



72-105 CORPORATE WAY, P.O. BOX 970, THOUSAND PALMS, CA 92276

# RANGE MATE<sup>®</sup> WHEEL BALL PICKER

*"FINER QUALITY FOR BETTER GOLF"*

## MANUAL SERVICE & USAGE

### IMPORTANT!

PLEASE READ COMPLETE MANUAL PRIOR TO  
ASSEMBLY & OPERATION!

PHONE: (760) 343-1050

PHONE: (800) 443-4350

FAX: (760) 343-2834

CUSTOMER \_\_\_\_\_

ACCOUNT # \_\_\_\_\_

MODEL # \_\_\_\_\_

DATE OF PURCHASE \_\_\_\_\_

\$12.00

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# **INTRODUCTION**

CONGRATULATIONS ON YOUR NEW RANGE MATE<sup>®</sup> BALL PICKER MANUFACTURED BY WESTERN GOLF, INC.

AT WESTERN GOLF, WE BELIEVE THAT NO ONE BALL PICKER CAN FIT ALL TYPES OF RANGES.

THIS IS WHY WE OFFER THREE BALL PICKER FRAME DESIGNS WHICH HAVE BEEN CONFIGURED TO FIT YOUR TYPE OF RANGE. OUR NO WHEEL BALL PICKER IS FOR LEVEL RANGES WITH A GOOD TURF SURFACE. THE WHEEL BALL PICKER OFFERS STABILITY FOR RUTTED RANGES WITH STEEP SIDES. FINALLY, OUR HILLY TERRAIN BALL PICKER IS FOR RANGES WITH MINIMAL TURF, DEEPLY RUTTED AND AN UNDULATING SURFACE.

YOU ALSO HAVE THE CHOICE OF TWO TYPES OF DISCS: THE DURABLE NYLON DISCS WHICH ARE IDEAL FOR MOST RANGES AND OUR PATENTED ATD DISCS WHICH WESTERN GOLF, INC. DESIGNED SPECIFICALLY FOR ROUGH, ROCKY, AND STEEPLY GRADED RANGES.

BECAUSE OF OUR BELIEF THAT NO ONE BALL PICKER FITS ALL RANGES, OUR PERSONNEL ARE TRAINED TO INQUIRE ABOUT THE CHARACTERISTICS OF YOUR RANGE AND ITS SURFACE.

THE INFORMATION WE RECEIVED FROM YOU WILL HELP ENSURE THAT YOU PURCHASE THE CORRECT BALL PICKER FOR YOUR RANGE.

# **UNPACKING AND INSPECTION**

YOUR BALL PICKER IS SHIPPED PACKAGED IN A CARDBOARD GAYLORD BOX ATTACHED TO A PALLET, SHRINK WRAPPED AND STRAPPED DOWN.

- CHECK THE PACKAGING AND LOOK FOR ANY OUTWARD SIGNS OF DAMAGE.
- UNPACK AND INSPECT FOR HIDDEN DAMAGE.
- CHECK THAT ALL MOVING PARTS TURN FREELY.
- VERIFY THAT ALL PARTS ARE INCLUDED.
- NOTE ANY MISSING PARTS OR DAMAGE ON THE TRUCK COMPANIES BILL OF LADINGS.

**YOU ARE RESPONSIBLE FOR FILING ANY CLAIMS OF DAMAGE AGAINST THE FREIGHT CARRIER!!!**

## **AVAILABLE FRONT WHEEL BALL PICKERS**

WGRM3SW-2	3 SECTIONS NYLON DISCS
WGRA3SW-2	3 SECTIONS ATD DISCS
WGRM5SW-2	5 SECTIONS NYLON DISCS
WGRA5SW-2	5 SECTIONS ATD DISCS
WGRM7SW-2	7 SECTIONS NYLON DISCS
WGRA7SW-2	7 SECTIONS NYLON DISCS

# PACKING LIST

## 3 SECTION WHEEL BALL PICKER

<u>QTY.</u>	<u>ITEM</u>
1	MAINFRAME
1	FRONT WHEEL ASSEMBLY
2	ELBOWS (WITH COLLARS ATTACHED)
1	PUSH BAR AND PUSH BAR PINS
1	MOUNT BAR
3	DRUM SECTIONS (ASSEMBLED)
6	SPLIT BASKETS

## 5 SECTION WHEEL BALL PICKER

ALL OF THE ABOVE PLUS:

<u>QTY.</u>	<u>ITEM</u>
1	LEFT OUTRIGGER ARM (WITH PIN AND COLLAR)
1	RIGHT OUTRIGGER ARM (WITH PIN AND COLLAR)
2	ELBOWS (WITH COLLARS)
2	DRUM SECTIONS (ASSEMBLED)
4	SPLIT BASKETS

## 7 SECTION WHEEL BALL PICKER

ALL OF THE ABOVE PARTS FOR 3 AND 5 SECTION BALL PICKERS  
PLUS:

1	7 SECTION LEFT OUTRIGGER ARM (WITH PIN AND COLLAR)
1	7 SECTION RIGHT OUTRIGGER ARM (WITH PIN AND COLLAR)
2	ELBOWS (WITH COLLARS)
2	DRUM SECTIONS (ASSEMBLED)
4	SPLIT BASKETS

# OPTIONS

- CART BRACKET: SPECIFY YEAR, MAKE, AND MODEL OF VEHICLE
- TOP COVERS FOR SPLIT BASKETS (1 PER BASKET)
- NYLON DISCS
- ATD DISCS

**IF ANY PARTS ARE MISSING PLEASE NOTE THIS ON THE TRUCKING COMPANIES BILL OF LADING AND CONTACT WESTERN GOLF, INC. IMMEDIATELY AT 1 (800) 443-4350.**

# **ASSEMBLY AND INSTALLATION**

## **TOOLS REQUIRED:**

- 7/16" OPEN END WRENCH
- PLIERS

## **ASSEMBLY 3 SECTION WHEEL BALL PICKER**

SELECT A LEVEL AREA WITH SUFFICIENT ROOM TO LAY OUT ALL PARTS.

