

 **ALPINE**®

Car Audio Systems

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SOME EXCELLENCE



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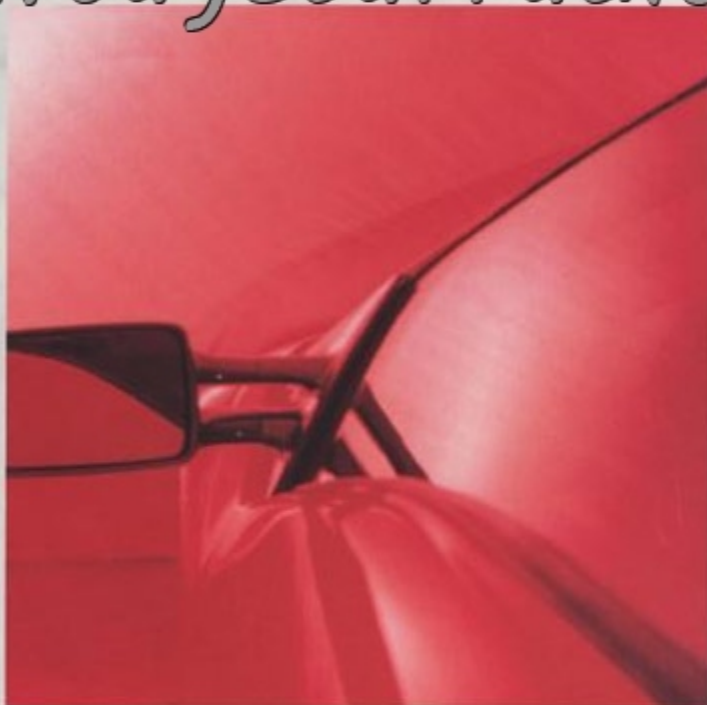
A new decade begins. And a new
ALPINE's tireless quest for the
ultimate in Sonic Excellence once
again redefines the state of the art

to art. To new streets, new
visions of motoring and listening
pleasure.



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THE QUEST FOR SONIC EXCELLENCE USHERS
IN A NEW DIGITAL AGE
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DIGITAL TECHNOLOGY

ALPINE's lineup of digital car audio products embodies the latest in digital technology for unrivaled performance and sound quality.

Reaching New Heights of In-Car Digital Performance

In mobile digital fidelity – CD and DAT – ALPINE remains the leader. As in the CD Shuttle 5952S and 7909L system, ALPINE's new models feature innovative human engineering designs and advanced digital circuit technology and precision mechanisms to deliver uncompromising sound quality matched by outstanding operational convenience.

Design Creativity for Easier Installation and Visual Perfection

Since the 5952, ALPINE has boasted the world's smallest CD changer, thanks to innovative and unique concepts. So when it comes to design, the new 5952S CD Shuttle is a true masterpiece.

The new improvements are obvious: further size reduction, curvilinear exterior, easy tri-mount (90/0/30-degree) installation system, and up

to 30-degree tilt capability.

To control the 5952S, ALPINE offers a full lineup of dedicated controllers and head units. Outstanding among these is the 7909L, featuring ALPINE's clean lines and an elegant touch that reflects 1990 design trends. The 7909L also features a new, more ergonomic curved keypad and a visually exciting display technology.

There's also the convenient Quick Release Bracket complete with comfortable handle.





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Advanced Digital Signal Processing Technology

From digital filtering to digital-to-analog conversion, ALPINE continues to make dramatic strides in CD Player technology.

All 1990 models employ 8-times oversampling digital filters. For the de-emphasis required by some CDs, some particular ALPINE models use precision digital de-emphasis circuitry which offers sound quality superior to that of the usual operational amplifier circuits. Taking digital signal processing to still greater heights, ALPINE has incorporated 21-bit noise shaping in selected models. This effectively suppresses high range noise within the audible band. Independent DACs comprise ALPINE's 16-bit Twin DAC approach to digital-to-analog conversion, avoiding time lag between the two stereo channels. Based on the proven sound quality of ALPINE's digital technology, the 7909L employs 18-bit DACs for further improvement in linearity and monotonicity characteristics.

Precision Mechanisms and Powerful Control Technology for Optimum Tracking Accuracy.

ALPINE's technology also arranges the complex optical servo mechanism which help retrieve the digital data from a compact disc. The Balanced Servo Drive circuit of the 5952S avoids the tendency toward servo

overcompensation when faced with tracking difficulties caused by vibrations or large surface imperfections.

Similarly, the 7903MS uses a Digital PLL servo, while servo technology helps maintain constant servo gain regardless of ambient thermal or disc conditions and long operation. The optical pickup itself features anti-backlash lead screw design with a 3-beam design for on-the-road dependability. Meanwhile, Direct Coupling Floating circuit technology avoids the need for the coupling capacitors which muddy the sound in conventional components.

The Closer You Look, the More ALPINE Stands Out

Many car audio components look impressive from the front. But ALPINE continues to impress from all angles, inside and out. Take Block Module Construction, for example - it minimizes wiring requirements, while maintaining superior performance stability and sound excellence.

The DC-DC Converter power supply in the 7909L is also exemplary, with its power MOS device for high signal-to-noise ratio and wide dynamic range. ALPINE's attention to detail includes the audio circuit parts and chassis. From their contribution to sound quality, from the gold plated connectors to the isolated servo power supply configuration.

Operational Versatility for Added Convenience

Outstanding sound quality is one of the basic reasons why digital sources have won such a huge following in such a short time period. But operational convenience has also been a key factor in digital's success. To raise this convenience to even higher levels, ALPINE offers two advanced memory based functions. Omitted Track Memory (OTM) lets you be the judge of what you don't want to hear. You can tell the player to skip over particular songs that you prefer not to listen to. And of course, Direct Source Select (DSS) which minimizes button pushing - a safety and convenience feature for the automobile driver.

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THE NEW ALPINE CD SHUTTLE -

The ideal CD Shuttle system for
Whichever system you choose, whatever the space
unrivaled listening pleasure

5953



All in one! The perfect combination of CD Shuttle and tuner control for the 1390L tuner.

5954



Dedicated CD Shuttle control for adding to Alpine radio/cassette player systems.

5955



The easiest way to give your existing system CD Shuttle versatility!

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CD-CHANGER (CD-Shuttle)

8 x Oversampling

16bit Twin DAC (Digital Analog Converter)

Digital De-emphasis

Noise Shaping (21bit)

Program Play (60 Titles x 12 Magazines)

Anti Vibration DR Mechanism

M.I.X. (Random Play)

Compact Round Design

Flexible Installation

ALPINE's CD Shuttle systems offer hours and hours of non-stop music with the only and designs that only digital audio can provide. The "clearest" example yet of Sonic Excellence at its finest.

ALPINE ingenuity has scored yet another breakthrough. Not satisfied with what had already been the smallest CD Shuttle system of its kind in the world, our engineers went to work to make it even smaller...and more advanced.

The result of their efforts is the 5952S. Aside from giving it rounded contours for a sleeker, more streamlined appearance, the 5952S has also been given new, state-of-the-art digital technology, including 8-times oversampling, 21-bit noise-shaping circuits, Twin D/A (digital to analog) Converters,

and a DR mechanism, not to mention high performance analog circuitry. The result is much higher digital processing resolution, and hence far truer and detailed reproduction of sound, especially in the low ranges. Incorporating de-emphasis into the digital section also contributes to vastly improved sound reproduction.

What's more, it has been designed for easy installation into just about any location.

What it all adds up to is the smallest and most advanced car audio digital-source system in the world - compact enough to fit almost any type of automobile, but big enough to deliver hour after hour of purely dynamic music enjoyment.

EXEMPLARY SYSTEM VERSATILITY

every car audio system requirement!

requirements of your car, ALPINE can introduce you to

sure and convenience.

7909L



ALPINE's flagship model with CD player, tuner and CD Shuttle control.

7390M



High-fidelity radio/cassette player plus the advantages of CD Shuttle control.

7288L



Radio/cassette player with CD Shuttle control and a built-in power amp.

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7909L

- CD Tuner with QRB
- CD Changer Control Function
- 6+1 CD Play with 5952S
- ETR/PLL Synthesized T-10 II Tuner (FM/MW/LW)
- 30 Preset Stations/Auto Memory
- D.A.P. (Direct Access Preset)
- Pointed Preset Address
- Up/Down Seek
- 8 x Oversampling
- 18bit Twin DAC (Digital Analog Converter)
- Anti Vibration DP-H Mechanism
- 8 cm/12 cm CD Auto Select
- CD Straight
- Music Sensor Up/Down
- Music Scan
- M.I.X. (Random Play)
- Repeat
- Disc Play Pause
- Power Loading
- FM Display
- Pre Amp
- Single Bass/Treble
- NF Controls
- Pre Out
- S.T.A.R. Circuitry
- Anti Theft QRB

The flagship of ALPINE's digital product lineup, the 7909L is a highly versatile, state-of-the-art unit featuring a built-in CD Player, FM/MW/LW Tuner and CD Shuttle control.

Loaded with sophisticated technologies, including the DP-H mechanism, 18-bit Twin D/A (digital-to-analog) Converters and 8-times oversampling digital filters, it offers unsurpassed performance. It can also provide M.I.X. (random play), Music Scan, Music Sensor, Repeat and Pause.

In combination with the 5952S, it will also control the playing order of the CDs. Counting the disc in the 7909L's own CD Player, you can enjoy the music of up to 6 + 1 CDs. Other innovative features include CD Straight, which bypasses the bass/treble and balance controls for maximized performance from the in-unit CD, and one-touch Direct Disc Selection for any of the discs in the CD Shuttle magazine.

The revolutionary DP-H mechanism

And last but not least the new T-10 II Tuner offers improved station tuning accuracy.



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5953

CD Changer Control Unit
For 5952's 1390L Controller

Preset Play P.T.M.

Music Sensor Up/Down

M.J.X. (Random Play)

Direct Source Access

with 1390L

Black Box ETR T-10 II Tuner
for 5953ETR/PLL Synthesized T-10 II
Tuner (FM/MW/LW)

30 Preset Stations

D.A.P. (Direct Access Preset)

CD Shuttle
Control Function

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This slim-and-trim CD Shuttle control unit is exactly what you need for putting together a topflight system or for adding onto an existing one. It offers complete control of the 5952S

CD Shuttle's functions, letting you play as many as 720 titles in the order you want (programmable play for up to 12 magazines x 60 titles), as well as control of the many features of the 1390L Tuner. There's also the handy new P.T.M. (Preferred Track Memory) feature, which allows you to store in memory the tracks you like best at the touch of a button. A superb choice for expanding your audio listening pleasure.

5954

CD Changer Control Unit

Compact Rounded Design

Flexible Installation

Music Sensor Up/Down

Forward/Backward

Electronic Bass & Treble Control

Electronic Volume Control

LCD Display

CD Shuttle
Control Function

The 5954 is the perfect solution for people who have ALPINE radio/cassette players but also want the added dimension of CD Shuttle versatil-

ity. Tiny enough to fit just about anywhere, this CD Shuttle control unit offers all the convenience and sophistication of the full-featured 5953, only without the tuner option. To complete this dream system, all you need is an external amp, and just like that the world of ALPINE Sonic Excellence is all yours to enjoy.

5955

CD Changer Control Unit

Compact Rounded Design

Flexible Installation

(FM Modulation)

Music Sensor Up/Down

Forward/Backward

M.J.X. (Random Play)

Preset

LCD Display

FM Modulator

CD Shuttle
Control Function

If you want to expand your present system with a top-flight car stereo, ALPINE's 5955 is your ideal solution. This CD Shuttle

control unit is ideal for upgrading any standard-equipped car audio system provided with a built-in amp and FM tuner.

The impressive array of functions controlled by this unit includes Disc Select, Music Sensor (Up/Down), M.J.X. (Random Play), and Disc Select/Repeat. It's the most comprehensive way of achieving the car audio system of your dreams.

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7903MS

Tuner/Compact Disc Player

ETR/PLL Synthesized T-10 II
Tuner (FM/MW/LW)

24 Preset Stations

8 cm/12 cm CD Auto Select

8 x Oversampling

16bit DAC

Digital De-emphasis

Noise Shaping (21bit)

M.I.X. (Random Play)

Anti Theft QRB

The 7903MS Radio/CD Player is an improved model and a splendid example of ALPINE's Sonic Excellence technology. This unit features the DP-S mechanism, an 8-times oversampling digital filter, 16-bit Twin D/A Converters, digital de-emphasis and noise-shaping circuitry for the very best in CD sound reproduction.

The tuner section, too, is all state-of-the-art ALPINE technology.

