



Manual for Professional Golf Analysis Program



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Written in Plain English.

Congratulations on your purchase of your Sports Coach Professional Golf Analysis Program. This is easily the most interactive program ever developed for the golf industry. We have created a very versatile and user-friendly program, which allows you to do complete data analysis, in a very short space of time. We have avoided the mistakes of other systems by designing it with the complete fitting, in an easy to use format. By incorporating golf bags and golf balls in an easily updated, data base system. So that all data from golfers, can be stored against each golfer. So that recalling previous data, takes seconds and not weeks. To keep you in touch with additional features, software upgrades, new software, new hardware, manuals visit the website regularly at www.sports-coach.com.

Having used specially developed golf software for the past 20 years, we understand the need to develop a system around an easy to use programme, so all professional staff can maximise the capabilities of themselves and the system potential.

Regarding the installation of your software, as long as you have already installed the hardware as per the manual for Driving Range and Simulator, it should only take you a few minutes, before you are ready to use the software. If you have purchased a system, the software will be pre installed and tested.

Most other systems can only be used indoors beneath a light, which has restricted the selling of both golf clubs and balls. So we developed this system so it can be versatile, in that it can be used indoors, on the practise ground, driving range and golf academy. Whilst utilising a great deal of sensors, so that accuracy is maintained through out, it's usage.

This software requires the Simulator Mat installed First, please refer to Simulator Installation Manual

Professional Golf Analysis Program Includes

Sports Coach's Program CD, Manual for Professional Golf Analysis Software, Security Device and License.

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1. Basic Minimum System Requirements

A Pentium 400MHz Processor larger recommended, 32 Mb Ram larger recommended, Floppy Disc Drive 3.5", CD Rom Drive 24 Speed or more, 500 Mb Hard Drive larger recommended, VGA Display 1068 x 768 minimum and 32 Bit Colour, 8 Mb Graphics Card 16Mb recommended, USB, Serial and Parallel Ports, Windows 98, 2000, ME or XP

2. Fitting Security Device

The program needs to locate the security device, for the program to function. It is used to check that the Golf Analysis Program is Licensed. Without the security device being attached to the printer port, the program will not function.

3. Installing Professional Golf Analysis Software (When Purchased)

Place the CD marked Sports Coach Programs into the CD Rom Drive. The CD will automatically boot up double click on the Golf Analysis header and the program will then install, follow the screen commands, then Reboot. Then click on the security device driver header and install, follow the screen commands, then Reboot

4. Creating Desktop Shortcut

Click start, Click Programs, Click Sports Coach Golf Range, then Right Click Sports Coach Golf Range. Move mouse to Send To click Desktop (create shortcut), this has now been created.



5. Entering the Programme

The Professional Golf Analysis Program is entered by double clicking the Icon on the desktop. The introduction screen appears, you must enter the golfers name then press any key to enter the program.

6. Measurements Displayed

Carry Yards is the distance in yards the ball has travelled in the air, for the club that has been chosen.

Spin Degrees is the measurement of the amount of ball spin that has been created, in degrees.

Velocity Mph is the speed in miles per hour that the golf ball that created, after leaving the golf tee.

Speed Mph is the amount of speed of the club head, generated at impact; this is shown in miles per hour.

Impact Position is the position of the club head in relation to the ball at impact, measured in inches.

Rotation Ins is the amount of rotation of the club head, to the shaft, during impact measured in degrees.

Hit Factor is the factor of club head and ball velocity that is generated at impact.

Distance is ball carry plus the additional ball roll that is expected for each club, this is shown in yards.

Face Angle is the position of the club head in relation to target line at impact, measured in degrees.

Swing Path is the angle of the golf swing in relation to the target line, this is measured in degrees.