REVIEW EXPLODED VIEW ON PAGE 9.

1. PLACE MAIN FRAME IN CENTER OF ASSEMBLY AREA.
2. THE FRONT WHEEL ASSEMBLY (SEE PAGE 24) SHOULD BE INSERTED ONTO THE FRONT OF ONE OF THE DRUM SECTION FRAMES.
3. REMOVE THE COLLAR FROM THE TONGUE OF THE FORK CARRIER (SEE PAGE 9) AND INSERT INTO DRUM SECTION FRAMES PILLOW BLOCK (SEE PAGE 9).
4. SECURE THE FORK CARRIER TO FRAME BY ATTACHING THE TONGUE COLLAR.
5. PLACE THE THREE ASSEMBLED DRUM SECTION FRAMES AT EACH CORNER OF THE MAIN FRAME, PLACING THE DRUM SECTION WITH THE WHEEL AT THE FRONT.
6. INSTALL ELBOWS ONTO THE TWO REMAINING DRUM SECTIONS BY REMOVING COLLARS AND SLIPPING THEM INTO THE FRAMES PILLOW BLOCK.
7. SECURE ELBOWS BY ATTACHING COLLARS.

**ASSEMBLY 3 SECTION WHEEL BALL PICKER -**  
**CONTINUED**

8. ATTACH FRONT DRUM SECTION BY INSERTING THE FORK CARRIER INTO MAIN FRAME.
9. SECURE BY ATTACHING COLLAR.
10. NEXT, ATTACH THE TWO REMAINING DRUM SECTIONS BY INSERTING THE ELBOWS INTO THE MAIN FRAME.
11. SECURE BY ATTACHING COLLARS.
12. ATTACH PUSH AND MOUNT BAR (BOTH ARE ASSEMBLED TO EACH OTHER PRIOR TO SHIPPING) TO MAIN FRAME USING PUSH BAR PINS.
13. SECURE WITH COLLARS.
14. PLACE BASKETS INTO DRUM SECTIONS.

**YOUR BALL PICKER IS NOW READY TO ATTACH TO YOUR VEHICLE!**

## **ASSEMBLY 5 SECTION WHEEL BALL PICKER**

FOLLOW THE ABOVE INSTRUCTIONS FOR THE 3 SECTION BALL PICKER:

15. PLACE ADDITIONAL SECTIONS AT ENDS OF ASSEMBLED BALL PICKER.
16. ATTACH OUTRIGGER ARMS TO MAIN FRAME USING THE 12" EXTENSION PIN. THERE IS A RIGHT AND LEFT OUTRIGGER ARM. ATTACH WITH DRUM SECTION END FACING OUTWARD AND THE LONG SIDE OF ELBOW FITTING FACING DOWN.
17. REMOVE COLLARS FROM ELBOWS.
18. ATTACH ELBOWS TO DRUM SECTIONS.
19. SECURE ELBOWS USING COLLARS.
20. PLACE DRUM SECTIONS DIRECTLY UNDER OUTRIGGER ARMS.
21. INSERT ELBOWS INTO OUTRIGGER ARM AND SECURE WITH COLLARS.

**YOUR BALL PICKER IS NOW READY TO ATTACHED TO YOUR VEHICLE!**

## **ASSEMBLY 7 SECTION WHEEL BALL PICKER**

FOLLOW ABOVE INSTRUCTIONS FOR THE 3 AND 5 SECTION WHEEL BALL PICKER.

22. PLACE ADDITIONAL SECTIONS AT THE ENDS OF THE ASSEMBLED BALL PICKER.
23. LAYOUT OUTRIGGER ARMS (4)

## **ASSEMBLY 7 SECTION WHEEL BALL PICKER - CONTINUED**

24. TWO OUTRIGGER ARMS WILL HAVE ATTACHMENT BRACKET WITH AN EXTENSION TO ACCOMMODATE THE FIVE SECTION OUTRIGGER ARMS\* WHICH WILL BE MOVED TO THE OUTSIDE POSITION.
25. ATTACH THESE OUTRIGGER ARMS (EXTENSIONS) ONTO THE MAIN FRAME.
26. ATTACH THE DRUM SECTIONS TO THE OUTRIGGER ARMS BY INSERTING ELBOWS ONTO THE OUTRIGGER ARMS AND SECURING WITH COLLARS.
27. ATTACH THE SECOND SET OF OUTRIGGER ARMS TO THE PROTRUDING BRACKET OF THE INSTALLED OUTRIGGER ARMS USING THE 12" EXTENSION PIN.
28. SECURE 12" EXTENSION PINS WITH COLLARS.
29. REMOVE COLLARS FROM ELBOWS.
30. ATTACH ELBOWS TO DRUM SECTIONS.
31. SECURE USING COLLARS.
32. PLACE DRUM SECTIONS DIRECTLY UNDER OUTRIGGER ARMS.
33. INSERT ELBOWS INTO OUTRIGGER ARMS AND SECURE WITH COLLARS.