On top of its superb musical reproduction capabilities, this unit sports a floating air-damped CD mechanism, lighter laser sled and a solid, die-cast chassis to make it tough enough to play right through the shakes, rattles and rolls of the road.



5903S

CD-Player

8 x Oversampling

16bit DAC

Digital De-emphasis

Noise Shaping (21bit)

M.I.X. (Random Play)

Direct Source Access

Anti Theft QRB

A perfect complement to any radio/cassette player system, the 5903S CD Player is loaded with the very latest in ALPINE digital electronics, including the 8-times oversampling digital filter, 16-bit Twin D/A Converters and STAR circuitry.

The advanced DP-S anti-vibration system helps to faultlessly deliver a wide dynamic range of 92dB.

Another of its many outstanding features is a unique Block Module Construction, which ensures the utmost in reliability.

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7800F

Tuner/Compact Disc Player
Integrated BTL-Amp (2x25W)
in DIN-Box

ETR/PLL Synthesized T-10 II S
Tuner (FM/MW)

8 x Oversampling/Twin DAC

New Anti Theft QRB with Minder

The new 7800F is the world's first CD/Tuner unit with both the QRB feature and a built-in 2 x 25W amp! Until now, this was difficult to achieve since the heat generated by the amp adversely affected the CD Player section.

But now, thanks to ALPINE technology, this paradox has been completely solved

There's a lot more that makes the 7800F special, too. For instance, the tuning section is provided with the new T-10 II S FM/AM Tuner, Memory Edit System (M.E.S.) and Multipath Hunter, while the CD Player section boasts an 8-times oversampling digital filter, 16-bit Twin D/A Converters, digital de-emphases and noise shaping circuitry.



5700

DAT (Digital Audio Tape Player)

16bit DAC

Preset Play

Music Scan

S.T.A.R. Circuitry

Anti Theft CODE SYSTEM

The 5700 DAT (Digital Audio Tape) Player offers the superior purity and dynamics of CD sound in a digital tape format. Unlike conventional cassette tapes, DAT has audio signals digitally encoded so tape hiss is virtually non-existent. S/N ratio and dynamic range are rated at 90dB or better, the distortion below 0.005%, and wow and flutter below the measurable limit, sound repro-

duction is remarkably rich and transparent - free of noise.

In addition, ALPINE's state-of-the-art EB rotary mechanism, STAR circuitry and digital filters ensure unsurpassed performance and reliability in virtually any kind of driving environment. It's the new digital wave, and ALPINE's 5700 is at the crest!



5255

Tuner/Control Cassette Player

Pre-amp Type

Direct Memory Search

2x25W Output Power

(BTL Amplifier)

Dolby B Noise Reduction

Anti Theft QRB

This full-logic control cassette player is the ideal analog complement to any radio/CD player. It has been designed to reproduce cassette tape sounds with unmatched quality. In addition, the high precision GR mechanism, it provides extremely accurate and reliable tape transport, while the proven 3CC Head ensures that even the most

delicate nuances are reproduced with excellent clarity.

To fine-tune the full and rich sound reproductions to suit your taste, NF Tone control and Loudness switch are provided. A power 2 x 25W built-in amplifier with 5255 superb stand-alone unit.

Pre-Out/In and Selectable Fader control give you the option of expanding or adding to the system.



PURSuing NEW HORIZONS IN
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RADIO/CASSETTE TECHNOLOGY

In a world of never-ending change and progress,

ALPINE continues its pursuit of creative new innovations and technologies.

ALPINE's Perfectionist Approach to Superlative Performance

It's no small task achieving high quality reproduction of taped recordings under the most demanding conditions. Working as hard as you can to overcome such problems as road and engine vibrations and G force fluctuations during cornering, ALPINE developed the innovative GR mechanism.

The Cassette Player for Uncompromising On-the-Road Fidelity

Providing superb anti-vibration characteristics and enhanced stability, ALPINE's GR mechanism is a tape transport system that offers an array of features specifically designed to enhance your on-the-road listening pleasure. All elements of the base construction are provided with a rock-steady mounting surface. The grooved tape

head prevents tape sticking, avoiding annoying "squeaks" even in high humidity. Instead of an automatic dual-azimuth system with its tendency toward tape transport instability, ALPINE's fixed head system maintains uniformly excellent performance on both tape sides. For improved reliability and tape speed accuracy, the system uses a high-powered V-servo 1-motor drive system. ALPINE's Stabilized Capstan System effectively prevents disturbances resulting from torque on



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the reel reaching the tape transport mechanism. And the unique Floating Suspension System (FSS) virtually eliminates speed fluctuations, maximizing tape stability.

Precision Broadcast Reception and Sonic Purity

The new T-10 II-S Tuner employs advanced Dual Gate MOS-FET in the RF amplifier to vastly improve sensitivity during FM reception. When receiving strong signals, it also helps avoid cross modulation and intermodulation distortion. High-performance ICs in the mixer help to suppress spurious interference generated by the tuning process itself. For AM reception, the Up-Conversion receiver system employs newly developed 1-chip ICs to elevate sensitivity. A newly developed ceramic filter minimizes adjacent channel interference.

Solid Construction Based on Advanced Engineering

Block Module Construction combines rational design with an array of sophisticated circuitry developed to deliver powerful high-fidelity

The power supply is designed to isolate from the rest of the circuitry any voltage fluctuations from external fluctuations. The circuitry also maintains low impedance and prevents pulse noise from disturbing the signal. New high-performance power ICs

give you the output you need while assuring an amazingly low level of distortion. Large heat sinks enhance performance and reliability.

ALPINE's unique STAR circuitry provides separate ground lines for each amplifier block, providing isolated distribution with freedom from interference, for consistently clean, faithful reproduction.

And for improved reception, coaxial connectors reduce noise pickup while shortened distance to the front-end circuitry helps raise sound quality.

Computer Controlled Functions

Enhanced logic control makes tape deck operation simple. Models like the 7288L/MM are even equipped with a 2-chip (4-bit 16K/4-bit 2K) microcomputer for easier control of functions. There are also handy tuner features such as Preset, Auto Memory, Seek, Preset Scan, and a Memory Edit System for convenient memory editing.

And all models are equipped with DAP which lets you store up to six stations on any band in memory for easy access at the touch of a button without having to change wavebands first.

ALPINE greets the 1990s with elegant design. Improved QRB design contributes to even simpler opera-

tion and installation. This Quick Release Bracket combines the convenience and theft-protection of quick release technology with advanced functionality and a highly attractive styling. No longer is it necessary to compromise on audio reproduction quality or exterior design when you require the security of QRB.

New connectors and cables help elevate total tuner performance. To remove, just press a button - the QRB handle provides a comfortable way to carry the unit.

Precise laser etching gives the face design that final touch of sophistication.



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CD Shuttle
Control Function

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7288L

Radio Cassette Player +
CD Changer Control

ETR/PLL Synthesized T-10 II
Tuner (FM/MW/LW)

30 Preset Stations/Auto Memory

D.A.P. (Direct Access Preset)

Full Logic GR Mechanism

Dolby B Noise Reduction

2x25W Output Power
(BTL Amplifier)

Anti Theft QRB

Featuring CD Shuttle control functions, the 7288L offers unlimited potential for car audio enjoyment. It has a highpowered 2 x 25W internal amp, Selectable Fader and Bi-Level capability for easy system expansion, NF-type Bass/Treble controls, Dolby B and the T-10 II Tuner.

For high-fidelity tape reproduction, ALPINE has given it the performance-proven SCC Head and Full Logic GR mechanism. On its own, a superb performer, and in tandem with the 5952S CD Shuttle, a treasure trove of musical pleasure, offering continuous play of up to six CDs.

CD Shuttle
Control Function

7288MM

Radio Cassette Player +
CD Changer Control

Amber Lighting Version

ETR/PLL Synthesized T-10 II
Tuner (FM/MW/LW)

30 Preset Stations/Auto Memory

D.A.P. (Direct Access Preset)

Full Logic GR Mechanism

Dolby B Noise Reduction

2x25W Output Power
(BTL Amplifier)

Anti Theft QRB

The 7288MM is identical in every way to the 7288L, except that the backlighting for the display and functions are amber in colour.



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7289L

Radio Cassette Player

ETR/PLL Synthesized T-10 II Tuner (FM/MW/LW)

30 Preset Stations

Pointed Preset Address

Full Logic GR Mechanism

HLTAC Head Type

Dolby B/C Noise Reduction

2x25W Output Power

(BTL Amplifier)

Anti Theft QRB

The 7289L is an ideal choice for people who demand the most from a premium radio/cassette player. A Pre-Out/In unit with Selectable Fader versatility, it features a built-in two-channel power amp capable of delivering 2 x 25W of clean, unadulterated stereo sound, plus the Full Logic GR mechanism and highly-acclaimed HLTAC Head. Other features like Soft Loading,

True Fast Forward/Rewind, Music Scan, Blank Skip and Dolby B/C make using this unit a sheer pleasure to use.

There's also the exceptionally precise signal reception and conveniences provided by the T-10 II Tuner. Add to this a sleek and attractive design, and you've got a superb player that will do any car audio system justice.



7292L

Radio Cassette Player

ETR/PLL Synthesized T-10 II-S Tuner (FM/MW/LW)

30 Preset Stations/Auto Memory

Pointed Preset Address

Full Logic GR Mechanism

SCC Head Type

Dolby B Noise Reduction

2x25W Output Power

(BTL Amplifier)

Anti Theft QRB

For music lovers who want a radio/cassette player that has it all, the new 7292L is an excellent choice. Starting with its attractively contoured "elegant touch" design and newly refined QRB, this full-featured unit has what it takes to deliver the best of ALPINE Sonic Excellence.

It's equipped with 2 x 25W of clean, unadulterated stereo sound, plus the Full Logic GR mechanism and SCC Head, as well as the Selectable Fader for

easy system expansion. What's more, it boasts ALPINE's brand-new T-10 II-S Tuner for noticeably enhanced radio broadcast reception.

Other sophisticated features include Dolby B, Dimmer, Music Sensor, NF Tone Control and 4-speaker output. The new 7292L is a superb player that will do any car audio system justice. Add to this a sleek and attractive design, and you've got a superb player that will do any car audio system justice.

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7290L

- Radio Cassette Player
- ETR/PLL Synthesized T-10 II-S Tuner (FM/MW/LW)
- 30 Preset Stations/Scan
- D.A.P. (Direct Access Preset)
- Direct Source Access
- Auto Memory
- GT Cassette Mechanism
- 2x25W Output Power (BTL Amplifier)
- Anti Theft QRB

The new 7290L puts the finest in car audio performance within easy reach. Although competitively priced, it offers a full range of features, including NF Tone Control, 4-speaker output, the new Multipath Hunter, Memory Edit System (M.E.S.) and new QRB. The cassette deck section is equipped with the reliable GT mechanism, Hard Per-

malloy head and a 2 x 25W built-in amp. The unit also sports the new T-10 II-S Tuner for improved reception accuracy, as well as conveniences such as DAP and 30-station preset. All in all, a radio/cassette player that offers "big system" performance without the big price tag.



7179LA

- Radio Cassette Player
- ETR/PLL Synthesized T-10 II Tuner (FM/MW/LW)
- 30 Preset Stations/Auto Memory
- D.A.P. (Direct Access Preset)
- GT Cassette Mechanism
- Separate Bass & Treble
- 2x6W Output Power (BTL Amplifier)
- Anti Theft QRB

If you're looking for an affordable way of enjoying the benefits of high-quality car audio, the 7179LA is exactly what you have been looking for. This superb model is equipped with a built-in 2 x 6W amp, 4-speaker output, separate bass and treble

controls and the Dust Guard Door to protect your tapes. It also incorporates the new T-10 II Tuner for improved reception of FM/MW/LW and SDK bands and the added convenience of Auto Memory. In price, performance and versatility, a hard unit to beat!

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7380L

- Radio Cassette Player
- ETR/PLL Synthesized T-10 II Tuner (FM/MW/LW)
- 30 Preset Stations
- D.A.P. (Direct Access Preset)
- Auto Memory
- GT Cassette Mechanism
- HLTAC Head Type
- Dolby B Noise Reduction
- Anti Theft QRB

Despite its sleek, high-class appearance, the 7380L is priced to please. But that does not mean a sacrifice in performance. On the contrary, this unit offers first-class performance and versatility all-round, thanks to ALPINE's HLTAC Head for exceptional frequency response and durability, the GT mechanism, Dolby B and NF

Tone Control. There's also the new T-10 II Tuner which offers sophisticated yet easy-to-use conveniences like DAP for storing FM and AM stations on one preset band. The 7380L is the key to attaining that high-powered system you've always dreamed of, allowing your choice of amplification!



