NEW J.B.

Shielded as a bracket with better connections to cut signal loss and improve sensitivity. New carrying handle.

NFTONE CONTROLS

Negative feedback type tone controls which ensure very low distortion and a wide range of control.

NON-PRESSED CONE

A strong, non-pressed paper cone used only in high-end home audio systems. Combining light weight, strength and inertial loads for richer, more dynamic bass reproduction.

O**OMITTED TRACK MEMORY**

Programming function that enables selected CD tracks to be omitted at playback.

P**PLL AUTO GAIN SERVO**

Digital phase-locked loop circuit for focus and tracking servos in the CD player mechanism.

POINTED ADDRESS

An LED/optical-fiber dot of one colour, located at the center of a button of a different colour that light to indicate when the button/function has been selected.

POLYIMIDE

A high-tech polymer with ideal acoustic properties for tweeter domes that is highly resistant to heat and moisture.

POWER FADER

Controls relative levels between front and rear speakers connected to the unit.

POWER LOADING

A system that loads and ejects cassettes or CDs automatically.

PRE-AMP FADER

Controls relative levels between the outputs provided to an external amp.

PREFERRED TRACK MEMORY

Selects specific CD tracks for playback.

PROGRAM PLAY

Allows programming of desired selections and the desired seek direction.

PTM (pulse with modulation)**POWER SUPPLY**

A power converter that changes the 12-volt battery supply to a much higher voltage for high-power amps, with excellent regulation and efficiency. The stable switching frequency minimizes radio-frequency interference.

Q**QRB**

Quick Release. Allows quick release of cassette from the car.

QRMINDER

A buzzer that sounds when the QRB quick release is not used.

R**RADIO DATA SYSTEM (RDS)**

A new system for broadcasting network station programme and traffic information, with automatic retuning and other convenient features which were never before available.

RADIO MONITOR

Automatically switches back to radio during cassette FF/REW modes.

RECOMMENDED SOURCE TONE

Four factory preset equalization curves tailored to specific programme material (3339).

REPEAT

A function that enables one or more tracks to be replayed.

RETURN/EJECT

Ejects a tape automatically after the cassette has played to the end of the second (reversed) side.

S**SCC HEAD**

ALPINE's exclusive high-performance tape head.

SDK

These initials identify a system of road information broadcasts that is common in German-speaking areas of Europe.

SELECTABLE FADER (PRE/POWER)

Offers a choice of high-power fader or pre-amp fader control (power fader and pre-amp fader).

SEPARATE BASS & TREBLE

Independent precision control for both low and high frequency sounds.

SOUND FIELD EXPANDER

Creates a more spacious sound in the car. In the 3339 it is a three-way selector.

STUCK CD CONE MEMORY

A memory function that stores bass and treble settings for each programme source (CDs cassettes and FM/MW/LW broadcasts).

STABILIZED CAPSTAN DRIVE

Minimizes mechanical noise and improves tape transport stability.

STAR CIRCUITRY

An exclusive ALPINE circuit configuration that provides each major block with its own ground line to cut out noise and interference.

STATUS MONITOR

An indicator lamp that changes colour to show when normal operation has begun.

T**TAPE PLAY PAUSE**

For temporarily stopping tape playback.

TRUE FF/REWIND

Logically correct indication of FF/REWIND direction related to playback direction.

T-10 II TUNER

Tuning unit incorporating the original ALPINE IC innovations in the FM section.

T-10 II TUNER

The T-10 II tuner with enhanced sensitivity and improved high-level signal handling ability in all wavebands.

U**UP/DOWN SEEK**

Automatic finding and tuning of stations either higher or lower in frequency.