**YOUR BALL PICKER IS NOW READY TO ATTACH TO YOUR VEHICLE!**

- \* **IF YOU ARE ADDING 2 SECTIONS TO AN EXISTING 5 SECTION BALL PICKER YOU MUST REMOVE THE OUTRIGGER ARMS AND REPLACE WITH 7 SECTION OUTRIGGER ARMS.**

**FRAME ASSEMBLY OVERVIEW**  
**WHEEL BALL PICKER**

# VEHICLE ATTACHMENT

## CART MOUNTING BRACKETS - ALL PICKERS



**EZ GO BRACKET  
BRACKET**  
WGWP20 (4 BOLT)  
WGWP20M (3 BOLT)  
(specify year & model)  
24 lbs.



**CLUB CAR BRACKET**  
  
WGWP23  
26 lbs.



**YAMAHA CAR\***  
  
WGWP24  
ADAPTER BRACKET  
22 lbs



**UNIVERSAL**  
  
WGWP27  
22 lbs.

IN ORDER TO ATTACH YOUR NEW BALL PICKER TO YOUR VEHICLE YOU WILL NEED A CART MOUNTING BRACKET. YOU MAY ALREADY HAVE AN ACCEPTABLE BRACKET, IF SO, SIMPLY ATTACH YOUR BALL PICKER TO YOUR VEHICLE. **KEEP IN MIND THAT THE PUSH BAR ON YOUR BALL PICKER MUST BE LEVEL TO THE GROUND! BE SURE PUSH BAR CAN SWIVEL ONCE ATTACHED TO THE CART BRACKET.**

IF YOU DO NOT HAVE AN ACCEPTABLE BRACKET CONTACT WESTERN GOLF, INC. AT 1 (800) 443-4350 AND SPECIFY THE MAKE, MODEL, AND YEAR OF THE VEHICLE WITH WHICH YOU INTEND TO PUSH YOUR BALL PICKER.

THE CART MOUNTING BRACKETS BOLT ONTO YOUR VEHICLE USING EXISTING FRAME BOLT PATTERNS. FOR UNCONVENTIONAL VEHICLES WE OFFER A UNIVERSAL BRACKET WHICH CAN BE ADAPTED TO YOUR VEHICLE.

\*YAMAHA AVAILABLE:      WGWP24-A (FOR A-FRAME)  
   WGWP34G (G11 AND G16 SERIES)

# **OPERATION AND USE**

YOUR RANGE MATE WHEEL BALL PICKER HAS BEEN DESIGNED TO BE PUSHED. THE FRONT WHEEL ADDS STABILITY FOR RANGES THAT HAVE RUTS OR STEEP SIDES. EACH SECTION MOVES INDEPENDENT OF THE OTHER SECTIONS ALLOWING FOR BETTER MANEUVERABILITY AND BETTER BALL RETRIEVAL. It IS A LIGHT WEIGHT BALL PICKER SUITED FOR WET RANGES AND DESIGNED TO LESSEN DAMAGE TO YOUR TURF.

## **VEHICLE**

THERE ARE NUMEROUS VEHICLES AVAILABLE TO PUSH YOUR RANGE BALL PICKER. SOME IMPORTANT CONSIDERATIONS WHEN SELECTING A VEHICLE ARE:

- CONTOUR OF RANGE
- LOADED WEIGHT OF BALL PICKER
- VERSATILITY
- GAS OR ELECTRIC

BE SURE TO CHECK WITH THE VEHICLES MANUFACTURER TO PROPERLY SELECT THE RIGHT VEHICLE.

## **PICKING YOUR RANGE**

- DO NOT EXCEED 8 MPH WHEN PICKING YOUR RANGE.
- DO NOT CHASE BALLS! USE A SYSTEMATIC PATTERN WHEN PICKING SIMILAR TO CUTTING YOUR GRASS.
- DO NOT BACK UP BALL PICKER! THIS BENDS THE BALL COMBS.

## OPERATION AND USE

### PICKING YOUR RANGE - CONTINUED

- PICK OFTEN TO AVOID A HEAVY CLUSTER OF BALLS IN ONE AREA. HEAVY CLUSTERS OF BALLS WILL OVERLOAD THE DRUM SECTIONS AND BIND THE DRUM SECTION SO IT WILL NOT ROTATE. BALLS MUST THEN BE MANUALLY REMOVED FROM BETWEEN DISCS.
- CONSIDER WEATHER CONDITIONS PRIOR TO PICKING, VEHICLES CAN AND DO SLIDE IN WET OR RAINY CONDITIONS.
- PICKING BALLS IN MUDDY CONDITIONS DAMAGES YOUR TURF AND BURIES BALLS!
- DISCS ARE MADE OF A SOFT POLYMER MATERIAL AND **SHOULD NOT** BE DRIVEN ON HARD OR COARSE SURFACES. PREMATURE WEAR AND/OR FAILURE WILL RESULT FROM THESE TYPES OF SURFACES.

