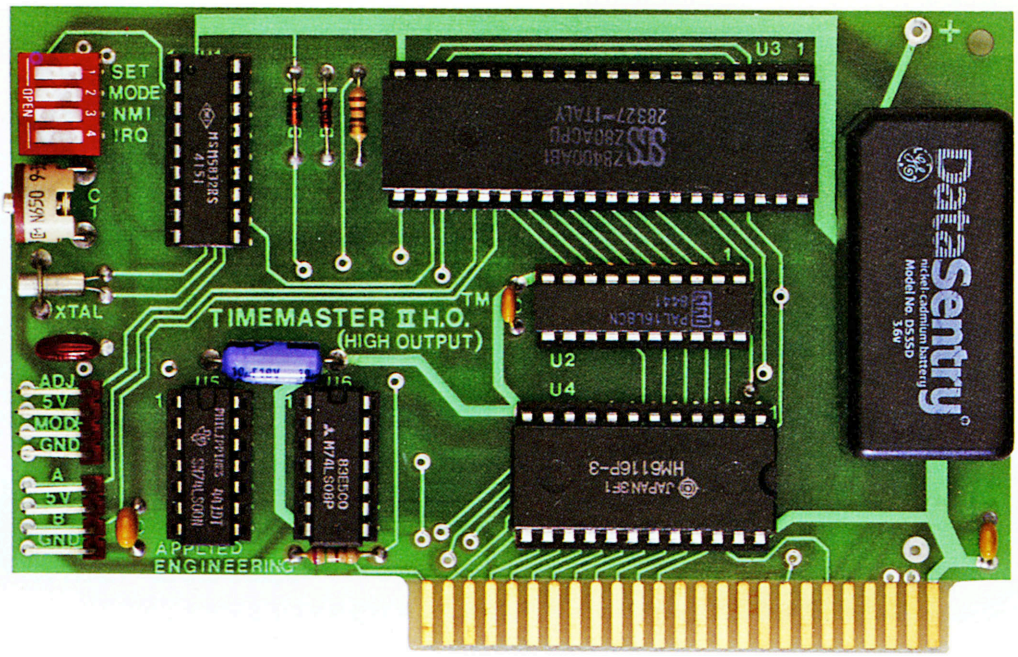
COMPATIBLE WITH IIe and II+



FEATURES

- Meets and surpasses all protocols as defined by Apple
- Absolutely, positively, totally PRO-DOS and DOS 3.3 compatible
- Time in hours, minutes, seconds and milliseconds (the ONLY PRO-DOS compatible card with millisecond capability)
- 24 hour military format or 12 hour with AM/PM format
- Date with year, month, day of week and leap year (other clocks say they have the year, but they don't; it's just that PRO-DOS will calculate the year based on day of week and it only does this for 7 years)
- The easiest programming in BASIC
- Fully buffered data buss
- Eight software controlled interrupts so you can run two programs at the same time (many examples are included)
- The only card recognized by both the DOS 3.3 and PRO-DOS versions of AppleWriter IIe
- Compatible with ALL of Apple's languages. Sample programs for machine code, Applesoft, CP/M and Pascal on 2 disks
- On-board timer lets you time any interval up to 48 days long down to the nearest millisecond
- Accuracy 0.00005% : Battery Life 20 Years
- High quality P.C. board, gold plated connector, all I.C.'s in high quality sockets, with mil. spec. components used throughout
- Three year warranty

H.O. — FOR THOSE WHO NEED IT, SIMPLICITY

At first, all clock cards seem to give you about the same things. Until you put them to work. Then you'll find out if they do everything you expected. Or make you do everything the hard way or maybe they won't even do it at all.

You know what makes the difference? It's not just having the newest, whizziest features, but rather what those features actually do for you in the real world. And that's the whole idea behind the Timemaster II H.O. because the H.O. is designed to work with you in a natural, intuitive way.