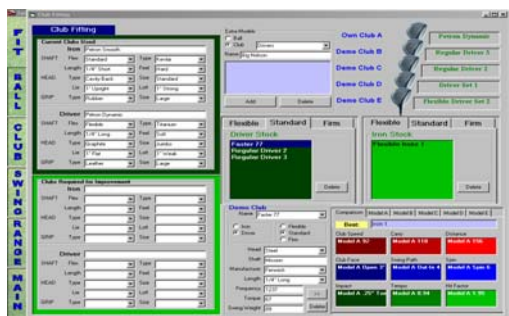
Tempo Sec is the total time from moving the club back to impact of the golf ball, in fraction of seconds.

7. Fit Analysis Screen

Is designed for the Club Fitter, who wishes to speed up the fitting service, whilst proving what model is actually best, for the Golfer. This is done by inputting the data for each demo model, that is held in stock and then giving it a description that is relevant to the Club Fitter. The Demo Models when entered are saved in the Demo Models Stock, where they can be altered and deleted as the demo stock changes. The demo clubs can then be copied to the Demo Model Stock, to the following choices Flexible, Regular and Firm. By doing this it speeds up the fitting by, allowing the Club Fitter, to select the actual demo models they have which will suit the Golfer, when compared, with the club speed that was actually achieve. As all Golfers come within any of the 3 options, so this saves time for there is no point using demo models, which are designed for different types of clubhead speed.

During the fitting you should enter the current Golfer's model used, whether it's a fitting for a 5 iron or driver. Giving the various options for the Shaft Flex, Shaft Type, Shaft Length, Shaft Feel, Head Type, Head Size, Head Lie, Head Loft, Grip Type and Grip Size. There is a small arrow to the right of each box so you do not have to type in the information, just select one of the options. Later on you can also enter the specification for the improved performance using the same method.

The current club whether it's a 5 iron or a driver, will appear in the top right as Own Club A. Then you should get the Golfer to hit a few shots on the Main screen.



The average club head speed over the few shots hit, will determine which type of shaft type will suit the Golfer. for instance for a 5 Iron with a clubhead speed of 60 miles per hour or less shows a Flexible Shaft, is required. For a 5 Iron with a clubhead speed of between 61 and 80 miles per hour shows a Regular Shaft is required and for a 5 Iron with a clubhead speed of 80 miles per hour or more shows a Firm Shaft is required. For a Driver with a clubhead speed of 75 miles per hour or less shows a Flexible Shaft, is required. For a Driver of between 76 and 95 miles per hour shows a Regular Shaft is required and a Driver with a clubhead speed of 96 miles per hour or more shows a Firm Shaft is required. When you go back into the Fit Analysis Screen the Shaft Selection will be highlighted, from the three choices, Flexible, Regular or Firm.

From the Demo Stock Selection you can choose the demo models that would suit the Golfer's finances as well as their game. Simply by clicking on the relevant demo models you then drag them onto Demo Models B to E. It is now a good idea to go back to Main screen and hit a few shots, with each of the 4 chosen models. Then you can go back to the Fit Analysis Screen to look at Model Comparison, delete if required any shots that were not properly struck. Then the system will show which is the best model for the Golfer.

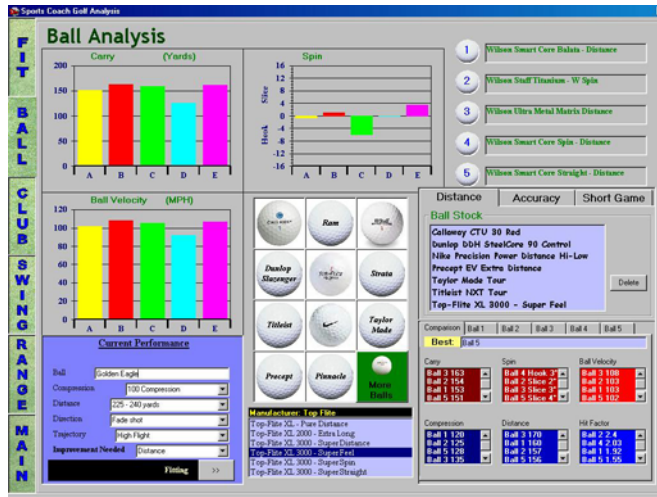
8. Ball Analysis Screen

Allows the Retailer to prove to the Golfer, which golf ball will best suit their game, from your own Stock.