7235M

- Radio Cassette Player
- Moisture/Dust/Vibration resistant
- ETR/PLL Synthesized T-10 II Tuner (FM/MW/LW)
- Full Logic GZ Mechanism
- SO Head Type
- Dolby B Noise Reduction
- Selectable Fader (Pre Power)
- 2x20W Output Power (BTL Amplifier)
- Anti Theft QRB

The 7235M is a one-of-a-kind unit. It features a heavy-duty design rugged enough to endure vibration, moisture and dust, and the controls have been designed to allow easy operation even when wearing gloves. Performance-wise, the 7235M is right up there with the best, thanks to ALPINE's highly acclaimed GZ mechanism, SO Head Type, 2x20W output power and the T-10 II Tuner. The QRB is another convenience that makes this the perfect unit for offroad vehicles, convertibles and boats.



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7385R

Radio Cassette Player with RDS

ETR/PLL Synthesized T-10 II
Tuner (FM/MW/LW)

24 Preset Stations

Pointed Preset Address

Traffic Info

Full Logic GZ Mechanism

HLTAC Head Type

Dolby B/C Noise Reduction

Separate Bass & Treble

NF Controls

Anti Theft QRB

With the 7385R Radio Data System cassette radio player, ALPINE presents a breakthrough in car audio performance. Using ALPINE's advance digital technology, the 7385R responds to the special data encoded in pan-European RDS radio broadcasts. With this data (called the AF list), the radio can automatically keep you optimally tuned to the strongest station in a network broadcasting the same program. So even as you drive over considerable distances, you

need not search for stations – the radio does it for you. RDS also displays the network name in plain letters and numbers (in some countries also local time and traffic information). The 7385R's tape player features full-logic GZ mechanism with HLTAC head, Auto Tape, Dolby B/C NR, and more. In a nutshell: With the 7385R, you're ready to experience the future of broadcasting and an all new dimension of operational convenience and reliability.

RDS. The "New Wave" of the Future.

The Radio Data System, or RDS, presents a whole new world of FM applications. Its service area is expected to cover most of Europe in 1990. The following are some of the convenient services RDS provides now, or will provide in the near future.

As featured in the ALPINE 7385R, with RDS you only need to know the name of a network or station not a broadcast frequency. Once you tune into a desired program, the radio will pick up a network frequency list, data that will allow it to find other stations on the same network. Then as the current station's signal weakens, the radio will check through other frequencies until it finds a suitably strong one that is broadcasting the same program. The network name is shown on the tuner's display. Stations broadcasting traffic programs can also be found automatically and local traffic announcements can be received only when they are broadcast, temporarily interrupting tape or CD listening if you so desire. A clock time and date service makes sure that you always have the exact time and date even when you cross time zones.

When you try RDS, you'll never want to drive without it again. Because it offers just what you need – accurate and reliable traffic information that you can trust – for your journey.



Regular RDS service starting:

- 1987
- 1988 - 89
- 1989 - 90



Designed by EBU

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SEEKING INNOVATIVE APPROACHES TO
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AMPLIFIER TECHNOLOGY

ALPINE seeks to enrich the quality and power of sound amplification in response to the special demands of digital audio sources.

Pure Power Packaged for Mobile Fidelity

Today's digital oriented mobile listening environment presents serious technological challenges. In the world of amplifiers, ALPINE has applied advanced audio engineering to provide a firm foundation for high fidelity in a moving vehicle.

Compact Bridgeable Amps Designed for the Requirements of Digital Sources.

Many of ALPINE's compact amps let you use BTL connection to obtain double the power available for two speakers or two tweeter drivers, while enabling space saving installation that blends with the car interior. BTL connection converts a stereo amp into a mono amp, while practically doubling the power output rating.

Superb Sound Quality and High Power with Compact Design for Versatile Installation

When you get into a car equipped with an ALPINE car audio system, you'll find a crisp, powerful, dynamic, crystal clear treble, pulsating bass ... So you may be excused for wondering "where does it all come from?". A significant portion of that answer lies in ALPINE's advanced amplification technology. Take the model 3542 for instance.

Because it's so compact and has such high power, it doesn't take

much space. It will even fit in a car stereo - making it a great choice for installation in many different models of vehicle.

High Efficiency, High-Speed Response, and Large Reserves

ALPINE's DC-DC Converter maintains high power regardless of voltage fluctuation, and supplies stable output using a low impedance configuration. Pulse width modulation contributes to rapid response required by digital music sources, based on a stabilized voltage supply that boasts excellent efficiency. Even with the highest peak transients of a compact disc,

ALPINE's massive current reserves meet sudden power demands without protest.

The power transistor board, too, is a masterpiece of engineering like our top previous designs. As in some top-of-the-line high-end domestic amplifiers, ALPINE's copper power plate reduces impedance to permit supply of large current instantaneously upon demand.

Good Sound is in the Details

ALPINE's proprietary STAR power distribution system maintains low impedance supply via separate lines, avoiding distortion and ground loops. Meanwhile the Duo-8 circuit combines proven negative feedback with DC servo circuit technology to minimize transient intermodulation distortion while preserving treble lucidity and mid-range richness. You can find further evidence of ALPINE's dedication to

detail in discreet construction using high power transistors in the output stage. Strictly selected audio purpose parts include high power transistors, one-sided glass composite circuit boards, OFC wiring, RCA connectors, and screw-in power supply connectors. Even the design reflects this attention to quality



3545

2 Channel Power Amplifier

2x370W Max. Power Output
(4ohm, 10% THD)

2x250W Power Output
(4ohm, 20Hz - 20kHz) (0.04% THD)

750W Max. Power Output 4ohm (Mono)

Frequency Response 10Hz - 50kHz

Input Sensitivity Fix 500mV
Variable 100mV - 2V

ALPINE's incredible 3545 acquired its nickname of "Superamp" for good reason. Not only does it deliver a stunning 360W of power through two channels, it does so with superb transient response across a wide dynamic range ... and with very low distortion. That means faithful reproduction of music, even with CDs or DATs.

Furthermore, for wide system flexibility, the 3545 is equipped with RCA connectors.

One listen to this amp and the difference in your music - right down to the most delicate nuances - becomes powerfully clear!

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3544

2 Channel Power Amplifier

2x210W Max. Power Output
(4ohm, 10% THD)

2x150W Power Output
(4ohm, 20Hz - 20kHz)
(0.04% THD)

630W BTL Mode Output 4ohm
(Mono) (10% THD)

Frequency Response
10Hz - 50kHz (+0-1dB)

Input Sensitivity Fix 500mV
Variable 100mV - 2V

The all-new 3544 is a perfect choice for serious music lovers with cars that have limited room. As compact as it is, this 2-channel DC-DC amp can project a full 2 x 210W of mind-blowing power (630W when bridged for monaural power), and with incredibly low distortion. A composite-glass board on one side plus the use of audio-dedi-

cated resistors and capacitors, OFC wire and a PWM power supply are other innovative features that work to ensure exceptional efficiency and sound quality.

The 3544 also comes equipped with ALPINE's unique Duo-8 and STAR circuitry to ensure crystal-clear, dynamic reproduction of CD sound.



3542

2 Channel Power Amplifier

2x125W Max. Power Output
(4ohm, 10% THD)

2x60W Power Output
(4ohm, 20Hz - 20kHz)
(0.1% THD)

270W BTL Mode Output 4ohm
(Mono) (10% THD)

Frequency Response
10Hz - 50kHz (+0-1dB)

Input Sensitivity Fix 500mV
Variable 100mV - 2V

If you're looking for a first-class 2-channel DC-DC power amp, but wondering where in the world you'd put it in your car, then the new 3542 is a compact but astonishingly powerful solution.

The 3542 boasts ALPINE's highly acclaimed Duo-8 and STAR circuitry, a composite-glass board on

one side, plus a host of other advanced technologies for the utmost in sound amplification quality, especially for digital sources. And all with plenty of power to spare - 2 x 125W or 270W when bridged for monaural output - and superb distortion characteristics.

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3541

2 Channel Power Amplifier

2x100W Max. Power Output
(4ohm, 10% THD)

2x40W Power Output
(4ohm, 20Hz - 20kHz)
(0.04% THD)

220W BTL Mode Output 4ohm
(Mono) (10% THD)

Frequency Response
10Hz - 50kHz (+0-1dB)

Input Sensitivity Fix 500mV
Variable 100mV - 2V

ALPINE aims to provide the ideal solution for every need, and this new 2-channel DC-DC amp exemplifies this.

Starting with its super-compact design, which can be mounted under the seat of many cars, this attractively priced model is packed

full of leading-edge technologies, including Duo-8 and STAR circuitry, which ensures that the 2 x 100W of power output (bridgeable for 220W of monaural power) is delivered as faithfully and dynamically as possible ... and with little distortion.



3540

2 Channel Power Amplifier

2x65W Max. Power Output
(4ohm, 8% THD)

2x30W Power Output
(4ohm, 20Hz - 20kHz)
(0.04% THD)

220W BTL Mode Output
(Mono) (10% THD)

Frequency Response
10Hz - 50kHz (+0-1dB)

Input Sensitivity Fix 500mV
Variable 100mV - 2V

Although compact in design, this low-profile unit offers a hefty 2 x 65 W of maximum power with excellent low-distortion characteristics, made even better through Duo-8 circuitry.

It is also bridgeable for 100W of monaural power. A superb choice for raising your system to all new performance heights.

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3554

4 Channel Power Amplifier

4x120W Max. Power Output
(4ohm, 0.8% THD)

4x50W Power Output
(4ohm, 20Hz - 20kHz)
(0.04% THD)

(2x200W) (2x100W + 1x200W)
BTL Mode Output (10% THD)

Frequency Response
10Hz - 50kHz (+0-1dB)

Input Sensitivity Fix 500mV
Variable 100mV - 2V



This highly versatile 4/3/2 channel DC/DC amp gives you a choice of three different setups - one providing 120W of power through each of four channels, a 3-channel set-up providing 200W through one channel and 100W through each of two

channels, or a basic set-up delivering 200W of power through each of two channels. Whichever layout you choose, the result is the same - rich, powerful low-distortion sound.



3552S

4 Channel Power Amplifier

4x90W Max. Power Output

4x35W Power Output
(4ohm, 20Hz - 20kHz)
(0.04% THD)

2CH (2x140W)/3CH (2x70W+140W)
BTL Mode Output (10% THD)

Frequency Response
10Hz - 50kHz (+0-1dB)

S/N Ratio 100dB

Input Sensitivity Fix 500mV

Variable 100mV - 2V



This versatile 4/3/2 channel DC/DC amp delivers a generous 90 W of power through each of the four channels. 40 W through each of the four channels, 70W through two channels in a three-channel configuration, or 140W through two channels. It is also well-suited for handling the requirements of a subwoofer. Like

its bigger counterpart, the 3554, it features a built-in 50 Hz crossover which makes it suitable for use as a subwoofer or a tweeter. The perfect way to get the most out of CD sound quality as well as more power and versatility from your car audio system without having to add extra amps.

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3550

4 Channel Power Amplifier
4x70W Max. Power Output

4x25W Power Output
(4ohm, 20Hz - 20kHz)
(0.04% THD)

(2x100W) (2x50W+1x100W)
BTL Mode Output (10% THD)

S/N Ratio 105dB

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A brand-new 4-channel DC-DC amp model, the slim-and-trim 3550 is built to handle the special demands of digital sources, thanks to ALPINE's exclusive Duo-8 and STAR circuitry. This affordable "newcomer" provides the versatility of Speaker/

RCA inputs and a generous 70W of power output through each of four channels with very low distortion, while its ultra-compact design allows for easy installation in cars that have little room to spare.

3531

4 Channel BTL Amplifier

4x40W Max. Power Output

4x13W Power Output
(4ohm, 20Hz - 20kHz) (0.8% THD)

S/N Ratio 90dB

Frequency Response
20Hz - 20kHz (+0-1dB)



The new 3531 features an extremely low-profile design for simple, "out-of-the-way" installation. In many cars, it can even be put under the seat. Despite its small size, this 4-channel BTL amp offers ample

power (4 x 25W), the convenience of Speaker/RCA inputs and a wide array of advanced technologies for high-quality reproduction of your music. Sonic Excellence at a price just about anyone can afford.

3501₀₂

2 Channel BTL Amplifier

2x25W Max. Power Output

2x13W Power Output
(4ohm, 20Hz - 20kHz) (0.8% THD)

Frequency Response
20Hz - 20kHz (+0-1dB)



Ultra-compact and priced to please, the 3501 02 is ideal for achieving "big-system" sound in cars with limited space. Be as clever as you can with your car stereo system. The same digital technologies as

ALPINE's higher-end models for low-distortion amplification of sound. Hook up with radio/cassette or CD player as you wish to your car's front speakers. It's all

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IN SEARCH OF BETTER WAYS
TO CUSTOMIZE DIGITAL
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CAR AUDIO SOUND.