What we're really talking about here is useability. When you get right down to it, it's not any one big thing, but a combination of a lot of little things. Like full emulation of ALL other clocks. Yes, we emulate Brand A, Brand T, Brand P, Brand C, Brand S and Brand M too. It's easy for the H.O. to emulate other clocks, we just drop off features. That's why the H.O. can emulate others, but none of the others emulate us.

The Timemaster II H.O. will automatically emulate the correct clock card for the software you're using. You can also give the H.O. a simple command to tell it which clock to emulate. This is great for writing

H.O	PRO-DOS COMPATIBLE	INCLUDES DOS DATER	MILLISECOND TIME	YEAR DATA	LARGEST SAMPLE SOFTWARE	REMOTE SET PORT	BSR PORT	EMULATES ALL OTHER CLOCKS
	YES	YES	YES	YES	YES	YES	YES	YES
BRAND A	NO	NO	YES	NO	NO	NO	NO	NO
BRAND C	NO	NO	NO	NO	NO	NO	NO	NO
BRAND M	NO	NO	NO	NO	NO	NO	NO	NO
BRAND P	YES	YES	NO	YES	NO	NO	NO	NO
BRAND S	NO	NO	NO	YES	NO	NO	NO	NO
BRAND T	YES	NO	NO	NO	NO	NO	YES	NO

programs for those poor unfortunates who bought some other clock card.

Of course, most programs will use the Timemaster II H.O. in its native mode, but it's comforting to know that you can use programs written for other products without any modification.

H.O. — FOR THOSE WHO CAN HANDLE IT, PERFORMANCE

If you program, (or are learning to) you'll find the H.O. a joy to use, a 36 page manual has many program examples. Soon you'll wonder how you ever got along without your H.O. And speaking of software, you also get 2 disks full of some really fantastic sample programs in machine code, DOS 3.3, PRO-DOS, BASIC, PASCAL and CP/M. In fact, we provide more sample software than all the competition combined. Hobbyist take note; most of the machine code programs come with their source code on disk. In Pascal, the H.O. will update the filer and disks with the correct date and time. All routines are installed in the SYSTEM LIBRARY for easy use. You'll never use the Date command again! Other software includes Appointment Book so you'll never forget to do anything again. Just enter appointments up to a year in advance then forget them, Appointment Book will remind you.

As for PRO-DOS, well, the H.O. is totally PRO-DOS compatible. The H.O. works with PRO-DOS software like Apple Works, Catalyst IIe, Word Juggler and ALL other PRO-DOS software. And let's get one other thing out of the way—No other clock is more compatible with PRO-DOS than the Timemaster II H.O.; none, zero, zip.

Dos 3.3 users will appreciate our Dos-Dater software, which upgrades the DOS on your disks so that DOS 3.3 will use the H.O. to time and date (including the year) disk files. Every time a program is saved or modified, the time and date are stored in the CATALOG with the name. You can now tell when a program was saved or when any file was last modified, and this date stamping feature is completely automatic.

REMOTE CONTROL

Our BSR X-10 interface option for the H.O. allows you to remotely control lights and electrical appliances through your BSR X-10 home control system in your home or office. You're already wired because a BSR system sends its signals over regular 120 volt wiring. That means you can control any electrical device in your home or office without any additional wiring.

The X-10 is easy to program because it is controlled by firmware in ROM on the Timemaster II H.O. One simple command will turn on or off any appliance or light (lights can be brightened or dimmed too). Use your Apple for security lighting, heating and A.C. control, lab/process control, waking up Junior, re-waking up Junior and controlling your T.V. set (just think, you need not miss another episode of Star Trek).