ACCESSORIES

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	Kind of Accessory	Description	Price
INTERCONNECTOR	RCA-RCA	Dual RCA Connector	4086
		Female RCA Interconnector	4402
	RCA-DIN	Interconnector (RCA to DIN)	4095
		Interconnector (DIN to RCA)	4096
	CD Player	Speaker Out to RCA AUX-IN	4301
	High Power Radio Cassette	Speaker Out to RCA Input	4311
	Regular Power Radio Cassette	Speaker Out to RCA Input	4300
	AMP	Dual AMP Balancer	4312
For 3339	Extension mini DIN Cable, 3 m	4912	
EXTENSION CABLE	RCA Cable	OFC RCA Extension Cable, 0,8 m	4409
		PC-OCC RCA Extension Cable, 2 m	4420
		OFC RCA Extension Cable, 2 m	4421
		PC-OCC RCA Extension Cable, 4 m	4450
	Speaker Cable	Speaker Cable, 5 m	4445
POWER SUPPLY ACCESSORIES	Power Supply	Power Supply Kit/6 Terminals	4046
		Power Supply and Remote-on Cable for 30 A, 7 m	4330
		Power Supply and Remote-on Cable for 60 A, 7 m	4331
		Power Supply and Remote-on Cable for 30 A, 3 m	4334
		Power Supply and Remote-on Cable for 60 A, 3 m	4335
SHUTTLE ACCESSORY	For 5953/3339	Flexible Stand	4137
		DIN Size Mount Bracket	4932
	For 7618R	Wireless Remote Control Unit	4370
	For 5952V, 5957, 5959	CD Magazine	4905
	Extension Cable	8-Pin DIN Cable between 5952V, 5957, 5959 and Control Unit, 2 m	4910
		4 Pin/4 Pin Extension Cable between Audio Box of 5953 and Head Unit, 2 m	4911
Interconnector	Interconnector between RCA/DIN and DIN	4913	
NOISE SUPPRESSOR	Relay Noise	Auto Capacitor	4017
	Motor Noise	Motor Noise Suppressor, 20 A	4020
	Alternator Noise	Alternator Noise Suppressor, 20 A	4078
		QRB Connector for Suppressor, 30 A	4080
	Ground Noise	Ground Noise Canceller	4098
OTHERS		Tweeter Installation Kit for VW Golf	4610
QRB ACCESSORY	CONNECTOR	QRB Connector for '89 Regular Power Models	4541
		QRB Connector for '89 High Power Models	4542
		QRB Connector for '89 CD Player or Radio/Cassette	4543
		QRB Connector for '90 7288MM/L	4552
		QRB Connector for '90 7291	4553
		QRB Connector for '90 Regular Power Unit	4561
		QRB Connector for '90/'91 Radio Cassette	4562
		QRB Connector for '90/'91 Radio Cassette with CD Shuttle Control Function	4563S
		QRB Connector for '91 CD Tuner	4564
		Case	Inner Case and Face Plate
		QRB Mother Case for '89 Models	4545
	QRB Mother Case for '90/'91 Models	4560	