# **MAINTENANCE**

- CHECK ALL NUTS AND BOLTS (WESTERN GOLF, INC. USES NYLOC NUTS TO ENSURE THAT NUTS DO NOT LOOSEN) AT ONCE A WEEK.
- BALL COMBS (SEE PAGE 28) SHOULD BE CHECKED PRIOR TO PICKING. BENT BALL COMBS CAN RESULT IN MARKED BALLS OR MISSED BALLS WHEN PICKING. A SIMPLE REALIGNMENT USING A POLE FOR LEVERAGE WILL BEND THE COMBS BACK AND ENSURE THAT THE BALL COMBS REMAIN PROPERLY ALIGNED. SPACING BETWEEN DISCS IS IMPORTANT AND COMBS SHOULD BE CENTERED BETWEEN DISCS.
- WASH OFF ALL EXCESSIVE DIRT, MUD, AND GRASS.
- PLACE ON A PREVENTIVE MAINTENANCE SCHEDULE.

## **OFF SEASON STORAGE**

WESTERN GOLF, INC. GOLD IRRIDITE PLATES ALL OF THEIR BALL PICKER FRAMES AND ZINC PLATES THE BALL COMBS AND AXLES. THESE COATINGS ARE THE BEST INHIBITORS FOR RUST AND CORROSION.

HOWEVER, IN AREAS OF EXTREME WEATHER WE RECOMMEND THAT YOUR BALL PICKER SHOULD BE DISASSEMBLED AND STORED IN AN ENCLOSED OR COVERED AREA.

## **REMOVAL FROM STORAGE**

- CHECK CONDITION OF TIRE AND AIR PRESSURE, REPLACE IF NECESSARY.
- LUBRICATE FRONT WHEEL.
- CHECK BALL COMBS FOR ALIGNMENT, ALIGN IF NECESSARY.
- CHECK DISC DRUMS (SEE DISC MAINTENANCE).

## **DISC MAINTENANCE AND REPLACEMENT**

THE MOST IMPORTANT ELEMENT OF YOUR BALL PICKER IS THE DISCS DRUM SECTION. BY PERFORMING A QUICK VISUAL CHECK EACH TIME YOU USE YOUR BALL PICKER YOU CAN EXTEND THE LIFE OF THE DISCS AND MAINTAIN EFFICIENT PICKING PERFORMANCE!

- ALWAYS LOOK FOR BROKEN DISCS AND REPLACE IF NECESSARY.
- MANUALLY CHECK THE ADJUSTMENT OF YOUR DISCS BY PUSHING A GOLF BALL BETWEEN THE DISCS. THE DISCS SHOULD BE TIGHT ENOUGH TO OFFER RESISTANCE WHEN THE GOLF BALL IS INSERTED BETWEEN THE DISCS. IF THE BALL DOES NOT SNAP INTO THE DISCS YOU MUST TIGHTEN THE DRUMS SECTION.
- VISUALLY CHECK THAT BALL COMBS ARE CENTERED ON DISCS TO AVOID DAMAGE TO DISC.

## **DISC ADJUSTMENT-ATD**

### **TOOLS REQUIRED**

- 3/8" OPEN END WRENCH
- 3/8" BOX END WRENCH
- RATCHET WRENCH WITH 1/2" SOCKET

1. REMOVE BASKETS
2. TO ADJUST YOUR DISCS FOR PROPER TENSION YOU MUST LOOSEN THE ADJUSTABLE AXLE BRACKETS LOCATED ON THE FRAME USING THE 3/8" WRENCHES (SEE PAGE 30).

## **DISC ADJUSTMENT-ATD - CONTINUED**

3. NEXT, WITH THE HELP FROM A SECOND PERSON, COMPRESS THE DISCS AND HOLD THEM TOGETHER. PUSH THE ADJUSTABLE AXLE BRACKET, WHICH THE AXLE IS BOLTED TO, INWARD AND TIGHTEN.
4. PUSH THE OPPOSITE ADJUSTABLE AXLE BRACKET INWARD AND TIGHTEN.
5. CHECK THE DISC FOR PROPER TENSION BY INSERTING A GOLF BALL BETWEEN THE DISCS. IF THE BALL SNAPS INTO THE DISCS THE ADJUSTMENT IS COMPLETE. IF THE BALL DOES NOT SNAP INTO PLACE REPEAT ABOVE PROCEDURE.
6. REPEAT ABOVE PROCEDURES ON EACH DRUM SECTION.
7. ALIGN BALL COMBS SO THAT THEY ARE CENTERED BETWEEN DISCS BY LOOSENING THE CARRIAGE BOLT USING THE RATCHET WRENCH AND ½" SOCKET.
8. TIGHTEN CARRIAGE BOLTS AFTER ALIGNMENT.
9. REPLACE BASKETS.

# DISC ADJUSTMENT-NYLON

## TOOLS REQUIRED

- 5/16" BOX END WRENCH
- PLIERS
- RATCHET WRENCH WITH ½" SOCKET

1. REMOVE BASKETS
2. THE NYLON DISCS ARE HELD TOGETHER WITH 4 TIE RODS (5/16" X 36-5/16") AND 8 NYLOC NUTS.
3. THE NYLOC NUTS AT ONE END OF THE TIE RODS HAVE BEEN CRIMPED TO SECURE THE NUT IN PLACE ON THE TIE ROD.
4. LOCATE THE CRIMPED NUTS AND HOLD WITH A PAIR OF PLIERS.
5. USING A 5/16" BOX END WRENCH, TIGHTEN THE OPPOSITE NUT. **DO NOT OVER TIGHTEN!!!**
6. TIGHTEN ALL FOUR NUTS IN A CLOCKWISE DIRECTION WITH EQUAL TURNS.
7. CHECK DISC TENSION BY INSERTING A GOLF BALL BETWEEN THE DISCS, THE BALL SHOULD SNAP INTO PLACE.
8. REPEAT UNTIL PROPER TENSION IS ACHIEVED.
9. ALIGN BALL COMBS SO THAT THEY ARE CENTERED BETWEEN DISCS BY LOOSENING THE CARRIAGE BOLTS WITH A RATCHET WRENCH USING A ½" SOCKET.
10. TIGHTEN CARRIAGE BOLTS AFTER ALIGNMENT.
11. REPLACE BASKETS.