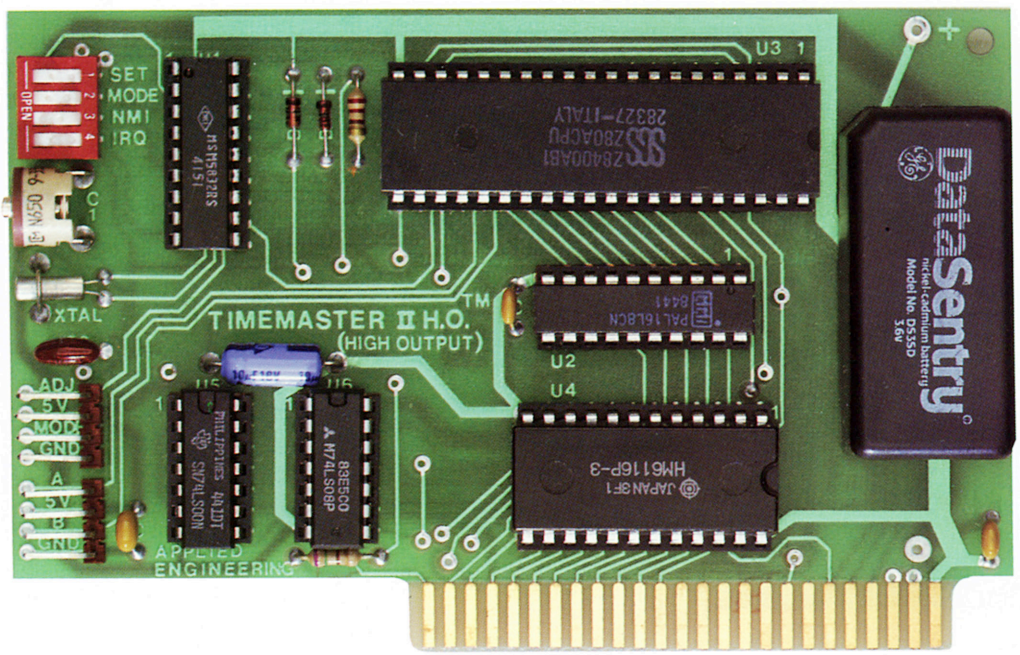
Is the Timemaster II H.O. a simple, easy to use clock for beginners? Or a sophisticated high performance peripheral for the experienced? The answer is "YES". And when you think about it, aren't those two products the one you need now?

BSR Option (may be added later) $49

$129

and C.O.D. 214/241-6060

COMPATIBLE WITH IIe and II+



FEATURES

- The only clock that displays the date and time on the Appleworks screen
- Meets and surpasses all protocols as defined by Apple
- Absolutely, positively, totally PRO-DOS and DOS 3.3 compatible
- Time in hours, minutes, seconds and milliseconds (the ONLY PRO-DOS compatible card with millisecond capability)
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- Eight software controlled interrupts so you can run two programs at the same time (many examples are included)
- The only card recognized by both the DOS 3.3. and PRO-DOS versions of AppleWriter IIe
- Compatible with ALL of Apple's languages. Sample programs for machine code, Applesoft, CP/M and Pascal on 2 disks
- On-board timer lets you time any interval up to 48 days long down to the nearest millisecond
- Accuracy 0.00005%
- High quality P.C. board, gold plated connector, all I.C.'s in high quality sockets, with mil. spec. components used throughout
- Five year warranty
- Auto Recharging nickel-cadmium battery will last over 20 years

Only the Timemaster H.O. displays the date and time on the Appleworks screen.

	PRO-DOS COMPATIBLE	INCLUDES DOS DATER	MILLISECOND TIME	YEAR DATA	LARGEST SAMPLE SOFTWARE	REMOTE SET PORT	BSR PORT	EMULATES ALL OTHER CLOCKS
H.O	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**
BRAND A	NO	NO	YES	NO	NO	NO	NO	NO
BRAND C	NO	NO	NO	NO	NO	NO	NO	NO
BRAND M	NO	NO	NO	NO	NO	NO	NO	NO
BRAND P	YES	YES	NO	YES	NO	NO	NO	NO
BRAND S	NO	NO	NO	YES	NO	NO	NO	NO
BRAND T	YES	NO	NO	NO	NO	NO	YES	NO

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The Timemaster H.O. will automatically emulate the correct clock card for the software you're using. You can also give the H.O. a simple command to tell it which clock to emulate. This is great for writing programs for those poor unfortunates who bought some other clock card. In fact, you could put ALL the competitive cards in every slot in your Apple and you still wouldn't have all the features of the Timemaster H.O.