EQUALIZER TECHNOLOGY

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.



3401

Parametric Equalizer

3 Bands front

4 Bands rear

3 Mode Operation

Frequency Response 10Hz - 50kHz

Gain 18dB

Output Sensitivity 1x/10x

Output Level Control Range 0-20dB

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

Remote Graphic Equalizer

11-Band Equalizing

Subwoofer Control

Sound Wide (3 Position)

Equalizer Memory 2x4

Frequency Response 10Hz - 50kHz
(+/-1dB)

Crossover Point 80Hz -18dB/OCT

Tone Action Boost Cut +12dB 0/+16dB
(Subwoofer)

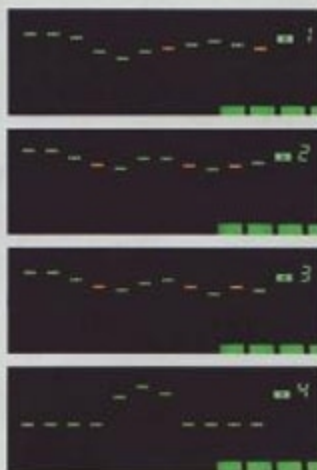
Input Connector RCA

The new 3339 Electronic Graphic Equalizer offers 11 bands of equalization to help you precisely pinpoint and correct your car audio system's sound, providing boost or equaliza-

tion in just the right places to achieve maximum sonic satisfaction. There's also the unique DRC (Dynamic Range Controller) feature, which serves to boost the delicate nuances of symphonies and other classical music, despite wind and engine noise. You can also choose from among four preprogrammed equalization curves or set up to four of your own "Private Memory" curves for instant recall.

Other features include the Sound Field Expander (S.F.E.) function that lets you enjoy stereo-like sound quality with monaural sources, subwoofer control, a large black mask LCD for easy viewing, multiple displays, 3-way mounting and gold-plated terminals for improved signal transmission.

For people who demand the very



best from their car audio system, the 3339 is simply the premium electronic equalizer.



3321

11-Band Manual Equalizer

Subwoofer Output (On/Off Switch)

Fader Control

3-Position Subwoofer Crossover Switch
(50, 80, 120Hz) (-18dB/OCT)

Sound Field Expander

Subwoofer Output

Crossover Level Control (+/-1dB)

Gold-Plated RCA Connectors

The 3321 is very probably the most sophisticated manual equalizer in its class. For starters, it offers a total of 11 bands of equalization, where most other units only offer seven. On top of that, to simplify operation, the bands are conveniently divided

into effective octave ranges.

Other outstanding features include a fader control, three-position subwoofer, crossover switches for detailed control of low-range sounds, plus stereo/mono switching of subwoofer output.

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THE PINNACLE OF SOUND REPRODUCTION
FOR UNPRECEDENTED BRIGHTNESS
AND CLARITY.

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SPEAKER TECHNOLOGY

ALPINE's quest for Sonic Excellence spans the entire spectrum of audio technology, from the source to the sound that reaches your ears.



Extensive ALPINE Development Work Has Led to New Heights of Speaker Engineering

A dedication to musical values is required to build speakers that deliver high fidelity. This is all the more so in the enclosed vehicle environment when faced with the linear frequency response and wide dynamic range of digital sources.

Reference Quality in the Car

At ALPINE, we apply our engineering expertise using the best materials available. This is part of the key to the remarkable quality achieved by our New Multi series. It's all the more apparent with the wide dynamic range, linear frequency response and ambience information of today's demanding digital mate-

From Rock to Classical – Pulsive Transients and Pianoforte Dynamics

Individual units in the Reference Multi series are designed to work together to achieve musical fidelity. Greater power handling is required for accurate reproduction of rock and pop. It also allows reproduction of the wide dynamic range of classical and jazz. Non-pressed cone material and natural rubber edges permit more supple response. The double damper construction extends the physical resistance of the cone.

Accurate Transient Response and High Efficiency with Advanced Magnetic Circuit Construction

Strontium and neodium magnets are ideal for car applications where compact dimensions are desirable. The 30% increase in efficiency and 20% reduction in weight reduce inertia for treble clarity.

Precision Technology in the New Multi-Speaker Series

Deep bass reproduction is particularly difficult in the car environment because of the masking effect of engine noise and road vibrations. But careful attention to woofer construction overcomes this impediment. Non-pressed cone material is naturally dried to attain a balance between the density required for suitable internal loss and high rigidity, prerequisites for accurate response without resonance or cone break-up problems. Natural rubber edge construction handles long voice coil excursions gracefully. Soft dome tweeters feature samarium cobalt magnets and special diaphragm coating to prevent resonances. The parabolic cone shape in the 6366SX woofer is designed for bass fidelity. Polyimide dome tweeter diaphragms extend treble response. Magnetic fluid in tweeter magnetic circuit increases cone linearity.

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2-Way Reference Speakers for Maximum Digital Response.

the right speaker will sound as good as it should. That's particularly true when playing digital sources. ALPINE's "Reference

Series" represents the state-of-the-art in 2-way car audio speakers. Designed to deliver exceptional efficiency and detail, our Reference Series speakers are the premium choice for reproducing digital sounds. They deliver a

generous maximum music power of 150W, with outstanding transparency and detail for the mid/high range and high resolution for the low range. And with very low distortion. The optimum solution for the special demands of the digital age.



6960

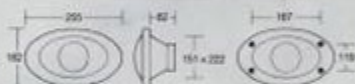
Coaxial 2-Way Full Range

150 Watt (max. Music)

100 Watt (max.)

44Hz - 22kHz

6"x9" (15cmx23cm)



6660

Coaxial 2-Way

150 Watt (max. Music)

100 Watt (max.)

47Hz - 22kHz

6 1/2" (16cm)



6560

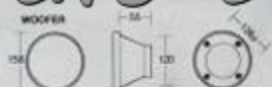
Component 2-Way

150 Watt (max. Music)

100 Watt (max.)

50Hz - 22kHz

High Pass Filter Network



MULTI-SPEA

6011

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Mechanical Dimensions

150 Watt (max. Music)

100 Watt (max.)

2kHz - 22kHz

2" (5.4 cm)



6041

Mid Range

180 Watt (max. Music)

120 Watt (max.)

100Hz - 17kHz

4" (10cm)



6051

Mid Range

180 Watt (max. Music)

120 Watt (max.)

75Hz - 15kHz

5 1/4" (13cm)



Achieving the Ultimate Reproduction with Separate Speakers for Each Range.

One of the most effective ways of achieving the ideal sound reproduction characteristics in your car is by installing a multi-speaker system to separately handle the different ranges. More to the point, to

have the low, mid and high ranges each handled by its own pair of speakers and amp. The reason for this is that the more the system is able to reproduce the different frequency curves, the system will generate unwanted distortion. ALPINE's Multi-Speaker Series, in combination with the proper power amps, dividing networks and instal-

lation, provide the ultimate means of tailoring the individual musical components of your system to the spe-

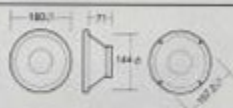
cial characteristics of your car.

KER SYSTEMS

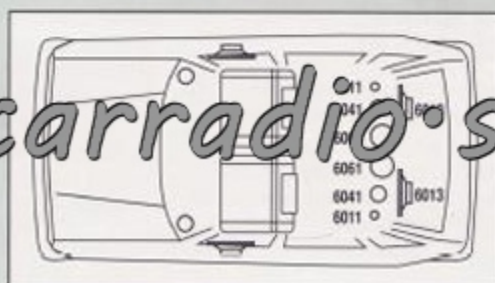
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6061

180 Watt (max. Music)
 120 Watt (max.)
 50Hz - 8kHz
 6" (15cm)

**6013**

Subwoofer
 300 Watt (max. Music)
 200 Watt (max.)
 22Hz - 1.2kHz
 10" (25cm)



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DIVIDING NETWORKS @Vintagecarradio.se

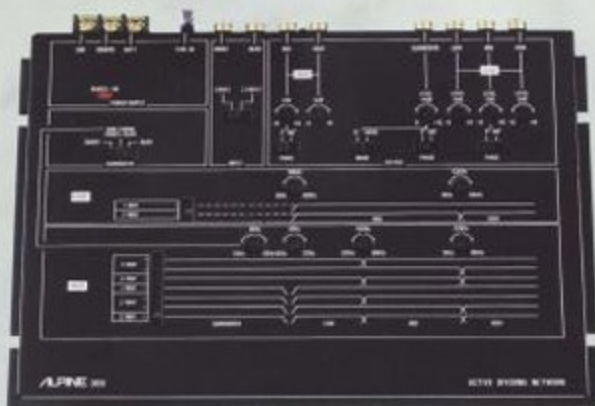


Attention the richness and Quality of a Concert Hall Performance.

Although a good multi-speaker set-up will make a car audio system sound better, adding a dividing network will give it more colour, dynamism and detail. ALPINE offers a full selection of high-performance active and passive dividing networks to help you obtain the utmost in sound reproduction from your multi-speaker system.

An active dividing network, which offers crossover points for 2-, 3- or 4-channel systems, essentially separates and processes the various signal components of the music source prior to amplification and then sends it to the appropriate speakers for output. A passive dividing network, on the other hand, divides the ranges after amplification and offers 2- or 3-channel set-ups.

In either case, these ALPINE dividing networks provide one of the simplest and most effective ways of fine-tuning your multi-speaker system ... so that you can enjoy both the bold and delicate passages of your music with the richness, clarity and detail of a concert hall performance.



3656

ALPINE Active Dividing Network
Power: 100W (100W x 1dB)
Crossover Frequency:
Front: 50-600Hz, 3kHz-10kHz
Rear: 50-120Hz, 200Hz-800Hz, 3kHz-10kHz
Subwoofer: 50Hz-120Hz
Size 240x40x160 mm

The 3656 is one of the most advanced active dividing networks in car audio. Aside from being equipped with a Butterworth Filter for exceptionally flat frequency response, it offers two channels for the front and a total of four channels for low, mid, high and sub-

woofer separation in the rear. Furthermore, the system is designed so that the subwoofer output signal is not affected by the fader control. Only one of the dividing networks is present in this unit. It offers a sub level from -6dB to +6dB, and for the subwoofer from 0dB to +12dB.

3655

3 Channel Active Dividing Network
Frequency Response 10Hz - 50kHz
(+/-1dB)

Phase Switch

Crossover Frequency 50Hz-1.6kHz/
Hi 4kHz-10kHz

Output Gain Control (dB)

Low 0-12dB/M +/-6dB/Hi +/-16dB

Input Sensitivity (mV) - 500mV

Size 160x40x120



This 3-channel active dividing network offers highly sensitive separation control over the low, mid and high frequency ranges, with an ear-ring sensitive frequency response characteristic to suit listening needs and preferences. A Butterworth Filter assures an extremely flat frequency response. Variable gain control is also provided - from 0dB to +12dB for the low ranges and -6dB to +6dB for mid and high ends.

3653

2 Channel Active Dividing Network

Frequency Response 10Hz - 50kHz
(+/-1dB)

Crossover Frequency Low 50-500Hz,
High 1kHz-10kHz

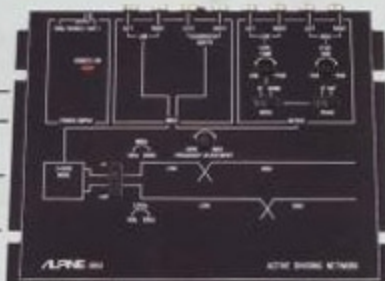
Output Gain Control (dB)

Low 0-12dB/High +/-16dB

Input Sensitivity (mV) RCA 500mV

Crossover Slope (dB/OCT) -12dB

Size 160x40x120 mm



Like its higher-end counterparts, this 2-channel active dividing network is equipped with a Butterworth Filter for a very flat frequency response, as well as variable gain control for fine-tuning the response - from 0dB to +12dB for low frequencies and from -6dB to +6dB for the high end. For even greater system versatility, the 3653 is also equipped with a built-in subwoofer buffer circuit.

3721

2 Channel Passive Dividing Network

Crossover Frequency Mode

5kHz -12dB Oct.

Size 137x34x74 mm



The new 2-channel 3721 passive

dividing network is designed to handle the unique demands of multi-speaker/channel systems. Featuring the latest technological advances in audio circuitry, as well as a special film-type capacitor, this unit delivers the kind of performance that will please even the most discerning audiophiles.