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4086



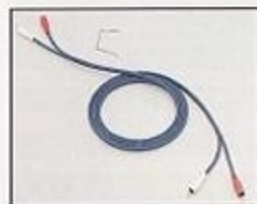
4095/4096



4301



4312



4420

4409 0,8 m
4451oz 5 m

4445



4046



4330



4137



4905



4910



4911



4017



4020



4078



4541/4542/4543/4553



4334/4335



4100



4545/4560

FEATURES

HEADLINE		CD PLAYER										DAT		DIP CASSETTE PLAYER									
RADIO, CASSETTE PLAYER, DAT/CD PLAYERS, & TUNERS		5959	5957	5952V	5955V	5953	1390L	7909L	7906R	7803M	7915M	5903S	5700	7618R	7294R	7291R	7292LS	7516MM	7516L	7290L	7190L	5255	
TUNER	ETR/PLL Synthesized T-10 II Tuner					●	●	S	S	S			S	S	S	●	S	S	●	●			
	Preset Stations FM					(6x2)	6x2	6x2	6x2	6x2	6x2			6x2	6x2	6x2	6x2	6x2	6x2	6x2	6x2	6x2	
	MW/LW					(6/6)	6/6	6/6	6/6	6/6	6/6			6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	
	D.A.P. (Direct Access Preset)					(6)	6	6	6	6	6			6	6	6	6	6	6	6	6	6	
	Auto Memory					(●)	●	●	●	●	●			●	●	●	●	●	●	●	●	●	
	Preset Station Scan (I=Intelligent)									I	I						I	I	I	I	I	I	
	Preset Address (P=Pointed Address)					(P)		P	LCD	LCD	LCD			LCD	P	LCD	LCD	LCD	LCD	LCD	LCD	LCD	
	RDS/Traffic Information								RDS	SDK	SDK			RDS	RDS	RDS		SDK					
	E.O.N. (Enhanced Other Network)																						
	Up/Down Seek					(●)	●	●	●	●	●			●	●	●	●	●	●	●	●	●	
	Stereo/Mono Switch					(●)	●	●	●	●	●			●	●	●	●	●	●	●	●	●	
	Multipath Hunter																						
	FM Level Switching																						
	CASSETTE	Auto Reverse													●	●	●	●	●	●	●	●	●
		Ignition Key-Off Pause													●	●	●	●	●	●	●	●	●
Automatic Cassette Guide														●	●	●	●	●	●	●	●	●	
Full Logic Control (Mechanism)														GR-H	GR-Y	GT	GT	GR-Y	GR-Y	GT	GT	GR	
True FF/REW																							
Head														HLIACH	HLIAC	SCC	SCC	SCC	SCC	HP	HP	SCC	
Music Sensor (D=Direct Sensor)															●	●	●	●	●	●	●	●	
P.S. (Program Sensor)															●	●	●	●	●	●	●	●	
Music Scan																							
Blank Skip																							
Repeat																							
Return Eject																							
Tape Play Pause															●	●	●	●	●	●	●	●	
Dolby Noise Reduction														B/C	B/C	B	B	B	B			B	
Auto Metal Selector															●	●	●	●	●	●	●	●	
Radio Monitor																							
Dust Guard Door																							
CD/DAT	Music Sensor Up/Down	(●)	(●)	(●)	(●)	(●)		●	●	●	●	●	●				●	●	●	●	●		
	Forward/Backward	(●)	(●)	(●)	(●)	(●)		●	●	●	●	●	●				●	●	●	●	●		
	Power Loading																						
	Mix (Random Play)	(●)	(●)	(●)	(●)	(●)		●	●	●	●	●	●				●	●	●	●	●		
	Music Scan	(●)	(●)	(●)	(●)	(●)		●	●	●	●	●	●				●	●	●	●	●		
	P.T.M. (Preferred Track Memory)	(●)	(●)	(●)	(●)	(●)		●	●	●	●	●	●				●	●	●	●	●		
	Repeat	(●)	(●)	(●)	(●)	(●)		●	●	●	●	●	●				●	●	●	●	●		
	Disc (DAT) Play/Pause	(●)	(●)	(●)	(●)	(●)		●	●	●	●	●	●				●	●	●	●	●		
	Oversampling Rate	8 fs	8 fs	8 fs				8 fs	8 fs	8 fs	8 fs	8 fs	2 fs										
	Number of Bit	20-bit	20-bit	16-bit				16-bit	16-bit	20-bit	20-bit	16-bit	16-bit										
	Number of DAC	4	2	2				2	2	2	2	2	1										
	Digital Deemphasis	●	●	●																			
	Noise Shaping	●	●	●																			
	GENERAL	CD Straight																					
		CD Shuttle Control Function				●	●		●						●	●	●	●	●	●	●	●	●
Output Power (Built in Amp)										2x30					2x25	2x25	2x25	2x25	2x25	2x25	2x6	2x25	
Selectable Fader (Pre/Power)																							
Power Fader																							
Pre Amp Fader																							
Pre Out		1	*1	*1		2	1	2	2	1	2	2	2	2	1	1	1	1	1	1	1	1	
Aux In																							
S.T.M. Source-Tone Memory																							
Separate Bass & Treble Controls (E=Electronic)						E		●	●	E	E	●	●	E	E	●	●	●	●	●	●	●	
Loudness																							
Detecting Control (E=Electronic)						E				**E	**E			**E	**E								
Speaker Control																							
Display																							
Card Reader Controller (Included)																							
Power Antenna Lead																							
Anti Theft							W4302	ORB	ORB	ORB	ORB	CODE	ORB	ORB	ORB	ORB	ORB	ORB	ORB	ORB	ORB		
ORB Minder																							
Wireless Remote Control Acceptable																							
Dual Illumination																							
Direct Source Access							●	(●)	●	●	●	●	●	●	●	●	●	●	●	●	●		
Dimmer																							
Gold Plated Pin Jack Connector																							