Of course, most programs will use the Timemaster H.O. in its native mode, but it's comforting to know that you can use programs written for other products without any modification.

The Timemaster H.O. comes with a ton of fun and useful software. It has an easy-to-read yet detailed manual, a 20 year auto-recharging battery and a 3 year no hassle warranty.

H.O. — FOR THOSE WHO CAN HANDLE IT, PERFORMANCE

If you program (or are learning to), you'll find the H.O. a joy to use. A 36 page manual has many program examples. Soon you'll wonder how you ever got along without your H.O. And speaking of software, you also get 2 disks full of some really fantastic sample programs in machine code, DOS 3.3, PRO-DOS, BASIC, PASCAL and CP/M. In fact, we provide more sample software than all the competition combined. Hobbyist take note: Most of the machine code programs come with their source code on disk. In Pascal, the H.O. will update the filer and disks with the correct date and time. All routines are installed in the SYSTEM LIBRARY for easy use. You'll never use the Date command again! Other software includes Appointment Book so you'll never forget to do anything again. Just enter appointments up to a year in advance then forget them. Appointment Book will remind you.

As for PRO-DOS, well, the H.O. is totally PRO-DOS compatible. The H.O. works with PRO-DOS software like Appleworks (only the Timemaster H.O. displays the date and time on the Appleworks screen), Catalyst IIe, SuperCalc 3A, Word Juggler and ALL other PRO-DOS software. And let's get one other thing out of the way—No other clock is more compatible with PRO-DOS than the Timemaster II H.O.; none, zero, zip.

DOS 3.3 users will appreciate our Dos-Dater software, which upgrades the DOS on your disks so that DOS 3.3 will use the H.O. to time and date (including the year) disk files. Every time a program is saved or modified, the time and date are stored in the CATALOG with the name. You can now tell when a program was saved or when any file was last modified, and this date stamping feature is completely automatic.

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The X-10 is easy to program because it is controlled by firmware in ROM on the Timemaster II H.O. One simple command will turn on or off any appliance or light (lights can be brightened or dimmed too). Use your Apple for security lighting, heating and A.C. control, lab/process control, waking up Junior, re-waking up Junior and controlling your T.V. set (just think, you need not miss another episode of Star Trek).

Is the Timemaster II H.O. a simple, easy to use clock for beginners? Or a sophisticated, high performance peripheral for the experienced? The answer is "YES". And when you think about it, aren't those two products the one you need now?

BSR Option (may be added later) $49
Timemaster H.O. **$129**

and C.O.D. 214/241-6060

TIMEMASTER H.O.™

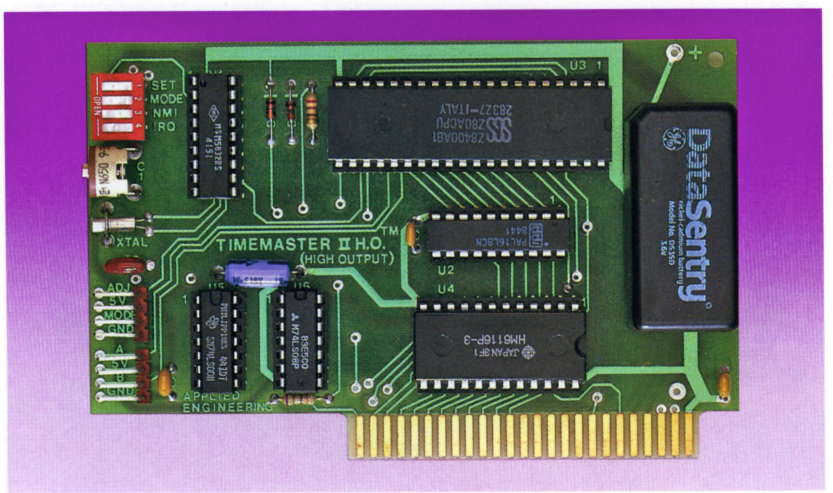
All the features of all the competition combined.