# **DISC REPLACEMENT-ATD**

## **TOOLS REQUIRED**

- 3/8" OPEN END WRENCH
- 3/8" BOX END WRENCH
- RATCHET WRENCH WITH 1/2" SOCKET

THE ATD DISCS WERE DESIGNED SPECIFICALLY FOR ROUGH RANGES WITH COARSE TERRAIN. BECAUSE OF THIS THE ATD DISCS SHOULD OUT LAST THE ABS AND NYLON DISCS THAT YOU WERE PREVIOUSLY USING BY TWO TO THREE TIMES.

## **WHEN REPLACEMENT IS REQUIRED:**

1. REMOVE BASKETS
2. UNBOLT AXLE ADJUSTMENT BRACKETS (3/8" X 2-1/2" BOLT AND 3/8" NUT).
3. PROP UP THE FRAME SO THAT THE FRAME IS SUSPENDED OFF OF THE GROUND.
4. THE AXLE AND DISC WILL REMAIN ON THE GROUND INTACT, MOVE TO AN ACCESSIBLE WORK AREA.
5. KEEP AXLE IN PLACE AND REMOVE DISCS ONE AT A TIME (KEEP DISCS IN THE ORDER THAT THEY ARE REMOVED) UNTIL YOU REACH THE DAMAGED DISC.
6. REPLACE DAMAGED DISC WITH A NEW DISC AND RETURN USED DISC IN THE ORDER YOU REMOVED THE DISCS FROM THE AXLE.
7. PLACE COMPLETE DRUM SECTION BENEATH FRAME, LOWER FRAME AND BOLT AXLE ADJUSTMENT BRACKET TO FRAME.

## **DISC REPLACEMENT – ATD - CONTINUED**

8. USE DISC ADJUSTMENT BRACKETS TO OBTAIN PROPER DISC TENSION (SEE DISC ADJUSTMENT PROCEDURE ON PAGE 14).
9. REPEAT AS REQUIRED ON EACH DRUM SECTION.
10. ALIGN BALL COMBS SO THAT THEY ARE CENTERED BETWEEN DISCS BY LOOSENING THE CARRIAGE BOLTS WITH A RATCHET WRENCH USING A ½” SOCKET.

**NOTE:      END DISC MUST BE REVERSED SO THAT KNOBS ON THE DISC FACE INWARD.**

# DISC REPLACEMENT-NYLON

## TOOLS REQUIRED

- 5/16" BOX END WRENCH
- 3/8" OPEN END WRENCH
- 3/8" BOX END WRENCH
- PLIERS
- RATCHET WRENCH WITH A 1/2" SOCKET

1. REMOVE BASKET FROM FRAME
2. REMOVE DRUM SECTION FROM FRAME BY UNBOLTING THE FRAME ADJUSTMENT BRACKET USING 3/8" WRENCHES.
3. PLACE DRUM ON A WAIST HIGH WORK BENCH OR OTHER SURFACE.
4. THE NYLON DISCS ARE HELD TOGETHER WITH 4 TIE RODS (5/16" X 36-5/16") AND 8 NYLOC NUTS.
5. THE NYLOC NUTS AT ONE END OF THE TIE RODS HAVE BEEN CRIMPED TO SECURE THE NUT IN PLACE ON THE TIE ROD.
6. LOCATE THE CRIMPED NUTS AND HOLD WITH A PAIR OF PLIERS.
7. USING A 5/16" BOX END WRENCH REMOVE THE NUTS FROM THE TIE RODS.
8. AT THIS POINT TAKE TIME TO INSPECT THE COMPLETE SECTION OF DISCS.
9. THE DISCS HAVE BEEN DESIGNED WITH TWO TYPES OF END DISCS. ONE END DISC HAS 1/2" NOTCHES WHICH FIT ONTO CORRESPONDING SPACERS, THE OTHER HAS SPACERS ONLY.

## **DISC REPLACEMENT-NYLON - CONTINUED**

10. DETERMINE WHICH END DISC YOU HAVE FOR EASE OF REASSEMBLY.
11. REMOVE ONE DISC AT A TIME AND KEEP THEM IN ORDER OF REMOVAL.
12. ONCE YOU HAVE REMOVED AND REPLACED THE DAMAGED DISC REINSTALL DISCS IN THE ORDER YOU REMOVED THE DISCS.
13. TIGHTEN THE NYLOC NUTS ONTO THE TIE RODS. BE SURE **YOU** HAVE PLACED THE PROPER END DISC ON THE DRUM SECTION!! **THERE SHOULD BE NO PROTRUDING ENDS!!**
14. TIGHTEN ALL FOUR NUTS IN A CLOCKWISE DIRECTION WITH EQUAL TURNS.
15. CHECK DISC TENSION BY INSERTING A GOLF BALL BETWEEN THE DISCS, THE BALL SHOULD SNAP INTO PLACE.
16. REPEAT UNTIL PROPER TENSION IS ACHIEVED.
17. RE-INSTALL REPAIRED DRUM SECTION ONTO FRAME.
18. ALIGN BALL COMBS SO THAT THEY ARE CENTERED BETWEEN DISCS USING THE RATCHET WRENCH AND ½" SOCKET TO LOOSEN THE ½" CARRIAGE BOLTGS THAT SECURE THE BALL COMBS TO THE FRAME.
19. TIGHTEN CARRIAGE BOLTS.
20. REPLACE BASKETS.