Initially you should click on the manufacturers golf balls and select from the balls shown and drag your stock of golf balls into any of the three Ball Stock Selection, choices. Length, Accuracy and Short Game, the information from the manufacturer's will indicate which type of ball, it should be listed under.

When using the Ball Fitting, which it is a good idea to use a driver during the fitting. Type in the current golf ball details and then go to the current compression and click on the arrow and choose from the selection. If possible it is a good idea to hit a few shots with the Golfer's current or a similar type of ball, to show what type of performance is currently gained. Then click the arrow to select the current range of distance the Golfer hits the ball. Ask the Golfer what type of trajectory they currently hit the ball from the 3 selections, which are High Flight, Low Flight or normal flight and select by clicking the arrow.

The last selection to determine the improvement that's required, the three choices are Length, Accuracy or Short Game. Then click GO, next to Ball type recommended, which sends you to the relevant Ball Stock Selection, from the three tabs being Length, Accuracy and Short Game, one of which will be highlighted.



The Ball Stock Selection gives a list of balls in stock which are designed to improve this part of the Golfer's game, you can now drag golf balls from this Selection choice onto the 5 balls in the top right of the screen. It is also possible to drag the golfer's current ball onto one of the 5 balls. So you can prove to the Golfer, that there is significant improvement. When you have dragged the golf balls models onto the 5 selected balls, you should then go to the Main screen.

From the Main screen you can click on each of the 5 golf ball models, to select them. It is worth hitting a few shots with each golf ball and then going back to the Ball Analysis Screen, to view the results.

Go to Ball Comparison and choose any Ball number where shots that were mishit and delete those shots. Then ball comparison will be updated and it will show which is the best ball for the Golfer. The intention is to update the Balls available for each Manufacturer, each season as new Balls are released by the Ball Manufacturers.

9. Club Analysis Screen

Allows the Retailer to prove to the Golfer, which Model would best suit, their game, from your own Stock.

Initially you should click on the manufacturers bags and select from the models shown and drag the models you stock into any of the three Model Stock Selection, choices. Flexible, Regular and Firm, information from the manufacturer will indicate which section the clubs should be listed under.

When using the Club Analysis you can compare the Golfer's current model with those models from your stock. It is worth getting the Golfer to hit a few shots, with either their own model or a similar model they currently use. Note the average clubhead speed over the few shots hit, this will determine which type of Model will best suit the Golfer.

For instance a 5 Iron with a clubhead speed of 60 miles per hour or less will show a Flexible Model, is suitable. For a 5 Iron with a clubhead speed of between 61 and 80 miles per hour will show a Regular Model is suitable and a 5 Iron with a clubhead speed of 80 miles per hour or more will show a Firm Model is suitable. For a Driver with a clubhead speed of 75 miles per hour or less will show a Flexible Model, is suitable. For a Driver of between 76 and 95 miles per hour will show a Regular Model is suitable and a Driver with a clubhead speed of 96 miles per hour or more will show a Firm Model is suitable. When you go back into the Club Analysis Screen the Shaft Model will be highlighted, from the three choices, Flexible, Regular or Firm.