3731

3 Channel Passive Dividing Network

Frequency Response 10kHz - 50kHz

Crossover Slope (dB/OCT) -12dB

Size 240x40x120 mm



When it comes to fine-tuning the acoustic parameters of your multi-speaker/channel system, the new 3-way 3731 passive dividing net-

work may be the finest solution of all. It features a wide array of innovative technology, including a special film-type capacitor for resolving clear, distinct sounds. A "instrument of refinement" for any music lover who appreciates the best in car audio sound from a passive system.

SUBWOOFER SYSTEM

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As the complex acoustic properties of a car's interior are particularly detrimental to low-range sounds, a subwoofer becomes essential for enhancing bass response. ALPINE subwoofers are designed to be driven by an amplifier that is completely independent from the mid and high ranges. This way, the optimum bass response can be tailored to the specific needs of the system and the car's interior environment. Of course, every ALPINE subwoofer is built with the latest in new material technology and construction techniques, meaning you can always count on enjoying the full power and clarity of the bass from your system.

Why Your Car Audio System Needs a Subwoofer.

Achieving deep, solid bass inside a car is no easy task. The main difficulty lies with the large amount of soft, sound-absorbing upholstery and the complex shape and airtight nature of a car's interior. There's also the problem of structure-borne sound generated by the various parts of the car such as the engine and gearbox. This combination of subsonic noise

and vibrations, as well as the lack of musical information in the lower regions of the audible spectrum.

You've probably noticed a distinct lack of bass definition while listening to most car audio systems. This is virtually inevitable given the usual situation. Most cars are equipped with no more than a head unit and 2 or 4 speakers on the side and maybe in the rear.

But this problem is not insurmountable. By enhancing the system with a subwoofer, it's possible to get a much smoother frequency response in the bass area. With the addition of an active crossover network a further improvement in bass response can be achieved. Using an amplifier that is completely independent from the mid and high ranges to drive the subwoofer gives you more control over the total sound. This way optimum bass response can be tailored to meet both the needs of the system and the car's interior environment. ALPINE's approach to better bass begins with the subwoofer speaker unit itself. Designed as a perfect match for the 3545 SuperAmp, this powerful subwoofer overcomes the typical deficiency in very low bass response, thanks to innovative construction and strictly selected



materials. You'll notice the difference – more dynamism and energy than you may have thought possible in a car audio system.

High-quality speakers to match a variety of needs and tastes.

Whether you're an audiophile seeking the ultimate in sound reproduction or just a music lover who demands high quality, ALPINE has the ideal speaker system. Whichever speaker system you choose, you're assured of exceptionally high sensitivity, wide frequency response and superb bass response.

All this is due to the use of high-tech materials and to the ALPINE engineers' extensive know-how in the field of speaker design.

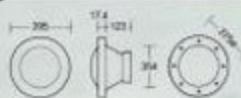
6014

Subwoofer

600 Watt (max. Music)

450 Watt (max.)

100-20000 Hz
6-38 dB



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**6190**

Subwoofer
 150 Watt (max.)
 30Hz - 6kHz
 6"x9" (15cmx23cm)
 Push-Pull Double Damper HDP Cone

**6180**

Subwoofer
 200 Watt (max. Music)
 30Hz - 6kHz
 9" (23cm)
 Push-Pull Double Damper HDP Cone



The new 6010AX is perhaps the smallest tweeter of its kind to date, making it easy to install in practically any make of car. This was accomplished by utilizing a neodymium magnet, which offers exceptionally high efficiency despite its small size. Besides being a super complement to a multi-speaker set-up, the 6010AX is ideal for use as a tune-up tweeter.

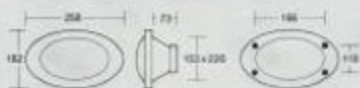
6010AX

Multichannel Dome Tweeter
 120 Watt (max. Music)
 80 Watt (max.)
 2.5kHz - 22kHz
 1 1/8" (4,7cm)



6396SX

Coaxial 3-Way
150 Watt (max. Music)
100 Watt (max.)
45Hz - 21kHz
6" x 9" (15cm x 23cm)



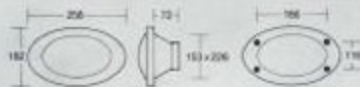
6398SX

Coaxial 3-Way
90 Watt (max. Music)
60 Watt (max.)
45Hz - 21kHz
6" x 9" (15cm x 23cm)



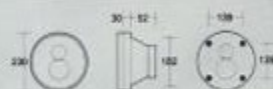
6205SX

Coaxial 2-Way
90 Watt (max. Music)
60 Watt (max.)
45Hz - 21kHz
6" x 9" (15cm x 23cm)

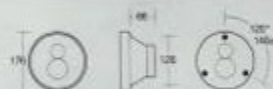


**6386**

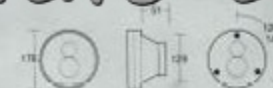
3-Way
 150 Watt (max. Music)
 100 Watt (max.)
 45Hz - 21kHz
 8" (20cm)

**6366SX**

3-Way
 120 Watt (max. Music)
 80 Watt (max.)
 50Hz - 21kHz
 6 1/2" (16cm)

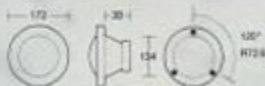
**6368SX**

Coaxial 3-Way
 90 Watt (max. Music)
 60 Watt (max.)
 50Hz - 20kHz
 6 1/2" (16cm)



6680
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Coaxial 2-Way
60 Watt (max. Music)
40 Watt (max.)
60Hz - 21kHz
6 1/2" (16cm) 38mm Depth



6203SX

Coaxial 2-Way
60 Watt (max. Music)
40 Watt (max.)
60Hz - 20kHz
6 1/2" (16cm)



6256SX

Coaxial 2-Way
90 Watt (max. Music)
60 Watt (max.)
60Hz - 20kHz
6 1/2" (16cm)

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6056AD

Coaxial 2-Way
120 Watt (max. Music)

80 Watt (max.)

50Hz - 22kHz

5 1/2" (13cm)



6258SX

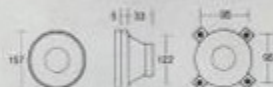
Coaxial 2-Way

60 Watt (max. Music)

40 Watt (max.)

50Hz - 21kHz

5" (12cm)



6152₀₂

Dual Cone

30 Watt (max. Music)

20 Watt (max.)

97Hz - 20kHz

5" (127mm) Dia



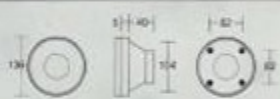
6246SX
@Vintagecarradio.se

Coaxial 2-Way
60 Watt (max. Music)
40 Watt (max.)
95Hz - 21kHz
4" (10cm)



6248SX

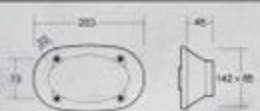
Coaxial 2-Way
60 Watt (max. Music)
40 Watt (max.)
60Hz - 21kHz
4" (10cm)



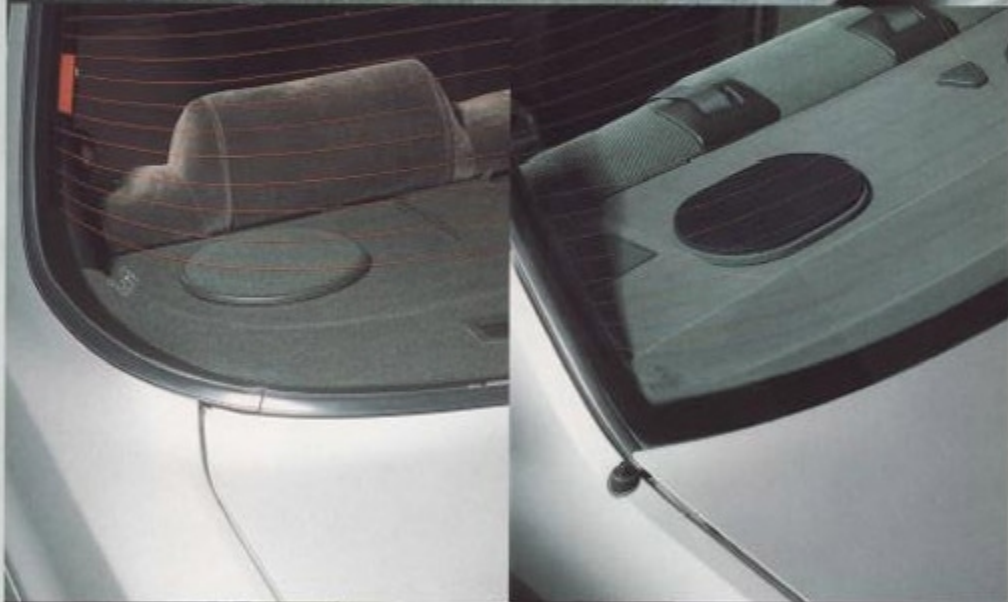
6204AX

Coaxial 2-Way
60 Watt (max. Music)
40 Watt (max.)
60Hz - 21kHz
4x6" (10cm)

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CUSTOM SPEAKERS

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...PIN's custom speaker series...
...was your the last in a long line...
...standard-equipment speakers with...
...high-quality, high-performance...
...speakers. Designed for easy instal-...
...lation with little or no modifica-...
...tions required, these outstanding speak-

...the...
...power and low-distortion repro-...
...duction for significant improve-...
...ments in sound quality. What's...
...more, since they "slip" right into the...
...existing speaker mounts in most

...of...
...a...
...the car...
...simple and effective way to get the...
...most out of your existing car audio...
...system.





6221AX

Coaxial 2-Way

60 Watt (max. Music)

40 Watt (max.)

60Hz - 21kHz

5 1/4" (13cm)



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6251AD

Coaxial 2-Way

60 Watt (max. Music)

40 Watt (max.)

60Hz - 21kHz

5 1/4" (13cm)



6222AX

Coaxial 2-Way

60 Watt (max. Music)

40 Watt (max.)

60Hz - 21kHz

5 1/4" (13cm)



6241AX

Coaxial 2-Way, 4" (10cm)

30 Watt (max. Music)

20 Watt (max.)

70Hz - 21kHz

4" (10cm)



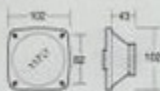
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6242AX

Coaxial 2-Way
60 Watt (max. Music)
40 Watt (max.)

50Hz - 21kHz
5 1/4" (13cm)

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6157AD

Dual Cone
45 Watt (max. Music)
30 Watt (max.)

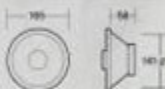
60Hz - 20kHz
5 1/4" (13cm)



6261AX

Coaxial 2-Way
60 Watt (max. Music)
40 Watt (max.)

50Hz - 21kHz
6 1/4" (17cm)

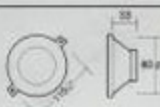


6137AX

Dual Cone
30 Watt (max. Music)
20 Watt (max.)

60Hz - 20kHz
5 1/2" (14cm)