# **REPAIRS & REPLACEMENT PARTS**

STANDARD HARDWARE IS USED ON ALL WESTERN GOLF, INC. BALL PICKERS AND IS AVAILABLE AT LOCAL HARDWARE STORES. PLEASE REFER TO THE TECHNICAL SECTION OF THIS MANUAL FOR INDIVIDUAL SPECIFICATIONS.

WESTERN GOLF, INC. DOES KEEP AN INVENTORY OF REPLACEMENT PARTS AND IN CASES OF IMMEDIATE NEED FOR PARTS WE DO OFFER SEVERAL NEXT DAY DELIVERY SERVICES. KEEP IN MIND THAT A PREMIUM IS CHARGED BY THE CARRIER FOR NEXT DAY OR OTHER IMMEDIATE DELIVERIES.

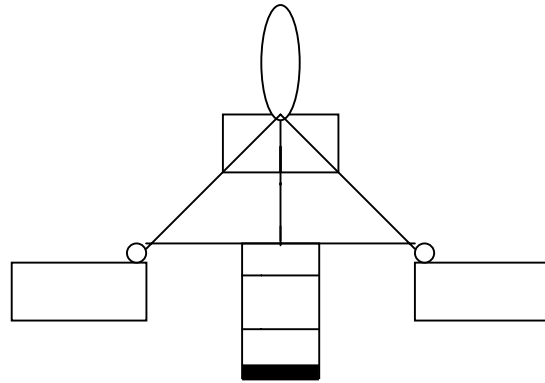
ALWAYS STATE THE MODEL OF THE BALL PICKER YOU ARE REQUESTING PARTS FOR AND REFER TO THE TECHNICAL SECTION FOR PROPER PART NUMBERS.

OUR CUSTOMER SERVICE REPRESENTATIVES CAN ASSIST YOU IN IDENTIFYING THE TYPE OF BALL PICKER YOU HAVE PURCHASES.

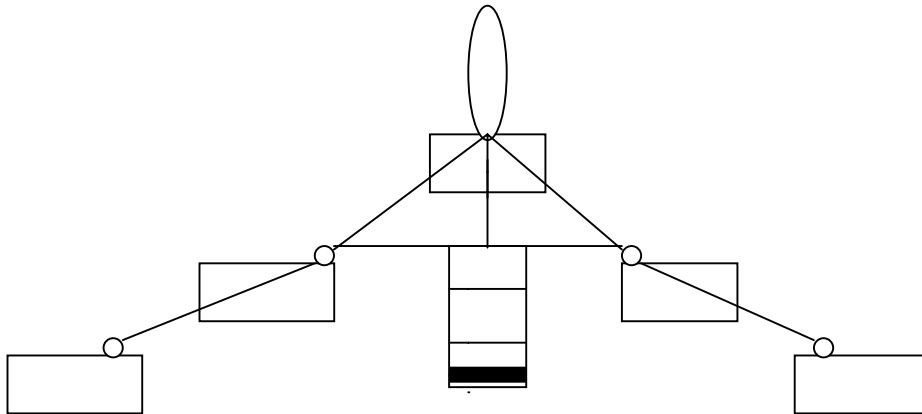
ALL WESTERN GOLF, INC. PRODUCTS HAVE BEEN DESIGNED SO THAT PERSONS WITH REASONABLE MAINTENANCE SKILLS CAN ACCOMPLISH ASSEMBLY AND REPAIRS.

WHEN WORKING WITH ANY MACHINERY, FUNDAMENTAL SAFETY RULES AND FUNDAMENTAL OPERATIONS SHOULD BE FOLLOWED.