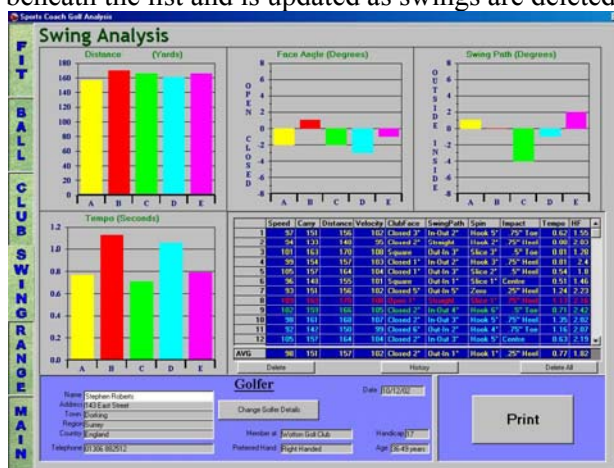
From the chosen Model Stock Selection you can choose the Models that would most suits the Golfer's finances as well as their game. Simply by clicking on the relevant demo models you then drag them onto Demo Models A to E. It is now a good idea to go to the Main screen and hit a few shots, with each of the 5 chosen models. Then you can go back to the Club Analysis Screen to look at Club Comparison, to delete if required any shots that were mishit. The system will now update the averages to show which is the best model for the Golfer. The intention is to update the Models available for each Manufacturers each season, as new Models are released by the Club Manufacturers.

10. Swing Analysis Screen

Swing Analysis can be used for many purposes such as teaching, retailing and databasing.

This screen contains visual graphs to show in colourful graphics ball carry in yards, face angle in degrees, and the swing path in degrees and tempo in seconds. These are very helpful, when teaching as they show the student what they have actually done at impact. Which when used in conjunction with digital video teaching, gives the Golfer the ultimate golf lesson. As this screen shows the Golfer what they have actually done, whilst the digital video shows them why.

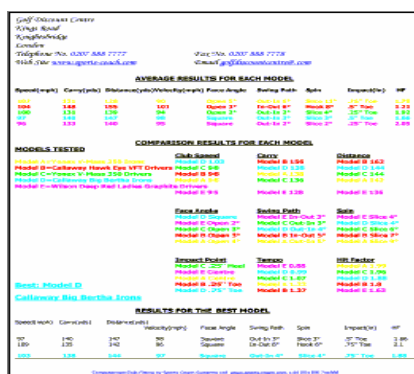
The Swing Table is a complete listing of the shots they have hit, you can delete any shots they were mishit. The average for each of the results is shown beneath the list and is updated as swings are deleted.



Golfer's Information databases the Golfer's Name, Date, Address, Town, Telephone Number, Age Group, County/State, Member at, Country, Preferred Hand and Handicap. So that you can bring up the golfer and look at whatever has been saved against the Golfer in the past, which saves time in the future. This information can be amended at any time.

The System automatically saves the best model details showing the average for that models results, as well as the model's description details. These results are saved in date order, so every time you bring up that players results, you can view that golfers previous performances.

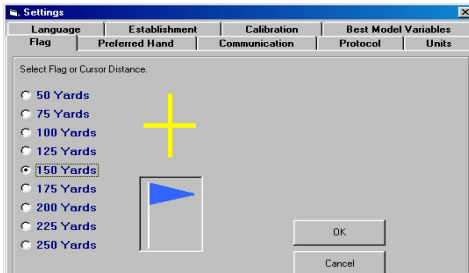
Pressing the Print button, will give you a print out which contains the establishments details, which are amended in the Range/Menu section of the system. The averages for the model's tested are displayed as well as the comparison results for each of the model's tested. The system also displays the best models results and the description for that model. This allows you to present to the Golfer proof of why they made the right decision in the purchasing of their new golf equipment, which they can show to their Golfing friends. It can also be used for Corporate Day Usage or for reinforcing the Golf Lesson. It is worth printing 2 copies of these results, a copy for the golfer and a copy for your own usage.