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CUSTOM SPEAKERS

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Maker	Type	Speaker Position							Speaker	Maker	Type	Speaker Position							Speaker
		A ₁	A ₂	B	C ₁	C ₂	C ₃	D				A	A ₂	B	C ₁	C ₂	C ₃	D	
D	AUDI	80/90	●						6241 AX, 6137 AX	F	CITROEN	CX	T		●	T			6251 AD
D	AUDI	100	●						6241 AX, 6137 AX	F	PEUGEOT	205			●	●			6251 AD
D	AUDI	100-SW	●				●		6241 AX, 6137 AX, 6251 AX	F	PEUGEOT	309			●	●			6251 AD
D	BMW	3-SW			●			●	6251 AD	F	PEUGEOT	405	T		●			●	6251 AD
D	BMW	3			●				6251 AD	F	PEUGEOT	605	T		●	●	T		6261 AX
D	BMW	5	T	●				●	6251 AD	F	PEUGEOT	505	T		●			●	6261 AX, 6251 AD
D	BMW	7	T	●				●	6251 AD	F	RENAULT	21	T		●			●	6261 AX
D	FORD	ESCORT			●			●	6251 AD	F	RENAULT	ESPACE	T		●	●			6261 AX
D	FORD	SCORPIO	T			●		●	6242 AX, 6251 AD	F	RENAULT	25	T		●			●	6261 AX
D	FORD	FIESTA				●		●	6251 AD	F	RENAULT	5			●			●	6242 AX, 6251 AD
D	FORD	SIERRA		●				●	6251 AD	F	RENAULT	19		●		●		●	6261 AX, 6242 AX
D	MERCEDES	W 124-SW	●						6222 AX	F	RENAULT	19 CHAMADE		●		●		●	6261 AX, 6242 AX
D	MERCEDES	W 124	●					●	6222 AX, (6221 AX)	GB	Austin Rover	Metro			●			●	6242 AX
D	MERCEDES	W 201 (190)	●						6241 AX	GB	Austin Rover	Maestro		●				●	6242 AX
D	OPEL	KADETT	●					●	6241 AX, 6137 AX, 6242 AX	GB	Austin Rover	Montego			●			●	6242 AX
D	OPEL	VECTRA	T		●				6251 AD	GB	Austin Rover	Rover 2000			●			●	6242 AX
D	OPEL	CORSA	●					●	6242 AX	GB	JAGUAR	4 Sovereign			●	●			6137 AX
D	OPEL	SENATOR	T		●			●	6261 AX, 6251 AD	I	ALFA ROMEO	164			●			●	6251 AD, 6221 AX
D	OPEL	OMEGA	T		●			●	6261 AX	I	ALFA ROMEO	75			●				6221 AX
D	PORSCHE	959			● _f			●	6251 AD, 6221 AX	I	ALFA ROMEO	33		●					6242 AX
D	PORSCHE	924/944				●			6221 AX	I	FIAT	UNO		●				●	6242 AX
D	PORSCHE	928			● _f	●			6221 AX	I	FIAT	TIPO		●				●	6221 AX, 6242 AX
D	PORSCHE	911			● _f				6251 AD	I	FIAT	CRIMA		●				●	6221 AX
D	PORSCHE	911 cabrio			● _f	●			6251 AD, 6242 AX	I	LANCIA	DELTA		●					6221 AX
D	VW	GOLF	●		●			●	6137 AX, 6251 AD, 6221 AX	I	LANCIA	Y-10			●				6242 AX
D	VW	CORRADO	●		●			●	6137 AX, 6251 AD, 6221 AX	I	LANCIA	THEMA		●					6221 AX
D	VW	PASSAT	●		●				6241 AX, 6251 AD	I	LANCIA	THEMA-SW		●				●	6221 AX
D	VW	PASSAT-SW	●		●			●	6241 AX, 6251 AD, 6221 AX	I	LANCIA	DEDRA		●					6242 AX or 6241 AX
D	VW							●	6221 AX	I	MASERATI	8-Turbo/425							6251 AD
E	SEAT							●	6242 AX										6242 AX
E	SEAT	LAGUNA						●	6251 AD										6251 AD
F	CITROEN	XN	T		●			●	6261 AX, 6251 AD	S	VOLVO	740/760			●	●			6251 AD
F	CITROEN	AX						●	6242 AX	S	VOLVO	480			●				6251 AD
F	CITROEN	BX 19i/ST/Turbo	T	●					6251 AD										

T = Tweeter

All specifications and features are subject to change without notice.

DICTIONARY

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AUTOMATIC CASSETTE GLIDE

Protects tape by loading and ejecting cassette automatically.

AUTO MEMORY

Locates six strongest stations in band and presets them.

AUTO METAL SELECTOR

Automatic switching to metal tape mode upon loading.

B

BALANCED SERVO DRIVE

Stabilizes servo voltage; avoids overcompensation.

BLANK SKIP

Skips blank sections in the tape which are 15 seconds or longer in duration, for continuous music enjoyment.

BRIDGEABLE AMPLIFIER

Processing amplifier signals as a single signal for approximately twice the power wattage rating.

C

CD SHUTTLE CONTROL FUNCTION

Dedicated or multi-control functions (depending on model) for control of CD Shuttle programming.

CD STRAIGHT

Pressing CD STRAIGHT causes the unit to bypass the tone-control circuits, creating a direct output line. This ensures extremely faithful reproduction.

CODE IN (5700)

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

D

D.A.P. (Direct Access Preset)

Provides direct access to six presets, band switching, and a model for recall.

DIGITAL COMPRESSION

For CD, deemphasis, digital processing provides higher fidelity than analog filters.

DIMMER

Automatically adjusts display bright according to dashboard light setting.

DOUBLE NEGATIVE FEEDBACK CIRCUIT

Used in place of coupling capacitors which tend to reduce clarity.

DIRECT SOURCE ACCESS SYSTEM

In a combination of radio/cassette player and CD player, the preferred unit can be selected with the touch of just one button, which also causes the other to be muted.

8cm/12cm Disc Play

Automatically adapts to handle 8cm and 12cm CDs.

DISC PLAY PAUSE

For temporarily stopping CD play.

DOLBY NOISE REDUCTION

DOLBY B: Dolby B noise reduction system. DOLBY B/C: Dolby B or C noise reduction system.

DUAL BASS CONTROL

Advanced natural-sounding bass control that avoids boomy effects.

DUO-B CIRCUIT

A unique double negative-feedback circuit, usually reserved for high-end home audio systems, that serves to feed back DC and AC signals as separate components, so that output signals are almost identical to the input signals.

DUST GUARD DOOR

Cassette door that remains shut even after cassette is loaded in order to protect the tapes.

DYNAMIC RANGE CONTROLLER

Compresses the sound's dynamic range for improved sound reproduction in car. It is incorporated in 3339.

E

ELECTRONIC VOLUME AND TONE CONTROL

A system which enables the various settings for volume and tone to be stored in memory for automatic recall.

ETR/PLL SYNTHESIZED TUNER

Electronic tuning system for locking on to optimum reception point.

FL DISPLAY

A fluorescent display featuring exceptionally clear indications of the various modes and functions independent of the lighting conditions.

FLOATING SUSPENSION SYSTEM

This floating suspension system stabilizes back-tension to minimize wow and flutter resulting from tape speed fluctuation.

G

GOLD PLATED PIN JACK CONNECTOR

Preserves signal purity with long life.

H

HLTAC HEAD

ALPINE's original top-end head (15 laminations of special amorphous material).

I

IGNITION KEY-OFF PAUSE

When ignition is turned off, automatically disengages pinch roller from capstan to protect tape.

M

MEMORY EDIT SYSTEM

Simplifies rearrangement of tuner memory preset assignments.

MIX (RANDOM PLAY)

Shuffles CD selections for random playback.

MULTIPATH HUNTER

Detects multipath reception (broadcast signals reflected from buildings etc.) to allow compensation.

MUSIC SCAN

Searches for the start of a selection, plays it back for 10 seconds, and then on to the next.

MUSIC SENSOR (UP/DOWN)

Automatically locates next selection in either direction.

N

NEODIUM MAGNET

Powerful non-ferrous alloy for high power applications.

NEW FACE DESIGN 1990

Creative, elegant designs featuring new material applications.

NEW Q.R.B.

Better connections cut signal loss and improve sensitivity. New handle.

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NF TONE CONTROL

Negative feedback tone control which suppresses distortion by controlling high-gain signals.

NOISE SHAPING

Suppresses high frequency noise from digital sources.

NON-PRESSED CONE

A high-strength, non-pressed dry paper cone usually found only in high-end home audio systems, offering superb elasticity, an optimum level of internal sound loss and greater cone surface area and density, for richer, more dynamic bass-range reproduction.

O

OMITTED TRACK MEMORY

Programmable track skip function.

P

PLL AUDIO GAIN SERVO

Digital phase-locked-loop circuit for focus and tracking servos.

POINTED ADDRESS

A LED/optical-fiber dot positioned in the center of a function, which turns amber against the button's green backlighting to clearly "point out" which button or preset mode is being engaged.

POLYIMIDE

High-tech composite speaker material with high resistance to moisture and vibration.

POWER FADER

Controls volume relation between front and back speakers connected to built-in amplifier.

POWER LOADING

System loads and ejects cassette or CD automatically.

PREAMP FADER

Preamp Fader processes signals before they are processed by external power amp(s).

PRE OUT/IN

Pre Out/In provides a means to connect additional speakers.

PRESET ADDRESS

Displays radio bandwaves already stored in memory.

PRESET PLAY

Allows programming of playback sequence.

PREFERRED STATIONS

Preferred stations can be preset for one-touch tuning. It is incorporated in all ALPINE models.

PRESET STATION SCAN

Scans only the preset stations.

PRIVATE MEMORY

Facility for memorization of user equalization curves. It is incorporated in 3339.

PROGRAM PLAY

Function that allows programming of desired selections and/or the desired sequence.

PWM (pulse width modulation)

A configuration designed to ensure power supply exactly in relation to the desired volume.

Q

Q.R.B.

Quick Release Bracket. Allows unit to be removed from car.

Q.R.B. MINDER

Buzzer sounds if quick release is not used.

R

RADIO MONITOR

Automatically switches to radio during FF/REW modes.

RECOMMENDED SOUND TASTE

Four factory presets tailored to specific program material. It is incorporated in 3339.

REPEAT

A function which enables any given title or all titles to be replayed.

RETURN/EJECT

Ejects a tape automatically after the cassette tape has reached the end of its reverse side.

S

SCC HEAD

ALPINE's exclusive high-performance tape head.

SELECTION FADER (POWER)

Choice of high-power fader control or pre-fader control.

SEPARATE BASS & TREBLE CONTROL

Independent precision control for low and high tone reproduction.

SHOCK RESISTANCE FADER

Creates a more spacious sound in the car; has 3-way switch. It is incorporated in 3339.

STABILIZED CAPSTAN DRIVE

Minimizes mechanism noise and improves tape transport stability.

STAR CIRCUITRY

A circuit configuration – an ALPINE exclusive – that provides each major player block with its own ground line, for "live performance" sound quality.

STATUS MONITOR

Display changes gradually from amber to green after amp power-on.

T

TAPE PLAY PAUSE

For temporarily stopping tape play.

TRUE FF/REWIND

Logically correct indication of FF/REW direction independent of playback direction.

T-10II TUNER

Tuning unit incorporating original ALPINE IC innovations in FM section.

T-10IIS TUNER

T-10II Tuner with enhanced sensitivity and improved large signal characteristics in all bands.

TWIN DAC

Separate left and right channel DAC circuits prevent time lag.

U

UP/DOWN SEEK

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

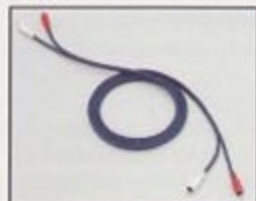
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ACCESSORIES

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EXTENSION CABLE

AUDIO



4420 RCA 2m (Male to Male)
4450 RCA 4m (Male to Male)

AUDIO



4409 RCA 0.8m (Male to Male)
4451^{oz} RCA 5m (Male to Male)

POWER SUPPLY ACCESSORIES

POWER CABLE



4334 30A 3m
4335 60A 3m

POWER CABLE



4330 30A 7m
4331 60A 7m

EXTENSION CABLE 3339



4912 Extension MINI Cable
(DIN) for 3339, 3m

SPEAKER CABLE



4445 High Quality Speaker
Cable 5m

NOISE SUPPRESSORS



4017 Auto Capacitor



4020 20A Noise Suppressor

INTERCONNECTOR ACCESSORIES

RCA-DIN CABLE/CONNECTOR



4095 RCA-DIN (Male)

RCA-DIN CABLE/CONNECTOR



4096 RCA-DIN (Female)

DUAL AMP BALANCER



4312 Bi Level Dual
AMP Balancer RCA - RCA

DUAL CONNECTOR



4086 RCA - RCA Connector
"Y" Form 0.4m

CONNECTOR



4402 Connector
RCA (Female) - RCA (Female)

SPEAKER - RCA



4301 Speaker Input to
RCA (Male) for C.D.

CONNECTOR

4300 from Speaker to RCA

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CD SHUTTLE ACCESSORIES

POWER SUPPLY KIT



4046 6 Terminals

INSTALLATION 5953



4931 DIN Size Mount Bracket for 5953

INSTALLATION 5953



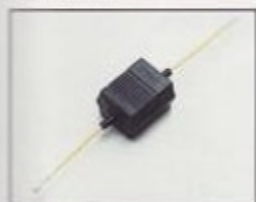
4137 Flexible Arm for 5953/3337/3330

MAGAZINE FOR 5952S



4905 6 x CD Magazine for 5952S

ALTERNATOR



4078 20A
4080 30A

CONTROL FOR 7390L



4390 Wireless Remote Control Unit

EXTENSION CABLE



4910 DIN 8-P Cable for 5953/7390L → 5952S, 2m



4911 4P Cable for 5952S, 2m

INSTALLATION ACCESSORIES

QRB CONNECTOR



4541/4542/4543/4553/
4562

QRB MOTHER CASE



4545/4560

MOUNTING SPACER



4081 Spacer for 6366
4080 for Tweeter Installation
by VW Golf 6011/6010AX

DIN INNER CASE



4100 DIN INNER CASE
and Face Plate

4545				4560
4553	4541	4542	4543	4562
7390M	7179LA	7235M	7385R	7292L
7909L		7289L	7380L	7290L
		5255	7903MS	
			5903S	

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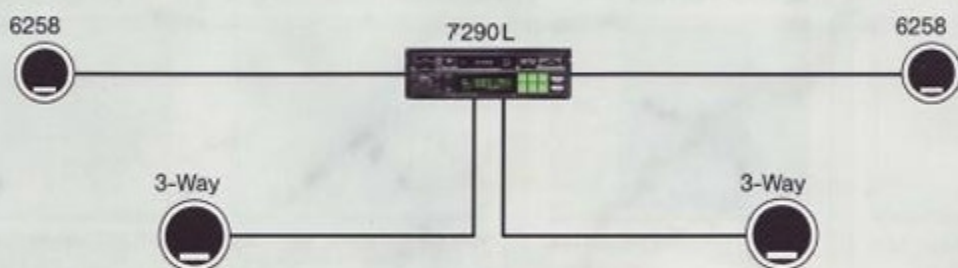
SYSTEMS

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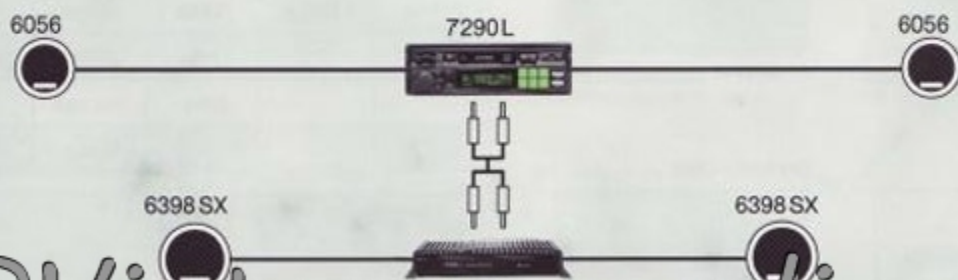
To attain the best results from your Alpine car radio, full consideration must be given not only to the selection of components, but also to the method of installation. On these pages we have offered some of our recommendations for basic system layouts.