The word Dolby and the -Double-D- symbol are trademarks of Dolby Laboratories. All specifications, features and design are subject to change without notice. CD Shuttle copyright is under license to Eurotec International Limited. New ORB: New Connector & New Handle

SPECIFICATIONS

HEADPHONES (1.5 Ω CASSETTE LEADS) DAT/CYCLEPLAYERS, CASSETTE PLAYERS & TUNERS		CD PLAYER										DAT		RADIO/CASSETTE PLAYER								
		5959	5957	5952	5955*	5953	1390L	7909L	7906R	7803M	7915M	5903S	5700	7618R	7294R	7291R	7292LS	7516MM	7516L	7290L	7190L	5255
TUNER	Tuning Range (87.5 - 108 MHz)	-	-	-	-	-	•	•	•	•	•	-	-	•	•	•	•	•	•	•	•	-
	Mono Usable Sensitivity (1.5 μV)	-	-	-	-	-	•	•	•	•	•	-	-	•	•	•	•	•	•	•	•	-
	50 dB Quieting Sensitivity (20.7 dB)	-	-	-	-	-	•	•	•	•	•	-	-	•	•	•	•	•	•	•	•	-
	Alternative Channel Selectivity (80 dB)	-	-	-	-	-	•	•	•	•	•	-	-	•	•	•	•	•	•	•	•	-
	Signal-to-Noise Ratio (60 dB)	-	-	-	-	-	•	•	•	•	•	-	-	•	•	•	•	•	•	•	•	-
	Stereo Separation (35 dB)	-	-	-	-	-	•	•	•	•	•	-	-	•	•	•	•	•	•	•	•	-
	Capture Ratio (2.0 dB)	-	-	-	-	-	•	•	•	•	•	-	-	•	•	•	•	•	•	•	•	-
MW	Tuning Range (kHz)	-	-	-	-	-	531~	531~	531~	531~	531~	-	-	531~	531~	531~	531~	531~	531~	531~	531~	-
	Sensitivity (μV)	-	-	-	-	-	1,602	1,602	1,602	1,602	1,602	-	-	1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602	-
	Tuning Range (kHz)	-	-	-	-	-	153~	153~	153~	153~	153~	-	-	153~	153~	153~	153~	153~	153~	153~	153~	-
LW	Sensitivity (μV)	-	-	-	-	-	281	281	281	281	281	-	-	281	281	281	281	281	281	281	281	-
	Tuning Range (kHz)	-	-	-	-	-	20	20	20	20	20	-	-	20	20	20	20	20	20	20	20	-
	Sensitivity (μV)	-	-	-	-	-	20	20	20	20	20	-	-	20	20	20	20	20	20	20	20	-
CASSETTE	Wow and Flutter (% WRMS)	-	-	-	-	-	-	-	-	-	-	-	-	0.06	0.08	0.09	0.09	0.08	0.08	0.09	0.09	0.08
	Tape Speed (4.8 cm/sec.) (%)	-	-	-	-	-	-	-	-	-	-	-	-	±0.7	±0.7	±1	±1	±0.7	±0.7	±1	±1	±0.7
	Stereo Separation (40 dB)	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•
	Signal-to-Noise Ratio (55 dB) Dolby Off	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•
	Signal-to-Noise Ratio (64 dB) Dolby B On	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•