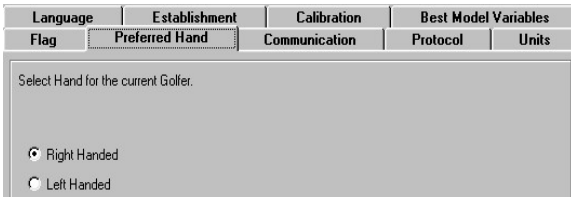
Full Colour Printout of the Best Model Results

11. Range Analysis Screen

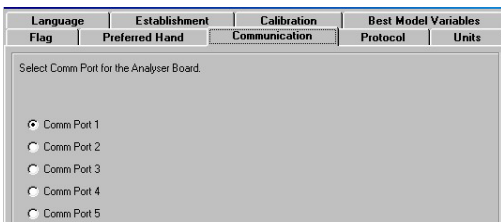
The Driving Range shows the shot data as per the main screen beneath the image, plus the flag distance and the to the flag distance for nearest the pin competitions. To the right of the screen are 18 golf holes, which allow a golf club to have all of there own 18 golf hole images from the tee displayed. Beneath the 18 hole buttons are the Image and Menu buttons. The Menu button allows you to alter the various system Settings, they are as follows:-



Flag setting allows you to choose whether a target or flag appears and the distance it is set at. The system automatically saves the setting; the flag is useful when using the closest the pin feature.



Preferred Hand chose right or left hand; right hand is the default.



Communication chooses the RS232 port the computer is connected to. The system will save your setting. If you do not know which port the computer is set to, you can test the 5 settings. If this fails to work, then contact the supplier of the computer, for advice.



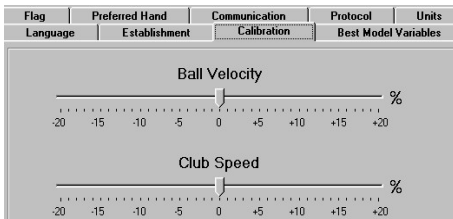
Units allow you to chose metric or imperial measurements, for the 3 settings Distance/Carry, Ball/Club Speed and Impact Point.



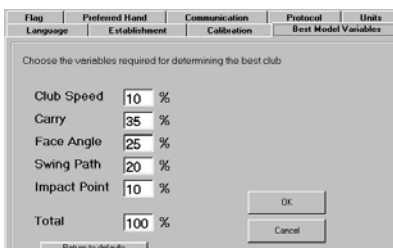
Language setting allows you to select which language you wish to use. The Language setting is also saved, please inform us of any mistakes.



Establishment setting allows you to enter the details that will appear on the printout.

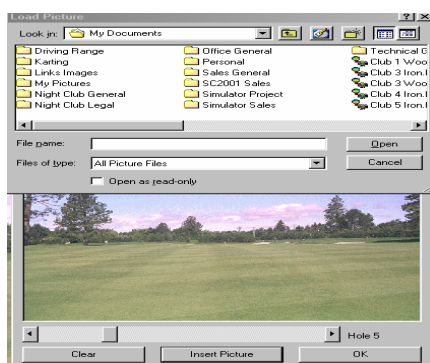


Calibration allows you to increase or decrease a percentage of the ball velocity and club speed-readings. Ball Velocity when altered also affects the carry and distance reading by the same percentage.



Best Model Variables are saved and defaulted to a total of 100%, the figures are used to calculate which is the best model of club or ball. These variables can be adjusted to suit the method of fitting used by the facility.

The system has 18 images defaulted to begin with, however you probably will want to change these, which is fairly easy using the image button. There are also 10 Course buttons, so you in fact have a choice of 180 course image buttons.



When you select the image button you have the option of moving the scroll bar across and the hole number changes. From here you click insert picture button. This then selects windows standard files box. The software is defaulted to search for Picture Files, which are already saved on the computer. Find the images that you require and select those relevant to each hole required, click OK for the system to default to the new image. When you have completed the images you require simple click the X in the top right to close this screen down.

12. Photographs Required

Any good photograph can be utilised, if it is a digital camera, the camera's software will automatically save each image as a picture file, so this is the quickest method. The most common method is using a standard camera and having the photographs developed and then using a scanner simple scan the photographs in as picture file images. The photograph should be taken with the horizon being 50% of the height of the image and with the centre of the fairway or hole in the centre of the width of the image. To get a good perspective depending on the elevation of the hole, it might be a good idea to take photographs on a step ladder, so slightly above the tee. If this is wrong the image could always be altered slightly by someone competent in using image software.