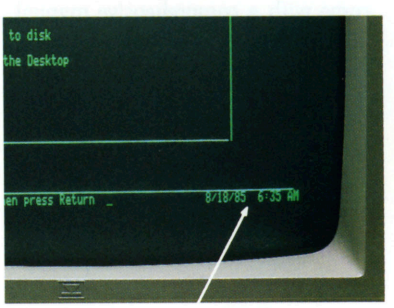
The smart way to put the time and date on your II+, IIe and IIGS. Only Timemaster H.O.™ packs all the features of all the competition into one affordable card and makes that card totally ProDOS, DOS 3.3, PASCAL and CP/M compatible. And Timemaster is far superior to any other card for AppleWorks.

If you're using or writing software for other clock cards, you're still covered. Because the H.O. will automatically emulate them. And the Timemaster adds 14 new commands to BASIC. The H.O. even comes complete with two disks full of sample programs in machine code, DOS 3.3, ProDOS, BASIC, PASCAL and CP/M.

The free programs include a computerized appointment book, a DOS dating program, interrupt programs and over 30 other programs that others charge extra for - or don't even offer. And all routines are installed in the System Library for easy use. You'll never use the Date command again.

As a low-cost option, you can add true BSR remote control to the H.O., giving you remote control of up to 16 lights and appliances in your home or office. Our BSR X-10 sends its signals over regular 110 volt wiring, so your home is already wired. And the BSR is easy to program because it's controlled by firmware in ROM on the Timemaster H.O.





Timemaster H.O. is the first clock to display the date and time on the AppleWorks screen

One simple command will turn on or off any appliance or light (lights can be brightened or dimmed, too). Use your Apple for security lighting, wakeup, and controlling your TV.

Features:

- The first clock that displays the date and time on the AppleWorks screen and database files
- Allows AppleWorks to time and date stamp all data files automatically
- Meets and surpasses all protocols as defined by Apple
- Totally ProDOS and DOS 3.3 compatible
- Time in hours, minutes, seconds and milliseconds
- 24 hour military format or 12 hour with AM/PM format
- Date with year, month, day of week and leap year (other clocks say they have the year, but they don't; it's just that ProDOS will calculate the year based on day of week and it only does this for 7 years)
- The easiest programming in BASIC
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- Eight software controlled interrupts so you can run two programs at once
- Digital I/O port for advanced applications
- Compatible with all of Apple's languages. Sample programs for machine code, Applesoft BASIC, CP/M and Pascal on 2 disks
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- Accuracy 0.00005%
- High quality P.C. board, gold-plated connector, all I.C.'s in high quality sockets
- Auto-recharging nickel-cadmium battery designed to last over 20 years
- 5 year warranty - parts and labor
- Proudly made in the U.S.A.