	Signal-to-Noise Ratio (72 dB) Dolby C On	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•
	Frequency Response (Hz ± 3 dB) (Alpine Test Tape)	-	-	-	-	-	-	-	-	-	-	-	-	20~	30~	-	-	30~	30~	-	-	30~
	Frequency Response (Hz ± 3 dB) 70 μs Metal Tape	-	-	-	-	-	-	-	-	-	-	-	-	22k	22k	-	-	20k	20k	-	-	20k
	Frequency Response (Hz ± 3 dB) 120 μs Normal Tape	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40~	40~	-	-	40~	40~	-
	Wow and Flutter (% WRMS)	B.M.L.	B.M.L.	B.M.L.	-	-	-	B.M.L.	B.M.L.	B.M.L.	B.M.L.	B.M.L.	B.M.L.	-	-	-	-	-	-	-	-	-
Signal-to-Noise Ratio (dB)	114	103	*98	-	-	-	110	92	95	95	92	90	-	-	-	-	-	-	-	-	-	
Channel Separation at 1 kHz (dB)	105	90	85	-	-	-	95	-	85	85	85	-	-	-	-	-	-	-	-	-	-	
Dynamic Range at 1 kHz (dB)	**98	96	95	-	-	-	100	-	95	95	92	-	-	-	-	-	-	-	-	-	-	
Total Harmonic Distortion at 1 kHz (%)	0.0025	0.005	0.01	-	-	-	0.002	0.03	0.006	0.006	0.03	0.005	-	-	-	-	-	-	-	-	-	
Frequency Response (Hz)	5~20k	5~20k	5~20k	-	-	-	5~20k	5~20k	5~20k	5~20k	5~20k	-	-	-	-	-	-	-	-	-	-	
Power Output per Channel (Watts)	-	-	-	-	-	-	-	-	2x3	-	-	-	-	2x25	2x25	2x25	2x25	2x25	2x25	2x6	-	
Output Voltage (mV at 10 Kohm)	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Bass at (db)	-	-	-	-	±12	-	±18	±18	±15	±15	±18	±12	±18	±15	±15	±15	±15	±15	±15	±15	±15	
Treble (dB)	-	-	-	-	±12	-	±15	±15	±12	±12	±15	±12	±15	±12	±12	±12	±12	±12	±12	±12	±12	
Loadings at 100 Hz (dB)	-	-	-	-	+10	-	-	-	-	-	-	-	+10	+10	+10	+10	+10	+10	+10	+10	+10	
GENERAL	Case Size mm	Width	279	279	279	-	166	178	178	178	178	178	178	178	178	178	178	178	178	178	178	
	Case Size mm	Height	110	110	110	-	40	40	50	50	50	50	50	50	50	50	50	50	50	50	50	
	Case Size mm	Depth	195	155	170	-	120	153	153	153	153	153	153	140	153	158	158	153	153	153	153	148
	Nose Size mm (Black Box Size mm)	Width	279	279	279	82	158	-	171	171	171	171	171	171	171	171	171	171	171	171	171	171
	Height	71	71	71	61	48	-	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
	Depth	23	23	23	19.5	20	-	16.5	21	21	21	16.5	15	22.6	21	21	21	21	21	21	21	16.5