13. Main Analysis Screen

This Screen appears when the system boots up. It is the pivotal screen, which all the other screens require to function.

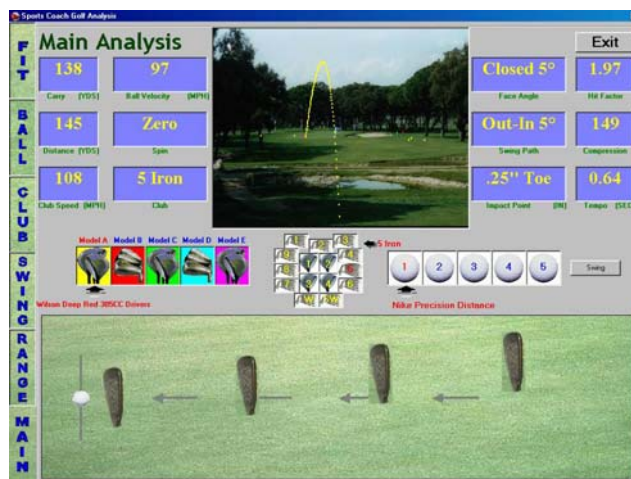
The top right and left of the screen displays all the calculated and inputted data that the simulator mat measures. This being Carry in yards, Spin in degrees, Velocity in miles per hour, Compression in density, Speed in miles per hour,

Impact Point in inches, Rotation in degrees, Hit Factor in ratios, Distance in yards, Face Angle in degrees, Swing Path in degrees and Tempo in seconds.

The top centre of the screen displays the image selected on the driving range, this enables the golfer to see their ball flight at the same time as the clubhead through impact.

The left centre of the screen displays the Models of the clubs, which are selected from the Club Analysis or Fit Analysis screen. Click on a particular Model and its header will change in colour from blue to red, to show it's currently selected; its description will appear underneath. As the Golfer changes the Model they are testing, it's important to click the next Model they are testing. As each model has a different coloured ball flight and landing position. To view the performance of the shots hit for each of the Models you must go to either the Club Analysis or Fit Analysis screen.

The middle centre of the screen displays the range of clubs from Driver 1 to Driver 4 and 1 Iron to Sand Wedge. Click on the Club you are testing and the Club will change from yellow to red, to show it is highlighted. In the top right corner of the Clubs its description appears underneath.



The right centre of the screen displays the Models of the Balls, which are selected from the Ball Analysis screen. Click on a particular Model of a Ball and it's header will change in colour from blue to red, to show it's currently selected, it's description will appear underneath. As the Golfer changes the Model they are testing, it's important to click the next Model they are testing. To view the performance of the shots hit for each of the Models you must go to either the Ball Analysis screen.

The bottom of the screen has a grass background and shows the Golf Club and Ball. Whilst travelling towards the ball the Swing Path is represented. At the ball itself, the position of the Impact Point on the Clubface is represented, as well as the Clubface Angle.

14. Warranty

The Systems are covered by a 12 month back to base warranty, against faulty workmanship. Any transportation and insurance charges are the sole responsibility of the customer. If any other form of damage occurs like, water damage, transportation damage, wear and tear etc. It is not the responsibility of Sports Coach Systems Limited, to cover any eventuality, so we ask that you take out an Insurance Policy to cover any eventuality. All repairs must be paid for before despatch of goods. When doing Chip Shots you must use a flat edged club and not a curved wedge or sand wedge, otherwise you will get some incorrect shots.

15. Error Messages

401 Refers to Database is out of date, to solve insert the Program CD, click Exit when the CD boots up. Then click Start, click Run, then left click Browse, then click arrow next to Look In and click on CD, then double click on Directory SC Golf Analysis, then click on mdac_typ.exe, click OK and follow on screen instructions to update your Database, when completed Reboot and test the program again.