We recommend, however, that you consult with your ALPINE dealer to assure the very best results.

SYSTEM 1



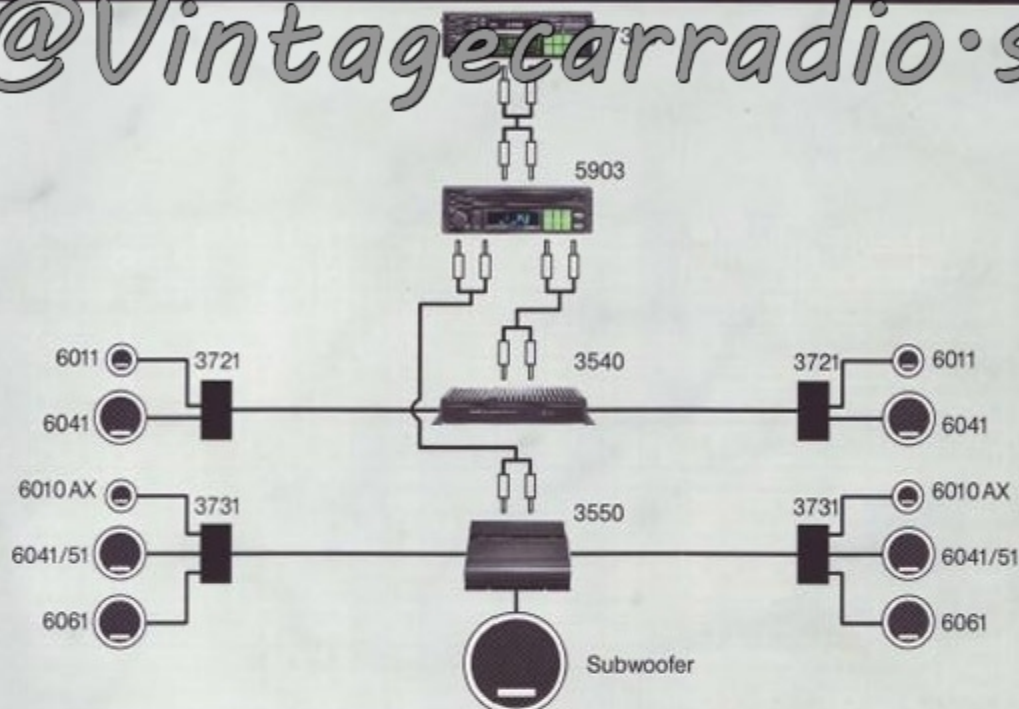
SYSTEM 2



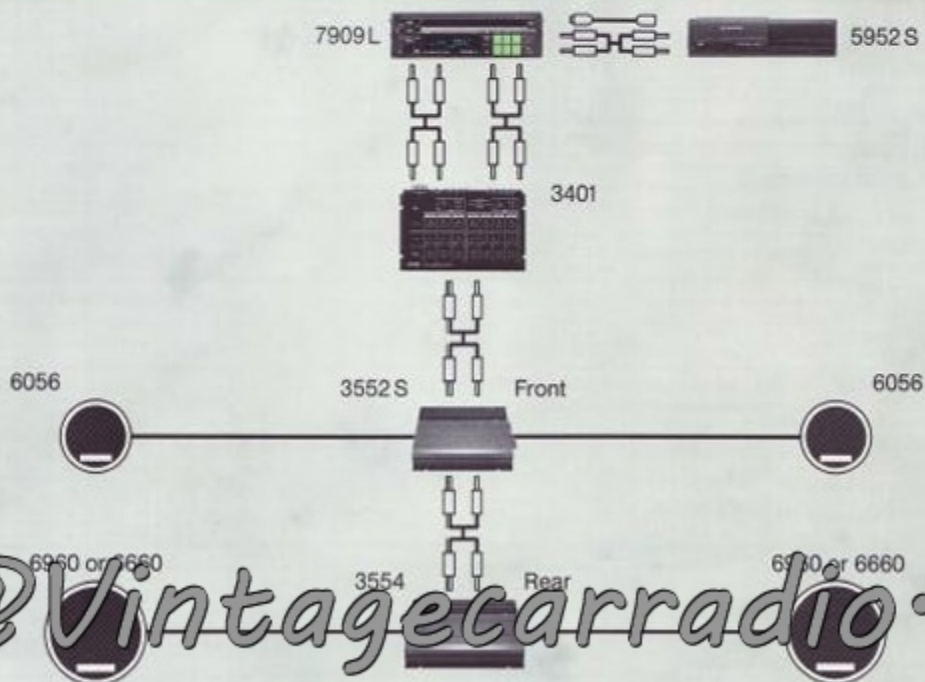
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SYSTEM 3

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SYSTEM 4



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HEAD UNITS

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Radio Cassette Players, DAT/CD Players, Cassette Players & Tuners		7909L	5952S	5953	5954	5955	7903MS	5903S	7900F	5700	7390M	7385R	7289L	7288L	7288MM	7380L	7282L	7290L	7179LA	7235M	5255 only Cass.	1390L Tuner	
RADIO	ETR/PLL Synl T-10 II (S = T-10 IIS) FM,AM,LW	•					•	2848		•	•	•	•	•	•	•	•	•	•	•	•	•	
	D.A.P. (Direct Access Preset)	•	(R)					•		•	•	•	•	•	•	•	•	•	•	•	•	•	
	Auto Memory	•	(R)																				
	Preset Stations	30	(30)				24	24		33	24	30	33	30	30	30	30	30	30	30	30	30	
	Preset Station Scan																						
	Preset Address (P = Pointed Address)	P	(P)				FL	P		P	P	P	P	LCB	LCB	LCB	LCB	LCB	LCB	LCB	LCB		
	Up/Down Seek	•	(R)				•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
	RDS (Radio Data System) / SDK						SDX			SDX	SDX				SDX						SDX		
	SDK Alarm Level Control																						
	Stereo/Mono Switch	•	(R)				•	•															(R)
Lo/BX Switch	•	(R)				•	•																(R)
CASS. DECK	Auto Reverse																						
	Ignition Key-Off Pause																						
	Automatic Cassette Glide																						
	Full Logic Control (Mechanism)																						
	True FF/REW										(SR)	(SR)	(SR)	(SR)	(SR)								
	Head Type										HLTAC	HLTAC	HLTAC	HLTAC	HLTAC	HLTAC	HLTAC	HLTAC	HLTAC	HLTAC	HLTAC		
	Music Sensor (D: Direct Sensor)										•	•	•	•	•	•	•	•	•	•	•	•	
	Music Scan										•	•	•	•	•	•	•	•	•	•	•	•	
	Blank Skip										•	•	•	•	•	•	•	•	•	•	•	•	
	Repeat										•	•	•	•	•	•	•	•	•	•	•	•	
	Return Eject											•											
	Tapo Play Pause										•	•	•	•	•	•	•	•	•	•	•	•	
	Dolby Noise Reduction										B/C	B/C	B/C	B/C	B/C	B/C	B/C	B/C	B/C	B/C	B/C	B/C	
Auto Metal Selector										•	•	•	•	•	•	•	•	•	•	•	•		
Radio Monitor										•	•	•	•	•	•	•	•	•	•	•	•		
CD/DAT	Dust Guard Door										•	•	•	•	•	•	•	•	•	•	•	•	
	Music Sensor Up/Down	•	(R)	•	•	•	•	•	•	•	(R)			(R)	(R)								
	Forward/Backward	•	(R)	•	•	•	•	•	•	•	(R)			(R)	(R)								
	Power Loading	•																					
	Mix (Random Play)	•	(R)	•	•	•	•	•	•	•													
	Music Scan	•	(R)	•	•	•	•	•	•	•													
	Preset Play	(R)	P.T.N.						P.T.N.	PROSP													
	O.T.M. (Omitted Track Memory)																						
	Repeat	•	(R)	•	•	•	•	•	•	•	(R)												
	Disc (DAT) Play/Pause	•	(R)	•	•	•	•	•	•	•	(R)				(R)	(R)							
	Oversampling Rate	8x	8x				8x	8x	8x	8x													
	Number of Bit	18bit	18bit				18bit	18bit	18bit	18bit													
	Number of DAC	2	2				2	2	2	1													
Digital Deemphasis	•					•	•	•	•														
Noise Shaping	•					•	•	•	•														
CD Straight	•					•	•	•	•														
GENERAL	CD Changer Control Function	•	•	•	•	•					•			•	•	•	•	•	•	•	•		
	Output Power (BTL Amp)									2x25W	2x25W	2x25W	2x25W	2x25W	2x25W	2x25W	2x25W	2x25W	2x25W	2x25W	2x25W		
	Selectable Fader (Pre/Power)																						
	Power Fader																						
	Pre Amp Fader	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Pre Out/In (O/I = Out & In)	OUT	OUT	O/I	O/I	OUT	O/I	OUT	O/I	OUT	OUT	OUT	O/I	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT	
	Separate Bass & Treble Controls (E = Electronic)	BT	E	E	E	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	BT	
	Loudness	•		E	E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Anti Theft (NEW + M = QRS Minder)																						
	Wireless Remote Control 4390 Acceptable																						
	Direct Source Access	•	(R)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Dimmer	•																					
	Gold Plated RCA Connector	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