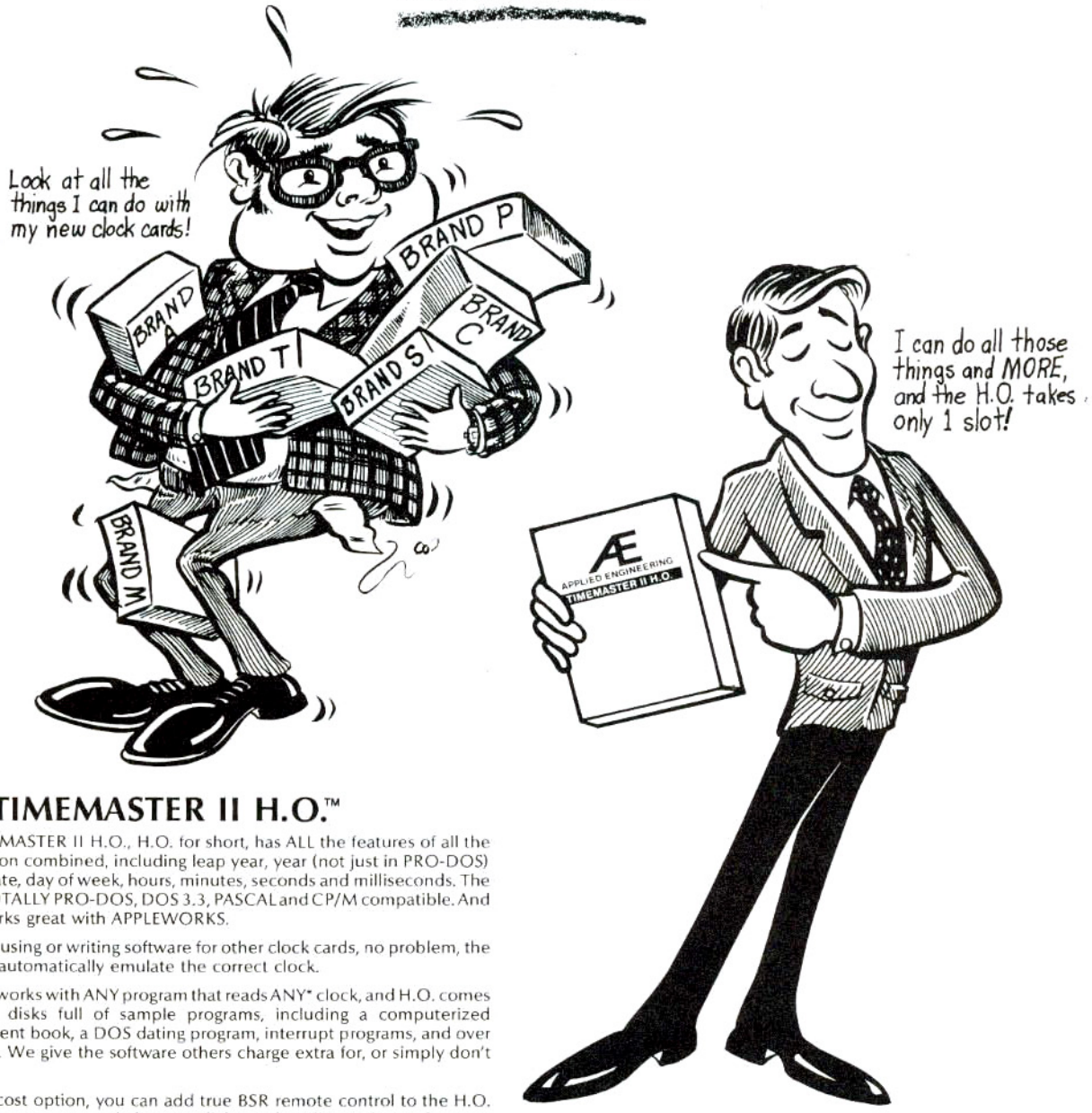
Timemaster H.O.	**$99**
BSR Option	
(may be added later)	**$29**
BSR Command Console	**$39**

II+
IIe
IIGS
Laser
Franklin

THE TIMEMASTER II H.O.™

(H.O. for short)

All the features of all the competition combined.



The TIMEMASTER II H.O.™

The TIMEMASTER II H.O., H.O. for short, has ALL the features of all the competition combined, including leap year, year (not just in PRO-DOS) month, date, day of week, hours, minutes, seconds and milliseconds. The H.O. is TOTALLY PRO-DOS, DOS 3.3, PASCAL and CP/M compatible. And yes, it works great with APPLEWORKS.

If you are using or writing software for other clock cards, no problem, the H.O. will automatically emulate the correct clock.