B.M.L.: Below measurable limit. (*): trunk unit. The word Dolby and the <Double-D> symbol are trademarks of Dolby Laboratories. All specifications, features and design are subject to change without notice. CD Shuttle copyright is under license to Eurotec International Limited. * 5955 with FM modulator (90 x 25 x 45 mm) ** 98 dB EIAJ 16 bit CD Measurement standard

SPECIFICATIONS AMPLIFIERS

		3544	3542	3541	3540	3566	3554	3552S	3550	3503	3531	3501 ⁰²	3339	3331	3401	3672	3655	3653	
Maximum Power Output (W)		2 x 210	2 x 125	2 x 100	2 x 85	4 x 80 2 x 120	4 x 120	4 x 90	4 x 70	2 x 40	4 x 40	2 x 25	-	-	-	-	-	-	
Continuous Average Power Output into 4 ohm 20 Hz - 20 kHz (0.04% THD) (W)		2 x 150	2 x 80	2 x 40	2 x 30	4 x 50 2 x 60	4 x 50	4 x 35	4 x 25	2 x 15 (0.8% THD)	2 x 15 (0.8% THD)	-	-	-	-	-	-	-	
Mode Power Output into 4 ohm 1 kHz (10% THD) (W)		630 (M2W)	270 (M2W)	220 (M2W)	190 (M2W)	2 x 180 1 x 280	20% 2 x 200 30% 2 x 180 1 x 280	20% 2 x 140 30% 2 x 70 1 x 100	20% 2 x 100 30% 2 x 50 1 x 100	-	-	-	-	-	-	-	-	-	-
S/N Ratio (HF-A Weighted) (dB)		110	108	108	105	105	105	105	105	90	90	90	108	100	100	100	100	100	
Frequency Response (Hz)		10-50k (+0, -1dB)	10-50k (+0, -1dB)	10-50k (+0, -1dB)	10-50k (+0, -1dB)	10-50k (+0, -1dB)	10-50k (+0, -1dB)	10-50k (+0, -1dB)	10-50k (+0, -1dB)	20-50k (+0, -1dB)	20-50k (+0, -1dB)	20-50k (+0, -1dB)	10-50k (± 1dB)	20-50k (± 3dB)	10-50k (± 1dB)	10-50k (+0, -1dB)	10-50k (± 1dB)	10-50k (± 1dB)	
Crossover Point (Hz)		-	-	-	-	80 -18dB/Oct	80 -18dB/Oct	80 -18dB/Oct	-	-	-	-	80 -18dB/Oct	50 - 120 (continuously) -18dB/Oct	-	Front Low 50 - 10k Front Hi 3k - 10k Subwoofer 50 - 120 Rear Low 10 - 120 Rear Mid 200 - 2k Rear Hi 2k - 10k (Resistive)	Low: 50 - 10k Hi: 4k - 10k (Resistive)	Low: 50 - 500 Hi: 1k - 10k (Variable)	
Equalizer Frequency (Hz)		-	-	-	-	-	-	-	-	-	-	-	31.5, 63, 125, 180, 250, 500, 1k, 2.2k, 4.5k, 9k, 18k	31.5, 63, 125, 180, 250, 500, 1k, 2.2k, 4.5k, 9k, 18k	Front: Band 1 50 - 600 Band 2 100 - 5k Band 3 1.2k - 22k Rear: Band 1 20 - 700 Band 2 60 - 2.6k Band 3 400 - 13.2k Band 4 1.2k - 22k	-	-	-	
Tone Action Boost Cut (dB)		-	-	-	-	-	-	-	-	-	-	-	± 12 0 - +18 Subwoofer	± 12 0 - +15 Subwoofer	± 15 ± 6 (Low) ± 6 (Mid) ± 6 (High) 0 - +12 Subwoofer	0 - +12 (Low) ± 6 (Mid) ± 6 (High)	0 - +12 (Low) ± 6 (High)		
Output Gain control (dB)		-	-	-	-	-	-	-	-	-	-	-	-	-	0 - -20	•	•	•	
Input Sensitivity	Fix (mV)	500	500	500	500	-	500	500	500	-	-	500	500	500	500	500	500	500	
	Variable (mV)	100 - 2V	100 - 2V	100 - 2V	100 - 2V	100 - 2V	100 - 2V	100 - 2V	100 - 2V	100 - 2V	100 - 2V	100 - 2V	Speaker 2V	-	-	-	-	-	
Input Connector	RCA	•	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	
	Speaker	-	-	-	-	-	-	-	-	•	•	•	•	•	•	-	-	-	
Subwoofer Control Function	On/Off	-	-	-	-	•	•	•	-	-	-	-	•	•	•	•	•	•	
	Phase	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	
	Stereo/Mono	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	
Battery Check Function (Voltage Meter)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acoustic Compensation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
D.R.C. (Compressor)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sound Width Position		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dimmer		-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	
Equalizing Memory		-	-	-	-	-	-	-	-	-	-	-	4 x 2	-	-	-	-	-	
Status Monitor		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Dup-β Circuit		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
S.T.A.R. Circuit		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Gold Plated Terminal		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Dimensions (mm)	W	263	220	220	204	263	263	220	320	320	148	148	117(170)	178	240	240	160	168	
	H	55	51	51	44	55	55	51	40	46	31	31	46 (25)	25	40	40	40	44	
	D	308	180	180	138	340	300	270	250	100	158	70	23 (150)	150	160	190	120	128	

All specifications, features and design are subject to change without notice.
 (*) A passive dividing network is also available (3732, 3731, 3721; see page 37).