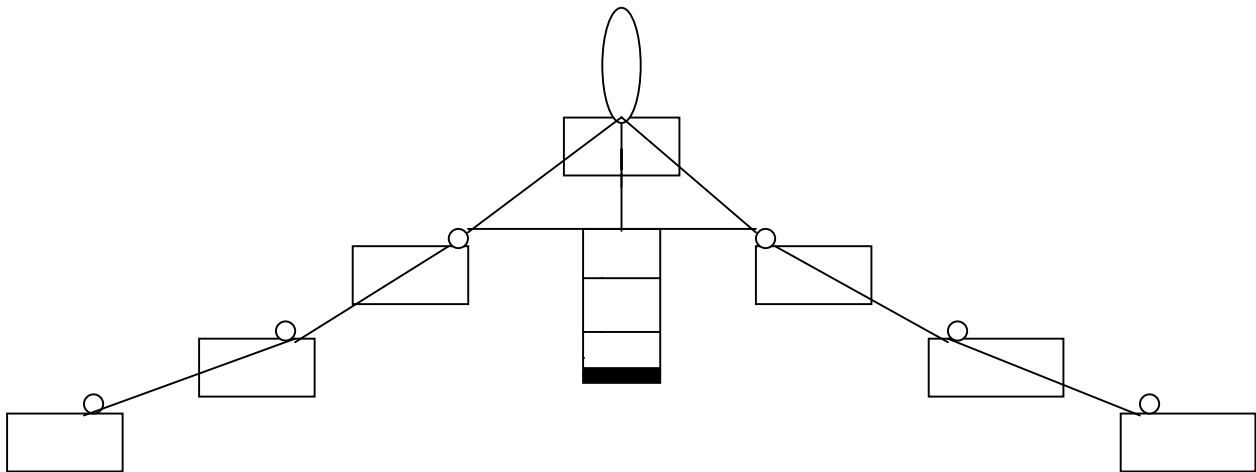
# RANGE MATE® WHEEL BALL PICKER DIAGRAM AND SPECIFICATION CHART



WGRM3SW-2    3 SECTION WHEEL W/NYLON DISC  
WGRA3SW-2    3 SECTION WHEEL W/ATD DISC



WGRM5SW-2    5 SECTION WHEEL W/NYLON DISC  
WGRA5SW-2    5 SECTION WHEEL W/ATD DISC



WGRM7SW-2    7 SECTION WHEEL W/NYLON  
WGRA7SW-2    7 SECTION WHEEL W/ATD DISC

# SPECIFICATIONS

<b>PART #</b>	<b>OVERALL WIDTH</b>	<b>BALL CAPACITY</b>	<b>WEIGHT EMPTY</b>	<b>WEIGHT FULL</b>
WGRM3SW-2	9'	1500	310	490
WGRA3SW-2	9'	1500	340	520
WGRM5SW-2	15'	2500	410	710
WGRA5SW-2	15'	2500	440	740
WGRM7SW-2	21'	3500	540	960
WGRA7SW-2	21'	3500	580	1020

**RANGE MATE® WHEEL BALL  
PICKER**

**FRONT WHEEL SUB-ASSEMBLY**

# RANGE MATE® WHEEL BALL PICKER

## FRONT WHEEL SUB-ASSEMBLY

### PARTS LIST

- |     |          |                                     |
|-----|----------|-------------------------------------|
| 1.  | WGRM216  | 1" COLLAR                           |
| 2.  | WGWP7    | OIL LITE BRONZE 1' BUSHING (2 REQ.) |
| 3.  | WGRM015  | FORK                                |
| 4.  | WGRA024W | AXLE WASHER                         |
| 5.  | WGRM016  | TIRE-COMPLETE                       |
| 6.  | WG1430   | AXLE                                |
| 7.  | WGRM013  | FORK CARRIER                        |
| 8.  | WGRM14P  | TONGUE PIN                          |
| 9.  | WGRM014  | TONGUE                              |
| 10. | WGRM005C | COLLAR (2 REQ.)                     |

# **RANGE MATE® WHEEL BALL PICKER**

## **MAIN FRAME SUB ASSEMBLY**

# RANGE MATE® WHEEL BALL PICKER MAIN FRAME SUB ASSEMBLY

## PARTS LIST

- |    |                        |   |
|----|------------------------|---|
| 1. | WGRM003                | MOUNT BAR*  |
| 2. | WGRM009                | PUSH BAR PIN (4 PER MOUNT BAR)  |
| 3. | WGRM002                | PUSH BAR  |
| 4. | WGRM010                | OUTRIGGER ARM PIN (1 PER ARM)   |
| 5. | WGRM001W               | MAIN FRAME  |
| 6. | WGRM006WR<br>WGRM006WL | FIVE SECTION OUTRIGGER ARM<br>(RIGHT & LEFT REQUIRED)                               |
| 7. | WGRM007<br><br>WGRM008 | SEVEN SECTION OUTRIGGER<br>ARM - RIGHT<br><br>SEVEN SECTION OUTRIGGER<br>ARM - LEFT |
| 8. | WGRM005C               | ELBOW COLLARS (6 REQUIRED)**  |

\* MOUNT BAR IS ALWAYS ATTACHED TO THE PUSH BAR WHEN SHIPPED.

\*\*ELBOW COLLARS ARE USED TO SECURE PUSH BAR PINS AND OUTRIGGER ARM PINS.

# **WHEEL PICKER SECTION SUB-ASSEMBLY**

## **ATD DISC FRAME**

# WHEEL PICKER SECTION SUB-ASSEMBLY

## ATD DISC FRAME

- |    |                |   |
|----|----------------|---|
| 1. | WGRA026        | ATD DISC (17 REQ.)  |
| 2. | WGRM024        | AXLE  |
| 3. | WGRA024W       | SPACER (2)  |
| 4. | WGRA004W       | ATD FRAME-WHEEL   |
| 5. | WGRM020S       | SPLIT BASKET  |
| 6. | WGRM005W       | ELBOW WITH COLLARS,<br>NUTS AND BOLTS                               |
| 7. | NO PART NUMBER | PILLOW BLOCK FOR ELBOW &<br>TONGUE CONNECTIONS<br>(WELDED TO FRAME) |
| 8. | WGRA025        | BALL COMB (2 TINES) (8 REQ.)  |
| 9. | WGRM024B       | ADJUSTABLE AXLE BRACKET<br>WITH NUTS/BOLTS                          |