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HEAD UNITS

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Radio/Cassette Players, DAT/CD Players, Cassette Players & Tuners		7909L	5952S	5953	5954	5955	7800F	7903MS	5903S	5700	7390M	7385R	7289L	7288L	7288MM	7380L	7292L	7290L	7179LA	7235M	5255 early Cass.	1390L Tuner		
FM	Tuning Range (MHz)	87.5-108	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
	None Usable Sensitivity (μ V)	1.5	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
	50 dB Quietening Sensitivity (dB)	20.7	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
	Alternative Channel Selectivity (dB)	80	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
	Signal to Noise ratio (dB)	60	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
	Stereo Separation (dB)	35	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
	Capture Ratio (dB)	2.0	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
AF-List											35													
MW	Tuning Range (kHz)	531-1602	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
	Sensitivity (μ V)	10	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
LW	Tuning Range (kHz)	153-281	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
	Sensitivity (μ V)	20	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	
TAPE	Wow and Flutter (% WRMS)										0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
	Tape Speed (4.8 cm/sec.) (%)										± 0.7	± 0.7	± 0.7	± 0.7	± 0.7	± 1	± 1	± 1	± 1	± 0.7	± 0.7			
	Stereo Separation (dB)	40									•	•	•	•	•	•	•	•	•	•	•	•	•	
	Signal to Noise Ratio (dB)	Dolby Off 55 Dolby B On 64 Dolby C On 72										•	•	•	•	•	•	•	•	•	•	•	•	
	Frequency Response	Alpine Test Tape (Hz) 70 μ s Metal Tape (Hz) 120 μ s Normal Tape (Hz)										18-22K	18-22K	30-22K	18-22K	30-22K	20-22K				38-22K	30-22K		
DAT/CD	Wow and Flutter (% WRMS)	0.01	0.01				0.01	0.01	0.01	0.01														
	Signal to Noise Ratio (dB)	110	88				92	92	92	90														
	Total Harmonic Distortion at 1 kHz (%)	0.002	0.03				0.01	0.01	0.01	0.005														
	Frequency response (Hz)	5-20K	5-20K				5-20K	5-20K	5-20K	5-22K														
GENERAL	Power Output per Channel (Watts)						2x25					2x25	2x25	2x25		2x25	2x25	2x5	2x25	2x25				
	Output Voltage (mV at 10 Kohm)	500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Bass at (dB)	± 18 (20Hz)	± 12 (20Hz)	± 12 (20Hz)			± 12 (100Hz)	± 18 (200Hz)	± 18 (200Hz)	± 12 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	± 18 (200Hz)	
	Treble at (dB)	± 18 (20KHz)	± 12 (5KHz)	± 12 (5KHz)			± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 12 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	± 18 (5KHz)	
	Loudness at 100 Hz (dB)		+18								+18	+18	+18	+18	+18	+18	+18	+18	+18	+18	+18	+18	+18	
	Chassis Size mm	Width	178	218				178	178	178	178	178	178	178	178	178	178	178	178	178	178	178	178	180
		Height	90	71				58	90	58	58	90	58	90	58	58	90	58	58	90	58	90	58	40
		Depth	163	156				153	153	153	148	144	153	153	153	153	164	153	153	153	153	153	153	148
	Black Box Size mm	Width	171	218	168	92	80	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171
		Height	90	71				58	90	58	58	90	58	90	58	58	90	58	58	90	58	90	58	40
Depth		163	156				153	153	153	148	144	153	153	153	153	164	153	153	153	153	153	153	148	120

* 5955 includes FM Modulator (90 x 25 x 45 mm)

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AMPLIFIERS/EQUALIZERS

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Model	Amplifiers										Graphic Equalizers			Dividing networks				
	3545	3544	3542	3541	3540	3554	3552s	3550	3501 ^{rev}	3531	3339	3321	3401	3656	3655	3653	3721	3731
Maximum Power Output (W)	-	-	2x125	2x100	2x65	4x120	4x90	4x70	2x20	4x40								
Power Output into 4 ohm 1 kHz (10% THD) (W)	2x370	2x210																
Continuous Average Power Output into 4 ohm 20 Hz - 20 kHz (0.04% THD) (W)	2x250	2x150	2x90	2x40	2x30	4x50	4x35	4x25										
BTI Mode Power Output into 4 ohm 1 kHz (10% THD) (W)	700 Max (0.8%)	630 Max	270 Max	220 Max	190 Max	2x200 or 2x100 *	2x140 or 2x70 *	2x100 or 2x50 *										
S/N Ratio (w/ HP-A Weighted) (dB)	110	110	108	106	105	105	105	105	90	90	100	100						
Frequency Response (dB) (dB)	10-50 +0 -1	10-50 +0 -1	10-50 +0 -1	10-50 +0 -1	10-50 +0 -1	10-50 +0 -1	10-50 +0 -1	10-50 +0 -1	20-20K +0 -1	20-20K +0 -1	10-50K +1 -1	10-50K +1 -1	10-50K +1 -1	10-50K +1 -1	10-50K +1 -1	10-50K +1 -1		
Crossover Point (Hz)						80	80	80			80	50	80	50	80	50	50	1.5K
Equalizer Frequency (Hz)						-18dB	-18dB	-18dB			-18dB	120	-18dB			50-800	50-1.8K	50-500
Tone Action (dB)																		
Bass Cut (dB)																		
Output Gain control																		
Input Sensitivity Fix 500 mV (w/10 x vol) variable 100 mV-2V	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Input Connector RCA Speaker	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Subwoofer Control Function Phase																		
Battery Check Function																		
B.R.C. (Compact)																		
Sound Memory																		
Equalizer																		
Status Monitor																		
Dec-B Circuit																		
E.T.A.R. Circuit																		
Sold Potted Terminal																		
Dimensions	Wide	293	220	220	200	263	263	220	148	125	157	178	240	240	180	180	137	240
Height	73	55	51	51	40	55	55	51	31	35	49	25	40	40	40	40	34	48
Depth	232	209	190	185	120	200	270	250	70	140	23	120	160	160	125	120	74	120

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SPEAKERS

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Model	Type	Power (watts)	Power (watts)	Power (watts)	Frequency Response (Hz)	Sensitivity (dB/W/m)	Mounting Diameter (mm)	Depth (mm)	Magnet Weight (g)
6010AX	1 1/2" (4,7 cm) Dome Tweeter	120	80	40	2.5 K ~ 22 K	91	-	-	-
6011	2" (5,4 cm) Dome Tweeter	150	100	50	2 K ~ 22 K (7.5K ~ 22 K)	88	54	-	14
6013	10" (25 cm) Subwoofer	300	200	100	22 ~ 1.2 K (20 ~ 80)	89	230	117	721
6014	15" (38 cm) Subwoofer	600	450	300	30 ~ 500	96	354	123	1821
6041	4" (10 cm) Mid Range	180	120	60	100 ~ 17 K (1.5 ~ 7.5 K)	87	103	46	211
6051	5 1/4" (13 cm) Mid Range	180	120	60	75 ~ 15 K (1.5 ~ 7.5 K)	87	116	52	226
6056AD	5 1/4" (13 cm) Component 2way	120	80	40	50 ~ 22 K	89	124	50	185
6061	6" (15 cm) Mid Woofer	180	120	60	50 ~ 8 K (80 ~ 1.5 K)	87	144	71	327
6137AX	3 1/2" (8 cm) Dual Cone	30	20	10	80 ~ 20 K	88	80	33	152
6152 ₀₂	5" (12 cm) Dual Cone	30	20	10	97 ~ 20 K	88	107	29	113
6157AD	5 1/4" (13 cm) Dual Cone	45	30	15	60 ~ 20 K	90	120	45	126
6180	9" (23 cm) Woofer/Subwoofer	200	150	100	30 ~ 6 K	89	183	96	857
6190	6" x 9" (15 x 23 cm) Subwoofer	-	150	100	30 ~ 6 K	92	150 x 220	88	606
6203SX	6 1/2" (16 cm) Coaxial 2way	60	40	20	60 ~ 20 K	90	129	51	227
6204AX	4" x 6" (10 x 15 cm) Coaxial 2way	60	40	20	60 ~ 21 K	90	142 x 85	45	152
6205SX	6" x 9" (15 x 23 cm) Coaxial 2way	90	60	30	45 ~ 21 K	92	153 x 226	72	340
6221AX	4" x 6" (10 x 15 cm) Coaxial 2way	60	40	20	60 ~ 21 K	90	142 x 85	45	152
6222AX	5 1/4" (13 cm) Coaxial 2way	60	40	20	60 ~ 21 K	90	109	50	152
6241AX	4" (10 cm) Coaxial 2way	30	20	10	70 ~ 21 K	90	91	38	100
6242AX	4" (10 cm) Coaxial 2way	60	40	20	70 ~ 21 K	90	102	43	126
6246SX	4" (10 cm) Coaxial 2way	60	40	20	95 ~ 21 K	86	102	42 (37)	122
6248SX	4" (10 cm) Coaxial 2way	60	40	20	60 ~ 21 K	88	104	45	181
6251AD	5 1/4" (13 cm) Coaxial 2way	60	40	20	60 ~ 21 K	90	116	43	100
6256SX	5 1/4" (13 cm) Coaxial 2way	90	60	30	50 ~ 22 K	90	124	52 (42)	227
6258SX	5" (12 cm) Coaxial 2way	60	40	20	50 ~ 21 K	90	122	38 (33)	181
6261AX	6 1/4" (17 cm) Coaxial 2way	60	40	20	50 ~ 21 K	91	141	58	181
6366SX	6 1/2" (16 cm) 3way	120	80	40	50 ~ 21 K	89	128	66	283
6368SX	6 1/2" (16 cm) Coaxial 3way	90	60	30	50 ~ 20 K	89	129	51	227
6386	8" (20 cm) 3way	150	100	50	45 ~ 21 K	92	182	82 (52)	424
6396SX	6 1/2" x 9" (15 x 23 cm) 3way	150	100	50	45 ~ 21 K	93	153 x 226	73	501
6398	6" x 9" (15 x 23 cm) 3way	90	60	30	45 ~ 21 K	94	153 x 226	73	501
6561	Component 2way	120	80	40	50 ~ 22 K	91	124	55	185
6660	6 1/2" (16 cm) Coaxial 2way	150	100	50	47 ~ 22 K	88	144	71	327
6680	6 1/2" (16 cm) 3way	60	40	20	60 ~ 21 K	91	134	38	170
6960	6" x 9" (15 x 23 cm) Coaxial 2way	150	100	50	44 ~ 22 K	89	151 x 222	82	450

* Recommended Frequency Range

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Austria
CLAUS GRÖTHUSEN OHG
Saalachstr. 40, A-5020 Salzburg
Tel.: 06 62-3 36 88-0, Fax: 06 62-3 36 88-99, Tlx.: 6 33 433

Belgium
INDEURP AUTO SOUND SERK
Fotografieleen 20, B-2610 Wilrijk (Antwerpen)
Tel.: 03-8 28 44 63, Fax: 03-8 28 46 88, Tlx.: 5 39 84

Denmark
ALPINE ELECTRONICS A/S
Søndermark 13, DK-4340 Hvalby
Tel.: 43 43 81, Fax: 43 43 82

Finland
ALPINE RADIOPARI OY
Valeraudentie 8, SF-00700 Helsinki
Tel.: 90-37 01 55, Fax: 90-37 81 31, Tlx.: 12 24 39

France
ALPINE ELECTRONICS FRANCE S.A.R.L.
98, rue de la Belle Étoile, Z.I. Paris Nord II B.P. 50016
F-95045 Roissy Charles de Gaulle Cedex
Tel.: 01-48 63 89 89, Fax: 01-48 63 25 81, Tlx.: 23 07 57

Germany
ALPINE ELECTRONICS GMBH
Brandenburger Str. 2-4, D-4830 Ratingen
Tel.: 0 21 02-45 50

Greece
TENET LTD.
9, Valaoritou Str., GR-10671 Athens
Tel.: 01-3 60 36 67/8, Fax: 01-3 61 66 03, Tlx.: 21 48 88-zed gr

Italy
ALPINE ITALIA S.p.A.
Via Baccaccio 3, I-20080 Trezzano sul Naviglio
Tel.: 02-4 45 50 13, Fax: 02-4 45 54 85, Tlx.: 32 06 99

Netherlands
ALPINE ELECTRONICS GMBH
Nijenheidsweg 9-C, NL-3433 NP Nieuwegein
Tel.: 034 02-6 47 04, Fax: 034 02-6 01 24

Norway
ALPINE NORGE A/S
P.B. 1579 Nidarvelli, N-7002 Trondheim
Tel.: 07-96 31 40, Fax: 07-96 72 43

Portugal
GALSON
R. Antonio Saude nr. 7-A, P-1500 Lisboa
Tel.: 01-74 04 05, Fax: 01-78 28 42, Tlx.: 6 43 75

Spain
ALPINE ELECTRONICS DE ESPAÑA S.A.
Dulzaina ss. 7, E-01006 Vitoria
Tel.: 9 45-14 44 38, Fax: 9 45-14 45 92

Sweden
ALPINE SVENSKA AB
Box 2075, S-444 02 Stenungsund
Tel.: 03 03-7 85 25, Fax: 03 03-7 79 75, Tlx.: 2 12 67

Switzerland
ALPINE ELECTRONICS SWITZERLAND AG
Klosterstrasse 39, CH-5430 Wetzigen
Tel.: 0 56-26 30 56, Fax: 0 56-26 30 25

U.K.
ALPINE ELECTRONICS OF U.K. LIMITED
13 Tanners Drive, Blacklands, GB-Milton Keynes Bucks, MK14 5BU
Tel.: 09 08-61 15 56, Fax: 09 08-61 84 20, Tlx.: 82 69 09

@Vintagecarradio.se

ALPINE ELECTRONICS INC.
Tokyo Office: 1-1-8 Nishi Gotanda Shinagawa-ku Tokyo 141
Tel.: 03-494-1101, Fax: 494-1109, Tlx.: 246-86 69

Main Office:
20-1, Yoshino-Kogyodanchi, Inaaki-City, Fukushima 970-11, Japan
Tel.: 02 46-36-4111, Fax: 02 46-36-6137, Tlx.: 89 27 61

Engl.
vintagacararadio.se