The H.O. works with ANY program that reads ANY* clock, and H.O. comes with two disks full of sample programs, including a computerized appointment book, a DOS dating program, interrupt programs, and over 30 others. We give the software others charge extra for, or simply don't have.

As a low cost option, you can add true BSR remote control to the H.O. giving you remote control of up to 16 lights and appliances in your home or office.

Is the TIMEMASTER II H.O. a simple, easy to use clock for beginners? Or a sophisticated high performance peripheral for the experienced? The answer is "YES". And when you think about it aren't those two products, the one you need now?

Call 214/492-2027, 8 AM to 11 PM, 7 days a week. MasterCard, Visa & C.O.D. welcome. No extra charge for credit cards.

Send check or money order to: APPLIED ENGINEERING, P.O. Box 798, Carrollton, TX 75006. Texas residents add 5% sales tax. Add $10.00 if outside U.S.A.

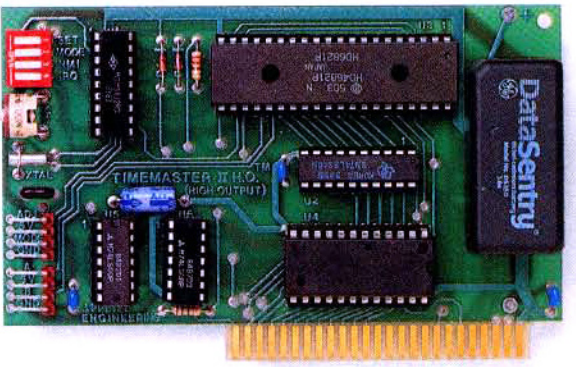
TIMEMASTER II H.O. **$129**
BSR Option **$49**

APPLIED ENGINEERING

*Obviously, by ANY, we mean clock cards that are advertised and sold, not necessarily a clock card that your cousin Ralph built in his basement.

THIS ADVERTISER PREFERS TO BE CONTACTED DIRECTLY.

The first clock card to add time and date to AppleWorks'™ screens and files.



Timemaster H.O. So many features it's become the world's best selling clock card.

It's the smart way to put the time and date on your Apple IIe® or II+®. Because only the Timemaster H.O. packs *ALL* the important features of all the competition *combined*, including leap year, year (not just in PRO-DOS), month, date, day of week, hours, minutes, seconds and milliseconds. It's totally PRO-DOS, DOS 3.3, PASCAL and CP/M compatible. And, of course, it works better than any other clock with AppleWorks.

With the Timemaster H.O. you're assured of reliable, trouble-free operation along with simple, built-in, one-command time setting, accuracy through leap years, and a firmware maintained interrupt setting.

If you're using or writing software for other clock cards, you're still covered. Because the H.O. will *automatically* emulate them. And only the Timemaster H.O. adds 15 new commands to BASIC. The H.O. even comes complete with two disks full of sample programs, including a computerized appointment book, a DOS dating program, interrupt programs, and over 30 programs that others charge you extra for — or don't even offer. As a low-cost option, you can add true BSR remote control to the H.O., giving you remote control of up to 16 lights and appliances in your home or office.

• Time in hours, minutes, seconds and milliseconds; date with year, month, day of week and leap year • 24-hour military format or 12-hour AM/PM format • Eight software controlled interrupts so you can run two programs at the same time (many examples included) • Can be set precisely to the exact second • Digital I/O port for advanced applications • Allows AppleWorks to time and date stamp all data automatically • Displays time and date on AppleWorks screens and files • Five-year warranty

Timemaster H.O.	**$99.00**
BSR option (may be added later)	**$29.00**

Order Timemaster today ... with 15-day money back guarantee and our "no hassle" five-year warranty. See your dealer or call (214) 241-6060, 9 a.m. to 11 p.m., 7 days, or send check or money order to Applied Engineering. MasterCard, Visa and C.O.D. welcome. Texas residents add 6¼% sales tax. Add $10.00 if outside U.S.A.

Applied Engineering

The Apple enhancement experts.

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