**D - WHEEL PICKER SECTION  
SUB-ASSEMBLY**

**NYLON DISC FRAME**

# WHEEL PICKER SECTION SUB-ASSEMBLY

## NYLON DISC FRAME

- |     |                                 |   |
|-----|---------------------------------|---|
| 1.  | WGRM036<br>WGRM036N<br>WGRM036S | NYLON (19 REQ.)<br>END DISC WITH ½ NOTCHES<br>END DISC WITH SPACERS |
| 2.  | WGRM004W                        | NYLON FRAME-WHEEL   |
| 3.  | WGRM024                         | AXLE  |
| 4.  | WGRM024B                        | ADJUSTABLE AXLE BRACKET<br>WITH NUTS AND BOLTS                      |
| 5.  | WGRA024W                        | SPACER (2)  |
| 6.  | WGRM020S                        | SPLIT BASKET  |
| 7.  | WGRM005W                        | ELBOW WITH COLLAR,<br>NUTS AND BOLTS                                |
| 8.  | NO PART NUMBER                  | PILLOW BLOCK FOR ELBOW &<br>TONGUE CONNECTORS<br>(WELDED TO FRAME)  |
| 9.  | WGRM025                         | FLAT BALL COMB (10 TINES) (2REQ.)                                   |
| 10. | WGRM022T                        | TIE ROD W/NUTS AND WASHERS  |

# COMPLETE PARTS LIST

## RANGE MATE<sup>®</sup>

### WHEEL BALL PICKER

<u>CATALOG NUMBER</u>	<u>DESCRIPTION</u>
WGRM001W	MAIN FRAME – WHEEL
WGRM002	PUSH BAR
WGRM003	MOUNT BAR
WGRM004W	NYLON FRAME – WHEEL
WGRA004W	ATD FRAME - WHEEL
WGRM005C	COLLAR
WGRM005W	ELBOWS W/COLLARS, NUTS & BOLTS
WGRM006WL	FIVE SECTION OUTRIGGER ARM – LEFT
WGRM006WR	FIVE SECTION OUTRIGGER ARM – RIGHT
WGRM007	SEVEN SECTION OUTRIGGER ARM – RIGHT
WGRM008	SEVEN SECTION OUTRIGGER ARM – LEFT
WGRM009	PUSH BAR PIN
WGRM010	OUTRIGGER ARM PIN
WGRM013	FORK CARRIER
WRRM014	TONGUE
WGRM14P	TONGUE PIN
WGRM015	FORK
WGRM016	TIRE – COMPLETE
WGRM020S	SPLIT BASKET
WGRM022T	NYLON TIE ROD W/NUTS & WASHERS

# COMPLETE PARTS LIST (CON.)

## RANGE MATE<sup>®</sup> WHEEL BALL PICKER

### CATALOG NUMBER

### DESCRIPTION

WGRM024	AXLE
WGRM024B	ADJUSTABLE AXLE BRACKET
WGRM024BB	ADJUSTABLE AXLE BRACKET NUT/BOLT
WGRM024W	SPACER (AXLE WASHER)
WGRA025	ATD BALL COMB (2 TINES)
WGRM025	NYLON BALL COMBS
WGRA026	ATD DISC
WGRM036	NYLON DISC
WGRM036N	NYLON END DISC W/ ½" NOTCH
WGRM036S	NYLON END DISC W/ 1 ½" SPACER
WGRM216	1" COLLAR
WG1430	AXLE – FRONT WHEEL
WGWP7	1" OIL LITE BRONZE BUSHING
WGWP20	E-Z GO BRACKET (4 BOLT)
WGWP23	CLUB CAR BRACKET
WGWP24	YAMAHA CAR BRACKET
WGWP24-A	YAMAHA CAR BRACKET – A FRAME
WGWP27	UNIVERSAL CART BRACKET
WGWP34G	YAMAHA G11 & G16 SERIES

# D - RANGE MATE WHEEL BALL PICKER

## WARRANTY

CONGRATULATIONS ON PURCHASING YOUR NEW RANGE MATE LIGHT WEIGHT BALL PICKER FROM WESTERN GOLF, INC. WESTERN GOLF HAS BEEN SUPPLYING RANGE EQUIPMENT TO GOLF COURSES AND GOLF RANGES SINCE 1956. WE TAKE PRIDE IN OFFERING QUALITY PRODUCTS AT A FAIR PRICE.

### 90 DAY LIMITED WARRANTY

YOUR RANGE MATE PICKER IS WARRANTED TO THE ORIGINAL PURCHASER FOR 90 DAYS AFTER THE DATE OF DELIVERY. CONTACT WESTERN GOLF PRIOR TO RETURNING DEFECTIVE PART(S).

WITHIN NINETY (90) DAYS AFTER PURCHASE, WESTERN GOLF, INC. WILL REPAIR OR REPLACE, AT OUR OPTION, THIS EQUIPMENT IF SENT **PREPAID** BY THE PURCHASER TO US, AND FOUND, IN OUR JUDGMENT, TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP.

**DISC** THE PLASTIC DISCS ARE WARRANTED AGAINST BREAKAGE TO ORIGINAL PURCHASER AGAINST MANUFACTURES DEFECTS. DAMAGED PARTS MUST BE SHIPPED **PREPAID** TO WESTERN GOLF, INC. FOR EXAMINATION AND VERIFICATION BY WESTERN GOLF, INC.

WE DO NOT AUTHORIZE ANYONE TO MAKE ANY OTHER WARRANTY OR TO ASSUME FOR US ANY LIABILITY IN CONNECTION WITH THE SALE OF THE EQUIPMENT OTHER THAN THAT CONTAINED HEREIN. ANY AGREEMENTS OUTSIDE OF OURS ARE CONTRADICTORY TO THE FOREGOING AND ARE VOID AND OF NO EFFECT.

IF YOU HAVE ANY QUESTIONS OR PROBLEMS, PLEASE CALL OUR OFFICE AT (800) 443-4350.

THANK YOU FOR SELECTING A WESTERN GOLF, INC. PRODUCT.

72-105 CORPORATE WAY THOUSAND PALMS, CA 92276-0970