(*) Dimensions are of 3339 base unit.
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SPECIFICATIONS SPEAKERS

Model	Type	max. Music Power (W)	max. Power (W)	nominal Impedance (Ω)	Frequency Response (Hz)	Sensitivity (dB/m)	Installation Dimensions (mm)	Depth (mm)	Woofer Weight (g)
6963	6" x 9" (15 x 23 cm) Coaxial 2-way	150	100	50	44 ~ 22k	89	223 x 151	80	383
6663	6½" (16 cm) Coaxial 2-way	150	100	50	47 ~ 22k	88	126	68	330
6560	Component 2-way	150	100	50	50 ~ 22k	87	120	55	283
6011	1" (2.5 cm) Dome Tweeter	150	100	50	2k ~ 22k* (7.5k ~ 22k)	88	54	-	14
6041	4" (10 cm) Mid Range	180	120	60	100 ~ 17k* (1.5k ~ 7.5k)	87	103	46	211
6051	5¼" (13 cm) Mid Range	180	120	60	75 ~ 15k* (1.5k ~ 7.5k)	87	116	52	226
6061	6½" (16 cm) Mid Woofer	180	120	60	50 ~ 8k* (80 ~ 1.5k)	87	144	71	327
6013	10" (25 cm) Subwoofer	300	200	100	22 ~ 1.2k* (20 ~ 80)	89	230	117	721
6014	15" (38 cm) Subwoofer	600	450	300	30 ~ 500	96	354	123	1,821
6190	6" x 9" (15 x 23 cm) Subwoofer	-	150	100	30 ~ 6k	92	150 x 220	88	606
6180	8" (20 cm) Woofer/Subwoofer	200	150	100	30 ~ 6k	89	183	96	857
6010AX	½" (1.4 cm) Dome Tweeter	120	80	40	2.5k ~ 22k	91	-	-	-
6397CX	6" x 9" (15 x 23 cm) 3-way	90	60	30	48 ~ 22k	92	150 x 222	66	188
6297AX	6" x 9" (15 x 23 cm) Coaxial 2-way	90	60	30	48 ~ 21k	92	151 x 233	66	188
6367CX	6½" (16 cm) 3-way	90	60	30	55 ~ 21k	91	127	46	188
6267AX	6½" (16 cm) Coaxial 2-way	90	60	30	55 ~ 20k	91	127	46	188
6257CD	5¼" (13 cm) Coaxial 2-way	60	40	20	60 ~ 21k	91	112	38	181
6247CD	4" (10 cm) Coaxial 2-way	45	30	15	70 ~ 21k	90	102	43	157
6386	8" (20 cm) 3-way	150	100	50	45 ~ 21k	92	182	82 (52)	424
6366CX	6½" (16 cm) 3-way	120	80	40	50 ~ 22k	91	125	52	231
6680	6½" (16 cm) 3-way	60	40	20	60 ~ 21k	91	134	38	170
6256CD	5¼" (13 cm) Coaxial 2-way	90	60	30	55 ~ 21k	90	114	47	181
6056AD	5¼" (13 cm) Component 2-way	120	80	40	50 ~ 22k	89	114	50	185
615202	5" (12 cm) Dual Cone	30	20	10	97 ~ 20k	88	107	29	113
6246SX	4" (10 cm) Coaxial 2-way	60	40	20	95 ~ 21k	86	102	42 (37)	122
6204AX	4" x 6" (10 x 15 cm) Coaxial 2-way	60	40	20	60 ~ 21k	90	101 x 151	46	152
6221AX	4" x 6" (10 x 15 cm) Coaxial 2-way	60	40	20	60 ~ 21k	90	142 x 85	40	152
6251AD	5¼" (13 cm) Coaxial 2-way	60	40	20	60 ~ 21k	90	116	43	100
6241AX	4" (10 cm) Coaxial 2-way	60	40	20	60 ~ 21k	90	109	50	152
6242AX	4" (10 cm) Coaxial 2-way	45	30	15	70 ~ 21k	90	102	43	126
6157AD	5¼" (13 cm) Dual Cone	45	30	15	60 ~ 20k	90	115	38	126
6261AX	6¼" (17 cm) Coaxial 2-way	60	40	20	50 ~ 21k	91	141	58	181
6137AX	3½" (8 cm) Dual Cone	30	20	10	80 ~ 20k	88	80	33	152

All specifications, features and design are subject to change without notice.

*Recommended Crossover Point

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